

# ТАСТИС

ПРОМЫШЛЕННЫЙ МЕТАЛЛОРЕЖУЩИЙ ИНСТРУМЕНТ





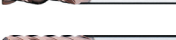













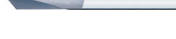

# ФРЕЗЫ

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## КАТАЛОГ ПРОДУКЦИИ










	СЕРИЯ	КРАТКОЕ ОПИСАНИЕ	СТРАНИЦА
	<b>TPU58</b>	Концевые фрезы общего назначения. Применяются для обработки сталей, штамповых сталей и чугуна	<b>8–38</b>
	<b>TUR60</b>	Концевые фрезы для черновой обработки. Применяются для получистовой и черновой обработки сталей и чугунов с высокой скоростью обработки	<b>39–44</b>
	<b>TMU30</b>	Концевые фрезы общего назначения для обработки нержавеющей сталей.	<b>45–65</b>
	<b>TSS30</b>	Концевые фрезы для высокопроизводительной обработки нержавеющей сталей и жаропрочных сплавов	<b>66–71</b>
	<b>TSU30</b>	Концевые фрезы общего назначения для обработки титановых сплавов	<b>72–93</b>
	<b>TSP40</b>	Концевые фрезы для высокоточной обработки титановых сплавов	<b>94–99</b>
	<b>TUS20</b>	Концевые фрезы для высокопроизводительной обработки. Применяются для обработки сталей, штамповых сталей и чугуна	<b>100–103</b>
	<b>THU20</b>	Концевые фрезы общего назначения для обработки закаленных сталей. Специальная конструкция в сочетании с высокой твердостью и высокой ударной вязкостью. Применяются для чистовой обработки закаленных сталей твердостью 48-55 HRC	<b>104–132</b>
	<b>THS20</b>	Концевые фрезы для высокоэффективной обработки закаленных сталей. Применяются для черновой и чистовой обработки с высокой подачей сталей высокой твердости 35-65 HRC	<b>133–136</b>
	<b>THP65</b>	Концевые фрезы для высокоточной обработки закаленных сталей. Подходит для чистовой обработки закаленных сталей высокой твердости 30-60 HRC	<b>137–140</b>
	<b>THH20</b>	Концевые фрезы с увеличенной жесткостью, для обработки закаленных сталей. Применяются для черновой и чистовой обработки с высокой подачей сталей высокой твердости 35-60 HRC	<b>141–162</b>
	<b>TNU58</b>	Концевые фрезы общего назначения для обработки цветных сплавов. Применяются для алюминиевых и медных сплавов.	<b>163–184</b>
	<b>TNU70</b>	Концевые фрезы для обработки алюминиевых сплавов. Применяются для высокоэффективной получистовой и чистовой обработки алюминиевых сплавов (Si≤12%)	<b>185–204</b>
	<b>TNO10</b>	Концевые фрезы для обработки алюминиевых сплавов, однокромочные	<b>205–207</b>
	<b>TNC70</b>	Концевые фрезы для обработки медных сплавов. Применяются для высокоэффективной получистовой и чистовой обработки сплавов на основе меди	<b>208–232</b>
	<b>TNG80</b>	Концевые фрезы для обработки графита	<b>233–259</b>
	<b>THC10</b>	Концевые фрезы с вставками из CBN. Применяются для чистовой обработки сталей высокой твердости 35-55 HRC	<b>260–278</b>
	<b>TR60</b>	Концевые фрезы универсального применения для обработки радиусов	<b>279–284</b>
	<b>TC60 /90/120</b>	Концевые фрезы универсального применения с углом 60/90/120° для обработки фасок	<b>285–290</b>
	<b>TG</b>	Однокромочные концевые фрезы с различными углами при вершине для гравировки и обработки фасок	<b>291–293</b>

Серия фрез	Обрабатываемый материал											
	P		M	K	N			S	H			
	Углеродистые стали <35HRC	Легированные стали <48HRC	Нержавеющие стали	Чугун	Алюминиевые сплавы	Медные сплавы	Графит/Композитные материалы	Жаропрочные сплавы	Титановые сплавы	Закаленная сталь 45-55HRC	Закаленная сталь 55-65HRC	Закаленная сталь 60-70HRC
TPU58	●			●								
TUR60		●		●						●		
TMU30			●									
TSS30			●						●			
TSU30									●			
TSP40							●		●			
TUS20	●	●		●								
THU20		●		●						●		
THS20		●								●	●	
THP65		●		●						●		
THH20		○								●	●	●
TNU58					●	●						
TNU70					●	●						
TNO10					●	●						
TNC70					○	●						
TNG80					○	○	●					
THC10						●				●	●	●
TR60	●	●		●	●	●						
TC90	●	●		●	●	●						

## ПОКРЫТИЯ

<b>TiAlSiN</b>	TiAlSiN
<b>NACO3</b>	NACO3
<b>TiSiN</b>	TiSiN
<b>DLC</b>	DLC
<b>CSC</b>	CSC
<b>BALZERS</b>	BALZERS
<b>CBN</b>	CBN

## КОЛИЧЕСТВО ЗУБЬЕВ

	2 зуба
	3 зуба
	4 зуба
	5 зубьев
	6 зубьев
	Переменный шаг зубьев

## УГОЛ НАКЛОНА СПИРАЛИ

<b>10°</b>	10°
<b>30°</b>	30°
<b>35°</b>	35°
<b>35°–37°</b>	35°–37° Переменный угол наклона
<b>36°–39°</b>	36°–39° Переменный угол наклона
<b>38°–40°</b>	38°–40° Переменный угол наклона
<b>40°</b>	40°
<b>45°</b>	45°
<b>48°</b>	48°

## ОСОБЕННОСТИ

<b>R</b>	Радиус при вершине
<b>90°</b>	Фасочная фреза 90°

## ФРЕЗЫ

T P U 58 - R N 4 - 1 R0.2 - 1.2 N12 A - S4

1

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## 1 Серия

TPU58 — Фрезы для стандартной обработки стали

TUR60 — Фрезы для черновой обработки

TMU30 — Фрезы для стандартной обработки нержавеющей сталей

TSS30 — Фрезы для высокопроизводительной обработки нержавеющей сталей и жаропрочных сплавов

TSU30 — Фрезы для стандартной обработки титановых сплавов

TSP40 — Фрезы для высокоточной обработки титановых сплавов

TUS20 — Фрезы для высокоэффективной обработки

THU20 — Фрезы для стандартной обработки закаленных сталей

THS20 — Фрезы для высокоэффективной обработки закаленных сталей

THP65 — Фрезы для высокоточной обработки закаленных сталей

THH20 — Фрезы с увеличенной жесткостью, для обработки закаленных сталей

TNU58 — Фрезы для стандартной обработки цветных материалов

TNU70 — Фрезы для обработки цветных материалов, общего применения

TNO10 — Фрезы для обработки цветных материалов, однокромочные

TNC70 — Фрезы для обработки медных сплавов

TNG80 — Фрезы для обработки графита

THC10 — Фрезы CBN

TR60 — Фрезы для обработки обратных радиусов

TC90 — Фрезы с углом 90° для обработки фасок

TG — Фрезы с различными углами при вершине для гравировки и обработки фасок

## ФРЕЗЫ

T P U 58 - R N 4 - 1 R0.2 - 1.2 N12 A - S4

1

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4

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**2 Форма режущей части**

S — Плоский торец  
 B — Сферическая  
 R — С радиусом при вершине  
 C — С фаской

**3 Тип хвостовика и режущей части**

T — Стандартный хвостовик  
 N — Хвостовик с обнижением  
 H — Удлиненный хвостовик  
 L — Удлиненная режущая часть  
 S — Короткая режущая часть

**4 Количество режущих зубьев**

1 — 1 зуб  
 2 — 2 зуба  
 3 — 3 зуба  
 4 — 4 зуба  
 5 — 5 зубьев  
 6 — 6 зубьев

**5 Диаметр режущей части**

1 — Диаметр 1 мм  
 1.5 — Диаметр 1.5 мм  
 2 — Диаметр 2 мм

**6 Радиус при вершине**

R0.5 — Радиус 0.5 мм  
 R1 — Радиус 1 мм  
 R1.5 — Радиус 1.5 мм

**7 Длина режущей части**

0.5 — Длина 0.5 мм  
 1.2 — Длина 1.2 мм  
 2 — Длина 2 мм

**8 Длина обнижения**

N3.5 — Длина 3.5 мм  
 N8 — Длина 8 мм  
 N12 — Длина 12 мм

**9 Общая длина инструмента**

A — Длина 50 мм  
 B — Длина 60 мм  
 C — Длина 75 мм  
 D — Длина 100 мм  
 E — Длина 120 мм  
 F — Длина 150 мм  
 G — Длина 200 мм

**10 Диаметр хвостовика**

S4 — Диаметр 4 мм  
 S6 — Диаметр 6 мм  
 S8 — Диаметр 8 мм

## ФРЕЗЫ (С ОБРАТНЫМ РАДИУСОМ)

TR60 – T 2 – R1.25 A – S6

1	2	3	4	5	6
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**1 Серия**

TR60 — Фрезы для обработки обратных радиусов

**2 Тип хвостовика**

T — Стандартный хвостовик  
H — Удлиненный хвостовик

**3 Количество режущих зубьев**

2 — 2 зуба  
4 — 4 зуба

**4 Размер обратного радиуса**

R0.5 — Радиус 0.5 мм  
R1 — Радиус 1 мм  
R1.25 — Радиус 1.25 мм

**5 Общая длина инструмента**

A — Длина 50 мм  
B — Длина 60 мм  
C — Длина 75 мм  
D — Длина 100 мм  
E — Длина 120 мм  
F — Длина 150 мм  
G — Длина 200 мм

**6 Диаметр хвостовика**

S4 — Диаметр 4 мм  
S6 — Диаметр 6 мм  
S8 — Диаметр 8 мм

## ФРЕЗЫ (ДЛЯ ФАСОК 90°)

TC90 – T 4 – 4 A

1	2	3	4	5
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**1 Серия**

TC90 — Фрезы для обработки фасок 90 градусов

**2 Тип хвостовика**

T — Стандартный хвостовик  
H — Удлиненный хвостовик

**3 Количество режущих зубьев**

2 — 2 зуба  
4 — 4 зуба

**4 Диаметр**

4 — Диаметр 4 мм  
6 — Диаметр 6 мм  
8 — Диаметр 8 мм

**5 Общая длина инструмента**

A — Длина 50 мм  
B — Длина 60 мм  
C — Длина 75 мм  
D — Длина 100 мм  
E — Длина 120 мм  
F — Длина 150 мм  
G — Длина 200 мм

## ГРАВЕРЫ

TGC 20 - 00 - S4

1

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**1 Серия**

TGC — Фрезы с покрытием, для обработки стали

TGW — Фрезы без покрытия, для обработки цветных материалов

**2 Угол при вершине**

20 — 20°

30 — 30°

**3 Диаметр при вершине**

00 — Заостренная вершина

015 — Диаметр 0.15

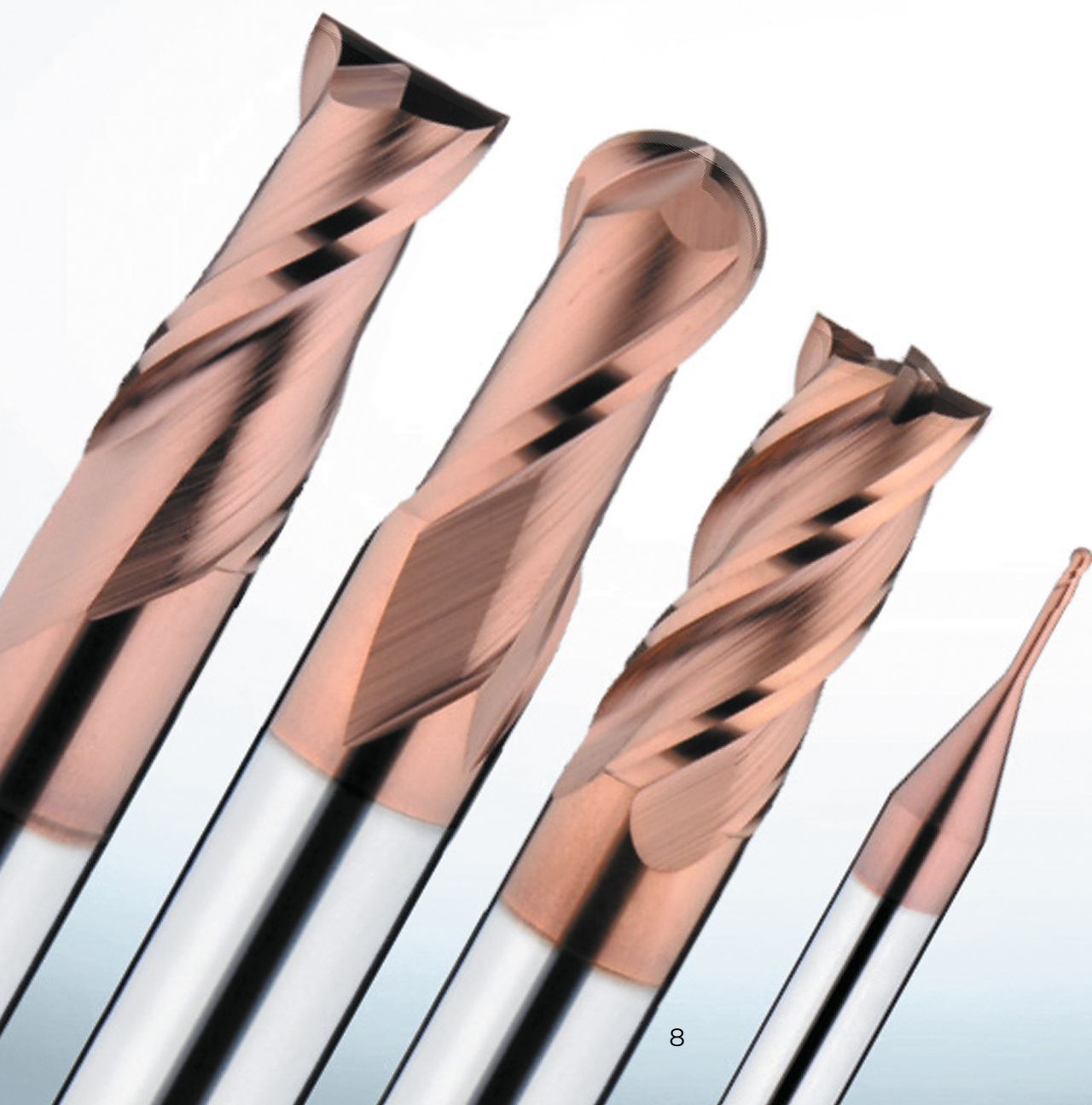
**4 Диаметр хвостовика**

S4 — Диаметр 4мм

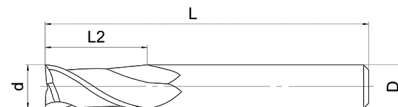
S6 — Диаметр 6 мм

# TPU58

Фрезы для стандартной обработки стали

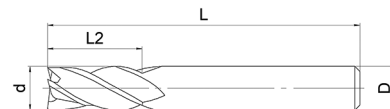


## Концевая фреза



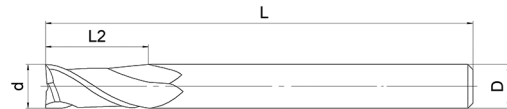
Артикул Tactic	d	L2	L	D
TPU58-ST2-1.2-4A	1.2	4	50	4
TPU58-ST2-1.5-4.5A	1.5	4.5	50	4
TPU58-ST2-2-6A	2	6	50	4
TPU58-ST2-3-8A	3	8	50	4
TPU58-ST2-4-11A	4	11	50	4
TPU58-ST2-5-13A	5	13	50	6
TPU58-ST2-6-15A	6	15	50	6
TPU58-ST2-8-20B	8	20	60	8
TPU58-ST2-10-25C	10	25	75	10
TPU58-ST2-12-30C	12	30	75	12
TPU58-ST2-14-35D	14	35	100	14
TPU58-ST2-16-40D	16	40	100	16
TPU58-ST2-18-45D	18	45	100	16
TPU58-ST2-20-45D	20	45	100	20
TPU58-ST2-25-40D	25	40	100	20

## Концевая фреза



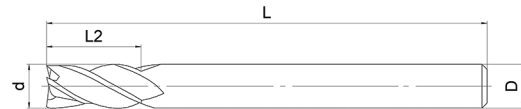
Артикул Tactic	d	L2	L	D
TPU58-ST4-2-6A	2	6	50	4
TPU58-ST4-3-8A	3	8	50	4
TPU58-ST4-4-11A	4	11	50	4
TPU58-ST4-5-13A	5	13	50	6
TPU58-ST4-6-15A	6	15	50	6
TPU58-ST4-8-20B	8	20	60	8
TPU58-ST4-10-25C	10	25	75	10
TPU58-ST4-12-30C	12	30	75	12
TPU58-ST4-14-35D	14	35	100	14
TPU58-ST4-16-40D	16	40	100	16
TPU58-ST4-18-45D	18	45	100	16
TPU58-ST4-20-45D	20	45	100	20
TPU58-ST4-25-40D	25	40	100	20

Концевая фреза  
с удлиненным хвостовиком



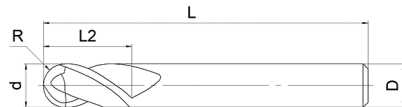
Артикул Tactic	d	L2	L	D
TPU58-SH2-1-3C	1	3	75	4
TPU58-SH2-2-6C	2	6	75	4
TPU58-SH2-3-10C	3	10	75	4
TPU58-SH2-4-16C	4	16	75	4
TPU58-SH2-5-20C	5	20	75	6
TPU58-SH2-6-20C	6	20	75	6
TPU58-SH2-8-20C	8	20	75	8
TPU58-SH2-4-16D	4	16	100	4
TPU58-SH2-5-20D	5	20	100	6
TPU58-SH2-6-20D	6	20	100	6
TPU58-SH2-8-20D	8	20	100	8
TPU58-SH2-10-30D	10	30	100	10
TPU58-SH2-12-30D	12	30	100	12
TPU58-SH2-10-50E	10	50	120	10
TPU58-SH2-12-50E	12	50	120	12
TPU58-SH2-8-50F	8	50	150	8
TPU58-SH2-10-50F	10	50	150	10
TPU58-SH2-12-50F	12	50	150	12
TPU58-SH2-16-65F	16	65	150	16
TPU58-SH2-18-65F	18	65	150	18
TPU58-SH2-20-75F	20	75	150	20
TPU58-SH2-10-60G	10	60	200	10
TPU58-SH2-12-80G	12	80	200	12
TPU58-SH2-16-80G	16	80	200	16
TPU58-SH2-20-100G	20	100	200	20

Концевая фреза  
с удлиненным хвостовиком



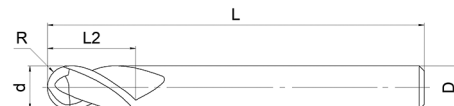
Артикул Tactic	d	L2	L	D
TPU58-SH4-1-3C	1	3	75	4
TPU58-SH4-2-6C	2	6	75	4
TPU58-SH4-3-10C	3	10	75	4
TPU58-SH4-4-16C	4	16	75	4
TPU58-SH4-5-20C	5	20	75	6
TPU58-SH4-6-20C	6	20	75	6
TPU58-SH4-7-20C	7	20	75	8
TPU58-SH4-8-20C	8	20	75	8
TPU58-SH4-3-10D	3	10	100	4
TPU58-SH4-4-16D	4	16	100	4
TPU58-SH4-5-20D	5	20	100	6
TPU58-SH4-6-20D	6	20	100	6
TPU58-SH4-7-20D	7	20	100	8
TPU58-SH4-8-20D	8	20	100	8
TPU58-SH4-9-30D	9	30	100	10
TPU58-SH4-10-30D	10	30	100	10
TPU58-SH4-11-30D	11	30	100	12
TPU58-SH4-12-30D	12	30	100	12
TPU58-SH4-10-50E	10	50	120	10
TPU58-SH4-12-50E	12	50	120	12
TPU58-SH4-8-50F	8	50	150	8
TPU58-SH4-10-50F	10	50	150	10
TPU58-SH4-12-50F	12	50	150	12
TPU58-SH4-16-65F	16	65	150	16
TPU58-SH4-18-65F	18	65	150	18
TPU58-SH4-20-75F	20	75	150	20
TPU58-SH4-10-60G	10	60	200	10
TPU58-SH4-12-80G	12	80	200	12
TPU58-SH4-16-80G	16	80	200	16
TPU58-SH4-20-100G	20	100	200	20

Концевая фреза  
сферическая



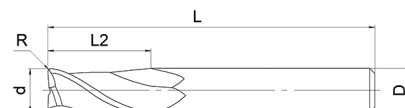
Артикул Tactic	R	L2	L	D
TPU58-BT2-1-2A	R0.50	2	50	4
TPU58-BT2-1.5-3A	R0.75	3	50	4
TPU58-BT2-2-4A	R1.00	4	50	4
TPU58-BT2-2.5-5A	R1.25	5	50	4
TPU58-BT2-3-6A	R1.50	6	50	4
TPU58-BT2-3.5-7A	R1.75	7	50	4
TPU58-BT2-4-8A	R2.00	8	50	4
TPU58-BT2-4.5-9A	R2.25	9	50	6
TPU58-BT2-5-10A	R2.50	10	50	6
TPU58-BT2-5.5-11A	R2.75	11	50	6
TPU58-BT2-6-12A	R3.00	12	50	6
TPU58-BT2-6.5-13B	R3.25	13	60	8
TPU58-BT2-7-14B	R3.50	14	60	8
TPU58-BT2-7.5-15B	R3.75	15	60	8
TPU58-BT2-8-16B	R4.00	16	60	8
TPU58-BT2-9-18C	R4.50	18	75	10
TPU58-BT2-10-20C	R5.00	20	75	10
TPU58-BT2-12-24C	R6.00	24	75	12
TPU58-BT2-16-32D	R8.00	32	100	16
TPU58-BT2-20-40D	R10.0	40	100	20
TPU58-BT2-25-50D	R12.5	50	100	25

Концевая фреза сферическая  
с удлиненным хвостовиком



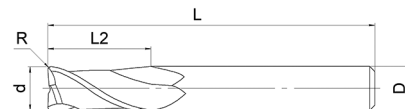
Артикул Tactic	R	L2	L	D
TPU58-BH2-1-2C	R0.50	2	75	4
TPU58-BH2-1.5-3C	R0.75	3	75	4
TPU58-BH2-2-4C	R1.00	4	75	4
TPU58-BH2-2.5-5C	R1.25	5	75	4
TPU58-BH2-3-6C	R1.50	6	75	4
TPU58-BH2-3.5-7C	R1.75	7	75	4
TPU58-BH2-4-8C	R2.00	8	75	4
TPU58-BH2-4.5-9C	R2.25	9	75	6
TPU58-BH2-5-10C	R2.50	10	75	6
TPU58-BH2-5.5-11C	R2.75	11	75	6
TPU58-BH2-6-12C	R3.00	12	75	6
TPU58-BH2-8-16C	R4.00	16	75	8
TPU58-BH2-1-2D	R0.50	2	100	4
TPU58-BH2-1.5-3D	R0.75	3	100	4
TPU58-BH2-2-4D	R1.00	4	100	4
TPU58-BH2-2.5-5D	R1.25	5	100	4
TPU58-BH2-3-6D	R1.50	6	100	4
TPU58-BH2-3.5-7D	R1.75	7	100	4
TPU58-BH2-4-8D	R2.00	8	100	4
TPU58-BH2-4.5-9D	R2.25	9	100	6
TPU58-BH2-5-10D	R2.50	10	100	6
TPU58-BH2-5.5-11D	R2.75	11	100	6
TPU58-BH2-6-12D	R3.00	12	100	6
TPU58-BH2-8-16D	R4.00	16	100	8
TPU58-BH2-10-20D	R5.00	20	100	10
TPU58-BH2-12-24D	R6.00	24	100	12
TPU58-BH2-10-20E	R5.00	20	120	10
TPU58-BH2-12-24E	R6.00	24	120	12
TPU58-BH2-6-12F	R3.00	12	150	6
TPU58-BH2-8-16F	R4.00	16	150	8
TPU58-BH2-10-20F	R5.00	20	150	10
TPU58-BH2-12-24F	R6.00	24	150	12
TPU58-BH2-16-32F	R8.00	32	150	16
TPU58-BH2-20-40F	R10.0	40	150	20
TPU58-BH2-8-16G	R4.00	16	200	8
TPU58-BH2-10-20G	R5.00	20	200	10
TPU58-BH2-12-24G	R6.00	24	200	12
TPU58-BH2-16-32G	R8.00	32	200	16
TPU58-BH2-20-40G	R10.0	40	200	20

## Концевая фреза



Артикул Tactic	d	R	L2	L	D
TPU58-RT2-1R0.1-3A	1	0.1	3	50	4
TPU58-RT2-1R0.2-3A	1	0.2	3	50	4
TPU58-RT2-1R0.3-3A	1	0.3	3	50	4
TPU58-RT2-1.5R0.1-4.5A	1.5	0.1	4.5	50	4
TPU58-RT2-1.5R0.2-4.5A	1.5	0.2	4.5	50	4
TPU58-RT2-1.5R0.3-4.5A	1.5	0.3	4.5	50	4
TPU58-RT2-1.5R0.5-4.5A	1.5	0.5	4.5	50	4
TPU58-RT2-2R0.1-6A	2	0.1	6	50	4
TPU58-RT2-2R0.2-6A	2	0.2	6	50	4
TPU58-RT2-2R0.3-6A	2	0.3	6	50	4
TPU58-RT2-2R0.5-6A	2	0.5	6	50	4
TPU58-RT2-2.5R0.1-7.5A	2.5	0.1	7.5	50	4
TPU58-RT2-2.5R0.2-7.5A	2.5	0.2	7.5	50	4
TPU58-RT2-2.5R0.3-7.5A	2.5	0.3	7.5	50	4
TPU58-RT2-2.5R0.5-7.5A	2.5	0.5	7.5	50	4
TPU58-RT2-3R0.1-8A	3	0.1	8	50	4
TPU58-RT2-3R0.2-8A	3	0.2	8	50	4
TPU58-RT2-3R0.3-8A	3	0.3	8	50	4
TPU58-RT2-3R0.5-8A	3	0.5	8	50	4
TPU58-RT2-3R1-8A	3	1	8	50	4
TPU58-RT2-4R0.1-11A	4	0.1	11	50	4
TPU58-RT2-4R0.2-11A	4	0.2	11	50	4
TPU58-RT2-4R0.3-11A	4	0.3	11	50	4
TPU58-RT2-4R0.5-11A	4	0.5	11	50	4
TPU58-RT2-4R1-11A	4	1	11	50	4
TPU58-RT2-5R0.2-13A	5	0.2	13	50	5
TPU58-RT2-5R0.5-13A	5	0.5	13	50	5
TPU58-RT2-5R1-13A	5	1	13	50	5
TPU58-RT2-6R0.1-15A	6	0.1	15	50	6
TPU58-RT2-6R0.2-15A	6	0.2	15	50	6
TPU58-RT2-6R0.3-15A	6	0.3	15	50	6
TPU58-RT2-6R0.5-15A	6	0.5	15	50	6
TPU58-RT2-6R1-15A	6	1	15	50	6
TPU58-RT2-6R1.5-15A	6	1.5	15	50	6
TPU58-RT2-6R2-15A	6	2	15	50	6
TPU58-RT2-8R0.2-20B	8	0.2	20	60	8
TPU58-RT2-8R0.3-20B	8	0.3	20	60	8
TPU58-RT2-8R0.5-20B	8	0.5	20	60	8
TPU58-RT2-8R1-20B	8	1	20	60	8
TPU58-RT2-8R1.5-20B	8	1.5	20	60	8
TPU58-RT2-8R2-20B	8	2	20	60	8
TPU58-RT2-8R2.5-20B	8	2.5	20	60	8
TPU58-RT2-8R3-20B	8	3	20	60	8
TPU58-RT2-10R0.2-25C	10	0.2	25	75	10
TPU58-RT2-10R0.3-25C	10	0.3	25	75	10
TPU58-RT2-10R0.5-25C	10	0.5	25	75	10
TPU58-RT2-10R1-25C	10	1	25	75	10
TPU58-RT2-10R1.5-25C	10	1.5	25	75	10
TPU58-RT2-10R2-25C	10	2	25	75	10
TPU58-RT2-10R2.5-25C	10	2.5	25	75	10
TPU58-RT2-10R3-25C	10	3	25	75	10
TPU58-RT2-10R4-25C	10	4	25	75	10
TPU58-RT2-12R0.2-30C	12	0.2	30	75	12
TPU58-RT2-12R0.3-30C	12	0.3	30	75	12

## Концевая фреза



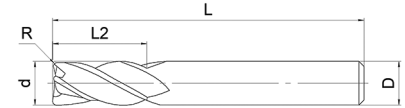
Артикул Tactic	d	R	L2	L	D
TPU58-RT2-12R0.5-30C	12	0.5	30	75	12
TPU58-RT2-12R1-30C	12	1	30	75	12
TPU58-RT2-12R1.5-30C	12	1.5	30	75	12
TPU58-RT2-12R2-30C	12	2	30	75	12
TPU58-RT2-12R2.5-30C	12	2.5	30	75	12
TPU58-RT2-12R3-30C	12	3	30	75	12
TPU58-RT2-12R4-30C	12	4	30	75	12
TPU58-RT2-12R5-30C	12	5	30	75	12
TPU58-RT2-14R0.5-35D	14	0.5	35	100	14
TPU58-RT2-14R1-35D	14	1	35	100	14
TPU58-RT2-14R1.5-35D	14	1.5	35	100	14
TPU58-RT2-14R2-35D	14	2	35	100	14
TPU58-RT2-14R2.5-35D	14	2.5	35	100	14
TPU58-RT2-14R3-35D	14	3	35	100	14
TPU58-RT2-14R4-35D	14	4	35	100	14
TPU58-RT2-14R5-35D	14	5	35	100	14
TPU58-RT2-16R0.5-40D	16	0.5	40	100	16
TPU58-RT2-16R1-40D	16	1	40	100	16
TPU58-RT2-16R1.5-40D	16	1.5	40	100	16
TPU58-RT2-16R2-40D	16	2	40	100	16
TPU58-RT2-16R2.5-40D	16	2.5	40	100	16
TPU58-RT2-16R3-40D	16	3	40	100	16
TPU58-RT2-16R4-40D	16	4	40	100	16
TPU58-RT2-16R5-40D	16	5	40	100	16
TPU58-RT2-20R0.5-45D	20	0.5	45	100	20
TPU58-RT2-20R1-45D	20	1	45	100	20
TPU58-RT2-20R1.5-45D	20	1.5	45	100	20
TPU58-RT2-20R2-45D	20	2	45	100	20
TPU58-RT2-20R2.5-45D	20	2.5	45	100	20
TPU58-RT2-20R3-45D	20	3	45	100	20
TPU58-RT2-20R4-45D	20	4	45	100	20
TPU58-RT2-20R5-45D	20	5	45	100	20

## Концевая фреза



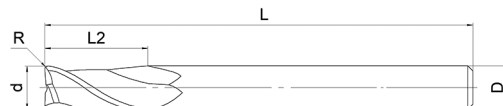
Артикул Tactic	d	R	L2	L	D
TPU58-RT4-1R0.1-3A	1	0.1	3	50	4
TPU58-RT4-1R0.2-3A	1	0.2	3	50	4
TPU58-RT4-1R0.3-3A	1	0.3	3	50	4
TPU58-RT4-1.5R0.1-4.5A	1.5	0.1	4.5	50	4
TPU58-RT4-1.5R0.2-4.5A	1.5	0.2	4.5	50	4
TPU58-RT4-1.5R0.3-4.5A	1.5	0.3	4.5	50	4
TPU58-RT4-1.5R0.5-4.5A	1.5	0.5	4.5	50	4
TPU58-RT4-2R0.1-6A	2	0.1	6	50	4
TPU58-RT4-2R0.2-6A	2	0.2	6	50	4
TPU58-RT4-2R0.3-6A	2	0.3	6	50	4
TPU58-RT4-2R0.5-6A	2	0.5	6	50	4
TPU58-RT4-2.5R0.1-7.5A	2.5	0.1	7.5	50	4
TPU58-RT4-2.5R0.2-7.5A	2.5	0.2	7.5	50	4
TPU58-RT4-2.5R0.3-7.5A	2.5	0.3	7.5	50	4
TPU58-RT4-2.5R0.5-7.5A	2.5	0.5	7.5	50	4
TPU58-RT4-3R0.1-8A	3	0.1	8	50	4
TPU58-RT4-3R0.2-8A	3	0.2	8	50	4
TPU58-RT4-3R0.3-8A	3	0.3	8	50	4
TPU58-RT4-3R0.5-8A	3	0.5	8	50	4
TPU58-RT4-3R1-8A	3	1	8	50	4
TPU58-RT4-4R0.1-11A	4	0.1	11	50	4
TPU58-RT4-4R0.2-11A	4	0.2	11	50	4
TPU58-RT4-4R0.3-11A	4	0.3	11	50	4
TPU58-RT4-4R0.5-11A	4	0.5	11	50	4
TPU58-RT4-4R1-11A	4	1	11	50	4
TPU58-RT4-5R0.2-13A	5	0.2	13	50	5
TPU58-RT4-5R0.5-13A	5	0.5	13	50	5
TPU58-RT4-5R1-13A	5	1	13	50	5
TPU58-RT4-6R0.1-15A	6	0.1	15	50	6
TPU58-RT4-6R0.2-15A	6	0.2	15	50	6
TPU58-RT4-6R0.3-15A	6	0.3	15	50	6
TPU58-RT4-6R0.5-15A	6	0.5	15	50	6
TPU58-RT4-6R1-15A	6	1	15	50	6
TPU58-RT4-6R1.5-15A	6	1.5	15	50	6
TPU58-RT4-6R2-15A	6	2	15	50	6
TPU58-RT4-8R0.2-20B	8	0.2	20	60	8
TPU58-RT4-8R0.3-20B	8	0.3	20	60	8
TPU58-RT4-8R0.5-20B	8	0.5	20	60	8
TPU58-RT4-8R1-20B	8	1	20	60	8
TPU58-RT4-8R1.5-20B	8	1.5	20	60	8
TPU58-RT4-8R2-20B	8	2	20	60	8
TPU58-RT4-8R2.5-20B	8	2.5	20	60	8
TPU58-RT4-8R3-20B	8	3	20	60	8
TPU58-RT4-10R0.2-25C	10	0.2	25	75	10
TPU58-RT4-10R0.3-25C	10	0.3	25	75	10
TPU58-RT4-10R0.5-25C	10	0.5	25	75	10
TPU58-RT4-10R1-25C	10	1	25	75	10
TPU58-RT4-10R1.5-25C	10	1.5	25	75	10
TPU58-RT4-10R2-25C	10	2	25	75	10
TPU58-RT4-10R2.5-25C	10	2.5	25	75	10
TPU58-RT4-10R3-25C	10	3	25	75	10
TPU58-RT4-10R4-25C	10	4	25	75	10
TPU58-RT4-12R0.2-30C	12	0.2	30	75	12
TPU58-RT4-12R0.3-30C	12	0.3	30	75	12

## Концевая фреза



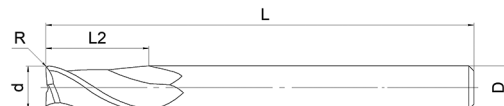
Артикул Tactic	d	R	L2	L	D
TPU58-RT4-12R0.5-30C	12	0.5	30	75	12
TPU58-RT4-12R1-30C	12	1	30	75	12
TPU58-RT4-12R1.5-30C	12	1.5	30	75	12
TPU58-RT4-12R2-30C	12	2	30	75	12
TPU58-RT4-12R2.5-30C	12	2.5	30	75	12
TPU58-RT4-12R3-30C	12	3	30	75	12
TPU58-RT4-12R4-30C	12	4	30	75	12
TPU58-RT4-12R5-30C	12	5	30	75	12
TPU58-RT4-14R0.5-35D	14	0.5	35	100	14
TPU58-RT4-14R1-35D	14	1	35	100	14
TPU58-RT4-14R1.5-35D	14	1.5	35	100	14
TPU58-RT4-14R2-35D	14	2	35	100	14
TPU58-RT4-14R2.5-35D	14	2.5	35	100	14
TPU58-RT4-14R3-35D	14	3	35	100	14
TPU58-RT4-14R4-35D	14	4	35	100	14
TPU58-RT4-14R5-35D	14	5	35	100	14
TPU58-RT4-16R0.5-40D	16	0.5	40	100	16
TPU58-RT4-16R1-40D	16	1	40	100	16
TPU58-RT4-16R1.5-40D	16	1.5	40	100	16
TPU58-RT4-16R2-40D	16	2	40	100	16
TPU58-RT4-16R2.5-40D	16	2.5	40	100	16
TPU58-RT4-16R3-40D	16	3	40	100	16
TPU58-RT4-16R4-40D	16	4	40	100	16
TPU58-RT4-16R5-40D	16	5	40	100	16
TPU58-RT4-20R0.5-45D	20	0.5	45	100	20
TPU58-RT4-20R1-45D	20	1	45	100	20
TPU58-RT4-20R1.5-45D	20	1.5	45	100	20
TPU58-RT4-20R2-45D	20	2	45	100	20
TPU58-RT4-20R2.5-45D	20	2.5	45	100	20
TPU58-RT4-20R3-45D	20	3	45	100	20
TPU58-RT4-20R4-45D	20	4	45	100	20
TPU58-RT4-20R5-45D	20	5	45	100	20

## Концевая фреза с удлиненным хвостовиком



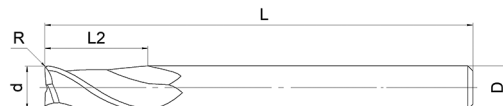
Артикул Tactic	d	R	L2	L	D
TPU58-RH2-1R0.1-3C	1	0.1	3	75	4
TPU58-RH2-1R0.2-3C	1	0.2	3	75	4
TPU58-RH2-1R0.3-3C	1	0.3	3	75	4
TPU58-RH2-1.5R0.1-4.5C	1.5	0.1	4.5	75	4
TPU58-RH2-1.5R0.2-4.5C	1.5	0.2	4.5	75	4
TPU58-RH2-1.5R0.3-4.5C	1.5	0.3	4.5	75	4
TPU58-RH2-1.5R0.5-4.5C	1.5	0.5	4.5	75	4
TPU58-RH2-2R0.1-6C	2	0.1	6	75	4
TPU58-RH2-2R0.2-6C	2	0.2	6	75	4
TPU58-RH2-2R0.3-6C	2	0.3	6	75	4
TPU58-RH2-2R0.5-6C	2	0.5	6	75	4
TPU58-RH2-2.5R0.1-7.5C	2.5	0.1	7.5	75	4
TPU58-RH2-2.5R0.2-7.5C	2.5	0.2	7.5	75	4
TPU58-RH2-2.5R0.3-7.5C	2.5	0.3	7.5	75	4
TPU58-RH2-2.5R0.5-7.5C	2.5	0.5	7.5	75	4
TPU58-RH2-3R0.1-8C	3	0.1	8	75	4
TPU58-RH2-3R0.2-8C	3	0.2	8	75	4
TPU58-RH2-3R0.3-8C	3	0.3	8	75	4
TPU58-RH2-3R0.5-8C	3	0.5	8	75	4
TPU58-RH2-3R1-8C	3	1	8	75	4
TPU58-RH2-4R0.1-11C	4	0.1	11	75	4
TPU58-RH2-4R0.2-11C	4	0.2	11	75	4
TPU58-RH2-4R0.3-11C	4	0.3	11	75	4
TPU58-RH2-4R0.5-11C	4	0.5	11	75	4
TPU58-RH2-4R1-11C	4	1	11	75	4
TPU58-RH2-5R0.2-15C	5	0.2	15	75	5
TPU58-RH2-5R0.5-15C	5	0.5	15	75	5
TPU58-RH2-5R1-15C	5	1	15	75	5
TPU58-RH2-6R0.1-15C	6	0.1	15	75	6
TPU58-RH2-6R0.2-15C	6	0.2	15	75	6
TPU58-RH2-6R0.3-15C	6	0.3	15	75	6
TPU58-RH2-6R0.5-15C	6	0.5	15	75	6
TPU58-RH2-6R1-15C	6	1	15	75	6
TPU58-RH2-6R1.5-15C	6	1.5	15	75	6
TPU58-RH2-6R2-15C	6	2	15	75	6
TPU58-RH2-8R0.2-20C	8	0.2	20	75	8
TPU58-RH2-8R0.3-20C	8	0.3	20	75	8
TPU58-RH2-8R0.5-20C	8	0.5	20	75	8
TPU58-RH2-8R1-20C	8	1	20	75	8
TPU58-RH2-8R1.5-20C	8	1.5	20	75	8
TPU58-RH2-8R2-20C	8	2	20	75	8
TPU58-RH2-8R2.5-20C	8	2.5	20	75	8
TPU58-RH2-8R3-20C	8	3	20	75	8
TPU58-RH2-1R0.1-3D	1	0.1	3	100	4
TPU58-RH2-1R0.2-3D	1	0.2	3	100	4
TPU58-RH2-1R0.3-3D	1	0.3	3	100	4
TPU58-RH2-1.5R0.1-4.5D	1.5	0.1	4.5	100	4
TPU58-RH2-1.5R0.2-4.5D	1.5	0.2	4.5	100	4
TPU58-RH2-1.5R0.3-4.5D	1.5	0.3	4.5	100	4
TPU58-RH2-1.5R0.5-4.5D	1.5	0.5	4.5	100	4
TPU58-RH2-2R0.1-6D	2	0.1	6	100	4
TPU58-RH2-2R0.2-6D	2	0.2	6	100	4
TPU58-RH2-2R0.3-6D	2	0.3	6	100	4
TPU58-RH2-2R0.5-6D	2	0.5	6	100	4

Концевая фреза  
с удлиненным хвостовиком



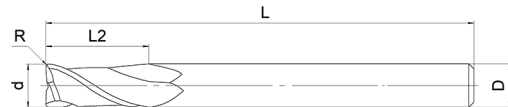
Артикул Tactic	d	R	L2	L	D
TPU58-RH2-2.5R0.1-7.5D	2.5	0.1	7.5	100	4
TPU58-RH2-2.5R0.2-7.5D	2.5	0.2	7.5	100	4
TPU58-RH2-2.5R0.3-7.5D	2.5	0.3	7.5	100	4
TPU58-RH2-2.5R0.5-7.5D	2.5	0.5	7.5	100	4
TPU58-RH2-3R0.1-8D	3	0.1	8	100	4
TPU58-RH2-3R0.2-8D	3	0.2	8	100	4
TPU58-RH2-3R0.3-8D	3	0.3	8	100	4
TPU58-RH2-3R0.5-8D	3	0.5	8	100	4
TPU58-RH2-3R1-8D	3	1	8	100	4
TPU58-RH2-4R0.1-11D	4	0.1	11	100	4
TPU58-RH2-4R0.2-11D	4	0.2	11	100	4
TPU58-RH2-4R0.3-11D	4	0.3	11	100	4
TPU58-RH2-4R0.5-11D	4	0.5	11	100	4
TPU58-RH2-4R1-11D	4	1	11	100	4
TPU58-RH2-5R0.2-15D	5	0.2	15	100	5
TPU58-RH2-5R0.5-15D	5	0.5	15	100	5
TPU58-RH2-5R1-15D	5	1	15	100	5
TPU58-RH2-6R0.1-20D	6	0.1	20	100	6
TPU58-RH2-6R0.2-20D	6	0.2	20	100	6
TPU58-RH2-6R0.3-20D	6	0.3	20	100	6
TPU58-RH2-6R0.5-20D	6	0.5	20	100	6
TPU58-RH2-6R1-20D	6	1	20	100	6
TPU58-RH2-6R1.5-20D	6	1.5	20	100	6
TPU58-RH2-6R2-20D	6	2	20	100	6
TPU58-RH2-8R0.2-20D	8	0.2	20	100	8
TPU58-RH2-8R0.3-20D	8	0.3	20	100	8
TPU58-RH2-8R0.5-20D	8	0.5	20	100	8
TPU58-RH2-8R1-20D	8	1	20	100	8
TPU58-RH2-8R1.5-20D	8	1.5	20	100	8
TPU58-RH2-8R2-20D	8	2	20	100	8
TPU58-RH2-8R2.5-20D	8	2.5	20	100	8
TPU58-RH2-8R3-20D	8	3	20	100	8
TPU58-RH2-10R0.2-30D	10	0.2	30	100	10
TPU58-RH2-10R0.3-30D	10	0.3	30	100	10
TPU58-RH2-10R0.5-30D	10	0.5	30	100	10
TPU58-RH2-10R1-30D	10	1	30	100	10
TPU58-RH2-10R1.5-30D	10	1.5	30	100	10
TPU58-RH2-10R2-30D	10	2	30	100	10
TPU58-RH2-10R2.5-30D	10	2.5	30	100	10
TPU58-RH2-10R3-30D	10	3	30	100	10
TPU58-RH2-10R4-30D	10	4	30	100	10
TPU58-RH2-12R0.2-30D	12	0.2	30	100	12
TPU58-RH2-12R0.3-30D	12	0.3	30	100	12
TPU58-RH2-12R0.5-30D	12	0.5	30	100	12
TPU58-RH2-12R1-30D	12	1	30	100	12
TPU58-RH2-12R1.5-30D	12	1.5	30	100	12
TPU58-RH2-12R2-30D	12	2	30	100	12
TPU58-RH2-12R2.5-30D	12	2.5	30	100	12
TPU58-RH2-12R3-30D	12	3	30	100	12
TPU58-RH2-12R4-30D	12	4	30	100	12
TPU58-RH2-12R5-30D	12	5	30	100	12
TPU58-RH2-8R0.2-30E	8	0.2	30	120	8
TPU58-RH2-8R0.3-30E	8	0.3	30	120	8
TPU58-RH2-8R0.5-30E	8	0.5	30	120	8

## Концевая фреза с удлиненным хвостовиком



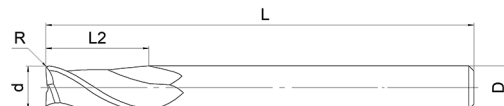
Артикул Tactic	d	R	L2	L	D
TPU58-RH2-8R1-30E	8	1	30	120	8
TPU58-RH2-8R1.5-30E	8	1.5	30	120	8
TPU58-RH2-8R2-30E	8	2	30	120	8
TPU58-RH2-8R2.5-30E	8	2.5	30	120	8
TPU58-RH2-8R3-30E	8	3	30	120	8
TPU58-RH2-10R0.2-30E	10	0.2	30	120	10
TPU58-RH2-10R0.3-30E	10	0.3	30	120	10
TPU58-RH2-10R0.5-30E	10	0.5	30	120	10
TPU58-RH2-10R1-30E	10	1	30	120	10
TPU58-RH2-10R1.5-30E	10	1.5	30	120	10
TPU58-RH2-10R2-30E	10	2	30	120	10
TPU58-RH2-10R2.5-30E	10	2.5	30	120	10
TPU58-RH2-10R3-30E	10	3	30	120	10
TPU58-RH2-10R4-30E	10	4	30	120	10
TPU58-RH2-12R0.2-30E	12	0.2	30	120	12
TPU58-RH2-12R0.3-30E	12	0.3	30	120	12
TPU58-RH2-12R0.5-30E	12	0.5	30	120	12
TPU58-RH2-12R1-30E	12	1	30	120	12
TPU58-RH2-12R1.5-30E	12	1.5	30	120	12
TPU58-RH2-12R2-30E	12	2	30	120	12
TPU58-RH2-12R2.5-30E	12	2.5	30	120	12
TPU58-RH2-12R3-30E	12	3	30	120	12
TPU58-RH2-12R4-30E	12	4	30	120	12
TPU58-RH2-12R5-30E	12	5	30	120	12
TPU58-RH2-6R0.1-30F	6	0.1	30	150	6
TPU58-RH2-6R0.2-30F	6	0.2	30	150	6
TPU58-RH2-6R0.3-30F	6	0.3	30	150	6
TPU58-RH2-6R0.5-30F	6	0.5	30	150	6
TPU58-RH2-6R1-30F	6	1	30	150	6
TPU58-RH2-6R1.5-30F	6	1.5	30	150	6
TPU58-RH2-6R2-30F	6	2	30	150	6
TPU58-RH2-8R0.2-30F	8	0.2	30	150	8
TPU58-RH2-8R0.3-30F	8	0.3	30	150	8
TPU58-RH2-8R0.5-30F	8	0.5	30	150	8
TPU58-RH2-8R1-30F	8	1	30	150	8
TPU58-RH2-8R1.5-30F	8	1.5	30	150	8
TPU58-RH2-8R2-30F	8	2	30	150	8
TPU58-RH2-8R2.5-30F	8	2.5	30	150	8
TPU58-RH2-8R3-30F	8	3	30	150	8
TPU58-RH2-10R0.2-35F	10	0.2	35	150	10
TPU58-RH2-10R0.3-35F	10	0.3	35	150	10
TPU58-RH2-10R0.5-35F	10	0.5	35	150	10
TPU58-RH2-10R1-35F	10	1	35	150	10
TPU58-RH2-10R1.5-35F	10	1.5	35	150	10
TPU58-RH2-10R2-35F	10	2	35	150	10
TPU58-RH2-10R2.5-35F	10	2.5	35	150	10
TPU58-RH2-10R3-35F	10	3	35	150	10
TPU58-RH2-10R4-35F	10	4	35	150	10
TPU58-RH2-12R0.2-35F	12	0.2	35	150	12
TPU58-RH2-12R0.3-35F	12	0.3	35	150	12
TPU58-RH2-12R0.5-35F	12	0.5	35	150	12
TPU58-RH2-12R1-35F	12	1	35	150	12
TPU58-RH2-12R1.5-35F	12	1.5	35	150	12
TPU58-RH2-12R2-35F	12	2	35	150	12

## Концевая фреза с удлиненным хвостовиком



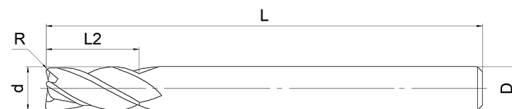
Артикул Tactic	d	R	L2	L	D
TPU58-RH2-12R2.5-35F	12	2.5	35	150	12
TPU58-RH2-12R3-35F	12	3	35	150	12
TPU58-RH2-12R4-35F	12	4	35	150	12
TPU58-RH2-12R5-35F	12	5	35	150	12
TPU58-RH2-14R0.5-40F	14	0.5	40	150	14
TPU58-RH2-14R1-40F	14	1	40	150	14
TPU58-RH2-14R1.5-40F	14	1.5	40	150	14
TPU58-RH2-14R2-40F	14	2	40	150	14
TPU58-RH2-14R2.5-40F	14	2.5	40	150	14
TPU58-RH2-14R3-40F	14	3	40	150	14
TPU58-RH2-14R4-40F	14	4	40	150	14
TPU58-RH2-14R5-40F	14	5	40	150	14
TPU58-RH2-16R0.5-50F	16	0.5	50	150	16
TPU58-RH2-16R1-50F	16	1	50	150	16
TPU58-RH2-16R1.5-50F	16	1.5	50	150	16
TPU58-RH2-16R2-50F	16	2	50	150	16
TPU58-RH2-16R2.5-50F	16	2.5	50	150	16
TPU58-RH2-16R3-50F	16	3	50	150	16
TPU58-RH2-16R4-50F	16	4	50	150	16
TPU58-RH2-16R5-50F	16	5	50	150	16
TPU58-RH2-20R0.5-50F	20	0.5	50	150	20
TPU58-RH2-20R1-50F	20	1	50	150	20
TPU58-RH2-20R1.5-50F	20	1.5	50	150	20
TPU58-RH2-20R2-50F	20	2	50	150	20
TPU58-RH2-20R2.5-50F	20	2.5	50	150	20
TPU58-RH2-20R3-50F	20	3	50	150	20
TPU58-RH2-20R4-50F	20	4	50	150	20
TPU58-RH2-20R5-50F	20	5	50	150	20
TPU58-RH2-6R0.1-30G	6	0.1	30	200	6
TPU58-RH2-6R0.2-30G	6	0.2	30	200	6
TPU58-RH2-6R0.3-30G	6	0.3	30	200	6
TPU58-RH2-6R0.5-30G	6	0.5	30	200	6
TPU58-RH2-6R1-30G	6	1	30	200	6
TPU58-RH2-6R1.5-30G	6	1.5	30	200	6
TPU58-RH2-6R2-30G	6	2	30	200	6
TPU58-RH2-8R0.2-40G	8	0.2	40	200	8
TPU58-RH2-8R0.3-40G	8	0.3	40	200	8
TPU58-RH2-8R0.5-40G	8	0.5	40	200	8
TPU58-RH2-8R1-40G	8	1	40	200	8
TPU58-RH2-8R1.5-40G	8	1.5	40	200	8
TPU58-RH2-8R2-40G	8	2	40	200	8
TPU58-RH2-8R2.5-40G	8	2.5	40	200	8
TPU58-RH2-8R3-40G	8	3	40	200	8
TPU58-RH2-10R0.2-40G	10	0.2	40	200	10
TPU58-RH2-10R0.3-40G	10	0.3	40	200	10
TPU58-RH2-10R0.5-40G	10	0.5	40	200	10
TPU58-RH2-10R1-40G	10	1	40	200	10
TPU58-RH2-10R1.5-40G	10	1.5	40	200	10
TPU58-RH2-10R2-40G	10	2	40	200	10
TPU58-RH2-10R2.5-40G	10	2.5	40	200	10
TPU58-RH2-10R3-40G	10	3	40	200	10
TPU58-RH2-10R4-40G	10	4	40	200	10
TPU58-RH2-12R0.2-40G	12	0.2	40	200	12
TPU58-RH2-12R0.3-40G	12	0.3	40	200	12

Концевая фреза  
с удлиненным хвостовиком



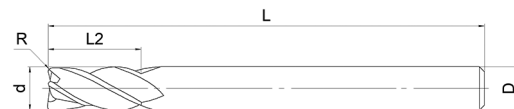
Артикул Tactic	d	R	L2	L	D
TPU58-RH2-12R0.5-40G	12	0.5	40	200	12
TPU58-RH2-12R1-40G	12	1	40	200	12
TPU58-RH2-12R1.5-40G	12	1.5	40	200	12
TPU58-RH2-12R2-40G	12	2	40	200	12
TPU58-RH2-12R2.5-40G	12	2.5	40	200	12
TPU58-RH2-12R3-40G	12	3	40	200	12
TPU58-RH2-12R4-40G	12	4	40	200	12
TPU58-RH2-12R5-40G	12	5	40	200	12
TPU58-RH2-14R0.5-50G	14	0.5	50	200	14
TPU58-RH2-14R1-50G	14	1	50	200	14
TPU58-RH2-14R1.5-50G	14	1.5	50	200	14
TPU58-RH2-14R2-50G	14	2	50	200	14
TPU58-RH2-14R2.5-50G	14	2.5	50	200	14
TPU58-RH2-14R3-50G	14	3	50	200	14
TPU58-RH2-14R4-50G	14	4	50	200	14
TPU58-RH2-14R5-50G	14	5	50	200	14
TPU58-RH2-16R0.5-50G	16	0.5	50	200	16
TPU58-RH2-16R1-50G	16	1	50	200	16
TPU58-RH2-16R1.5-50G	16	1.5	50	200	16
TPU58-RH2-16R2-50G	16	2	50	200	16
TPU58-RH2-16R2.5-50G	16	2.5	50	200	16
TPU58-RH2-16R3-50G	16	3	50	200	16
TPU58-RH2-16R4-50G	16	4	50	200	16
TPU58-RH2-16R5-50G	16	5	50	200	16
TPU58-RH2-20R0.5-50G	20	0.5	50	200	20
TPU58-RH2-20R1-50G	20	1	50	200	20
TPU58-RH2-20R1.5-50G	20	1.5	50	200	20
TPU58-RH2-20R2-50G	20	2	50	200	20
TPU58-RH2-20R2.5-50G	20	2.5	50	200	20
TPU58-RH2-20R3-50G	20	3	50	200	20
TPU58-RH2-20R4-50G	20	4	50	200	20
TPU58-RH2-20R5-50G	20	5	50	200	20

## Концевая фреза с удлиненным хвостовиком



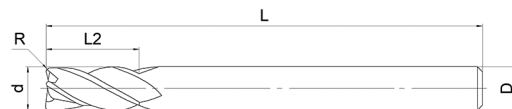
Артикул Tactic	d	R	L2	L	D
TPU58-RH4-1R0.1-3C	1	0.1	3	75	4
TPU58-RH4-1R0.2-3C	1	0.2	3	75	4
TPU58-RH4-1R0.3-3C	1	0.3	3	75	4
TPU58-RH4-1.5R0.1-4.5C	1.5	0.1	4.5	75	4
TPU58-RH4-1.5R0.2-4.5C	1.5	0.2	4.5	75	4
TPU58-RH4-1.5R0.3-4.5C	1.5	0.3	4.5	75	4
TPU58-RH4-1.5R0.5-4.5C	1.5	0.5	4.5	75	4
TPU58-RH4-2R0.1-6C	2	0.1	6	75	4
TPU58-RH4-2R0.2-6C	2	0.2	6	75	4
TPU58-RH4-2R0.3-6C	2	0.3	6	75	4
TPU58-RH4-2R0.5-6C	2	0.5	6	75	4
TPU58-RH4-2.5R0.1-7.5C	2.5	0.1	7.5	75	4
TPU58-RH4-2.5R0.2-7.5C	2.5	0.2	7.5	75	4
TPU58-RH4-2.5R0.3-7.5C	2.5	0.3	7.5	75	4
TPU58-RH4-2.5R0.5-7.5C	2.5	0.5	7.5	75	4
TPU58-RH4-3R0.1-8C	3	0.1	8	75	4
TPU58-RH4-3R0.2-8C	3	0.2	8	75	4
TPU58-RH4-3R0.3-8C	3	0.3	8	75	4
TPU58-RH4-3R0.5-8C	3	0.5	8	75	4
TPU58-RH4-3R1-8C	3	1	8	75	4
TPU58-RH4-4R0.1-11C	4	0.1	11	75	4
TPU58-RH4-4R0.2-11C	4	0.2	11	75	4
TPU58-RH4-4R0.3-11C	4	0.3	11	75	4
TPU58-RH4-4R0.5-11C	4	0.5	11	75	4
TPU58-RH4-4R1-11C	4	1	11	75	4
TPU58-RH4-5R0.2-15C	5	0.2	15	75	5
TPU58-RH4-5R0.5-15C	5	0.5	15	75	5
TPU58-RH4-5R1-15C	5	1	15	75	5
TPU58-RH4-6R0.1-15C	6	0.1	15	75	6
TPU58-RH4-6R0.2-15C	6	0.2	15	75	6
TPU58-RH4-6R0.3-15C	6	0.3	15	75	6
TPU58-RH4-6R0.5-15C	6	0.5	15	75	6
TPU58-RH4-6R1-15C	6	1	15	75	6
TPU58-RH4-6R1.5-15C	6	1.5	15	75	6
TPU58-RH4-6R2-15C	6	2	15	75	6
TPU58-RH4-8R0.2-20C	8	0.2	20	75	8
TPU58-RH4-8R0.3-20C	8	0.3	20	75	8
TPU58-RH4-8R0.5-20C	8	0.5	20	75	8
TPU58-RH4-8R1-20C	8	1	20	75	8
TPU58-RH4-8R1.5-20C	8	1.5	20	75	8
TPU58-RH4-8R2-20C	8	2	20	75	8
TPU58-RH4-8R2.5-20C	8	2.5	20	75	8
TPU58-RH4-8R3-20C	8	3	20	75	8
TPU58-RH4-1R0.1-3D	1	0.1	3	100	4
TPU58-RH4-1R0.2-3D	1	0.2	3	100	4
TPU58-RH4-1R0.3-3D	1	0.3	3	100	4
TPU58-RH4-1.5R0.1-4.5D	1.5	0.1	4.5	100	4
TPU58-RH4-1.5R0.2-4.5D	1.5	0.2	4.5	100	4
TPU58-RH4-1.5R0.3-4.5D	1.5	0.3	4.5	100	4
TPU58-RH4-1.5R0.5-4.5D	1.5	0.5	4.5	100	4
TPU58-RH4-2R0.1-6D	2	0.1	6	100	4
TPU58-RH4-2R0.2-6D	2	0.2	6	100	4
TPU58-RH4-2R0.3-6D	2	0.3	6	100	4
TPU58-RH4-2R0.5-6D	2	0.5	6	100	4

Концевая фреза  
с удлиненным хвостовиком



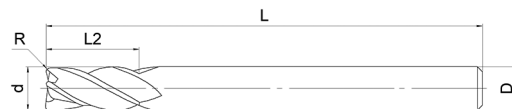
Артикул Tactic	d	R	L2	L	D
TPU58-RH4-2.5R0.1-7.5D	2.5	0.1	7.5	100	4
TPU58-RH4-2.5R0.2-7.5D	2.5	0.2	7.5	100	4
TPU58-RH4-2.5R0.3-7.5D	2.5	0.3	7.5	100	4
TPU58-RH4-2.5R0.5-7.5D	2.5	0.5	7.5	100	4
TPU58-RH4-3R0.1-8D	3	0.1	8	100	4
TPU58-RH4-3R0.2-8D	3	0.2	8	100	4
TPU58-RH4-3R0.3-8D	3	0.3	8	100	4
TPU58-RH4-3R0.5-8D	3	0.5	8	100	4
TPU58-RH4-3R1-8D	3	1	8	100	4
TPU58-RH4-4R0.1-11D	4	0.1	11	100	4
TPU58-RH4-4R0.2-11D	4	0.2	11	100	4
TPU58-RH4-4R0.3-11D	4	0.3	11	100	4
TPU58-RH4-4R0.5-11D	4	0.5	11	100	4
TPU58-RH4-4R1-11D	4	1	11	100	4
TPU58-RH4-5R0.2-15D	5	0.2	15	100	5
TPU58-RH4-5R0.5-15D	5	0.5	15	100	5
TPU58-RH4-5R1-15D	5	1	15	100	5
TPU58-RH4-6R0.1-20D	6	0.1	20	100	6
TPU58-RH4-6R0.2-20D	6	0.2	20	100	6
TPU58-RH4-6R0.3-20D	6	0.3	20	100	6
TPU58-RH4-6R0.5-20D	6	0.5	20	100	6
TPU58-RH4-6R1-20D	6	1	20	100	6
TPU58-RH4-6R1.5-20D	6	1.5	20	100	6
TPU58-RH4-6R2-20D	6	2	20	100	6
TPU58-RH4-8R0.2-20D	8	0.2	20	100	8
TPU58-RH4-8R0.3-20D	8	0.3	20	100	8
TPU58-RH4-8R0.5-20D	8	0.5	20	100	8
TPU58-RH4-8R1-20D	8	1	20	100	8
TPU58-RH4-8R1.5-20D	8	1.5	20	100	8
TPU58-RH4-8R2-20D	8	2	20	100	8
TPU58-RH4-8R2.5-20D	8	2.5	20	100	8
TPU58-RH4-8R3-20D	8	3	20	100	8
TPU58-RH4-10R0.2-30D	10	0.2	30	100	10
TPU58-RH4-10R0.3-30D	10	0.3	30	100	10
TPU58-RH4-10R0.5-30D	10	0.5	30	100	10
TPU58-RH4-10R1-30D	10	1	30	100	10
TPU58-RH4-10R1.5-30D	10	1.5	30	100	10
TPU58-RH4-10R2-30D	10	2	30	100	10
TPU58-RH4-10R2.5-30D	10	2.5	30	100	10
TPU58-RH4-10R3-30D	10	3	30	100	10
TPU58-RH4-10R4-30D	10	4	30	100	10
TPU58-RH4-12R0.2-30D	12	0.2	30	100	12
TPU58-RH4-12R0.3-30D	12	0.3	30	100	12
TPU58-RH4-12R0.5-30D	12	0.5	30	100	12
TPU58-RH4-12R1-30D	12	1	30	100	12
TPU58-RH4-12R1.5-30D	12	1.5	30	100	12
TPU58-RH4-12R2-30D	12	2	30	100	12
TPU58-RH4-12R2.5-30D	12	2.5	30	100	12
TPU58-RH4-12R3-30D	12	3	30	100	12
TPU58-RH4-12R4-30D	12	4	30	100	12
TPU58-RH4-12R5-30D	12	5	30	100	12
TPU58-RH4-8R0.2-30E	8	0.2	30	120	8
TPU58-RH4-8R0.3-30E	8	0.3	30	120	8
TPU58-RH4-8R0.5-30E	8	0.5	30	120	8

## Концевая фреза с удлиненным хвостовиком



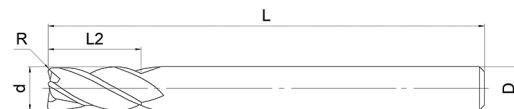
Артикул Tactic	d	R	L2	L	D
TPU58-RH4-8R1-30E	8	1	30	120	8
TPU58-RH4-8R1.5-30E	8	1.5	30	120	8
TPU58-RH4-8R2-30E	8	2	30	120	8
TPU58-RH4-8R2.5-30E	8	2.5	30	120	8
TPU58-RH4-8R3-30E	8	3	30	120	8
TPU58-RH4-10R0.2-30E	10	0.2	30	120	10
TPU58-RH4-10R0.3-30E	10	0.3	30	120	10
TPU58-RH4-10R0.5-30E	10	0.5	30	120	10
TPU58-RH4-10R1-30E	10	1	30	120	10
TPU58-RH4-10R1.5-30E	10	1.5	30	120	10
TPU58-RH4-10R2-30E	10	2	30	120	10
TPU58-RH4-10R2.5-30E	10	2.5	30	120	10
TPU58-RH4-10R3-30E	10	3	30	120	10
TPU58-RH4-10R4-30E	10	4	30	120	10
TPU58-RH4-12R0.2-30E	12	0.2	30	120	12
TPU58-RH4-12R0.3-30E	12	0.3	30	120	12
TPU58-RH4-12R0.5-30E	12	0.5	30	120	12
TPU58-RH4-12R1-30E	12	1	30	120	12
TPU58-RH4-12R1.5-30E	12	1.5	30	120	12
TPU58-RH4-12R2-30E	12	2	30	120	12
TPU58-RH4-12R2.5-30E	12	2.5	30	120	12
TPU58-RH4-12R3-30E	12	3	30	120	12
TPU58-RH4-12R4-30E	12	4	30	120	12
TPU58-RH4-12R5-30E	12	5	30	120	12
TPU58-RH4-6R0.1-30F	6	0.1	30	150	6
TPU58-RH4-6R0.2-30F	6	0.2	30	150	6
TPU58-RH4-6R0.3-30F	6	0.3	30	150	6
TPU58-RH4-6R0.5-30F	6	0.5	30	150	6
TPU58-RH4-6R1-30F	6	1	30	150	6
TPU58-RH4-6R1.5-30F	6	1.5	30	150	6
TPU58-RH4-6R2-30F	6	2	30	150	6
TPU58-RH4-8R0.2-30F	8	0.2	30	150	8
TPU58-RH4-8R0.3-30F	8	0.3	30	150	8
TPU58-RH4-8R0.5-30F	8	0.5	30	150	8
TPU58-RH4-8R1-30F	8	1	30	150	8
TPU58-RH4-8R1.5-30F	8	1.5	30	150	8
TPU58-RH4-8R2-30F	8	2	30	150	8
TPU58-RH4-8R2.5-30F	8	2.5	30	150	8
TPU58-RH4-8R3-30F	8	3	30	150	8
TPU58-RH4-10R0.2-35F	10	0.2	35	150	10
TPU58-RH4-10R0.3-35F	10	0.3	35	150	10
TPU58-RH4-10R0.5-35F	10	0.5	35	150	10
TPU58-RH4-10R1-35F	10	1	35	150	10
TPU58-RH4-10R1.5-35F	10	1.5	35	150	10
TPU58-RH4-10R2-35F	10	2	35	150	10
TPU58-RH4-10R2.5-35F	10	2.5	35	150	10
TPU58-RH4-10R3-35F	10	3	35	150	10
TPU58-RH4-10R4-35F	10	4	35	150	10
TPU58-RH4-12R0.2-35F	12	0.2	35	150	12
TPU58-RH4-12R0.3-35F	12	0.3	35	150	12
TPU58-RH4-12R0.5-35F	12	0.5	35	150	12
TPU58-RH4-12R1-35F	12	1	35	150	12
TPU58-RH4-12R1.5-35F	12	1.5	35	150	12
TPU58-RH4-12R2-35F	12	2	35	150	12

## Концевая фреза с удлиненным хвостовиком



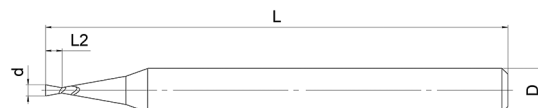
Артикул Tactic	d	R	L2	L	D
TPU58-RH4-12R2.5-35F	12	2.5	35	150	12
TPU58-RH4-12R3-35F	12	3	35	150	12
TPU58-RH4-12R4-35F	12	4	35	150	12
TPU58-RH4-12R5-35F	12	5	35	150	12
TPU58-RH4-14R0.5-40F	14	0.5	40	150	14
TPU58-RH4-14R1-40F	14	1	40	150	14
TPU58-RH4-14R1.5-40F	14	1.5	40	150	14
TPU58-RH4-14R2-40F	14	2	40	150	14
TPU58-RH4-14R2.5-40F	14	2.5	40	150	14
TPU58-RH4-14R3-40F	14	3	40	150	14
TPU58-RH4-14R4-40F	14	4	40	150	14
TPU58-RH4-14R5-40F	14	5	40	150	14
TPU58-RH4-16R0.5-50F	16	0.5	50	150	16
TPU58-RH4-16R1-50F	16	1	50	150	16
TPU58-RH4-16R1.5-50F	16	1.5	50	150	16
TPU58-RH4-16R2-50F	16	2	50	150	16
TPU58-RH4-16R2.5-50F	16	2.5	50	150	16
TPU58-RH4-16R3-50F	16	3	50	150	16
TPU58-RH4-16R4-50F	16	4	50	150	16
TPU58-RH4-16R5-50F	16	5	50	150	16
TPU58-RH4-20R0.5-50F	20	0.5	50	150	20
TPU58-RH4-20R1-50F	20	1	50	150	20
TPU58-RH4-20R1.5-50F	20	1.5	50	150	20
TPU58-RH4-20R2-50F	20	2	50	150	20
TPU58-RH4-20R2.5-50F	20	2.5	50	150	20
TPU58-RH4-20R3-50F	20	3	50	150	20
TPU58-RH4-20R4-50F	20	4	50	150	20
TPU58-RH4-20R5-50F	20	5	50	150	20
TPU58-RH4-6R0.1-30G	6	0.1	30	200	6
TPU58-RH4-6R0.2-30G	6	0.2	30	200	6
TPU58-RH4-6R0.3-30G	6	0.3	30	200	6
TPU58-RH4-6R0.5-30G	6	0.5	30	200	6
TPU58-RH4-6R1-30G	6	1	30	200	6
TPU58-RH4-6R1.5-30G	6	1.5	30	200	6
TPU58-RH4-6R2-30G	6	2	30	200	6
TPU58-RH4-8R0.2-40G	8	0.2	40	200	8
TPU58-RH4-8R0.3-40G	8	0.3	40	200	8
TPU58-RH4-8R0.5-40G	8	0.5	40	200	8
TPU58-RH4-8R1-40G	8	1	40	200	8
TPU58-RH4-8R1.5-40G	8	1.5	40	200	8
TPU58-RH4-8R2-40G	8	2	40	200	8
TPU58-RH4-8R2.5-40G	8	2.5	40	200	8
TPU58-RH4-8R3-40G	8	3	40	200	8
TPU58-RH4-10R0.2-40G	10	0.2	40	200	10
TPU58-RH4-10R0.3-40G	10	0.3	40	200	10
TPU58-RH4-10R0.5-40G	10	0.5	40	200	10
TPU58-RH4-10R1-40G	10	1	40	200	10
TPU58-RH4-10R1.5-40G	10	1.5	40	200	10
TPU58-RH4-10R2-40G	10	2	40	200	10
TPU58-RH4-10R2.5-40G	10	2.5	40	200	10
TPU58-RH4-10R3-40G	10	3	40	200	10
TPU58-RH4-10R4-40G	10	4	40	200	10
TPU58-RH4-12R0.2-40G	12	0.2	40	200	12
TPU58-RH4-12R0.3-40G	12	0.3	40	200	12

Концевая фреза  
с удлиненным хвостовиком



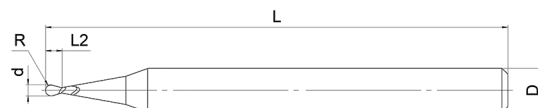
Артикул Tactic	d	R	L2	L	D
TPU58-RH4-12R0.5-40G	12	0.5	40	200	12
TPU58-RH4-12R1-40G	12	1	40	200	12
TPU58-RH4-12R1.5-40G	12	1.5	40	200	12
TPU58-RH4-12R2-40G	12	2	40	200	12
TPU58-RH4-12R2.5-40G	12	2.5	40	200	12
TPU58-RH4-12R3-40G	12	3	40	200	12
TPU58-RH4-12R4-40G	12	4	40	200	12
TPU58-RH4-12R5-40G	12	5	40	200	12
TPU58-RH4-14R0.5-50G	14	0.5	50	200	14
TPU58-RH4-14R1-50G	14	1	50	200	14
TPU58-RH4-14R1.5-50G	14	1.5	50	200	14
TPU58-RH4-14R2-50G	14	2	50	200	14
TPU58-RH4-14R2.5-50G	14	2.5	50	200	14
TPU58-RH4-14R3-50G	14	3	50	200	14
TPU58-RH4-14R4-50G	14	4	50	200	14
TPU58-RH4-14R5-50G	14	5	50	200	14
TPU58-RH4-16R0.5-50G	16	0.5	50	200	16
TPU58-RH4-16R1-50G	16	1	50	200	16
TPU58-RH4-16R1.5-50G	16	1.5	50	200	16
TPU58-RH4-16R2-50G	16	2	50	200	16
TPU58-RH4-16R2.5-50G	16	2.5	50	200	16
TPU58-RH4-16R3-50G	16	3	50	200	16
TPU58-RH4-16R4-50G	16	4	50	200	16
TPU58-RH4-16R5-50G	16	5	50	200	16
TPU58-RH4-20R0.5-50G	20	0.5	50	200	20
TPU58-RH4-20R1-50G	20	1	50	200	20
TPU58-RH4-20R1.5-50G	20	1.5	50	200	20
TPU58-RH4-20R2-50G	20	2	50	200	20
TPU58-RH4-20R2.5-50G	20	2.5	50	200	20
TPU58-RH4-20R3-50G	20	3	50	200	20
TPU58-RH4-20R4-50G	20	4	50	200	20
TPU58-RH4-20R5-50G	20	5	50	200	20

## Концевая микрофреза



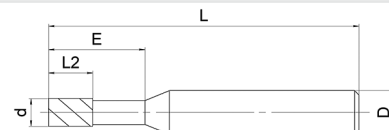
Артикул Tactic	d	L2	L	D
TPU58-ST2-0.1-0.2A	0.1	0.2	50	4
TPU58-ST2-0.15-0.3A	0.15	0.3	50	4
TPU58-ST2-0.2-0.4A	0.2	0.4	50	4
TPU58-ST2-0.25-0.5A	0.25	0.5	50	4
TPU58-ST2-0.3-0.6A	0.3	0.6	50	4
TPU58-ST2-0.4-0.8A	0.4	0.8	50	4
TPU58-ST2-0.5-1.0A	0.5	1.0	50	4
TPU58-ST2-0.6-1.2A	0.6	1.2	50	4
TPU58-ST2-0.7-1.4A	0.7	1.4	50	4
TPU58-ST2-0.8-1.6A	0.8	1.6	50	4
TPU58-ST2-0.9-1.8A	0.9	1.8	50	4

Концевая микрофреза  
сферическая



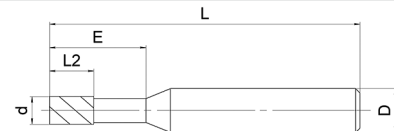
Артикул Tactic	R	L2	L	D
TPU58-BT2-0.1-0.2A	R0.05	0.2	50	4
TPU58-BT2-0.2-0.4A	R0.10	0.4	50	4
TPU58-BT2-0.3-0.6A	R0.15	0.6	50	4
TPU58-BT2-0.4-0.8A	R0.20	0.8	50	4
TPU58-BT2-0.5-1A	R0.25	1.0	50	4
TPU58-BT2-0.6-1.2A	R0.30	1.2	50	4
TPU58-BT2-0.7-1.4A	R0.35	1.4	50	4
TPU58-BT2-0.8-1.6A	R0.40	1.6	50	4
TPU58-BT2-0.9-1.8A	R0.45	1.8	50	4

## Концевая микрофреза с обнижением



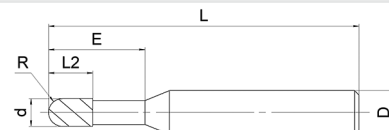
Артикул Tactic	d	L2	E	L	D
TPU58-SN2-0.2-0.2N1A	0.2	0.2	1	50	4
TPU58-SN2-0.2-0.2N2A	0.2	0.2	2	50	4
TPU58-SN2-0.2-0.2N3A	0.2	0.2	3	50	4
TPU58-SN2-0.3-0.3N1A	0.3	0.3	1	50	4
TPU58-SN2-0.3-0.3N2A	0.3	0.3	2	50	4
TPU58-SN2-0.3-0.3N3A	0.3	0.3	3	50	4
TPU58-SN2-0.3-0.3N4A	0.3	0.3	4	50	4
TPU58-SN2-0.4-0.4N1A	0.4	0.4	1	50	4
TPU58-SN2-0.4-0.4N2A	0.4	0.4	2	50	4
TPU58-SN2-0.4-0.4N3A	0.4	0.4	3	50	4
TPU58-SN2-0.4-0.4N4A	0.4	0.4	4	50	4
TPU58-SN2-0.4-0.4N6A	0.4	0.4	6	50	4
TPU58-SN2-0.4-0.4N8A	0.4	0.4	8	50	4
TPU58-SN2-0.4-0.4N10A	0.4	0.4	10	50	4
TPU58-SN2-0.5-0.5N2A	0.5	0.5	2	50	4
TPU58-SN2-0.5-0.5N3A	0.5	0.5	3	50	4
TPU58-SN2-0.5-0.5N4A	0.5	0.5	4	50	4
TPU58-SN2-0.5-0.5N6A	0.5	0.5	6	50	4
TPU58-SN2-0.5-0.5N8A	0.5	0.5	8	50	4
TPU58-SN2-0.5-0.5N10A	0.5	0.5	10	50	4
TPU58-SN2-0.5-0.5N12A	0.5	0.5	12	50	4
TPU58-SN2-0.6-0.6N2A	0.6	0.6	2	50	4
TPU58-SN2-0.6-0.6N3A	0.6	0.6	3	50	4
TPU58-SN2-0.6-0.6N4A	0.6	0.6	4	50	4
TPU58-SN2-0.6-0.6N6A	0.6	0.6	6	50	4
TPU58-SN2-0.6-0.6N8A	0.6	0.6	8	50	4
TPU58-SN2-0.6-0.6N10A	0.6	0.6	10	50	4
TPU58-SN2-0.6-0.6N12A	0.6	0.6	12	50	4
TPU58-SN2-0.7-0.7N2A	0.7	0.7	2	50	4
TPU58-SN2-0.7-0.7N3A	0.7	0.7	3	50	4
TPU58-SN2-0.7-0.7N4A	0.7	0.7	4	50	4
TPU58-SN2-0.7-0.7N6A	0.7	0.7	6	50	4
TPU58-SN2-0.7-0.7N8A	0.7	0.7	8	50	4
TPU58-SN2-0.7-0.7N10A	0.7	0.7	10	50	4
TPU58-SN2-0.7-0.7N12A	0.7	0.7	12	50	4
TPU58-SN2-0.8-0.8N2A	0.8	0.8	2	50	4
TPU58-SN2-0.8-0.8N3A	0.8	0.8	3	50	4
TPU58-SN2-0.8-0.8N4A	0.8	0.8	4	50	4
TPU58-SN2-0.8-0.8N6A	0.8	0.8	6	50	4
TPU58-SN2-0.8-0.8N8A	0.8	0.8	8	50	4
TPU58-SN2-0.8-0.8N10A	0.8	0.8	10	50	4
TPU58-SN2-0.8-0.8N12A	0.8	0.8	12	50	4
TPU58-SN2-0.9-0.9N4A	0.9	0.9	4	50	4
TPU58-SN2-0.9-0.9N6A	0.9	0.9	6	50	4
TPU58-SN2-0.9-0.9N8A	0.9	0.9	8	50	4
TPU58-SN2-0.9-0.9N10A	0.9	0.9	10	50	4
TPU58-SN2-0.9-0.9N12A	0.9	0.9	12	50	4
TPU58-SN2-1-3N6A	1	3	6	50	4
TPU58-SN2-1-3N8A	1	3	8	50	4
TPU58-SN2-1-3N10A	1	3	10	50	4
TPU58-SN2-1-3N12A	1	3	12	50	4
TPU58-SN2-1-3N15A	1	3	15	50	4
TPU58-SN2-1-3N20A	1	3	20	50	4
TPU58-SN2-1.5-4.5N7A	1.5	4.5	7	50	4

Концевая микрофреза с обнижением



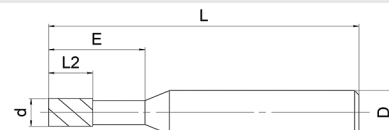
Артикул Tactic	d	L2	E	L	D
TPU58-SN2-1.5-4.5N10A	1.5	4.5	10	50	4
TPU58-SN2-1.5-4.5N12A	1.5	4.5	12	50	4
TPU58-SN2-1.5-4.5N15A	1.5	4.5	15	50	4
TPU58-SN2-1.5-4.5N20A	1.5	4.5	20	50	4
TPU58-SN2-2-6N10A	2	6	10	50	4
TPU58-SN2-2-6N12A	2	6	12	50	4
TPU58-SN2-2-6N15A	2	6	15	50	4
TPU58-SN2-2-6N20A	2	6	20	50	4
TPU58-SN2-2.5-7N12A	2.5	7	12	50	4
TPU58-SN2-2.5-7N15A	2.5	7	15	50	4
TPU58-SN2-2.5-7N20A	2.5	7	20	50	4
TPU58-SN2-3-8N12A	3	8	12	50	4
TPU58-SN2-3-8N15A	3	8	15	50	4
TPU58-SN2-3-8N20A	3	8	20	50	4
TPU58-SN2-3.5-10N12A	3.5	10	12	50	4
TPU58-SN2-3.5-10N15A	3.5	10	15	50	4
TPU58-SN2-3.5-10N20A	3.5	10	20	50	4

Концевая микрофреза сферическая с обнижением



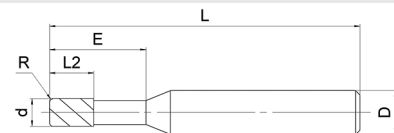
Артикул Tactic	R	L2	E	L	D
TPU58-BN2-0.2-0.2N1A	R0.1	0.2	1	50	4
TPU58-BN2-0.2-0.2N2A	R0.1	0.2	2	50	4
TPU58-BN2-0.2-0.2N3A	R0.1	0.2	3	50	4
TPU58-BN2-0.3-0.3N1A	R0.15	0.3	1	50	4
TPU58-BN2-0.3-0.3N2A	R0.15	0.3	2	50	4
TPU58-BN2-0.3-0.3N3A	R0.15	0.3	3	50	4
TPU58-BN2-0.3-0.3N4A	R0.15	0.3	4	50	4
TPU58-BN2-0.4-0.4N1A	R0.2	0.4	1	50	4
TPU58-BN2-0.4-0.4N2A	R0.2	0.4	2	50	4
TPU58-BN2-0.4-0.4N3A	R0.2	0.4	3	50	4
TPU58-BN2-0.4-0.4N4A	R0.2	0.4	4	50	4
TPU58-BN2-0.4-0.4N6A	R0.2	0.4	6	50	4
TPU58-BN2-0.4-0.4N8A	R0.2	0.4	8	50	4
TPU58-BN2-0.4-0.4N10A	R0.2	0.4	10	50	4
TPU58-BN2-0.5-0.5N2A	R0.25	0.5	2	50	4
TPU58-BN2-0.5-0.5N3A	R0.25	0.5	3	50	4
TPU58-BN2-0.5-0.5N4A	R0.25	0.5	4	50	4
TPU58-BN2-0.5-0.5N6A	R0.25	0.5	6	50	4
TPU58-BN2-0.5-0.5N8A	R0.25	0.5	8	50	4
TPU58-BN2-0.5-0.5N10A	R0.25	0.5	10	50	4
TPU58-BN2-0.5-0.5N12A	R0.25	0.5	12	50	4
TPU58-BN2-0.6-0.6N2A	R0.3	0.6	2	50	4
TPU58-BN2-0.6-0.6N3A	R0.3	0.6	3	50	4
TPU58-BN2-0.6-0.6N4A	R0.3	0.6	4	50	4
TPU58-BN2-0.6-0.6N6A	R0.3	0.6	6	50	4
TPU58-BN2-0.6-0.6N8A	R0.3	0.6	8	50	4
TPU58-BN2-0.6-0.6N10A	R0.3	0.6	10	50	4
TPU58-BN2-0.6-0.6N12A	R0.3	0.6	12	50	4
TPU58-BN2-0.7-0.7N4A	R0.35	0.7	4	50	4
TPU58-BN2-0.7-0.7N6A	R0.35	0.7	6	50	4
TPU58-BN2-0.7-0.7N8A	R0.35	0.7	8	50	4
TPU58-BN2-0.7-0.7N10A	R0.35	0.7	10	50	4
TPU58-BN2-0.7-0.7N12A	R0.35	0.7	12	50	4
TPU58-BN2-0.8-0.8N3A	R0.4	0.8	3	50	4
TPU58-BN2-0.8-0.8N4A	R0.4	0.8	4	50	4
TPU58-BN2-0.8-0.8N6A	R0.4	0.8	6	50	4
TPU58-BN2-0.8-0.8N8A	R0.4	0.8	8	50	4
TPU58-BN2-0.8-0.8N10A	R0.4	0.8	10	50	4
TPU58-BN2-0.8-0.8N12A	R0.4	0.8	12	50	4

Концевая микрофреза  
с обнижением



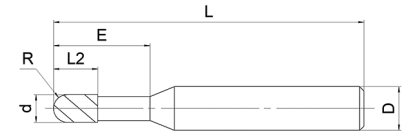
Артикул Tactic	d	L2	E	L	D
TPU58-SN4-1-1.2N4A	1	1.2	4	50	4
TPU58-SN4-1-1.2N6A	1	1.2	6	50	4
TPU58-SN4-1-1.2N8A	1	1.2	8	50	4
TPU58-SN4-1-1.2N10A	1	1.2	10	50	4
TPU58-SN4-1-1.2N12A	1	1.2	12	50	4
TPU58-SN4-1-1.2N16A	1	1.2	16	50	4
TPU58-SN4-1-1.2N20A	1	1.2	20	50	4
TPU58-SN4-1.5-1.8N6A	1.5	1.8	6	50	4
TPU58-SN4-1.5-1.8N8A	1.5	1.8	8	50	4
TPU58-SN4-1.5-1.8N10A	1.5	1.8	10	50	4
TPU58-SN4-1.5-1.8N12A	1.5	1.8	12	50	4
TPU58-SN4-1.5-1.8N16A	1.5	1.8	16	50	4
TPU58-SN4-1.5-1.8N20A	1.5	1.8	20	50	4
TPU58-SN4-2-2.4N8A	2	2.4	8	50	4
TPU58-SN4-2-2.4N10A	2	2.4	10	50	4
TPU58-SN4-2-2.4N12A	2	2.4	12	50	4
TPU58-SN4-2-2.4N16A	2	2.4	16	50	4
TPU58-SN4-2-2.4N20A	2	2.4	20	50	4
TPU58-SN4-2.5-3.0N10A	2.5	3.0	10	50	4
TPU58-SN4-2.5-3.0N12A	2.5	3.0	12	50	4
TPU58-SN4-2.5-3.0N16A	2.5	3.0	16	50	4
TPU58-SN4-2.5-3.0N20A	2.5	3.0	20	50	4
TPU58-SN4-3-3.6N10A	3	3.6	10	50	4
TPU58-SN4-3-3.6N12A	3	3.6	12	50	4
TPU58-SN4-3-3.6N16A	3	3.6	16	50	4
TPU58-SN4-3-3.6N20A	3	3.6	20	50	4
TPU58-SN4-3-3.6N10B	3	3.6	10	60	6
TPU58-SN4-3-3.6N12B	3	3.6	12	60	6
TPU58-SN4-3-3.6N16B	3	3.6	16	60	6
TPU58-SN4-3-3.6N20B	3	3.6	20	60	6
TPU58-SN4-3-3.6N30C	3	3.6	30	75	6
TPU58-SN4-4-4.8N10B	4	4.8	10	60	6
TPU58-SN4-4-4.8N12B	4	4.8	12	60	6
TPU58-SN4-4-4.8N16B	4	4.8	16	60	6
TPU58-SN4-4-4.8N20B	4	4.8	20	60	6
TPU58-SN4-4-4.8N30C	4	4.8	30	75	6

Концевая микрофреза  
с обнижением



Артикул Tactic	d	R	L2	E	L	D
TPU58-RN4-1R0.2-1.2N4A	1	0.2	1.2	4	50	4
TPU58-RN4-1R0.2-1.2N6A	1	0.2	1.2	6	50	4
TPU58-RN4-1R0.2-1.2N8A	1	0.2	1.2	8	50	4
TPU58-RN4-1R0.2-1.2N10A	1	0.2	1.2	10	50	4
TPU58-RN4-1R0.2-1.2N12A	1	0.2	1.2	12	50	4
TPU58-RN4-1R0.2-1.2N16A	1	0.2	1.2	16	50	4
TPU58-RN4-1R0.2-1.2N20A	1	0.2	1.2	20	50	4
TPU58-RN4-2R0.2-2.4N8A	2	0.2	2.4	8	50	4
TPU58-RN4-2R0.2-2.4N10A	2	0.2	2.4	10	50	4
TPU58-RN4-2R0.2-2.4N12A	2	0.2	2.4	12	50	4
TPU58-RN4-2R0.2-2.4N16A	2	0.2	2.4	16	50	4
TPU58-RN4-2R0.2-2.4N20A	2	0.2	2.4	20	50	4
TPU58-RN4-2R0.5-2.4N8A	2	0.5	2.4	8	50	4
TPU58-RN4-2R0.5-2.4N10A	2	0.5	2.4	10	50	4
TPU58-RN4-2R0.5-2.4N12A	2	0.5	2.4	12	50	4
TPU58-RN4-2R0.5-2.4N16A	2	0.5	2.4	16	50	4
TPU58-RN4-2R0.5-2.4N20A	2	0.5	2.4	20	50	4
TPU58-RN4-3R0.2-3.6N10A	3	0.2	3.6	10	50	4
TPU58-RN4-3R0.2-3.6N12A	3	0.2	3.6	12	50	4
TPU58-RN4-3R0.2-3.6N16A	3	0.2	3.6	16	50	4
TPU58-RN4-3R0.2-3.6N20A	3	0.2	3.6	20	50	4
TPU58-RN4-3R0.5-3.6N10A	3	0.5	3.6	10	50	4
TPU58-RN4-3R0.5-3.6N12A	3	0.5	3.6	12	50	4
TPU58-RN4-3R0.5-3.6N16A	3	0.5	3.6	16	50	4
TPU58-RN4-3R0.5-3.6N20A	3	0.5	3.6	20	50	4
TPU58-RN4-3R0.2-3.6N10B	3	0.2	3.6	10	60	6
TPU58-RN4-3R0.2-3.6N12B	3	0.2	3.6	12	60	6
TPU58-RN4-3R0.2-3.6N16B	3	0.2	3.6	16	60	6
TPU58-RN4-3R0.2-3.6N20B	3	0.2	3.6	20	60	6
TPU58-RN4-3R0.2-3.6N30C	3	0.2	3.6	30	75	6
TPU58-RN4-3R0.5-3.6N10B	3	0.5	3.6	10	60	6
TPU58-RN4-3R0.5-3.6N12B	3	0.5	3.6	12	60	6
TPU58-RN4-3R0.5-3.6N16B	3	0.5	3.6	16	60	6
TPU58-RN4-3R0.5-3.6N20B	3	0.5	3.6	20	60	6
TPU58-RN4-3R0.5-3.6N30C	3	0.5	3.6	30	75	6
TPU58-RN4-4R0.2-4.8N10B	4	0.2	4.8	10	60	6
TPU58-RN4-4R0.2-4.8N12B	4	0.2	4.8	12	60	6
TPU58-RN4-4R0.2-4.8N16B	4	0.2	4.8	16	60	6
TPU58-RN4-4R0.2-4.8N20B	4	0.2	4.8	20	60	6
TPU58-RN4-4R0.2-4.8N30C	4	0.2	4.8	30	75	6
TPU58-RN4-4R0.5-4.8N10B	4	0.5	4.8	10	60	6
TPU58-RN4-4R0.5-4.8N12B	4	0.5	4.8	12	60	6
TPU58-RN4-4R0.5-4.8N16B	4	0.5	4.8	16	60	6
TPU58-RN4-4R0.5-4.8N20B	4	0.5	4.8	20	60	6
TPU58-RN4-4R0.5-4.8N30C	4	0.5	4.8	30	75	6

Концевая микрофреза сферическая с обнижением



Артикул Tactic	R	L2	E	L	D
TPU58-BN2-1-1N4A	R0.5	1	4	50	4
TPU58-BN2-1-1N6A	R0.5	1	6	50	4
TPU58-BN2-1-1N8A	R0.5	1	8	50	4
TPU58-BN2-1-1N10A	R0.5	1	10	50	4
TPU58-BN2-1-1N12A	R0.5	1	12	50	4
TPU58-BN2-1-1N16A	R0.5	1	16	50	4
TPU58-BN2-1-1N20A	R0.5	1	20	50	4
TPU58-BN2-1.5-1.5N4A	R0.75	1.5	4	50	4
TPU58-BN2-1.5-1.5N6A	R0.75	1.5	6	50	4
TPU58-BN2-1.5-1.5N8A	R0.75	1.5	8	50	4
TPU58-BN2-1.5-1.5N10A	R0.75	1.5	10	50	4
TPU58-BN2-1.5-1.5N12A	R0.75	1.5	12	50	4
TPU58-BN2-1.5-1.5N16A	R0.75	1.5	16	50	4
TPU58-BN2-1.5-1.5N20A	R0.75	1.5	20	50	4
TPU58-BN2-2-2N6A	R1.0	2	6	50	4
TPU58-BN2-2-2N8A	R1.0	2	8	50	4
TPU58-BN2-2-2N10A	R1.0	2	10	50	4
TPU58-BN2-2-2N12A	R1.0	2	12	50	4
TPU58-BN2-2-2N16A	R1.0	2	16	50	4
TPU58-BN2-2-2N20A	R1.0	2	20	50	4
TPU58-BN2-3-3N8A	R1.5	3	8	50	4
TPU58-BN2-3-3N10A	R1.5	3	10	50	4
TPU58-BN2-3-3N12A	R1.5	3	12	50	4
TPU58-BN2-3-3N16A	R1.5	3	16	50	4
TPU58-BN2-3-3N20A	R1.5	3	20	50	4
TPU58-BN2-3-3N10B	R1.5	3	10	60	6
TPU58-BN2-3-3N12B	R1.5	3	12	60	6
TPU58-BN2-3-3N16B	R1.5	3	16	60	6
TPU58-BN2-3-3N20B	R1.5	3	20	60	6
TPU58-BN2-3-3N30C	R1.5	3	30	75	6
TPU58-BN2-4-4N10B	R2.0	4	10	60	6
TPU58-BN2-4-4N12B	R2.0	4	12	60	6
TPU58-BN2-4-4N16B	R2.0	4	16	60	6
TPU58-BN2-4-4N20B	R2.0	4	20	60	6
TPU58-BN2-4-4N30C	R2.0	4	30	75	6

### Углеродистые стали (35HRC)

Плоский торец	Начальные данные							
	Обработка торцов				Обработка стенок			
	f (мм/мин)	S (об/мин)	ae (мм)	ap (мм)	f (мм/мин)	S (об/мин)	ae (мм)	ap (мм)
D1.0	1350	8000	0.65	0.03	1000	8500	0.02	3
D2.0	1500	7500	1.3	0.04	1200	8500	0.03	5
D3.0	1800	7500	1.95	0.05	1400	8000	0.04	7
D4.0	1800	6500	2.6	0.08	1600	7000	0.08	10
D6.0	2000	6000	3.9	0.1	1800	6500	0.12	12
D8.0	2100	5500	5.2	0.12	1800	6000	0.15	15
D10.0	2200	4500	6.5	0.15	2000	5500	0.18	20
D12.0	2200	3000	7.8	0.17	2200	5000	0.2	25
D14.0	2200	2500	9.1	0.19	2400	4500	0.22	30
D16.0	2000	2200	10.4	0.21	2200	4000	0.22	30
D18.0	1800	2000	11.7	0.23	2000	3000	0.25	35
D20.0	1800	2000	13	0.25	1800	3000	0.25	35

### Углеродистые стали (35HRC)

Сферическая	Начальные данные							
	Профильная обработка				Обработка пазов			
	f (мм/мин)	S (об/мин)	ae (мм)	ap (мм)	f (мм/мин)	S (об/мин)	ae (мм)	ap (мм)
R0.5	1200	10000	0.05	0.03	1000	12000	0	0.03
R0.75	1400	9000	0.05	0.05	1200	10000	0	0.04
R1.0	1600	8500	0.05	0.06	1400	9000	0	0.06
R1.5	1800	8000	0.1	0.08	1600	8500	0	0.08
R2.0	2000	8000	0.1	0.1	1800	8000	0	0.1
R3.0	2200	6500	0.15	0.12	2000	7500	0	0.12
R4.0	2500	6000	0.15	0.15	2200	7000	0	0.15
R5.0	2800	5500	0.15	0.17	2200	6500	0	0.18
R6.0	3000	5500	0.2	0.18	2300	6000	0	0.2
R7.0	2800	3500	0.2	0.2	2000	5500	0	0.22
R8.0	2600	3500	0.2	0.22	1950	5000	0	0.25
R10.0	2500	3000	0.2	0.25	1800	4000	0	0.25

### Углеродистые стали (35HRC)

Радиус при вершине	Начальные данные							
	Обработка торцов				Обработка стенок			
	f (мм/мин)	S (об/мин)	ae (мм)	ap (мм)	f (мм/мин)	S (об/мин)	ae (мм)	ap (мм)
D1R0.2	1450	8500	0.65	0.04	1000	8500	0.02	3
D2R0.5	1650	8000	1.3	0.06	1200	8500	0.03	5
D3R0.5	1850	7500	1.95	0.07	1400	8000	0.04	7
D4R0.5	2100	7000	2.6	0.09	1600	7500	0.08	10
D6R0.5	2500	6500	3.9	0.1	1800	7000	0.12	12
D8R.50	2350	6000	5.2	0.12	1800	6500	0.15	15
D10R0.5	2500	5500	6.5	0.15	2000	6000	0.17	20
D12R0.5	2600	4500	7.8	0.17	2200	5000	0.18	25
D16R0.5	2500	3500	10.4	0.21	2200	4000	0.2	30
D18R0.5	2200	3000	11.7	0.23	2000	3500	0.22	35
D20R0.5	2000	2500	13	0.25	1800	3000	0.25	35
R10.0	2500	3000	0.2	0.25	1800	4000	0	0.25

### Углеродистые стали (35HRC)

Микрофрезы с плоским торцом	Начальные данные			
	Обработка торцов			
	f (мм/мин)	S (об/мин)	ap (мм)	
0.1	100	20000	0.008	
0.2	150	20000	0.008	
0.3	180	20000	0.01	
0.4	200	20000	0.01	
0.5	300	18000	0.015	
0.6	350	18000	0.02	
0.7	400	15000	0.025	
0.8	500	12000	0.03	
0.9	650	12000	0.03	

Стандартная  
длина  
рабочей  
части

### Углеродистые стали (35HRC)

Микрофрезы сферические	Начальные данные			
	Обработка торцов			
	f (мм/мин)	S (об/мин)	ap (мм)	
R0.1	150	20000	0.006	
R0.15	180	20000	0.009	
R0.2	200	20000	0.012	
R0.25	250	18000	0.015	
R0.3	300	18000	0.018	
R0.35	400	15000	0.02	
R0.4	550	15000	0.02	
R0.45	600	15000	0.025	

Стандартная  
длина  
рабочей  
части

### Углеродистые стали (35HRC)

Микрофрезы с плоским торцом для глубоких пазов	Начальные данные		
	Обработка торцов		
	f (мм/мин)	S (об/мин)	ap (мм)
0.1	80	20000	0.005
0.2	100	20000	0.006
0.3	160	18000	0.008
0.4	180	18000	0.01
0.5	200	15000	0.01
0.6	300	15000	0.012
0.7	350	12000	0.015
0.8	450	10000	0.018
0.9	500	10000	0.02

### Углеродистые стали (35HRC)

Микрофрезы сферические для глубоких пазов	Начальные данные		
	Обработка торцов		
	f (мм/мин)	S (об/мин)	ap (мм)
R0.1	120	20000	0.005
R0.15	150	20000	0.006
R0.2	180	18000	0.008
R0.25	200	15000	0.01
R0.3	250	15000	0.012
R0.35	300	15000	0.015
R0.4	400	12000	0.018
R0.45	500	12000	0.02

### Углеродистые стали (35HRC)

Плоский торец	Эффективная длина	Начальные данные			Обработка торцов			Обработка стенок		
		f (мм/мин)	S (об/мин)	ap (мм)	f (мм/мин)	S (об/мин)	ae (мм)			
1	4	1650	12000	0.06	1500	12000	0.08			
	6	1500	10000	0.04	1400	11000	0.06			
	8	1350	9500	0.03	1100	10000	0.05			
	10	1100	9000	0.03	950	9500	0.05			
2	10	1800	9500	0.08	1650	9000	0.1			
	12	1600	9000	0.06	1450	9000	0.08			
	16	1450	8000	0.05	1200	8500	0.075			
	20	1100	7500	0.04	1000	8500	0.065			
3	10	1850	8000	0.1	1650	9000	0.14			
	12	1600	7500	0.1	1500	8500	0.12			
	16	1450	7000	0.07	1400	8000	0.1			
	20	1300	6500	0.07	1200	7000	0.08			

### Углеродистые стали (35HRC)

Сферическая	Эффективная длина	Начальные данные		
		Обработка торцов		
		f (мм/мин)	S (об/мин)	ap (мм)
R0.5	4	1400	10000	0.08
	6	1200	9500	0.06
	8	1000	9000	0.04
	10	800	8500	0.03
R0.75	10	1650	9000	0.08
	12	1500	8500	0.06
	16	1300	8000	0.05
	20	1100	8000	0.04
R1.0	10	1800	8500	0.1
	12	1650	8000	0.08
	16	1550	7500	0.06
	20	1250	7000	0.06
R1.5	10	2000	8000	0.12
	12	1800	7500	0.12
	16	1500	7000	0.1
	20	1200	7000	0.07

### Углеродистые стали (35HRC)

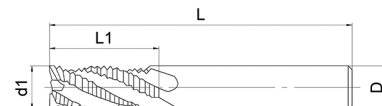
Радиус при вершине	Эффективная длина	Начальные данные			Обработка торцов			Обработка стенок		
		f (мм/мин)	S (об/мин)	ap (мм)	f (мм/мин)	S (об/мин)	ae (мм)			
1R0.2	4	1500	12000	0.07	1400	12000	0.07			
	6	1300	11000	0.05	1200	11000	0.06			
	8	1100	10000	0.04	1000	11000	0.05			
	10	900	9500	0.035	800	9500	0.05			
2R0.2	10	1650	9500	0.08	1500	9500	0.12			
	12	1350	9000	0.07	1250	9500	0.1			
	16	1200	8500	0.06	1100	9000	0.08			
	20	1100	8000	0.03	1000	8500	0.08			
3R0.2	10	1650	9000	0.1	1550	9500	0.15			
	12	1450	8500	0.08	1350	9000	0.12			
	16	1350	8000	0.06	1250	8500	0.1			
	20	1200	7000	0.05	1100	8000	0.08			

# TUR60

Фрезы для черновой обработки

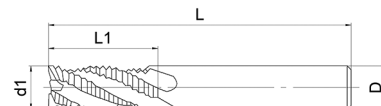


## Концевая фреза черновая



Артикул Tactic	d1	L1	L	D
TUR60-ST3-4-11A	4	11	50	4
TUR60-ST3-5-13A	5	13	50	5
TUR60-ST3-6-15A	6	15	50	6
TUR60-ST3-8-20B	8	20	60	8
TUR60-ST3-10-25C	10	25	75	10
TUR60-ST3-12-30C	12	30	75	12
TUR60-ST3-14-35D	14	35	100	14
TUR60-ST3-16-40D	16	40	100	16
TUR60-ST3-20-45D	20	45	100	20

## Концевая фреза черновая



Артикул Tactic	d1	L1	L	D
TUR60-ST4-4-11A	4	11	50	4
TUR60-ST4-5-13A	5	13	50	5
TUR60-ST4-6-15A	6	15	50	6
TUR60-ST4-8-20B	8	20	60	8
TUR60-ST4-10-25C	10	25	75	10
TUR60-ST4-12-30C	12	30	75	12
TUR60-ST4-14-35D	14	35	100	14
TUR60-ST4-16-40D	16	40	100	16
TUR60-ST4-20-45D	20	45	100	20

# TUR60

ФРЕЗЫ ДЛЯ ЧЕРНОВОЙ ОБРАБОТКИ

TACTIC

Концевая фреза черновая  
с удлиненным хвостовиком



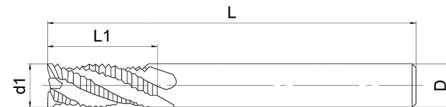
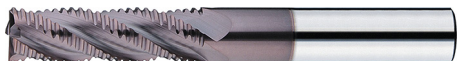
Артикул Tactic	d1	L1	L	D
TUR60-SL3-4-16C	4	16	75	4
TUR60-SL3-6-20C	6	20	75	6
TUR60-SL3-8-25C	8	25	75	8
TUR60-SL3-6-20D	6	20	100	6
TUR60-SL3-8-30D	8	30	100	8
TUR60-SL3-10-40D	10	40	100	10
TUR60-SL3-12-45D	12	45	100	12
TUR60-SL3-8-40F	8	40	150	8
TUR60-SL3-10-50F	10	50	150	10
TUR60-SL3-12-50F	12	50	150	12
TUR60-SL3-14-60F	14	60	150	14
TUR60-SL3-16-65F	16	65	150	16
TUR60-SL3-20-75F	20	75	150	20
TUR60-SL3-8-50G	8	50	200	8
TUR60-SL3-10-60G	10	60	200	10
TUR60-SL3-12-60G	12	60	200	12
TUR60-SL3-16-80G	16	80	200	16
TUR60-SL3-20-100G	20	100	200	20

# TUR60

ФРЕЗЫ ДЛЯ ЧЕРНОВОЙ ОБРАБОТКИ



Концевая фреза черновая  
с удлиненным хвостовиком



Артикул Tactic	d1	L1	L	D
TUR60-SL4-4-16C	4	16	75	4
TUR60-SL4-6-20C	6	20	75	6
TUR60-SL4-8-25C	8	25	75	8
TUR60-SL4-6-20D	6	20	100	6
TUR60-SL4-8-30D	8	30	100	8
TUR60-SL4-10-40D	10	40	100	10
TUR60-SL4-12-45D	12	45	100	12
TUR60-SL4-8-40F	8	40	150	8
TUR60-SL4-10-50F	10	50	150	10
TUR60-SL4-12-50F	12	50	150	12
TUR60-SL4-14-60F	14	60	150	14
TUR60-SL4-16-65F	16	65	150	16
TUR60-SL4-20-75F	20	75	150	20
TUR60-SL4-8-50G	8	50	200	8
TUR60-SL4-10-60G	10	60	200	10
TUR60-SL4-12-60G	12	60	200	12
TUR60-SL4-16-80G	16	80	200	16
TUR60-SL4-20-100G	20	100	200	20

## Сталь

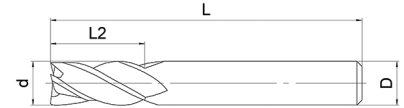
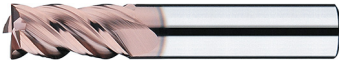
Диаметр фрезы	Начальные данные							
	Обработка торцов			Обработка стенок				
	f (мм/мин)	S (об/мин)	ae (мм)	ap (мм)	f (мм/мин)	S (об/мин)	ae (мм)	ap (мм)
D4.0	1800	5000	2.8	0.2	2000	6000	0.25	6
D6.0	2000	4200	3.2	0.2	2400	5000	0.3	10
D8.0	2200	3800	5.6	0.25	2400	4000	0.3	12
D10.0	2400	3500	7	0.25	2200	3500	0.3	18
D12.0	2600	3200	8.4	0.3	2000	3500	0.35	20
D14.0	2300	3000	9.8	0.3	2200	3500	0.4	20
D16.0	2100	2500	11.2	0.35	2200	3200	0.5	25
D18.0	2000	2500	12.6	0.4	2000	3000	0.5	30
D20.0	1800	2000	14	0.5	1800	2500	0.5	40
D16.0	2000	2200	10.4	0.21	2200	4000	0.22	30
D18.0	1800	2000	11.7	0.23	2000	3000	0.25	35
D20.0	1800	2000	13	0.25	1800	3000	0.25	35

# TMU30

Фрезы для стандартной обработки нержавеющей стали

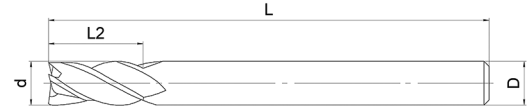


## Концевая фреза



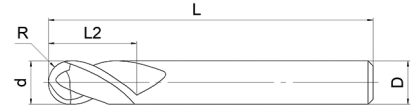
Артикул Tactic	d	L2	L	D
TMU30-ST4-1-3A	1	3	50	4
TMU30-ST4-1.5-4.5A	1.5	4.5	50	4
TMU30-ST4-2-6A	2	6	50	4
TMU30-ST4-2.5-7A	2.5	7	50	4
TMU30-ST4-3-8A	3	8	50	4
TMU30-ST4-3.5-10A	3.5	10	50	4
TMU30-ST4-4-11A	4	11	50	4
TMU30-ST4-4.5-13A	4.5	13	50	6
TMU30-ST4-5-13A	5	13	50	6
TMU30-ST4-5.5-13A	5.5	13	50	6
TMU30-ST4-6-15A	6	15	50	6
TMU30-ST4-6.5-17B	6.5	17	60	8
TMU30-ST4-7-17B	7	17	60	8
TMU30-ST4-7.5-17B	7.5	17	60	8
TMU30-ST4-8-20B	8	20	60	8
TMU30-ST4-8.5-23C	8.5	23	75	10
TMU30-ST4-9-23C	9	23	75	10
TMU30-ST4-9.5-25C	9.5	25	75	10
TMU30-ST4-10-25C	10	25	75	10
TMU30-ST4-10.5-25C	10.5	25	75	12
TMU30-ST4-11-28C	11	28	75	12
TMU30-ST4-11.5-28C	11.5	28	75	12
TMU30-ST4-12-30C	12	30	75	12
TMU30-ST4-13-33D	13	33	100	14
TMU30-ST4-14-35D	14	35	100	14
TMU30-ST4-15-38D	15	38	100	16
TMU30-ST4-16-40D	16	40	100	16
TMU30-ST4-17-40D	17	40	100	18
TMU30-ST4-18-40D	18	40	100	18
TMU30-ST4-19-40D	19	40	100	20
TMU30-ST4-20-40D	20	40	100	20
TMU30-ST4-22-40D	22	40	100	25
TMU30-ST4-25-40D	25	40	100	25

Концевая фреза  
с удлиненным хвостовиком



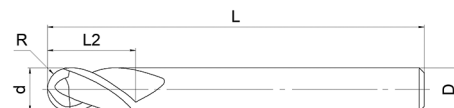
Артикул Tactic	d	L2	L	D
TMU30-SH4-1-3C	1	3	75	4
TMU30-SH4-1.5-4.5C	1.5	4.5	75	4
TMU30-SH4-2-6C	2	6	75	4
TMU30-SH4-2.5-7C	2.5	7	75	4
TMU30-SH4-3-8C	3	8	75	4
TMU30-SH4-3.5-10C	3.5	10	75	4
TMU30-SH4-4-11C	4	11	75	4
TMU30-SH4-4.5-13C	4.5	13	75	6
TMU30-SH4-5-15C	5	15	75	6
TMU30-SH4-5.5-15C	5.5	15	75	6
TMU30-SH4-6-15C	6	15	75	6
TMU30-SH4-6.5-17C	6.5	17	75	8
TMU30-SH4-7-17C	7	17	75	8
TMU30-SH4-7.5-17C	7.5	17	75	8
TMU30-SH4-8-20C	8	20	75	8
TMU30-SH4-3-8D	3	8	100	4
TMU30-SH4-4-11D	4	11	100	4
TMU30-SH4-5-15D	5	15	100	6
TMU30-SH4-6-15D	6	15	100	6
TMU30-SH4-7-17D	7	17	100	8
TMU30-SH4-8-20D	8	20	100	8
TMU30-SH4-9-23D	9	23	100	10
TMU30-SH4-10-30D	10	30	100	10
TMU30-SH4-11-30D	11	30	100	12
TMU30-SH4-12-30D	12	30	100	12
TMU30-SH4-10-40E	10	40	120	10
TMU30-SH4-12-45E	12	45	120	12
TMU30-SH4-8-40F	8	40	150	8
TMU30-SH4-10-50F	10	50	150	10
TMU30-SH4-12-50F	12	50	150	12
TMU30-SH4-16-65F	16	65	150	16
TMU30-SH4-18-65F	18	65	150	18
TMU30-SH4-20-75F	20	75	150	20
TMU30-SH4-10-60G	10	60	200	10
TMU30-SH4-12-80G	12	80	200	12
TMU30-SH4-16-80G	16	80	200	16
TMU30-SH4-20-100G	20	100	200	20

Концевая фреза  
сферическая



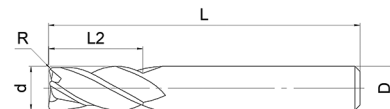
Артикул Tactic	R	L2	L	D
TMU30-BT2-1-2A	R0.50	2	50	4
TMU30-BT2-1.5-3A	R0.75	3	50	4
TMU30-BT2-2-4A	R1.00	4	50	4
TMU30-BT2-2.5-5A	R1.25	5	50	4
TMU30-BT2-3-6A	R1.50	6	50	4
TMU30-BT2-3.5-7A	R1.75	7	50	4
TMU30-BT2-4-8A	R2.00	8	50	4
TMU30-BT2-4.5-9A	R2.25	9	50	6
TMU30-BT2-5-10A	R2.50	10	50	6
TMU30-BT2-5.5-11A	R2.75	11	50	6
TMU30-BT2-6-12A	R3.00	12	50	6
TMU30-BT2-6.5-13B	R3.25	13	60	8
TMU30-BT2-7-14B	R3.50	14	60	8
TMU30-BT2-7.5-15B	R3.75	15	60	8
TMU30-BT2-8-16B	R4.00	16	60	8
TMU30-BT2-9-18C	R4.50	18	75	10
TMU30-BT2-10-20C	R5.00	20	75	10
TMU30-BT2-12-24C	R6.00	24	75	12
TMU30-BT2-16-32D	R8.00	32	100	16
TMU30-BT2-20-40D	R10.0	40	100	20
TMU30-BT2-25-50D	R12.5	50	100	25

Концевая фреза сферическая  
с удлиненным хвостовиком



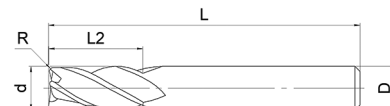
Артикул Tactic	R	L2	L	D
TMU30-BH2-1-2C	R0.50	2	75	4
TMU30-BH2-1.5-3C	R0.75	3	75	4
TMU30-BH2-2-4C	R1.00	4	75	4
TMU30-BH2-2.5-5C	R1.25	5	75	4
TMU30-BH2-3-6C	R1.50	6	75	4
TMU30-BH2-3.5-7C	R1.75	7	75	4
TMU30-BH2-4-8C	R2.00	8	75	4
TMU30-BH2-4.5-9C	R2.25	9	75	6
TMU30-BH2-5-10C	R2.50	10	75	6
TMU30-BH2-5.5-11C	R2.75	11	75	6
TMU30-BH2-6-12C	R3.00	12	75	6
TMU30-BH2-8-16C	R4.00	16	75	8
TMU30-BH2-1-2D	R0.50	2	100	4
TMU30-BH2-1.5-3D	R0.75	3	100	4
TMU30-BH2-2-4D	R1.00	4	100	4
TMU30-BH2-2.5-5D	R1.25	5	100	4
TMU30-BH2-3-6D	R1.50	6	100	4
TMU30-BH2-3.5-7D	R1.75	7	100	4
TMU30-BH2-4-8D	R2.00	8	100	4
TMU30-BH2-4.5-9D	R2.25	9	100	6
TMU30-BH2-5-10D	R2.50	10	100	6
TMU30-BH2-5.5-11D	R2.75	11	100	6
TMU30-BH2-6-12D	R3.00	12	100	6
TMU30-BH2-8-16D	R4.00	16	100	8
TMU30-BH2-10-20D	R5.00	20	100	10
TMU30-BH2-12-24D	R6.00	24	100	12
TMU30-BH2-10-20E	R5.00	20	120	10
TMU30-BH2-12-24E	R6.00	24	120	12
TMU30-BH2-6-12F	R3.00	12	150	6
TMU30-BH2-8-16F	R4.00	16	150	8
TMU30-BH2-10-20F	R5.00	20	150	10
TMU30-BH2-12-24F	R6.00	24	150	12
TMU30-BH2-16-32F	R8.00	32	150	16
TMU30-BH2-20-40F	R10.0	40	150	20
TMU30-BH2-8-16G	R4.00	16	200	8
TMU30-BH2-10-20G	R5.00	20	200	10
TMU30-BH2-12-24G	R6.00	24	200	12
TMU30-BH2-16-32G	R8.00	32	200	16
TMU30-BH2-20-40G	R10.0	40	200	20

## Концевая фреза



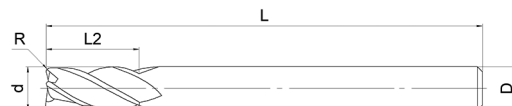
Артикул Tactic	d	R	L2	L	D
TMU30-RT4-1R0.1-3A	1	0.1	3	50	4
TMU30-RT4-1R0.2-3A	1	0.2	3	50	4
TMU30-RT4-1R0.3-3A	1	0.3	3	50	4
TMU30-RT4-1.5R0.1-4.5A	1.5	0.1	4.5	50	4
TMU30-RT4-1.5R0.2-4.5A	1.5	0.2	4.5	50	4
TMU30-RT4-1.5R0.3-4.5A	1.5	0.3	4.5	50	4
TMU30-RT4-1.5R0.5-4.5A	1.5	0.5	4.5	50	4
TMU30-RT4-2R0.1-6A	2	0.1	6	50	4
TMU30-RT4-2R0.2-6A	2	0.2	6	50	4
TMU30-RT4-2R0.3-6A	2	0.3	6	50	4
TMU30-RT4-2R0.5-6A	2	0.5	6	50	4
TMU30-RT4-2.5R0.1-7.5A	2.5	0.1	7.5	50	4
TMU30-RT4-2.5R0.2-7.5A	2.5	0.2	7.5	50	4
TMU30-RT4-2.5R0.3-7.5A	2.5	0.3	7.5	50	4
TMU30-RT4-2.5R0.5-7.5A	2.5	0.5	7.5	50	4
TMU30-RT4-3R0.1-8A	3	0.1	8	50	4
TMU30-RT4-3R0.2-8A	3	0.2	8	50	4
TMU30-RT4-3R0.3-8A	3	0.3	8	50	4
TMU30-RT4-3R0.5-8A	3	0.5	8	50	4
TMU30-RT4-3R1-8A	3	1	8	50	4
TMU30-RT4-4R0.1-11A	4	0.1	11	50	4
TMU30-RT4-4R0.2-11A	4	0.2	11	50	4
TMU30-RT4-4R0.3-11A	4	0.3	11	50	4
TMU30-RT4-4R0.5-11A	4	0.5	11	50	4
TMU30-RT4-4R1-11A	4	1	11	50	4
TMU30-RT4-5R0.2-13A	5	0.2	13	50	5
TMU30-RT4-5R0.5-13A	5	0.5	13	50	5
TMU30-RT4-5R1-13A	5	1	13	50	5
TMU30-RT4-6R0.1-15A	6	0.1	15	50	6
TMU30-RT4-6R0.2-15A	6	0.2	15	50	6
TMU30-RT4-6R0.3-15A	6	0.3	15	50	6
TMU30-RT4-6R0.5-15A	6	0.5	15	50	6
TMU30-RT4-6R1-15A	6	1	15	50	6
TMU30-RT4-6R1.5-15A	6	1.5	15	50	6
TMU30-RT4-6R2-15A	6	2	15	50	6
TMU30-RT4-8R0.2-20B	8	0.2	20	60	8
TMU30-RT4-8R0.3-20B	8	0.3	20	60	8
TMU30-RT4-8R0.5-20B	8	0.5	20	60	8
TMU30-RT4-8R1-20B	8	1	20	60	8
TMU30-RT4-8R1.5-20B	8	1.5	20	60	8
TMU30-RT4-8R2-20B	8	2	20	60	8
TMU30-RT4-8R2.5-20B	8	2.5	20	60	8
TMU30-RT4-8R3-20B	8	3	20	60	8
TMU30-RT4-10R0.2-25C	10	0.2	25	75	10
TMU30-RT4-10R0.3-25C	10	0.3	25	75	10
TMU30-RT4-10R0.5-25C	10	0.5	25	75	10
TMU30-RT4-10R1-25C	10	1	25	75	10
TMU30-RT4-10R1.5-25C	10	1.5	25	75	10
TMU30-RT4-10R2-25C	10	2	25	75	10
TMU30-RT4-10R2.5-25C	10	2.5	25	75	10
TMU30-RT4-10R3-25C	10	3	25	75	10
TMU30-RT4-10R4-25C	10	4	25	75	10
TMU30-RT4-12R0.2-30C	12	0.2	30	75	12
TMU30-RT4-12R0.3-30C	12	0.3	30	75	12

## Концевая фреза



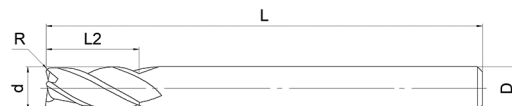
Артикул Tactic	d	R	L2	L	D
TMU30-RT4-12R0.5-30C	12	0.5	30	75	12
TMU30-RT4-12R1-30C	12	1	30	75	12
TMU30-RT4-12R1.5-30C	12	1.5	30	75	12
TMU30-RT4-12R2-30C	12	2	30	75	12
TMU30-RT4-12R2.5-30C	12	2.5	30	75	12
TMU30-RT4-12R3-30C	12	3	30	75	12
TMU30-RT4-12R4-30C	12	4	30	75	12
TMU30-RT4-12R5-30C	12	5	30	75	12
TMU30-RT4-14R0.5-35D	14	0.5	35	100	14
TMU30-RT4-14R1-35D	14	1	35	100	14
TMU30-RT4-14R1.5-35D	14	1.5	35	100	14
TMU30-RT4-14R2-35D	14	2	35	100	14
TMU30-RT4-14R2.5-35D	14	2.5	35	100	14
TMU30-RT4-14R3-35D	14	3	35	100	14
TMU30-RT4-14R4-35D	14	4	35	100	14
TMU30-RT4-14R5-35D	14	5	35	100	14
TMU30-RT4-16R0.5-40D	16	0.5	40	100	16
TMU30-RT4-16R1-40D	16	1	40	100	16
TMU30-RT4-16R1.5-40D	16	1.5	40	100	16
TMU30-RT4-16R2-40D	16	2	40	100	16
TMU30-RT4-16R2.5-40D	16	2.5	40	100	16
TMU30-RT4-16R3-40D	16	3	40	100	16
TMU30-RT4-16R4-40D	16	4	40	100	16
TMU30-RT4-16R5-40D	16	5	40	100	16
TMU30-RT4-20R0.5-45D	20	0.5	45	100	20
TMU30-RT4-20R1-45D	20	1	45	100	20
TMU30-RT4-20R1.5-45D	20	1.5	45	100	20
TMU30-RT4-20R2-45D	20	2	45	100	20
TMU30-RT4-20R2.5-45D	20	2.5	45	100	20
TMU30-RT4-20R3-45D	20	3	45	100	20
TMU30-RT4-20R4-45D	20	4	45	100	20
TMU30-RT4-20R5-45D	20	5	45	100	20

Концевая фреза с удлиненным хвостовиком



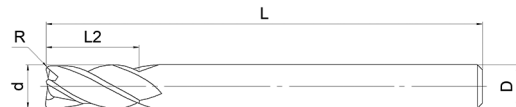
Артикул Tactic	d	R	L2	L	D
TMU30-RH4-1R0.1-3C	1	0.1	3	75	4
TMU30-RH4-1R0.2-3C	1	0.2	3	75	4
TMU30-RH4-1R0.3-3C	1	0.3	3	75	4
TMU30-RH4-1.5R0.1-4.5C	1.5	0.1	4.5	75	4
TMU30-RH4-1.5R0.2-4.5C	1.5	0.2	4.5	75	4
TMU30-RH4-1.5R0.3-4.5C	1.5	0.3	4.5	75	4
TMU30-RH4-1.5R0.5-4.5C	1.5	0.5	4.5	75	4
TMU30-RH4-2R0.1-6C	2	0.1	6	75	4
TMU30-RH4-2R0.2-6C	2	0.2	6	75	4
TMU30-RH4-2R0.3-6C	2	0.3	6	75	4
TMU30-RH4-2R0.5-6C	2	0.5	6	75	4
TMU30-RH4-2.5R0.1-7.5C	2.5	0.1	7.5	75	4
TMU30-RH4-2.5R0.2-7.5C	2.5	0.2	7.5	75	4
TMU30-RH4-2.5R0.3-7.5C	2.5	0.3	7.5	75	4
TMU30-RH4-2.5R0.5-7.5C	2.5	0.5	7.5	75	4
TMU30-RH4-3R0.1-8C	3	0.1	8	75	4
TMU30-RH4-3R0.2-8C	3	0.2	8	75	4
TMU30-RH4-3R0.3-8C	3	0.3	8	75	4
TMU30-RH4-3R0.5-8C	3	0.5	8	75	4
TMU30-RH4-3R1-8C	3	1	8	75	4
TMU30-RH4-4R0.1-11C	4	0.1	11	75	4
TMU30-RH4-4R0.2-11C	4	0.2	11	75	4
TMU30-RH4-4R0.3-11C	4	0.3	11	75	4
TMU30-RH4-4R0.5-11C	4	0.5	11	75	4
TMU30-RH4-4R1-11C	4	1	11	75	4
TMU30-RH4-5R0.2-15C	5	0.2	15	75	5
TMU30-RH4-5R0.5-15C	5	0.5	15	75	5
TMU30-RH4-5R1-15C	5	1	15	75	5
TMU30-RH4-6R0.1-15C	6	0.1	15	75	6
TMU30-RH4-6R0.2-15C	6	0.2	15	75	6
TMU30-RH4-6R0.3-15C	6	0.3	15	75	6
TMU30-RH4-6R0.5-15C	6	0.5	15	75	6
TMU30-RH4-6R1-15C	6	1	15	75	6
TMU30-RH4-6R1.5-15C	6	1.5	15	75	6
TMU30-RH4-6R2-15C	6	2	15	75	6
TMU30-RH4-8R0.2-20C	8	0.2	20	75	8
TMU30-RH4-8R0.3-20C	8	0.3	20	75	8
TMU30-RH4-8R0.5-20C	8	0.5	20	75	8
TMU30-RH4-8R1-20C	8	1	20	75	8
TMU30-RH4-8R1.5-20C	8	1.5	20	75	8
TMU30-RH4-8R2-20C	8	2	20	75	8
TMU30-RH4-8R2.5-20C	8	2.5	20	75	8
TMU30-RH4-8R3-20C	8	3	20	75	8
TMU30-RH4-1R0.1-3D	1	0.1	3	100	4
TMU30-RH4-1R0.2-3D	1	0.2	3	100	4
TMU30-RH4-1R0.3-3D	1	0.3	3	100	4
TMU30-RH4-1.5R0.1-4.5D	1.5	0.1	4.5	100	4
TMU30-RH4-1.5R0.2-4.5D	1.5	0.2	4.5	100	4
TMU30-RH4-1.5R0.3-4.5D	1.5	0.3	4.5	100	4
TMU30-RH4-1.5R0.5-4.5D	1.5	0.5	4.5	100	4
TMU30-RH4-2R0.1-6D	2	0.1	6	100	4
TMU30-RH4-2R0.2-6D	2	0.2	6	100	4
TMU30-RH4-2R0.3-6D	2	0.3	6	100	4
TMU30-RH4-2R0.5-6D	2	0.5	6	100	4

Концевая фреза с удлиненным хвостовиком



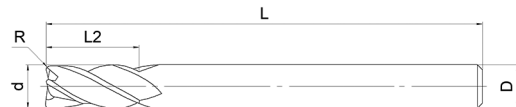
Артикул Tactic	d	R	L2	L	D
TMU30-RH4-2.5R0.1-7.5D	2.5	0.1	7.5	100	4
TMU30-RH4-2.5R0.2-7.5D	2.5	0.2	7.5	100	4
TMU30-RH4-2.5R0.3-7.5D	2.5	0.3	7.5	100	4
TMU30-RH4-2.5R0.5-7.5D	2.5	0.5	7.5	100	4
TMU30-RH4-3R0.1-8D	3	0.1	8	100	4
TMU30-RH4-3R0.2-8D	3	0.2	8	100	4
TMU30-RH4-3R0.3-8D	3	0.3	8	100	4
TMU30-RH4-3R0.5-8D	3	0.5	8	100	4
TMU30-RH4-3R1-8D	3	1	8	100	4
TMU30-RH4-4R0.1-11D	4	0.1	11	100	4
TMU30-RH4-4R0.2-11D	4	0.2	11	100	4
TMU30-RH4-4R0.3-11D	4	0.3	11	100	4
TMU30-RH4-4R0.5-11D	4	0.5	11	100	4
TMU30-RH4-4R1-11D	4	1	11	100	4
TMU30-RH4-5R0.2-15D	5	0.2	15	100	5
TMU30-RH4-5R0.5-15D	5	0.5	15	100	5
TMU30-RH4-5R1-15D	5	1	15	100	5
TMU30-RH4-6R0.1-15D	6	0.1	15	100	6
TMU30-RH4-6R0.2-15D	6	0.2	15	100	6
TMU30-RH4-6R0.3-15D	6	0.3	15	100	6
TMU30-RH4-6R0.5-15D	6	0.5	15	100	6
TMU30-RH4-6R1-15D	6	1	15	100	6
TMU30-RH4-6R1.5-15D	6	1.5	15	100	6
TMU30-RH4-6R2-15D	6	2	15	100	6
TMU30-RH4-8R0.2-20D	8	0.2	20	100	8
TMU30-RH4-8R0.3-20D	8	0.3	20	100	8
TMU30-RH4-8R0.5-20D	8	0.5	20	100	8
TMU30-RH4-8R1-20D	8	1	20	100	8
TMU30-RH4-8R1.5-20D	8	1.5	20	100	8
TMU30-RH4-8R2-20D	8	2	20	100	8
TMU30-RH4-8R2.5-20D	8	2.5	20	100	8
TMU30-RH4-8R3-20D	8	3	20	100	8
TMU30-RH4-10R0.2-30D	10	0.2	30	100	10
TMU30-RH4-10R0.3-30D	10	0.3	30	100	10
TMU30-RH4-10R0.5-30D	10	0.5	30	100	10
TMU30-RH4-10R1-30D	10	1	30	100	10
TMU30-RH4-10R1.5-30D	10	1.5	30	100	10
TMU30-RH4-10R2-30D	10	2	30	100	10
TMU30-RH4-10R2.5-30D	10	2.5	30	100	10
TMU30-RH4-10R3-30D	10	3	30	100	10
TMU30-RH4-10R4-30D	10	4	30	100	10
TMU30-RH4-12R0.2-30D	12	0.2	30	100	12
TMU30-RH4-12R0.3-30D	12	0.3	30	100	12
TMU30-RH4-12R0.5-30D	12	0.5	30	100	12
TMU30-RH4-12R1-30D	12	1	30	100	12
TMU30-RH4-12R1.5-30D	12	1.5	30	100	12
TMU30-RH4-12R2-30D	12	2	30	100	12
TMU30-RH4-12R2.5-30D	12	2.5	30	100	12
TMU30-RH4-12R3-30D	12	3	30	100	12
TMU30-RH4-12R4-30D	12	4	30	100	12
TMU30-RH4-12R5-30D	12	5	30	100	12
TMU30-RH4-8R0.2-30E	8	0.2	30	120	8
TMU30-RH4-8R0.3-30E	8	0.3	30	120	8
TMU30-RH4-8R0.5-30E	8	0.5	30	120	8

Концевая фреза с удлиненным хвостовиком



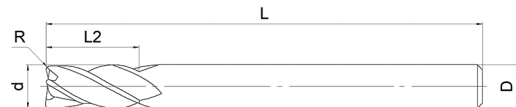
Артикул Tactic	d	R	L2	L	D
TMU30-RH4-8R1-30E	8	1	30	120	8
TMU30-RH4-8R1.5-30E	8	1.5	30	120	8
TMU30-RH4-8R2-30E	8	2	30	120	8
TMU30-RH4-8R2.5-30E	8	2.5	30	120	8
TMU30-RH4-8R3-30E	8	3	30	120	8
TMU30-RH4-10R0.2-30E	10	0.2	30	120	10
TMU30-RH4-10R0.3-30E	10	0.3	30	120	10
TMU30-RH4-10R0.5-30E	10	0.5	30	120	10
TMU30-RH4-10R1-30E	10	1	30	120	10
TMU30-RH4-10R1.5-30E	10	1.5	30	120	10
TMU30-RH4-10R2-30E	10	2	30	120	10
TMU30-RH4-10R2.5-30E	10	2.5	30	120	10
TMU30-RH4-10R3-30E	10	3	30	120	10
TMU30-RH4-10R4-30E	10	4	30	120	10
TMU30-RH4-12R0.2-30E	12	0.2	30	120	12
TMU30-RH4-12R0.3-30E	12	0.3	30	120	12
TMU30-RH4-12R0.5-30E	12	0.5	30	120	12
TMU30-RH4-12R1-30E	12	1	30	120	12
TMU30-RH4-12R1.5-30E	12	1.5	30	120	12
TMU30-RH4-12R2-30E	12	2	30	120	12
TMU30-RH4-12R2.5-30E	12	2.5	30	120	12
TMU30-RH4-12R3-30E	12	3	30	120	12
TMU30-RH4-12R4-30E	12	4	30	120	12
TMU30-RH4-12R5-30E	12	5	30	120	12
TMU30-RH4-6R0.1-30F	6	0.1	30	150	6
TMU30-RH4-6R0.2-30F	6	0.2	30	150	6
TMU30-RH4-6R0.3-30F	6	0.3	30	150	6
TMU30-RH4-6R0.5-30F	6	0.5	30	150	6
TMU30-RH4-6R1-30F	6	1	30	150	6
TMU30-RH4-6R1.5-30F	6	1.5	30	150	6
TMU30-RH4-6R2-30F	6	2	30	150	6
TMU30-RH4-8R0.2-30F	8	0.2	30	150	8
TMU30-RH4-8R0.3-30F	8	0.3	30	150	8
TMU30-RH4-8R0.5-30F	8	0.5	30	150	8
TMU30-RH4-8R1-30F	8	1	30	150	8
TMU30-RH4-8R1.5-30F	8	1.5	30	150	8
TMU30-RH4-8R2-30F	8	2	30	150	8
TMU30-RH4-8R2.5-30F	8	2.5	30	150	8
TMU30-RH4-8R3-30F	8	3	30	150	8
TMU30-RH4-10R0.2-35F	10	0.2	35	150	10
TMU30-RH4-10R0.3-35F	10	0.3	35	150	10
TMU30-RH4-10R0.5-35F	10	0.5	35	150	10
TMU30-RH4-10R1-35F	10	1	35	150	10
TMU30-RH4-10R1.5-35F	10	1.5	35	150	10
TMU30-RH4-10R2-35F	10	2	35	150	10
TMU30-RH4-10R2.5-35F	10	2.5	35	150	10
TMU30-RH4-10R3-35F	10	3	35	150	10
TMU30-RH4-10R4-35F	10	4	35	150	10
TMU30-RH4-12R0.2-35F	12	0.2	35	150	12
TMU30-RH4-12R0.3-35F	12	0.3	35	150	12
TMU30-RH4-12R0.5-35F	12	0.5	35	150	12
TMU30-RH4-12R1-35F	12	1	35	150	12
TMU30-RH4-12R1.5-35F	12	1.5	35	150	12
TMU30-RH4-12R2-35F	12	2	35	150	12

Концевая фреза с удлиненным хвостовиком



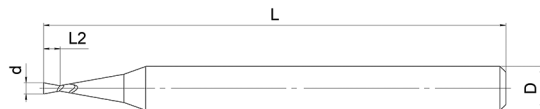
Артикул Tactic	d	R	L2	L	D
TMU30-RH4-12R2.5-35F	12	2.5	35	150	12
TMU30-RH4-12R3-35F	12	3	35	150	12
TMU30-RH4-12R4-35F	12	4	35	150	12
TMU30-RH4-12R5-35F	12	5	35	150	12
TMU30-RH4-14R0.5-40F	14	0.5	40	150	14
TMU30-RH4-14R1-40F	14	1	40	150	14
TMU30-RH4-14R1.5-40F	14	1.5	40	150	14
TMU30-RH4-14R2-40F	14	2	40	150	14
TMU30-RH4-14R2.5-40F	14	2.5	40	150	14
TMU30-RH4-14R3-40F	14	3	40	150	14
TMU30-RH4-14R4-40F	14	4	40	150	14
TMU30-RH4-14R5-40F	14	5	40	150	14
TMU30-RH4-16R0.5-40F	16	0.5	40	150	16
TMU30-RH4-16R1-40F	16	1	40	150	16
TMU30-RH4-16R1.5-40F	16	1.5	40	150	16
TMU30-RH4-16R2-40F	16	2	40	150	16
TMU30-RH4-16R2.5-40F	16	2.5	40	150	16
TMU30-RH4-16R3-40F	16	3	40	150	16
TMU30-RH4-16R4-40F	16	4	40	150	16
TMU30-RH4-16R5-40F	16	5	40	150	16
TMU30-RH4-20R0.5-50F	20	0.5	50	150	20
TMU30-RH4-20R1-50F	20	1	50	150	20
TMU30-RH4-20R1.5-50F	20	1.5	50	150	20
TMU30-RH4-20R2-50F	20	2	50	150	20
TMU30-RH4-20R2.5-50F	20	2.5	50	150	20
TMU30-RH4-20R3-50F	20	3	50	150	20
TMU30-RH4-20R4-50F	20	4	50	150	20
TMU30-RH4-20R5-50F	20	5	50	150	20
TMU30-RH4-6R0.1-30G	6	0.1	30	200	6
TMU30-RH4-6R0.2-30G	6	0.2	30	200	6
TMU30-RH4-6R0.3-30G	6	0.3	30	200	6
TMU30-RH4-6R0.5-30G	6	0.5	30	200	6
TMU30-RH4-6R1-30G	6	1	30	200	6
TMU30-RH4-6R1.5-30G	6	1.5	30	200	6
TMU30-RH4-6R2-30G	6	2	30	200	6
TMU30-RH4-8R0.2-40G	8	0.2	40	200	8
TMU30-RH4-8R0.3-40G	8	0.3	40	200	8
TMU30-RH4-8R0.5-40G	8	0.5	40	200	8
TMU30-RH4-8R1-40G	8	1	40	200	8
TMU30-RH4-8R1.5-40G	8	1.5	40	200	8
TMU30-RH4-8R2-40G	8	2	40	200	8
TMU30-RH4-8R2.5-40G	8	2.5	40	200	8
TMU30-RH4-8R3-40G	8	3	40	200	8
TMU30-RH4-10R0.2-40G	10	0.2	40	200	10
TMU30-RH4-10R0.3-40G	10	0.3	40	200	10
TMU30-RH4-10R0.5-40G	10	0.5	40	200	10
TMU30-RH4-10R1-40G	10	1	40	200	10
TMU30-RH4-10R1.5-40G	10	1.5	40	200	10
TMU30-RH4-10R2-40G	10	2	40	200	10
TMU30-RH4-10R2.5-40G	10	2.5	40	200	10
TMU30-RH4-10R3-40G	10	3	40	200	10
TMU30-RH4-10R4-40G	10	4	40	200	10
TMU30-RH4-12R0.2-40G	12	0.2	40	200	12
TMU30-RH4-12R0.3-40G	12	0.3	40	200	12

Концевая фреза с удлиненным хвостовиком



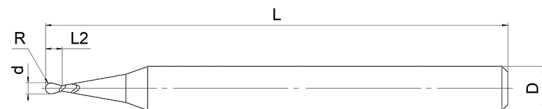
Артикул Tactic	d	R	L2	L	D
TMU30-RH4-12R0.5-40G	12	0.5	40	200	12
TMU30-RH4-12R1-40G	12	1	40	200	12
TMU30-RH4-12R1.5-40G	12	1.5	40	200	12
TMU30-RH4-12R2-40G	12	2	40	200	12
TMU30-RH4-12R2.5-40G	12	2.5	40	200	12
TMU30-RH4-12R3-40G	12	3	40	200	12
TMU30-RH4-12R4-40G	12	4	40	200	12
TMU30-RH4-12R5-40G	12	5	40	200	12
TMU30-RH4-14R0.5-50G	14	0.5	50	200	14
TMU30-RH4-14R1-50G	14	1	50	200	14
TMU30-RH4-14R1.5-50G	14	1.5	50	200	14
TMU30-RH4-14R2-50G	14	2	50	200	14
TMU30-RH4-14R2.5-50G	14	2.5	50	200	14
TMU30-RH4-14R3-50G	14	3	50	200	14
TMU30-RH4-14R4-50G	14	4	50	200	14
TMU30-RH4-14R5-50G	14	5	50	200	14
TMU30-RH4-16R0.5-50G	16	0.5	50	200	16
TMU30-RH4-16R1-50G	16	1	50	200	16
TMU30-RH4-16R1.5-50G	16	1.5	50	200	16
TMU30-RH4-16R2-50G	16	2	50	200	16
TMU30-RH4-16R2.5-50G	16	2.5	50	200	16
TMU30-RH4-16R3-50G	16	3	50	200	16
TMU30-RH4-16R4-50G	16	4	50	200	16
TMU30-RH4-16R5-50G	16	5	50	200	16
TMU30-RH4-20R0.5-50G	20	0.5	50	200	20
TMU30-RH4-20R1-50G	20	1	50	200	20
TMU30-RH4-20R1.5-50G	20	1.5	50	200	20
TMU30-RH4-20R2-50G	20	2	50	200	20
TMU30-RH4-20R2.5-50G	20	2.5	50	200	20
TMU30-RH4-20R3-50G	20	3	50	200	20
TMU30-RH4-20R4-50G	20	4	50	200	20
TMU30-RH4-20R5-50G	20	5	50	200	20

## Концевая микрофреза



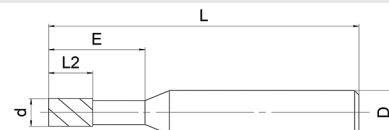
Артикул Tactic	d	L2	L	D
TMU30-ST2-0.05-0.1A	0.05	0.1	50	4
TMU30-ST2-0.06-0.12A	0.06	0.12	50	4
TMU30-ST2-0.07-0.14A	0.07	0.14	50	4
TMU30-ST2-0.08-0.16A	0.08	0.16	50	4
TMU30-ST2-0.09-0.18A	0.09	0.18	50	4
TMU30-ST2-0.1-0.2A	0.1	0.2	50	4
TMU30-ST2-0.15-0.3A	0.15	0.3	50	4
TMU30-ST2-0.2-0.4A	0.2	0.4	50	4
TMU30-ST2-0.3-0.6A	0.3	0.6	50	4
TMU30-ST2-0.4-0.8A	0.4	0.8	50	4
TMU30-ST2-0.5-1A	0.5	1	50	4
TMU30-ST2-0.6-1.2A	0.6	1.2	50	4
TMU30-ST2-0.7-1.4A	0.7	1.4	50	4
TMU30-ST2-0.8-1.6A	0.8	1.6	50	4
TMU30-ST2-0.9-1.8A	0.9	1.8	50	4

Концевая микрофреза  
сферическая



Артикул Tactic	R	L2	L	D
TMU30-BT2-0.05-0.1A	R0.025	0.1	50	4
TMU30-BT2-0.06-0.12A	R0.03	0.12	50	4
TMU30-BT2-0 07-0.14A	R0 035	0.14	50	4
TMU30-BT2-0 08-0.16A	R0 04	0.16	50	4
TMU30-BT2-0.09-0.18A	R0.045	0.18	50	4
TMU30-BT2-0.1-0.2A	R0.05	0.2	50	4
TMU30-BT2-0.12-0.24A	R0.06	0.24	50	4
TMU30-BT2-0.14-0.28A	R0.07	0.28	50	4
TMU30-BT2-0.16-0.32A	R0.08	0.32	50	4
TMU30-BT2-0.18-0.36A	R0.09	0.36	50	4
TMU30-BT2-0.2-0.4A	R0.10	0.4	50	4
TMU30-BT2-0.3-0.6A	R0.15	0.6	50	4
TMU30-BT2-0.4-0.8A	R0.20	0.8	50	4
TMU30-BT2-0.5-1A	R0.25	1	50	4
TMU30-BT2-0.6-1.2A	R0.30	1.2	50	4
TMU30-BT2-0.7-1.4A	R0.35	1.4	50	4
TMU30-BT2-0.8-1.6A	R0.40	1.6	50	4
TMU30-BT2-0.9-1.8A	R0.45	1.8	50	4

## Концевая микрофреза с обнижением



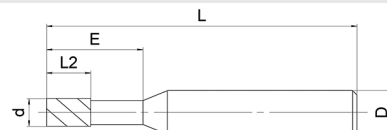
Артикул Tactic	d	L2	E	L	D
TMU30-SN2-0.05-0.05N0.5A	0.05	0.05	0.5	50	4
TMU30-SN2-0.05-0.05N1A	0.05	0.05	1	50	4
TMU30-SN2-0.06-0.06N0.5A	0.06	0.06	0.5	50	4
TMU30-SN2-0.06-0.06N1A	0.06	0.06	1	50	4
TMU30-SN2-0.07-0.07N0.5A	0.07	0.07	0.5	50	4
TMU30-SN2-0.07-0.07N1A	0.07	0.07	1	50	4
TMU30-SN2-0.08-0.08N0.5A	0.08	0.08	0.5	50	4
TMU30-SN2-0.08-0.08N1A	0.08	0.08	1	50	4
TMU30-SN2-0.09-0.09N0.5A	0.09	0.09	0.5	50	4
TMU30-SN2-0.09-0.09N1A	0.09	0.09	1	50	4
TMU30-SN2-0.1-0.1N0.5A	0.1	0.1	0.5	50	4
TMU30-SN2-0.1-0.1N1A	0.1	0.1	1	50	4
TMU30-SN2-0.1-0.1N1.5A	0.1	0.1	1.5	50	4
TMU30-SN2-0.1-0.1N2A	0.1	0.1	2	50	4
TMU30-SN2-0.15-0.15N0.5A	0.15	0.15	0.5	50	4
TMU30-SN2-0.15-0.15N1A	0.15	0.15	1	50	4
TMU30-SN2-0.15-0.15N1.5A	0.15	0.15	1.5	50	4
TMU30-SN2-0.15-0.15N2A	0.15	0.15	2	50	4
TMU30-SN2-0.2-0.2N1A	0.2	0.2	1	50	4
TMU30-SN2-0.2-0.2N2A	0.2	0.2	2	50	4
TMU30-SN2-0.2-0.2N3A	0.2	0.2	3	50	4
TMU30-SN2-0.2-0.2N4A	0.2	0.2	4	50	4
TMU30-SN2-0.25-0.25N2A	0.25	0.25	2	50	4
TMU30-SN2-0.25-0.25N3A	0.25	0.25	3	50	4
TMU30-SN2-0.25-0.25N4A	0.25	0.25	4	50	4
TMU30-SN2-0.3-0.3N2A	0.3	0.3	2	50	4
TMU30-SN2-0.3-0.3N3A	0.3	0.3	3	50	4
TMU30-SN2-0.3-0.3N4A	0.3	0.3	4	50	4
TMU30-SN2-0.3-0.3N6A	0.3	0.3	6	50	4
TMU30-SN2-0.4-0.4N2A	0.4	0.4	2	50	4
TMU30-SN2-0.4-0.4N3A	0.4	0.4	3	50	4
TMU30-SN2-0.4-0.4N4A	0.4	0.4	4	50	4
TMU30-SN2-0.4-0.4N6A	0.4	0.4	6	50	4
TMU30-SN2-0.5-0.5N2A	0.5	0.5	2	50	4
TMU30-SN2-0.5-0.5N3A	0.5	0.5	3	50	4
TMU30-SN2-0.5-0.5N4A	0.5	0.5	4	50	4
TMU30-SN2-0.5-0.5N6A	0.5	0.5	6	50	4
TMU30-SN2-0.5-0.5N8A	0.5	0.5	8	50	4
TMU30-SN2-0.5-0.5N10A	0.5	0.5	10	50	4
TMU30-SN2-0.5-0.5N12A	0.5	0.5	12	50	4
TMU30-SN2-0.6-0.6N2A	0.6	0.6	2	50	4
TMU30-SN2-0.6-0.6N3A	0.6	0.6	3	50	4
TMU30-SN2-0.6-0.6N4A	0.6	0.6	4	50	4
TMU30-SN2-0.6-0.6N6A	0.6	0.6	6	50	4
TMU30-SN2-0.6-0.6N8A	0.6	0.6	8	50	4
TMU30-SN2-0.6-0.6N10A	0.6	0.6	10	50	4
TMU30-SN2-0.6-0.6N12A	0.6	0.6	12	50	4
TMU30-SN2-0.7-0.7N3A	0.7	0.7	3	50	4
TMU30-SN2-0.7-0.7N4A	0.7	0.7	4	50	4
TMU30-SN2-0.7-0.7N6A	0.7	0.7	6	50	4
TMU30-SN2-0.7-0.7N8A	0.7	0.7	8	50	4
TMU30-SN2-0.7-0.7N10A	0.7	0.7	10	50	4
TMU30-SN2-0.7-0.7N12A	0.7	0.7	12	50	4
TMU30-SN2-0.8-0.8N3A	0.8	0.8	3	50	4

# TMU30

ФРЕЗЫ ДЛЯ СТАНДАРТНОЙ ОБРАБОТКИ НЕРЖАВЕЮЩИХ СТАЛЕЙ

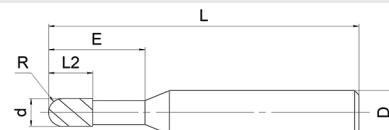
TACTIC

Концевая микрофреза  
с обнижением



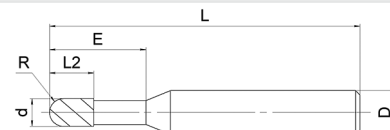
Артикул Tactic	d	L2	E	L	D
TMU30-SN2-0.8-0.8N4A	0.8	0.8	4	50	4
TMU30-SN2-0.8-0.8N6A	0.8	0.8	6	50	4
TMU30-SN2-0.8-0.8N8A	0.8	0.8	8	50	4
TMU30-SN2-0.8-0.8N10A	0.8	0.8	10	50	4
TMU30-SN2-0.8-0.8N12A	0.8	0.8	12	50	4
TMU30-SN2-0.9-0.9N3A	0.9	0.9	3	50	4
TMU30-SN2-0.9-0.9N4A	0.9	0.9	4	50	4
TMU30-SN2-0.9-0.9N6A	0.9	0.9	6	50	4
TMU30-SN2-0.9-0.9N8A	0.9	0.9	8	50	4
TMU30-SN2-0.9-0.9N10A	0.9	0.9	10	50	4
TMU30-SN2-0.9-0.9N12A	0.9	0.9	12	50	4

Концевая микрофреза  
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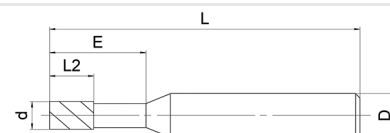
Артикул Tactic	R	L2	E	L	D
TMU30-BN2-0.1-0.1N0.3A	R0.05	0.1	0.3	50	4
TMU30-BN2-0.1-0.1N0.5A	R0.05	0.1	0.5	50	4
TMU30-BN2-0.1-0.1N1A	R0.05	0.1	1	50	4
TMU30-BN2-0.15-0.15N0.3A	R0.075	0.15	0.3	50	4
TMU30-BN2-0.15-0.15N0.5A	R0.075	0.15	0.5	50	4
TMU30-BN2-0.15-0.15N1A	R0.075	0.15	1	50	4
TMU30-BN2-0.2-0.2N0.5A	R0.1	0.2	0.5	50	4
TMU30-BN2-0.2-0.2N1A	R0.1	0.2	1	50	4
TMU30-BN2-0.2-0.2N1.5A	R0.1	0.2	1.5	50	4
TMU30-BN2-0.2-0.2N2A	R0.1	0.2	2	50	4
TMU30-BN2-0.3-0.3N1A	R0.15	0.3	1	50	4
TMU30-BN2-0.3-0.3N1.5A	R0.15	0.3	1.5	50	4
TMU30-BN2-0.3-0.3N2A	R0.15	0.3	2	50	4
TMU30-BN2-0.3-0.3N3A	R0.15	0.3	3	50	4
TMU30-BN2-0.3-0.3N4A	R0.15	0.3	4	50	4
TMU30-BN2-0.4-0.4N2A	R0.2	0.4	2	50	4
TMU30-BN2-0.4-0.4N3A	R0.2	0.4	3	50	4
TMU30-BN2-0.4-0.4N4A	R0.2	0.4	4	50	4
TMU30-BN2-0.4-0.4N6A	R0.2	0.4	6	50	4
TMU30-BN2-0.5-0.5N2A	R0.25	0.5	2	50	4
TMU30-BN2-0.5-0.5N3A	R0.25	0.5	3	50	4
TMU30-BN2-0.5-0.5N4A	R0.25	0.5	4	50	4
TMU30-BN2-0.5-0.5N6A	R0.25	0.5	6	50	4
TMU30-BN2-0.5-0.5N8A	R0.25	0.5	8	50	4
TMU30-BN2-0.6-0.6N3A	R0.3	0.6	3	50	4
TMU30-BN2-0.6-0.6N4A	R0.3	0.6	4	50	4
TMU30-BN2-0.6-0.6N6A	R0.3	0.6	6	50	4
TMU30-BN2-0.6-0.6N8A	R0.3	0.6	8	50	4
TMU30-BN2-0.6-0.6N10A	R0.3	0.6	10	50	4
TMU30-BN2-0.6-0.6N12A	R0.3	0.6	12	50	4
TMU30-BN2-0.7-0.7N2A	R0.35	0.7	2	50	4
TMU30-BN2-0.7-0.7N3A	R0.35	0.7	3	50	4
TMU30-BN2-0.7-0.7N4A	R0.35	0.7	4	50	4
TMU30-BN2-0.7-0.7N6A	R0.35	0.7	6	50	4
TMU30-BN2-0.7-0.7N8A	R0.35	0.7	8	50	4
TMU30-BN2-0.7-0.7N10A	R0.35	0.7	10	50	4
TMU30-BN2-0.7-0.7N12A	R0.35	0.7	12	50	4
TMU30-BN2-0.8-0.8N2A	R0.4	0.8	2	50	4
TMU30-BN2-0.8-0.8N3A	R0.4	0.8	3	50	4
TMU30-BN2-0.8-0.8N4A	R0.4	0.8	4	50	4
TMU30-BN2-0.8-0.8N6A	R0.4	0.8	6	50	4
TMU30-BN2-0.8-0.8N8A	R0.4	0.8	8	50	4
TMU30-BN2-0.8-0.8N10A	R0.4	0.8	10	50	4
TMU30-BN2-0.8-0.8N12A	R0.4	0.8	12	50	4
TMU30-BN2-0.9-0.9N4A	R0.45	0.9	4	50	4
TMU30-BN2-0.9-0.9N6A	R0.45	0.9	6	50	4
TMU30-BN2-0.9-0.9N8A	R0.45	0.9	8	50	4
TMU30-BN2-0.9-0.9N10A	R0.45	0.9	10	50	4
TMU30-BN2-0.9-0.9N12A	R0.45	0.9	12	50	4
TMU30-BN2-1-1N4A	R0.5	1	4	50	4
TMU30-BN2-1-1N6A	R0.5	1	6	50	4
TMU30-BN2-1-1N8A	R0.5	1	8	50	4
TMU30-BN2-1-1N10A	R0.5	1	10	50	4
TMU30-BN2-1-1N12A	R0.5	1	12	50	4

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Артикул Tactic	R	L2	E	L	D
TMU30-BN2-1-1N16A	R0.5	1	16	50	4
TMU30-BN2-1-1N20A	R0.5	1	20	50	4
TMU30-BN2-1.5-1.5N4A	R0.75	1.5	4	50	4
TMU30-BN2-1.5-1.5N6A	R0.75	1.5	6	50	4
TMU30-BN2-1.5-1.5N8A	R0.75	1.5	8	50	4
TMU30-BN2-1.5-1.5N10A	R0.75	1.5	10	50	4
TMU30-BN2-1.5-1.5N12A	R0.75	1.5	12	50	4
TMU30-BN2-1.5-1.5N16A	R0.75	1.5	16	50	4
TMU30-BN2-1.5-1.5N20A	R0.75	1.5	20	50	4
TMU30-BN2-2-2N6A	R1.0	2	6	50	4
TMU30-BN2-2-2N8A	R1.0	2	8	50	4
TMU30-BN2-2-2N10A	R1.0	2	10	50	4
TMU30-BN2-2-2N12A	R1.0	2	12	50	4
TMU30-BN2-2-2N16A	R1.0	2	16	50	4
TMU30-BN2-2-2N20A	R1.0	2	20	50	4
TMU30-BN2-3-3N8A	R1.5	3	8	50	4
TMU30-BN2-3-3N10A	R1.5	3	10	50	4
TMU30-BN2-3-3N12A	R1.5	3	12	50	4
TMU30-BN2-3-3N16A	R1.5	3	16	50	4
TMU30-BN2-3-3N20A	R1.5	3	20	50	4
TMU30-BN2-3-3N10B	R1.5	3	10	60	6
TMU30-BN2-3-3N12B	R1.5	3	12	60	6
TMU30-BN2-3-3N16B	R1.5	3	16	60	6
TMU30-BN2-3-3N20B	R1.5	3	20	60	6
TMU30-BN2-3-3N30C	R1.5	3	30	75	6
TMU30-BN2-4-4N10B	R2.0	4	10	60	6
TMU30-BN2-4-4N12B	R2.0	4	12	60	6
TMU30-BN2-4-4N16B	R2.0	4	16	60	6
TMU30-BN2-4-4N20B	R2.0	4	20	60	6
TMU30-BN2-4-4N30C	R2.0	4	30	75	6

Концевая микрофреза  
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Артикул Tactic	d	L2	E	L	D
TMU30-SN4-1-1.2N4A	1	1.2	4	50	4
TMU30-SN4-1-1.2N6A	1	1.2	6	50	4
TMU30-SN4-1-1.2N8A	1	1.2	8	50	4
TMU30-SN4-1-1.2N10A	1	1.2	10	50	4
TMU30-SN4-1-1.2N12A	1	1.2	12	50	4
TMU30-SN4-1-1.2N16A	1	1.2	16	50	4
TMU30-SN4-1-1.2N20A	1	1.2	20	50	4
TMU30-SN4-1.5-1.8N6A	1.5	1.8	6	50	4
TMU30-SN4-1.5-1.8N8A	1.5	1.8	8	50	4
TMU30-SN4-1.5-1.8N10A	1.5	1.8	10	50	4
TMU30-SN4-1.5-1.8N12A	1.5	1.8	12	50	4
TMU30-SN4-1.5-1.8N16A	1.5	1.8	16	50	4
TMU30-SN4-1.5-1.8N20A	1.5	1.8	20	50	4
TMU30-SN4-2-2.4N8A	2	2.4	8	50	4
TMU30-SN4-2-2.4N10A	2	2.4	10	50	4
TMU30-SN4-2-2.4N12A	2	2.4	12	50	4
TMU30-SN4-2-2.4N16A	2	2.4	16	50	4
TMU30-SN4-2-2.4N20A	2	2.4	20	50	4
TMU30-SN4-2.5-3N10A	2.5	3	10	50	4
TMU30-SN4-2.5-3N12A	2.5	3	12	50	4
TMU30-SN4-2.5-3N16A	2.5	3	16	50	4
TMU30-SN4-2.5-3N20A	2.5	3	20	50	4
TMU30-SN4-3-3.6N10A	3	3.6	10	50	4
TMU30-SN4-3-3.6N12A	3	3.6	12	50	4
TMU30-SN4-3-3.6N16A	3	3.6	16	50	4
TMU30-SN4-3-3.6N20A	3	3.6	20	50	4
TMU30-SN4-3-3.6N10B	3	3.6	10	60	6
TMU30-SN4-3-3.6N12B	3	3.6	12	60	6
TMU30-SN4-3-3.6N16B	3	3.6	16	60	6
TMU30-SN4-3-3.6N20B	3	3.6	20	60	6
TMU30-SN4-3-3.6N30C	3	3.6	30	75	6
TMU30-SN4-4-4.8N10B	4	4.8	10	60	6
TMU30-SN4-4-4.8N12B	4	4.8	12	60	6
TMU30-SN4-4-4.8N16B	4	4.8	16	60	6
TMU30-SN4-4-4.8N20B	4	4.8	20	60	6
TMU30-SN4-4-4.8N30C	4	4.8	30	75	6

### Нержавеющие стали

Плоский торец	Начальные данные							
	Обработка торцов				Обработка стенок			
	f (мм/мин)	S (об/мин)	ae (мм)	ap (мм)	f (мм/мин)	S (об/мин)	ae (мм)	ap (мм)
D1.0	850	7000	0.3	0.03	820	7500	0.02	1.5
D2.0	980	6500	0.6	0.06	950	7000	0.04	3
D3.0	1150	6200	0.8	0.09	1050	6800	0.06	4.5
D4.0	1450	5800	1.2	0.12	1350	6500	0.08	6
D6.0	1800	5500	1.8	0.18	1600	6350	0.12	9
D8.0	2000	4000	2.4	0.24	1800	5500	0.16	12
D10.0	2250	3400	3.0	0.3	2100	4000	0.2	15
D12.0	2000	3000	3.6	0.36	1950	3500	0.24	18
D14.0	1850	2750	4.2	0.42	1780	3000	0.28	21
D16.0	1650	2450	4.8	0.48	1650	2800	0.32	24
D18.0	1450	2250	5.4	0.54	1350	2650	0.36	27
D20.0	1200	2000	6.0	0.6	1100	2200	0.4	30

### Нержавеющие стали

Сферическая	Начальные данные							
	Профильная обработка				Обработка пазов			
	f (мм/мин)	S (об/мин)	ae (мм)	ap (мм)	f (мм/мин)	S (об/мин)	ae (мм)	ap (мм)
R0.5	850	8000	0.02	0.02	920	8000	0	0.02
R0.75	1020	7500	0.023	0.038	1100	7500	0	0.04
R1.0	1250	7000	0.03	0.05	1200	7000	0	0.06
R1.5	1400	6500	0.045	0.075	1450	6500	0	0.08
R2.0	1550	6000	0.06	0.1	1600	6200	0	0.1
R3.0	1700	5500	0.075	0.125	2000	5800	0	0.12
R4.0	2000	4500	0.09	0.15	2150	4750	0	0.12
R5.0	2200	4000	0.12	0.16	2350	4200	0	0.15
R6.0	2200	3750	0.15	0.18	2350	3850	0	0.18
R7.0	2150	3500	0.18	0.2	2200	3650	0	0.2
R8.0	2000	3000	0.24	0.22	2100	3200	0	0.22
R10.0	2000	2500	0.28	0.25	2000	2600	0	0.25

### Нержавеющие стали

Радиус при вершине	Начальные данные							
	Обработка торцов				Обработка стенок			
	f (мм/мин)	S (об/мин)	ae (мм)	ap (мм)	f (мм/мин)	S (об/мин)	ae (мм)	ap (мм)
D1R0.2	900	7500	0.35	0.025	850	8000	0.02	1.8
D2R0.5	1200	7000	0.7	0.05	1000	7500	0.04	3.6
D3R0.5	1450	6500	1.05	0.075	1500	7000	0.06	5.4
D4R0.5	1750	6000	1.4	0.1	1600	6500	0.08	7.2
D6R0.5	2000	5800	2.1	0.15	1800	6000	0.12	10.8
D8R0.5	2200	5500	2.8	0.2	2100	5800	0.16	14.4
D10R0.5	2400	4500	3.5	0.25	2250	5000	0.2	18
D12R0.5	2150	3500	4.2	0.3	1900	4500	0.24	21.6
D16R0.5	1700	3000	5.6	0.4	1750	3500	0.32	28.8
D18R0.5	1550	2500	6.3	0.45	1400	3000	0.36	32.4
D20R0.5	1350	2300	7	0.5	1200	2500	0.4	36
R10.0	2500	3000	0.2	0.25	1800	4000	0	0.25

### Нержавеющие стали

Микрофрезы с плоским торцом	Начальные данные	Обработка торцов		
		f (мм/мин)	S (об/мин)	ap (мм)
		0.1	100	20000
0.2	150	20000	0.008	
0.3	180	20000	0.01	
0.4	200	18000	0.01	
0.5	300	16000	0.015	
0.6	350	15000	0.02	
0.7	400	12000	0.025	
0.8	500	11000	0.03	
0.9	650	10000	0.03	

Стандартная  
длина  
рабочей  
части

### Нержавеющие стали

Микрофрезы сферические	Начальные данные	Обработка торцов		
		f (мм/мин)	S (об/мин)	ap (мм)
		R0.1	150	20000
R0.15	180	20000	0.009	
R0.2	200	20000	0.012	
R0.25	250	18000	0.015	
R0.3	300	18000	0.018	
R0.35	400	16000	0.02	
R0.4	550	14000	0.02	
R0.45	600	13000	0.025	

Стандартная  
длина  
рабочей  
части

Нержавеющие стали				
Микрофрезы с плоским торцом для глубоких пазов		Начальные данные		
		Обработка торцов		
		f (мм/мин)	S (об/мин)	ap (мм)
0.1	Короткая рабочая часть с обнижением	80	20000	0.005
0.2		100	20000	0.006
0.3		160	18000	0.008
0.4		180	18000	0.01
0.5		200	15000	0.01
0.6		300	15000	0.012
0.7		350	12000	0.015
0.8		450	10000	0.018
0.9		500	10000	0.02

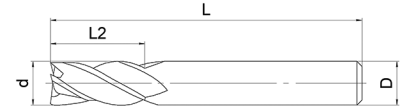
Нержавеющие стали				
Микрофрезы сферические для глубоких пазов		Начальные данные		
		Обработка торцов		
		f (мм/мин)	S (об/мин)	ap (мм)
R0.1	Короткая рабочая часть с обнижением	120	20000	0.005
R0.15		150	20000	0.006
R0.2		180	18000	0.008
R0.25		200	15000	0.01
R0.3		250	15000	0.012
R0.35		300	15000	0.015
R0.4		400	12000	0.018
R0.45		500	12000	0.02

# TSS30

Концевые фрезы для высокопроизводительной обработки  
нержавеющих сталей и жаропрочных сплавов

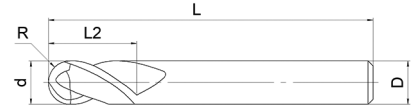


## Концевая фреза



Артикул Tactic	d	L2	L	D
TSS30-ST4-1-3A	1	3	50	4
TSS30-ST4-2-6A	2	6	50	4
TSS30-ST4-3-8A	3	8	50	4
TSS30-ST4-4-11A	4	11	50	4
TSS30-ST4-4-11A-S6	4	11	50	6
TSS30-ST4-5-13A	5	13	50	6
TSS30-ST4-6-15A	6	15	50	6
TSS30-ST4-8-15B	8	15	60	8
TSS30-ST4-10-25C	10	25	75	10
TSS30-ST4-12-30C	12	30	75	12
TSS30-ST4-16-35D	16	35	100	16
TSS30-ST4-20-40D	20	40	100	20

## Концевая фреза



Артикул Tactic	R	L2	L	D
TSS30-BT4-4-8A	R2	8	50	6
TSS30-BT4-6-9A	R3	9	50	6
TSS30-BT4-8-12B	R4	12	60	8
TSS30-BT4-10-15C	R5	15	75	10
TSS30-BT4-12-18C	R6	18	75	12
TSS30-BT4-16-24D	R8	24	100	16
TSS30-BT4-20-30D	R10	30	100	20

## Концевая фреза



Артикул Tactic	d	R	L2	L	D
TSS30-RT4-1R0.2-3A	1	0.2	3	50	4
TSS30-RT4-2R0.2-6A	2	0.2	6	50	4
TSS30-RT4-3R0.5-8A	3	0.5	8	50	4
TSS30-RT4-4R0.5-11A	4	0.5	11	50	4
TSS30-RT4-4R0.5-11A-S6	4	0.5	11	50	6
TSS30-RT4-5R0.5-13A	5	0.5	13	50	6
TSS30-RT4-6R0.5-15A	6	0.5	15	50	6
TSS30-RT4-6R1-15A	6	1	15	50	6
TSS30-RT4-8R0.5-20B	8	0.5	20	60	8
TSS30-RT4-8R1-20B	8	1	20	60	8
TSS30-RT4-8R2-20B	8	2	20	60	8
TSS30-RT4-10R0.5-25C	10	0.5	25	75	10
TSS30-RT4-10R1-25C	10	1	25	75	10
TSS30-RT4-10R2-25C	10	2	25	75	10
TSS30-RT4-12R0.5-30C	12	0.5	30	75	12
TSS30-RT4-12R1-30C	12	1	30	75	12
TSS30-RT4-12R2-30C	12	2	30	75	12
TSS30-RT4-12R3-30C	12	3	30	75	12
TSS30-RT4-16R0.5-35D	16	0.5	35	100	16
TSS30-RT4-16R1-35D	16	1	35	100	16
TSS30-RT4-16R2-35D	16	2	35	100	16
TSS30-RT4-16R3-35D	16	3	35	100	16
TSS30-RT4-20R0.5-40D	20	0.5	40	100	20
TSS30-RT4-20R1-40D	20	1	40	100	20
TSS30-RT4-20R2-40D	20	2	40	100	20
TSS30-RT4-20R3-40D	20	3	40	100	20

## Нержавеющие стали

Плоский торец	Начальные данные							
	Обработка торцов				Обработка стенок			
	f (мм/мин)	S (об/мин)	ae (мм)	ap (мм)	f (мм/мин)	S (об/мин)	ae (мм)	ap (мм)
D1.0	950	10000	0.6	0.03	520	12000	0.04	2
D2.0	1200	9850	1.2	0.06	800	10600	0.08	4
D3.0	1800	8000	1.8	0.09	1100	8500	0.12	6
D4.0	2500	7500	2.4	0.12	1500	7850	0.16	8
D6.0	3000	6000	3.6	0.18	2000	6400	0.24	12
D8.0	3000	3650	4.8	0.24	2500	4000	0.32	16
D10.0	3200	2800	6.0	0.3	2500	3200	0.4	20
D12.0	2800	2400	7.2	0.36	1850	2700	0.48	24
D16.0	2200	2000	9.6	0.48	1200	2000	0.64	32
D20.0	2000	1800	12	0.6	1100	1800	0.8	40

## Титановые сплавы

Плоский торец	Начальные данные							
	Обработка торцов				Обработка стенок			
	f (мм/мин)	S (об/мин)	ae (мм)	ap (мм)	f (мм/мин)	S (об/мин)	ae (мм)	ap (мм)
D1.0	500	9000	0.5	0.05	480	9500	0.05	2
D2.0	750	7000	1	0.1	700	7500	0.1	4
D3.0	1050	6200	1.5	0.15	950	6500	0.15	6
D4.0	1200	4600	2	0.2	1100	5000	0.2	8
D6.0	1350	3300	3	0.3	1200	3500	0.3	12
D8.0	1500	2800	4	0.4	1350	3000	0.4	16
D10.0	1500	2400	5	0.5	1350	2600	0.5	20
D12.0	1350	2000	6	0.6	1000	2200	0.6	24
D16.0	1100	1800	8	0.8	950	1800	0.8	32
D20.0	1000	1600	10	1	800	1600	1	40

## Нержавеющие стали

Сферическая	Начальные данные							
	Профильная обработка				Обработка пазов			
	f (мм/мин)	S (об/мин)	ae (мм)	ap (мм)	f (мм/мин)	S (об/мин)	ae (мм)	ap (мм)
R2.0	1200	10000	0.15	0.15	1500	11000	0	0.15
R3.0	1800	9400	0.2	0.2	2200	9800	0	0.2
R4.0	2100	8200	0.25	0.25	2800	9000	0	0.25
R5.0	2500	7600	0.3	0.3	3200	8000	0	0.3
R6.0	2200	7000	0.35	0.35	3000	7250	0	0.35
R8.0	2000	6200	0.4	0.4	2600	6500	0	0.4
R10.0	1800	5200	0.5	0.5	2200	5500	0	0.5

## Титановые сплавы

Сферическая	Начальные данные							
	Профильная обработка				Обработка пазов			
	f (мм/мин)	S (об/мин)	ae (мм)	ap (мм)	f (мм/мин)	S (об/мин)	ae (мм)	ap (мм)
R2.0	1000	9500	0.2	0.2	1200	10000	0	0.2
R3.0	1500	8800	0.25	0.25	2000	9000	0	0.25
R4.0	1800	7850	0.3	0.3	2500	8500	0	0.3
R5.0	2200	7200	0.35	0.35	3000	7500	0	0.35
R6.0	2000	6600	0.4	0.4	2800	6500	0	0.4
R8.0	1600	5800	0.5	0.5	2400	6000	0	0.5
R10.0	1500	4800	0.6	0.6	2000	4500	0	0.6

## Нержавеющие стали

Радиус при вершине	Начальные данные							
	Обработка торцов				Обработка стенок			
	f (мм/мин)	S (об/мин)	ae (мм)	ap (мм)	f (мм/мин)	S (об/мин)	ae (мм)	ap (мм)
D1R0.2	500	11500	0.5	0.05	520	12000	0.04	2
D2R0.5	750	10000	1	0.1	800	10600	0.08	4
D3R0.5	1050	8800	1.5	0.15	1100	8500	0.12	6
D4R0.5	1200	8000	2	0.2	1500	7850	0.16	8
D6R0.5	1350	6500	3	0.3	2000	6400	0.24	12
D8R0.5	1500	4500	4	0.4	2500	4000	0.32	16
D10R0.5	1500	3500	5	0.5	2500	3200	0.4	20
D12R0.5	1350	3000	6	0.6	1850	2700	0.48	24
D16R0.5	1100	2200	8	0.8	1200	2000	0.64	32
D20R0.5	1000	2000	10	1	1100	1800	0.8	40

## Титановые сплавы

Радиус при вершине	Начальные данные							
	Обработка торцов				Обработка стенок			
	f (мм/мин)	S (об/мин)	ae (мм)	ap (мм)	f (мм/мин)	S (об/мин)	ae (мм)	ap (мм)
D1R0.2	500	10400	0.5	0.06	480	9500	0.05	2
D2R0.5	700	9650	1	0.12	700	7500	0.1	4
D3R0.5	1000	8000	1.5	0.18	950	6500	0.15	6
D4R0.5	1000	7200	2	0.24	1100	5000	0.2	8
D6R0.5	1200	5800	3	0.36	1200	3500	0.3	12
D8R0.5	1350	3750	4	0.48	1350	3000	0.4	16
D10R0.5	1350	3000	5	0.6	1350	2600	0.5	20
D12R0.5	1150	2500	6	0.72	1000	2200	0.6	24
D16R0.5	950	2000	8	0.96	950	1800	0.8	32
D20R0.5	800	1800	10	1.2	800	1600	1	40

# TSU30

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Фрезы для стандартной обработки титановых сплавов

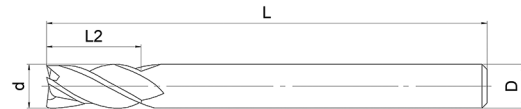


## Концевая фреза



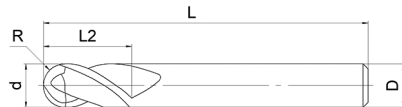
Артикул Tactic	d	L2	L	D
TSU30-ST4-1-3A	1	3	50	4
TSU30-ST4-1.5-4.5A	1.5	4.5	50	4
TSU30-ST4-2-6A	2	6	50	4
TSU30-ST4-2.5-7A	2.5	7	50	4
TSU30-ST4-3-8A	3	8	50	4
TSU30-ST4-3.5-10A	3.5	10	50	4
TSU30-ST4-4-11A	4	11	50	4
TSU30-ST4-4.5-13A	4.5	13	50	6
TSU30-ST4-5-13A	5	13	50	6
TSU30-ST4-5.5-13A	5.5	13	50	6
TSU30-ST4-6-15A	6	15	50	6
TSU30-ST4-6.5-17B	6.5	17	60	8
TSU30-ST4-7-17B	7	17	60	8
TSU30-ST4-7.5-17B	7.5	17	60	8
TSU30-ST4-8-20B	8	20	60	8
TSU30-ST4-8.5-23C	8.5	23	75	10
TSU30-ST4-9-23C	9	23	75	10
TSU30-ST4-9.5-25C	9.5	25	75	10
TSU30-ST4-10-25C	10	25	75	10
TSU30-ST4-10.5-25C	10.5	25	75	12
TSU30-ST4-11-28C	11	28	75	12
TSU30-ST4-11.5-28C	11.5	28	75	12
TSU30-ST4-12-30C	12	30	75	12
TSU30-ST4-13-33D	13	33	100	14
TSU30-ST4-14-35D	14	35	100	14
TSU30-ST4-15-38D	15	38	100	16
TSU30-ST4-16-40D	16	40	100	16
TSU30-ST4-17-40D	17	40	100	18
TSU30-ST4-18-40D	18	40	100	18
TSU30-ST4-19-40D	19	40	100	20
TSU30-ST4-20-40D	20	40	100	20
TSU30-ST4-22-40D	22	40	100	25
TSU30-ST4-25-40D	25	40	100	25

Концевая фреза  
с удлиненным хвостовиком



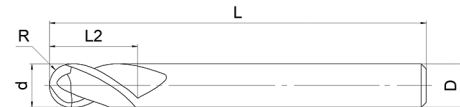
Артикул Tactic	d	L2	L	D
TSU30-SH4-1-3C	1	3	75	4
TSU30-SH4-1.5-4.5C	1.5	4.5	75	4
TSU30-SH4-2-6C	2	6	75	4
TSU30-SH4-2.5-7C	2.5	7	75	4
TSU30-SH4-3-8C	3	8	75	4
TSU30-SH4-3.5-10C	3.5	10	75	4
TSU30-SH4-4-11C	4	11	75	4
TSU30-SH4-4.5-13C	4.5	13	75	6
TSU30-SH4-5-15C	5	15	75	6
TSU30-SH4-5.5-15C	5.5	15	75	6
TSU30-SH4-6-15C	6	15	75	6
TSU30-SH4-6.5-17C	6.5	17	75	8
TSU30-SH4-7-17C	7	17	75	8
TSU30-SH4-7.5-17C	7.5	17	75	8
TSU30-SH4-8-20C	8	20	75	8
TSU30-SH4-3-8D	3	8	100	4
TSU30-SH4-4-11D	4	11	100	4
TSU30-SH4-5-15D	5	15	100	6
TSU30-SH4-6-15D	6	15	100	6
TSU30-SH4-7-17D	7	17	100	8
TSU30-SH4-8-20D	8	20	100	8
TSU30-SH4-9-23D	9	23	100	10
TSU30-SH4-10-30D	10	30	100	10
TSU30-SH4-11-30D	11	30	100	12
TSU30-SH4-12-30D	12	30	100	12
TSU30-SH4-10-40E	10	40	120	10
TSU30-SH4-12-45E	12	45	120	12
TSU30-SH4-8-40F	8	40	150	8
TSU30-SH4-10-50F	10	50	150	10
TSU30-SH4-12-50F	12	50	150	12
TSU30-SH4-16-65F	16	65	150	16
TSU30-SH4-18-65F	18	65	150	18
TSU30-SH4-20-75F	20	75	150	20
TSU30-SH4-10-60G	10	60	200	10
TSU30-SH4-12-80G	12	80	200	12
TSU30-SH4-16-80G	16	80	200	16
TSU30-SH4-20-100G	20	100	200	20

Концевая фреза  
сферическая



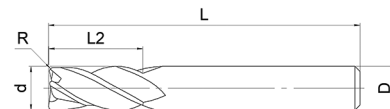
Артикул Tactic	R	L2	L	D
TSU30-BT2-1-2A	R0.50	2	50	4
TSU30-BT2-1.5-3A	R0.75	3	50	4
TSU30-BT2-2-4A	R1.00	4	50	4
TSU30-BT2-2.5-5A	R1.25	5	50	4
TSU30-BT2-3-6A	R1.50	6	50	4
TSU30-BT2-3.5-7A	R1.75	7	50	4
TSU30-BT2-4-8A	R2.00	8	50	4
TSU30-BT2-4.5-9A	R2.25	9	50	6
TSU30-BT2-5-10A	R2.50	10	50	6
TSU30-BT2-5.5-11A	R2.75	11	50	6
TSU30-BT2-6-12A	R3.00	12	50	6
TSU30-BT2-6.5-13B	R3.25	13	60	8
TSU30-BT2-7-14B	R3.50	14	60	8
TSU30-BT2-7.5-15B	R3.75	15	60	8
TSU30-BT2-8-16B	R4.00	16	60	8
TSU30-BT2-9-18C	R4.50	18	75	10
TSU30-BT2-10-20C	R5.00	20	75	10
TSU30-BT2-12-24C	R6.00	24	75	12
TSU30-BT2-16-32D	R8.00	32	100	16
TSU30-BT2-20-40D	R10.0	40	100	20
TSU30-BT2-25-50D	R12.5	50	100	25

Концевая фреза сферическая  
с удлиненным хвостовиком



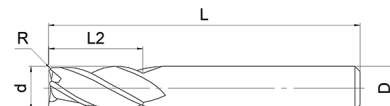
Артикул Tactic	R	L2	L	D
TSU30-BH2-1-2C	R0.50	2	75	4
TSU30-BH2-1.5-3C	R0.75	3	75	4
TSU30-BH2-2-4C	R1.00	4	75	4
TSU30-BH2-2.5-5C	R1.25	5	75	4
TSU30-BH2-3-6C	R1.50	6	75	4
TSU30-BH2-3.5-7C	R1.75	7	75	4
TSU30-BH2-4-8C	R2.00	8	75	4
TSU30-BH2-4.5-9C	R2.25	9	75	6
TSU30-BH2-5-10C	R2.50	10	75	6
TSU30-BH2-5.5-11C	R2.75	11	75	6
TSU30-BH2-6-12C	R3.00	12	75	6
TSU30-BH2-8-16C	R4.00	16	75	8
TSU30-BH2-1-2D	R0.50	2	100	4
TSU30-BH2-1.5-3D	R0.75	3	100	4
TSU30-BH2-2-4D	R1.00	4	100	4
TSU30-BH2-2.5-5D	R1.25	5	100	4
TSU30-BH2-3-6D	R1.50	6	100	4
TSU30-BH2-3.5-7D	R1.75	7	100	4
TSU30-BH2-4-8D	R2.00	8	100	4
TSU30-BH2-4.5-9D	R2.25	9	100	6
TSU30-BH2-5-10D	R2.50	10	100	6
TSU30-BH2-5.5-11D	R2.75	11	100	6
TSU30-BH2-6-12D	R3.00	12	100	6
TSU30-BH2-8-16D	R4.00	16	100	8
TSU30-BH2-10-20D	R5.00	20	100	10
TSU30-BH2-12-24D	R6.00	24	100	12
TSU30-BH2-10-20E	R5.00	20	120	10
TSU30-BH2-12-24E	R6.00	24	120	12
TSU30-BH2-6-12F	R3.00	12	150	6
TSU30-BH2-8-16F	R4.00	16	150	8
TSU30-BH2-10-20F	R5.00	20	150	10
TSU30-BH2-12-24F	R6.00	24	150	12
TSU30-BH2-16-32F	R8.00	32	150	16
TSU30-BH2-20-40F	R10.0	40	150	20
TSU30-BH2-8-16G	R4.00	16	200	8
TSU30-BH2-10-20G	R5.00	20	200	10
TSU30-BH2-12-24G	R6.00	24	200	12
TSU30-BH2-16-32G	R8.00	32	200	16
TSU30-BH2-20-40G	R10.0	40	200	20

## Концевая фреза



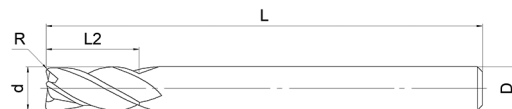
Артикул Tactic	d	R	L2	L	D
TSU30-RT4-1R0.1-3A	1	0.1	3	50	4
TSU30-RT4-1R0.2-3A	1	0.2	3	50	4
TSU30-RT4-1R0.3-3A	1	0.3	3	50	4
TSU30-RT4-1.5R0.1-4.5A	1.5	0.1	4.5	50	4
TSU30-RT4-1.5R0.2-4.5A	1.5	0.2	4.5	50	4
TSU30-RT4-1.5R0.3-4.5A	1.5	0.3	4.5	50	4
TSU30-RT4-1.5R0.5-4.5A	1.5	0.5	4.5	50	4
TSU30-RT4-2R0.1-6A	2	0.1	6	50	4
TSU30-RT4-2R0.2-6A	2	0.2	6	50	4
TSU30-RT4-2R0.3-6A	2	0.3	6	50	4
TSU30-RT4-2R0.5-6A	2	0.5	6	50	4
TSU30-RT4-2.5R0.1-7.5A	2.5	0.1	7.5	50	4
TSU30-RT4-2.5R0.2-7.5A	2.5	0.2	7.5	50	4
TSU30-RT4-2.5R0.3-7.5A	2.5	0.3	7.5	50	4
TSU30-RT4-2.5R0.5-7.5A	2.5	0.5	7.5	50	4
TSU30-RT4-3R0.1-8A	3	0.1	8	50	4
TSU30-RT4-3R0.2-8A	3	0.2	8	50	4
TSU30-RT4-3R0.3-8A	3	0.3	8	50	4
TSU30-RT4-3R0.5-8A	3	0.5	8	50	4
TSU30-RT4-3R1-8A	3	1	8	50	4
TSU30-RT4-4R0.1-11A	4	0.1	11	50	4
TSU30-RT4-4R0.2-11A	4	0.2	11	50	4
TSU30-RT4-4R0.3-11A	4	0.3	11	50	4
TSU30-RT4-4R0.5-11A	4	0.5	11	50	4
TSU30-RT4-4R1-11A	4	1	11	50	4
TSU30-RT4-5R0.2-13A	5	0.2	13	50	5
TSU30-RT4-5R0.5-13A	5	0.5	13	50	5
TSU30-RT4-5R1-13A	5	1	13	50	5
TSU30-RT4-6R0.1-15A	6	0.1	15	50	6
TSU30-RT4-6R0.2-15A	6	0.2	15	50	6
TSU30-RT4-6R0.3-15A	6	0.3	15	50	6
TSU30-RT4-6R0.5-15A	6	0.5	15	50	6
TSU30-RT4-6R1-15A	6	1	15	50	6
TSU30-RT4-6R1.5-15A	6	1.5	15	50	6
TSU30-RT4-6R2-15A	6	2	15	50	6
TSU30-RT4-8R0.2-20B	8	0.2	20	60	8
TSU30-RT4-8R0.3-20B	8	0.3	20	60	8
TSU30-RT4-8R0.5-20B	8	0.5	20	60	8
TSU30-RT4-8R1-20B	8	1	20	60	8
TSU30-RT4-8R1.5-20B	8	1.5	20	60	8
TSU30-RT4-8R2-20B	8	2	20	60	8
TSU30-RT4-8R2.5-20B	8	2.5	20	60	8
TSU30-RT4-8R3-20B	8	3	20	60	8
TSU30-RT4-10R0.2-25C	10	0.2	25	75	10
TSU30-RT4-10R0.3-25C	10	0.3	25	75	10
TSU30-RT4-10R0.5-25C	10	0.5	25	75	10
TSU30-RT4-10R1-25C	10	1	25	75	10
TSU30-RT4-10R1.5-25C	10	1.5	25	75	10
TSU30-RT4-10R2-25C	10	2	25	75	10
TSU30-RT4-10R2.5-25C	10	2.5	25	75	10
TSU30-RT4-10R3-25C	10	3	25	75	10
TSU30-RT4-10R4-25C	10	4	25	75	10
TSU30-RT4-12R0.2-30C	12	0.2	30	75	12
TSU30-RT4-12R0.3-30C	12	0.3	30	75	12

## Концевая фреза



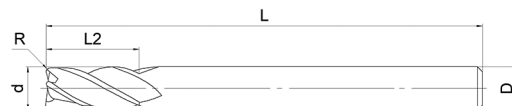
Артикул Tactic	d	R	L2	L	D
TSU30-RT4-12R0.5-30C	12	0.5	30	75	12
TSU30-RT4-12R1-30C	12	1	30	75	12
TSU30-RT4-12R1.5-30C	12	1.5	30	75	12
TSU30-RT4-12R2-30C	12	2	30	75	12
TSU30-RT4-12R2.5-30C	12	2.5	30	75	12
TSU30-RT4-12R3-30C	12	3	30	75	12
TSU30-RT4-12R4-30C	12	4	30	75	12
TSU30-RT4-12R5-30C	12	5	30	75	12
TSU30-RT4-14R0.5-35D	14	0.5	35	100	14
TSU30-RT4-14R1-35D	14	1	35	100	14
TSU30-RT4-14R1.5-35D	14	1.5	35	100	14
TSU30-RT4-14R2-35D	14	2	35	100	14
TSU30-RT4-14R2.5-35D	14	2.5	35	100	14
TSU30-RT4-14R3-35D	14	3	35	100	14
TSU30-RT4-14R4-35D	14	4	35	100	14
TSU30-RT4-14R5-35D	14	5	35	100	14
TSU30-RT4-16R0.5-40D	16	0.5	40	100	16
TSU30-RT4-16R1-40D	16	1	40	100	16
TSU30-RT4-16R1.5-40D	16	1.5	40	100	16
TSU30-RT4-16R2-40D	16	2	40	100	16
TSU30-RT4-16R2.5-40D	16	2.5	40	100	16
TSU30-RT4-16R3-40D	16	3	40	100	16
TSU30-RT4-16R4-40D	16	4	40	100	16
TSU30-RT4-16R5-40D	16	5	40	100	16
TSU30-RT4-20R0.5-45D	20	0.5	45	100	20
TSU30-RT4-20R1-45D	20	1	45	100	20
TSU30-RT4-20R1.5-45D	20	1.5	45	100	20
TSU30-RT4-20R2-45D	20	2	45	100	20
TSU30-RT4-20R2.5-45D	20	2.5	45	100	20
TSU30-RT4-20R3-45D	20	3	45	100	20
TSU30-RT4-20R4-45D	20	4	45	100	20
TSU30-RT4-20R5-45D	20	5	45	100	20

## Концевая фреза с удлиненным хвостовиком



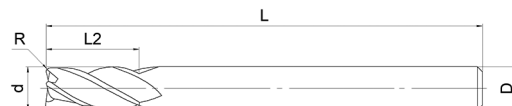
Артикул Tactic	d	R	L2	L	D
TSU30-RH4-1R0.1-3C	1	0.1	3	75	4
TSU30-RH4-1R0.2-3C	1	0.2	3	75	4
TSU30-RH4-1R0.3-3C	1	0.3	3	75	4
TSU30-RH4-1.5R0.1-4.5C	1.5	0.1	4.5	75	4
TSU30-RH4-1.5R0.2-4.5C	1.5	0.2	4.5	75	4
TSU30-RH4-1.5R0.3-4.5C	1.5	0.3	4.5	75	4
TSU30-RH4-1.5R0.5-4.5C	1.5	0.5	4.5	75	4
TSU30-RH4-2R0.1-6C	2	0.1	6	75	4
TSU30-RH4-2R0.2-6C	2	0.2	6	75	4
TSU30-RH4-2R0.3-6C	2	0.3	6	75	4
TSU30-RH4-2R0.5-6C	2	0.5	6	75	4
TSU30-RH4-2.5R0.1-7.5C	2.5	0.1	7.5	75	4
TSU30-RH4-2.5R0.2-7.5C	2.5	0.2	7.5	75	4
TSU30-RH4-2.5R0.3-7.5C	2.5	0.3	7.5	75	4
TSU30-RH4-2.5R0.5-7.5C	2.5	0.5	7.5	75	4
TSU30-RH4-3R0.1-8C	3	0.1	8	75	4
TSU30-RH4-3R0.2-8C	3	0.2	8	75	4
TSU30-RH4-3R0.3-8C	3	0.3	8	75	4
TSU30-RH4-3R0.5-8C	3	0.5	8	75	4
TSU30-RH4-3R1-8C	3	1	8	75	4
TSU30-RH4-4R0.1-11C	4	0.1	11	75	4
TSU30-RH4-4R0.2-11C	4	0.2	11	75	4
TSU30-RH4-4R0.3-11C	4	0.3	11	75	4
TSU30-RH4-4R0.5-11C	4	0.5	11	75	4
TSU30-RH4-4R1-11C	4	1	11	75	4
TSU30-RH4-5R0.2-15C	5	0.2	15	75	5
TSU30-RH4-5R0.5-15C	5	0.5	15	75	5
TSU30-RH4-5R1-15C	5	1	15	75	5
TSU30-RH4-6R0.1-15C	6	0.1	15	75	6
TSU30-RH4-6R0.2-15C	6	0.2	15	75	6
TSU30-RH4-6R0.3-15C	6	0.3	15	75	6
TSU30-RH4-6R0.5-15C	6	0.5	15	75	6
TSU30-RH4-6R1-15C	6	1	15	75	6
TSU30-RH4-6R1.5-15C	6	1.5	15	75	6
TSU30-RH4-6R2-15C	6	2	15	75	6
TSU30-RH4-8R0.2-20C	8	0.2	20	75	8
TSU30-RH4-8R0.3-20C	8	0.3	20	75	8
TSU30-RH4-8R0.5-20C	8	0.5	20	75	8
TSU30-RH4-8R1-20C	8	1	20	75	8
TSU30-RH4-8R1.5-20C	8	1.5	20	75	8
TSU30-RH4-8R2-20C	8	2	20	75	8
TSU30-RH4-8R2.5-20C	8	2.5	20	75	8
TSU30-RH4-8R3-20C	8	3	20	75	8
TSU30-RH4-1R0.1-3D	1	0.1	3	100	4
TSU30-RH4-1R0.2-3D	1	0.2	3	100	4
TSU30-RH4-1R0.3-3D	1	0.3	3	100	4
TSU30-RH4-1.5R0.1-4.5D	1.5	0.1	4.5	100	4
TSU30-RH4-1.5R0.2-4.5D	1.5	0.2	4.5	100	4
TSU30-RH4-1.5R0.3-4.5D	1.5	0.3	4.5	100	4
TSU30-RH4-1.5R0.5-4.5D	1.5	0.5	4.5	100	4
TSU30-RH4-2R0.1-6D	2	0.1	6	100	4
TSU30-RH4-2R0.2-6D	2	0.2	6	100	4
TSU30-RH4-2R0.3-6D	2	0.3	6	100	4
TSU30-RH4-2R0.5-6D	2	0.5	6	100	4

## Концевая фреза с удлиненным хвостовиком



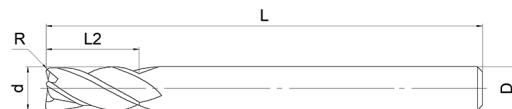
Артикул Tactic	d	R	L2	L	D
TSU30-RH4-2.5R0.1-7.5D	2.5	0.1	7.5	100	4
TSU30-RH4-2.5R0.2-7.5D	2.5	0.2	7.5	100	4
TSU30-RH4-2.5R0.3-7.5D	2.5	0.3	7.5	100	4
TSU30-RH4-2.5R0.5-7.5D	2.5	0.5	7.5	100	4
TSU30-RH4-3R0.1-8D	3	0.1	8	100	4
TSU30-RH4-3R0.2-8D	3	0.2	8	100	4
TSU30-RH4-3R0.3-8D	3	0.3	8	100	4
TSU30-RH4-3R0.5-8D	3	0.5	8	100	4
TSU30-RH4-3R1-8D	3	1	8	100	4
TSU30-RH4-4R0.1-11D	4	0.1	11	100	4
TSU30-RH4-4R0.2-11D	4	0.2	11	100	4
TSU30-RH4-4R0.3-11D	4	0.3	11	100	4
TSU30-RH4-4R0.5-11D	4	0.5	11	100	4
TSU30-RH4-4R1-11D	4	1	11	100	4
TSU30-RH4-5R0.2-15D	5	0.2	15	100	5
TSU30-RH4-5R0.5-15D	5	0.5	15	100	5
TSU30-RH4-5R1-15D	5	1	15	100	5
TSU30-RH4-6R0.1-15D	6	0.1	15	100	6
TSU30-RH4-6R0.2-15D	6	0.2	15	100	6
TSU30-RH4-6R0.3-15D	6	0.3	15	100	6
TSU30-RH4-6R0.5-15D	6	0.5	15	100	6
TSU30-RH4-6R1-15D	6	1	15	100	6
TSU30-RH4-6R1.5-15D	6	1.5	15	100	6
TSU30-RH4-6R2-15D	6	2	15	100	6
TSU30-RH4-8R0.2-20D	8	0.2	20	100	8
TSU30-RH4-8R0.3-20D	8	0.3	20	100	8
TSU30-RH4-8R0.5-20D	8	0.5	20	100	8
TSU30-RH4-8R1-20D	8	1	20	100	8
TSU30-RH4-8R1.5-20D	8	1.5	20	100	8
TSU30-RH4-8R2-20D	8	2	20	100	8
TSU30-RH4-8R2.5-20D	8	2.5	20	100	8
TSU30-RH4-8R3-20D	8	3	20	100	8
TSU30-RH4-10R0.2-30D	10	0.2	30	100	10
TSU30-RH4-10R0.3-30D	10	0.3	30	100	10
TSU30-RH4-10R0.5-30D	10	0.5	30	100	10
TSU30-RH4-10R1-30D	10	1	30	100	10
TSU30-RH4-10R1.5-30D	10	1.5	30	100	10
TSU30-RH4-10R2-30D	10	2	30	100	10
TSU30-RH4-10R2.5-30D	10	2.5	30	100	10
TSU30-RH4-10R3-30D	10	3	30	100	10
TSU30-RH4-10R4-30D	10	4	30	100	10
TSU30-RH4-12R0.2-30D	12	0.2	30	100	12
TSU30-RH4-12R0.3-30D	12	0.3	30	100	12
TSU30-RH4-12R0.5-30D	12	0.5	30	100	12
TSU30-RH4-12R1-30D	12	1	30	100	12
TSU30-RH4-12R1.5-30D	12	1.5	30	100	12
TSU30-RH4-12R2-30D	12	2	30	100	12
TSU30-RH4-12R2.5-30D	12	2.5	30	100	12
TSU30-RH4-12R3-30D	12	3	30	100	12
TSU30-RH4-12R4-30D	12	4	30	100	12
TSU30-RH4-12R5-30D	12	5	30	100	12
TSU30-RH4-8R0.2-30E	8	0.2	30	120	8
TSU30-RH4-8R0.3-30E	8	0.3	30	120	8
TSU30-RH4-8R0.5-30E	8	0.5	30	120	8

Концевая фреза  
с удлиненным хвостовиком



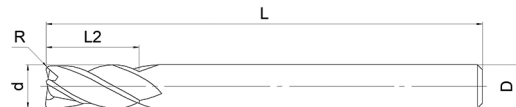
Артикул Tactic	d	R	L2	L	D
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TSU30-RH4-8R1.5-30E	8	1.5	30	120	8
TSU30-RH4-8R2-30E	8	2	30	120	8
TSU30-RH4-8R2.5-30E	8	2.5	30	120	8
TSU30-RH4-8R3-30E	8	3	30	120	8
TSU30-RH4-10R0.2-30E	10	0.2	30	120	10
TSU30-RH4-10R0.3-30E	10	0.3	30	120	10
TSU30-RH4-10R0.5-30E	10	0.5	30	120	10
TSU30-RH4-10R1-30E	10	1	30	120	10
TSU30-RH4-10R1.5-30E	10	1.5	30	120	10
TSU30-RH4-10R2-30E	10	2	30	120	10
TSU30-RH4-10R2.5-30E	10	2.5	30	120	10
TSU30-RH4-10R3-30E	10	3	30	120	10
TSU30-RH4-10R4-30E	10	4	30	120	10
TSU30-RH4-12R0.2-30E	12	0.2	30	120	12
TSU30-RH4-12R0.3-30E	12	0.3	30	120	12
TSU30-RH4-12R0.5-30E	12	0.5	30	120	12
TSU30-RH4-12R1-30E	12	1	30	120	12
TSU30-RH4-12R1.5-30E	12	1.5	30	120	12
TSU30-RH4-12R2-30E	12	2	30	120	12
TSU30-RH4-12R2.5-30E	12	2.5	30	120	12
TSU30-RH4-12R3-30E	12	3	30	120	12
TSU30-RH4-12R4-30E	12	4	30	120	12
TSU30-RH4-12R5-30E	12	5	30	120	12
TSU30-RH4-6R0.1-30F	6	0.1	30	150	8
TSU30-RH4-6R0.2-30F	6	0.2	30	150	8
TSU30-RH4-6R0.3-30F	6	0.3	30	150	8
TSU30-RH4-6R0.5-30F	6	0.5	30	150	8
TSU30-RH4-6R1-30F	6	1	30	150	8
TSU30-RH4-6R1.5-30F	6	1.5	30	150	8
TSU30-RH4-6R2-30F	6	2	30	150	8
TSU30-RH4-8R0.2-30F	8	0.2	30	150	8
TSU30-RH4-8R0.3-30F	8	0.3	30	150	8
TSU30-RH4-8R0.5-30F	8	0.5	30	150	8
TSU30-RH4-8R1-30F	8	1	30	150	8
TSU30-RH4-8R1.5-30F	8	1.5	30	150	8
TSU30-RH4-8R2-30F	8	2	30	150	8
TSU30-RH4-8R2.5-30F	8	2.5	30	150	8
TSU30-RH4-8R3-30F	8	3	30	150	8
TSU30-RH4-10R0.2-35F	10	0.2	35	150	10
TSU30-RH4-10R0.3-35F	10	0.3	35	150	10
TSU30-RH4-10R0.5-35F	10	0.5	35	150	10
TSU30-RH4-10R1-35F	10	1	35	150	10
TSU30-RH4-10R1.5-35F	10	1.5	35	150	10
TSU30-RH4-10R2-35F	10	2	35	150	10
TSU30-RH4-10R2.5-35F	10	2.5	35	150	10
TSU30-RH4-10R3-35F	10	3	35	150	10
TSU30-RH4-10R4-35F	10	4	35	150	10
TSU30-RH4-12R0.2-35F	12	0.2	35	150	12
TSU30-RH4-12R0.3-35F	12	0.3	35	150	12
TSU30-RH4-12R0.5-35F	12	0.5	35	150	12
TSU30-RH4-12R1-35F	12	1	35	150	12
TSU30-RH4-12R1.5-35F	12	1.5	35	150	12
TSU30-RH4-12R2-35F	12	2	35	150	12

## Концевая фреза с удлиненным хвостовиком



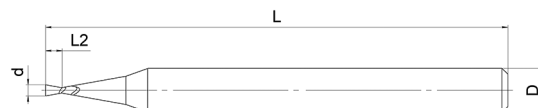
Артикул Tactic	d	R	L2	L	D
TSU30-RH4-12R2.5-35F	12	2.5	35	150	12
TSU30-RH4-12R3-35F	12	3	35	150	12
TSU30-RH4-12R4-35F	12	4	35	150	12
TSU30-RH4-12R5-35F	12	5	35	150	12
TSU30-RH4-14R0.5-40F	14	0.5	40	150	14
TSU30-RH4-14R1-40F	14	1	40	150	14
TSU30-RH4-14R1.5-40F	14	1.5	40	150	14
TSU30-RH4-14R2-40F	14	2	40	150	14
TSU30-RH4-14R2.5-40F	14	2.5	40	150	14
TSU30-RH4-14R3-40F	14	3	40	150	14
TSU30-RH4-14R4-40F	14	4	40	150	14
TSU30-RH4-14R5-40F	14	5	40	150	14
TSU30-RH4-16R0.5-40F	16	0.5	40	150	16
TSU30-RH4-16R1-40F	16	1	40	150	16
TSU30-RH4-16R1.5-40F	16	1.5	40	150	16
TSU30-RH4-16R2-40F	16	2	40	150	16
TSU30-RH4-16R2.5-40F	16	2.5	40	150	16
TSU30-RH4-16R3-40F	16	3	40	150	16
TSU30-RH4-16R4-40F	16	4	40	150	16
TSU30-RH4-16R5-40F	16	5	40	150	16
TSU30-RH4-20R0.5-50F	20	0.5	50	150	20
TSU30-RH4-20R1-50F	20	1	50	150	20
TSU30-RH4-20R1.5-50F	20	1.5	50	150	20
TSU30-RH4-20R2-50F	20	2	50	150	20
TSU30-RH4-20R2.5-50F	20	2.5	50	150	20
TSU30-RH4-20R3-50F	20	3	50	150	20
TSU30-RH4-20R4-50F	20	4	50	150	20
TSU30-RH4-20R5-50F	20	5	50	150	20
TSU30-RH4-6R0.1-30G	6	0.1	30	200	6
TSU30-RH4-6R0.2-30G	6	0.2	30	200	6
TSU30-RH4-6R0.3-30G	6	0.3	30	200	6
TSU30-RH4-6R0.5-30G	6	0.5	30	200	6
TSU30-RH4-6R1-30G	6	1	30	200	6
TSU30-RH4-6R1.5-30G	6	1.5	30	200	6
TSU30-RH4-6R2-30G	6	2	30	200	6
TSU30-RH4-8R0.2-40G	8	0.2	40	200	8
TSU30-RH4-8R0.3-40G	8	0.3	40	200	8
TSU30-RH4-8R0.5-40G	8	0.5	40	200	8
TSU30-RH4-8R1-40G	8	1	40	200	8
TSU30-RH4-8R1.5-40G	8	1.5	40	200	8
TSU30-RH4-8R2-40G	8	2	40	200	8
TSU30-RH4-8R2.5-40G	8	2.5	40	200	8
TSU30-RH4-8R3-40G	8	3	40	200	8
TSU30-RH4-10R0.2-40G	10	0.2	40	200	10
TSU30-RH4-10R0.3-40G	10	0.3	40	200	10
TSU30-RH4-10R0.5-40G	10	0.5	40	200	10
TSU30-RH4-10R1-40G	10	1	40	200	10
TSU30-RH4-10R1.5-40G	10	1.5	40	200	10
TSU30-RH4-10R2-40G	10	2	40	200	10
TSU30-RH4-10R2.5-40G	10	2.5	40	200	10
TSU30-RH4-10R3-40G	10	3	40	200	10
TSU30-RH4-10R4-40G	10	4	40	200	10
TSU30-RH4-12R0.2-40G	12	0.2	40	200	12
TSU30-RH4-12R0.3-40G	12	0.3	40	200	12

Концевая фреза  
с удлиненным хвостовиком



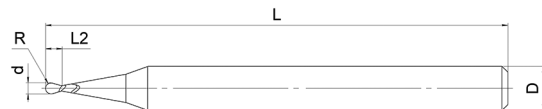
Артикул Tactic	d	R	L2	L	D
TSU30-RH4-12R0.5-40G	12	0.5	40	200	12
TSU30-RH4-12R1-40G	12	1	40	200	12
TSU30-RH4-12R1.5-40G	12	1.5	40	200	12
TSU30-RH4-12R2-40G	12	2	40	200	12
TSU30-RH4-12R2.5-40G	12	2.5	40	200	12
TSU30-RH4-12R3-40G	12	3	40	200	12
TSU30-RH4-12R4-40G	12	4	40	200	12
TSU30-RH4-12R5-40G	12	5	40	200	12
TSU30-RH4-14R0.5-50G	14	0.5	50	200	14
TSU30-RH4-14R1-50G	14	1	50	200	14
TSU30-RH4-14R1.5-50G	14	1.5	50	200	14
TSU30-RH4-14R2-50G	14	2	50	200	14
TSU30-RH4-14R2.5-50G	14	2.5	50	200	14
TSU30-RH4-14R3-50G	14	3	50	200	14
TSU30-RH4-14R4.0-50G	14	4.0	50	200	14
TSU30-RH4-14R5-50G	14	5	50	200	14
TSU30-RH4-16R0.5-50G	16	0.5	50	200	16
TSU30-RH4-16R1-50G	16	1	50	200	16
TSU30-RH4-16R1.5-50G	16	1.5	50	200	16
TSU30-RH4-16R2-50G	16	2	50	200	16
TSU30-RH4-16R2.5-50G	16	2.5	50	200	16
TSU30-RH4-16R3-50G	16	3	50	200	16
TSU30-RH4-16R4-50G	16	4	50	200	16
TSU30-RH4-16R5-50G	16	5	50	200	16
TSU30-RH4-20R0.5-50G	20	0.5	50	200	20
TSU30-RH4-20R1-50G	20	1	50	200	20
TSU30-RH4-20R1.5-50G	20	1.5	50	200	20
TSU30-RH4-20R2-50G	20	2	50	200	20
TSU30-RH4-20R2.5-50G	20	2.5	50	200	20
TSU30-RH4-20R3-50G	20	3	50	200	20
TSU30-RH4-20R4-50G	20	4	50	200	20
TSU30-RH4-20R5-50G	20	5	50	200	20

## Концевая микрофреза



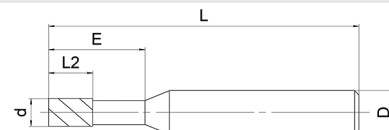
Артикул Tactic	d	L2	L	D
TSU30-ST2-0.05-0.1A	0.05	0.1	50	4
TSU30-ST2-0.06-0.12A	0.06	0.12	50	4
TSU30-ST2-0.07-0.14A	0.07	0.14	50	4
TSU30-ST2-0.08-0.16A	0.08	0.16	50	4
TSU30-ST2-0.09-0.18A	0.09	0.18	50	4
TSU30-ST2-0.1-0.2A	0.1	0.2	50	4
TSU30-ST2-0.15-0.3A	0.15	0.3	50	4
TSU30-ST2-0.2-0.4A	0.2	0.4	50	4
TSU30-ST2-0.3-0.6A	0.3	0.6	50	4
TSU30-ST2-0.4-0.8A	0.4	0.8	50	4
TSU30-ST2-0.5-1A	0.5	1	50	4
TSU30-ST2-0.6-1.2A	0.6	1.2	50	4
TSU30-ST2-0.7-1.4A	0.7	1.4	50	4
TSU30-ST2-0.8-1.6A	0.8	1.6	50	4
TSU30-ST2-0.9-1.8A	0.9	1.8	50	4

Концевая микрофреза  
сферическая



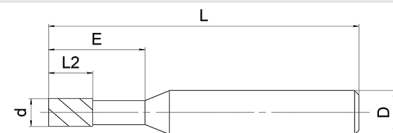
Артикул Tactic	R	L2	L	D
TSU30-BT2-0.05-0.1A	R0.025	0.1	50	4
TSU30-BT2-0.06-0.12A	R0.03	0.12	50	4
TSU30-BT2-0.07-0.14A	R0.035	0.14	50	4
TSU30-BT2-0.2-0.16A	R0.04	0.16	50	4
TSU30-BT2-0.09-0.18A	R0.045	0.18	50	4
TSU30-BT2-0.1-0.2A	R0.05	0.2	50	4
TSU30-BT2-0.12-0.24A	R0.06	0.24	50	4
TSU30-BT2-0.14-0.28A	R0.07	0.28	50	4
TSU30-BT2-0.16-0.32A	R0.08	0.32	50	4
TSU30-BT2-0.18-0.36A	R0.09	0.36	50	4
TSU30-BT2-0.2-0.4A	R0.1	0.4	50	4
TSU30-BT2-0.3-0.6A	R0.15	0.6	50	4
TSU30-BT2-0.4-0.8A	R0.2	0.8	50	4
TSU30-BT2-0.5-1A	R0.25	1	50	4
TSU30-BT2-0.6-1.2A	R0.3	1.2	50	4
TSU30-BT2-0.7-1.4A	R0.35	1.4	50	4
TSU30-BT2-0.8-1.6A	R0.4	1.6	50	4
TSU30-BT2-0.9-1.8A	R0.45	1.8	50	4

## Концевая микрофреза с обнижением



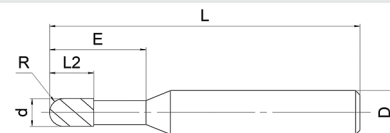
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TSU30-SN2-0.05-0.05N0.5A	0.05	0.05	0.5	50	4
TSU30-SN2-0.05-0.05N1A	0.05	0.05	1	50	4
TSU30-SN2-0.06-0.06N0.5A	0.06	0.06	0.5	50	4
TSU30-SN2-0.06-0.06N1A	0.06	0.06	1	50	4
TSU30-SN2-0.07-0.07N0.5A	0.07	0.07	0.5	50	4
TSU30-SN2-0.07-0.07N1A	0.07	0.07	1	50	4
TSU30-SN2-0.08-0.08N0.5A	0.08	0.08	0.5	50	4
TSU30-SN2-0.08-0.08N1A	0.08	0.08	1	50	4
TSU30-SN2-0.09-0.09N0.5A	0.09	0.09	0.5	50	4
TSU30-SN2-0.09-0.09N1A	0.09	0.09	1	50	4
TSU30-SN2-0.1-0.1N0.5A	0.1	0.1	0.5	50	4
TSU30-SN2-0.1-0.1N1A	0.1	0.1	1	50	4
TSU30-SN2-0.1-0.1N1.5A	0.1	0.1	1.5	50	4
TSU30-SN2-0.1-0.1N2A	0.1	0.1	2	50	4
TSU30-SN2-0.15-0.15N0.5A	0.15	0.15	0.5	50	4
TSU30-SN2-0.15-0.15N1A	0.15	0.15	1	50	4
TSU30-SN2-0.15-0.15N1.5A	0.15	0.15	1.5	50	4
TSU30-SN2-0.15-0.15N2A	0.15	0.15	2	50	4
TSU30-SN2-0.2-0.2N1A	0.2	0.2	1	50	4
TSU30-SN2-0.2-0.2N2A	0.2	0.2	2	50	4
TSU30-SN2-0.2-0.2N3A	0.2	0.2	3	50	4
TSU30-SN2-0.2-0.2N4A	0.2	0.2	4	50	4
TSU30-SN2-0.25-0.25N2A	0.25	0.25	2	50	4
TSU30-SN2-0.25-0.25N3A	0.25	0.25	3	50	4
TSU30-SN2-0.25-0.25N4A	0.25	0.25	4	50	4
TSU30-SN2-0.3-0.3N2A	0.3	0.3	2	50	4
TSU30-SN2-0.3-0.3N3A	0.3	0.3	3	50	4
TSU30-SN2-0.3-0.3N4A	0.3	0.3	4	50	4
TSU30-SN2-0.3-0.3N6A	0.3	0.3	6	50	4
TSU30-SN2-0.4-0.4N2A	0.4	0.4	2	50	4
TSU30-SN2-0.4-0.4N3A	0.4	0.4	3	50	4
TSU30-SN2-0.4-0.4N4A	0.4	0.4	4	50	4
TSU30-SN2-0.4-0.4N6A	0.4	0.4	6	50	4
TSU30-SN2-0.5-0.5N2A	0.5	0.5	2	50	4
TSU30-SN2-0.5-0.5N3A	0.5	0.5	3	50	4
TSU30-SN2-0.5-0.5N4A	0.5	0.5	4	50	4
TSU30-SN2-0.5-0.5N6A	0.5	0.5	6	50	4
TSU30-SN2-0.5-0.5N8A	0.5	0.5	8	50	4
TSU30-SN2-0.5-0.5N10A	0.5	0.5	10	50	4
TSU30-SN2-0.5-0.5N12A	0.5	0.5	12	50	4
TSU30-SN2-0.6-0.6N2A	0.6	0.6	2	50	4
TSU30-SN2-0.6-0.6N3A	0.6	0.6	3	50	4
TSU30-SN2-0.6-0.6N4A	0.6	0.6	4	50	4
TSU30-SN2-0.6-0.6N6A	0.6	0.6	6	50	4
TSU30-SN2-0.6-0.6N8A	0.6	0.6	8	50	4
TSU30-SN2-0.6-0.6N10A	0.6	0.6	10	50	4
TSU30-SN2-0.6-0.6N12A	0.6	0.6	12	50	4
TSU30-SN2-0.7-0.7N3A	0.7	0.7	3	50	4
TSU30-SN2-0.7-0.7N4A	0.7	0.7	4	50	4
TSU30-SN2-0.7-0.7N6A	0.7	0.7	6	50	4
TSU30-SN2-0.7-0.7N8A	0.7	0.7	8	50	4
TSU30-SN2-0.7-0.7N10A	0.7	0.7	10	50	4
TSU30-SN2-0.7-0.7N12A	0.7	0.7	12	50	4
TSU30-SN2-0.8-0.8N3A	0.8	0.8	3	50	4

Концевая микрофреза с обнижением



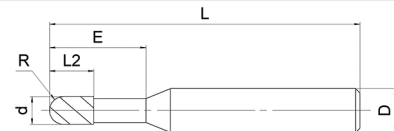
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TSU30-SN2-0.8-0.8N6A	0.8	0.8	6	50	4
TSU30-SN2-0.8-0.8N8A	0.8	0.8	8	50	4
TSU30-SN2-0.8-0.8N10A	0.8	0.8	10	50	4
TSU30-SN2-0.8-0.8N12A	0.8	0.8	12	50	4
TSU30-SN2-0.9-0.9N3A	0.9	0.9	3	50	4
TSU30-SN2-0.9-0.9N4A	0.9	0.9	4	50	4
TSU30-SN2-0.9-0.9N6A	0.9	0.9	6	50	4
TSU30-SN2-0.9-0.9N8A	0.9	0.9	8	50	4
TSU30-SN2-0.9-0.9N10A	0.9	0.9	10	50	4
TSU30-SN2-0.9-0.9N12A	0.9	0.9	12	50	4

## Концевая микрофреза сферическая с обнижением



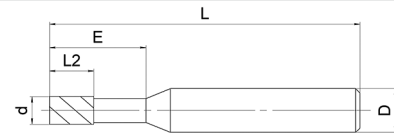
Артикул Tactic	R	L2	E	L	D
TSU30-BN2-0.1-0.1N0.3A	R0.05	0.1	0.3	50	4
TSU30-BN2-0.1-0.1N0.5A	R0.05	0.1	0.5	50	4
TSU30-BN2-0.1-0.1N1A	R0.05	0.1	1	50	4
TSU30-BN2-0.15-0.15N0.3A	R0.075	0.15	0.3	50	4
TSU30-BN2-0.15-0.15N0.5A	R0.075	0.15	0.5	50	4
TSU30-BN2-0.15-0.15N1A	R0.075	0.15	1	50	4
TSU30-BN2-0.2-0.2N0.5A	R0.1	0.2	0.5	50	4
TSU30-BN2-0.2-0.2N1A	R0.1	0.2	1	50	4
TSU30-BN2-0.2-0.2N1.5A	R0.1	0.2	1.5	50	4
TSU30-BN2-0.2-0.2N2A	R0.1	0.2	2	50	4
TSU30-BN2-0.3-0.3N1A	R0.15	0.3	1	50	4
TSU30-BN2-0.3-0.3N1.5A	R0.15	0.3	1.5	50	4
TSU30-BN2-0.3-0.3N2A	R0.15	0.3	2	50	4
TSU30-BN2-0.3-0.3N3A	R0.15	0.3	3	50	4
TSU30-BN2-0.3-0.3N4A	R0.15	0.3	4	50	4
TSU30-BN2-0.4-0.4N2A	R0.2	0.4	2	50	4
TSU30-BN2-0.4-0.4N3A	R0.2	0.4	3	50	4
TSU30-BN2-0.4-0.4N4A	R0.2	0.4	4	50	4
TSU30-BN2-0.4-0.4N6A	R0.2	0.4	6	50	4
TSU30-BN2-0.5-0.5N2A	R0.25	0.5	2	50	4
TSU30-BN2-0.5-0.5N3A	R0.25	0.5	3	50	4
TSU30-BN2-0.5-0.5N4A	R0.25	0.5	4	50	4
TSU30-BN2-0.5-0.5N6A	R0.25	0.5	6	50	4
TSU30-BN2-0.5-0.5N8A	R0.25	0.5	8	50	4
TSU30-BN2-0.6-0.6N3A	R0.3	0.6	3	50	4
TSU30-BN2-0.6-0.6N4A	R0.3	0.6	4	50	4
TSU30-BN2-0.6-0.6N6A	R0.3	0.6	6	50	4
TSU30-BN2-0.6-0.6N8A	R0.3	0.6	8	50	4
TSU30-BN2-0.6-0.6N10A	R0.3	0.6	10	50	4
TSU30-BN2-0.6-0.6N12A	R0.3	0.6	12	50	4
TSU30-BN2-0.7-0.7N2A	R0.35	0.7	2	50	4
TSU30-BN2-0.7-0.7N3A	R0.35	0.7	3	50	4
TSU30-BN2-0.7-0.7N4A	R0.35	0.7	4	50	4
TSU30-BN2-0.7-0.7N6A	R0.35	0.7	6	50	4
TSU30-BN2-0.7-0.7N8A	R0.35	0.7	8	50	4
TSU30-BN2-0.7-0.7N10A	R0.35	0.7	10	50	4
TSU30-BN2-0.7-0.7N12A	R0.35	0.7	12	50	4
TSU30-BN2-0.8-0.8N2A	R0.4	0.8	2	50	4
TSU30-BN2-0.8-0.8N3A	R0.4	0.8	3	50	4
TSU30-BN2-0.8-0.8N4A	R0.4	0.8	4	50	4
TSU30-BN2-0.8-0.8N6A	R0.4	0.8	6	50	4
TSU30-BN2-0.8-0.8N8A	R0.4	0.8	8	50	4
TSU30-BN2-0.8-0.8N10A	R0.4	0.8	10	50	4
TSU30-BN2-0.8-0.8N12A	R0.4	0.8	12	50	4
TSU30-BN2-0.9-0.9N4A	R0.45	0.9	4	50	4
TSU30-BN2-0.9-0.9N6A	R0.45	0.9	6	50	4
TSU30-BN2-0.9-0.9N8A	R0.45	0.9	8	50	4
TSU30-BN2-0.9-0.9N10A	R0.45	0.9	10	50	4
TSU30-BN2-0.9-0.9N12A	R0.45	0.9	12	50	4
TSU30-BN2-1-1N4A	R0.5	1	4	50	4
TSU30-BN2-1-1N6A	R0.5	1	6	50	4
TSU30-BN2-1-1N8A	R0.5	1	8	50	4
TSU30-BN2-1-1N10A	R0.5	1	10	50	4
TSU30-BN2-1-1N12A	R0.5	1	12	50	4

Концевая микрофреза сферическая с обнижением



Артикул Tactic	R	L2	E	L	D
TSU30-BN2-1-1N16A	R0.5	1	16	50	4
TSU30-BN2-1-1N20A	R0.5	1	20	50	4
TSU30-BN2-1.5-1.5N4A	R0.75	1.5	4	50	4
TSU30-BN2-1.5-1.5N6A	R0.75	1.5	6	50	4
TSU30-BN2-1.5-1.5N8A	R0.75	1.5	8	50	4
TSU30-BN2-1.5-1.5N10A	R0.75	1.5	10	50	4
TSU30-BN2-1.5-1.5N12A	R0.75	1.5	12	50	4
TSU30-BN2-1.5-1.5N16A	R0.75	1.5	16	50	4
TSU30-BN2-1.5-1.5N20A	R0.75	1.5	20	50	4
TSU30-BN2-2-2N6A	R1	2	6	50	4
TSU30-BN2-2-2N8A	R1	2	8	50	4
TSU30-BN2-2-2N10A	R1	2	10	50	4
TSU30-BN2-2-2N12A	R1	2	12	50	4
TSU30-BN2-2-2N16A	R1	2	16	50	4
TSU30-BN2-2-2N20A	R1	2	20	50	4
TSU30-BN2-3-3N8A	R1.5	3	8	50	4
TSU30-BN2-3-3N10A	R1.5	3	10	50	4
TSU30-BN2-3-3N12A	R1.5	3	12	50	4
TSU30-BN2-3-3N16A	R1.5	3	16	50	4
TSU30-BN2-3-3N20A	R1.5	3	20	50	4
TSU30-BN2-3-3N10B	R1.5	3	10	60	6
TSU30-BN2-3-3N12B	R1.5	3	12	60	6
TSU30-BN2-3-3N16B	R1.5	3	16	60	6
TSU30-BN2-3-3N20B	R1.5	3	20	60	6
TSU30-BN2-3-3N30C	R1.5	3	30	75	6
TSU30-BN2-4-4N10B	R2	4	10	60	6
TSU30-BN2-4-4N12B	R2	4	12	60	6
TSU30-BN2-4-4N16B	R2	4	16	60	6
TSU30-BN2-4-4N20B	R2	4	20	60	6
TSU30-BN2-4-4N30C	R2	4	30	75	6

Концевая микрофреза  
с обнижением



Артикул Tactic	d	L2	E	L	D
TSU30-SN4-1-1.2N4A	1	1.2	4	50	4
TSU30-SN4-1-1.2N6A	1	1.2	6	50	4
TSU30-SN4-1-1.2N8A	1	1.2	8	50	4
TSU30-SN4-1-1.2N10A	1	1.2	10	50	4
TSU30-SN4-1-1.2N12A	1	1.2	12	50	4
TSU30-SN4-1-1.2N16A	1	1.2	16	50	4
TSU30-SN4-1-1.2N20A	1	1.2	20	50	4
TSU30-SN4-1.5-1.8N6A	1.5	1.8	6	50	4
TSU30-SN4-1.5-1.8N8A	1.5	1.8	8	50	4
TSU30-SN4-1.5-1.8N10A	1.5	1.8	10	50	4
TSU30-SN4-1.5-1.8N12A	1.5	1.8	12	50	4
TSU30-SN4-1.5-1.8N16A	1.5	1.8	16	50	4
TSU30-SN4-1.5-1.8N20A	1.5	1.8	20	50	4
TSU30-SN4-2-2.4N8A	2	2.4	8	50	4
TSU30-SN4-2-2.4N10A	2	2.4	10	50	4
TSU30-SN4-2-2.4N12A	2	2.4	12	50	4
TSU30-SN4-2-2.4N16A	2	2.4	16	50	4
TSU30-SN4-2-2.4N20A	2	2.4	20	50	4
TSU30-SN4-2.5-3N10A	2.5	3	10	50	4
TSU30-SN4-2.5-3N12A	2.5	3	12	50	4
TSU30-SN4-2.5-3N16A	2.5	3	16	50	4
TSU30-SN4-2.5-3N20A	2.5	3	20	50	4
TSU30-SN4-3-3.6N10A	3	3.6	10	50	4
TSU30-SN4-3-3.6N12A	3	3.6	12	50	4
TSU30-SN4-3-3.6N16A	3	3.6	16	50	4
TSU30-SN4-3-3.6N20A	3	3.6	20	50	4
TSU30-SN4-3-3.6N10B	3	3.6	10	60	6
TSU30-SN4-3-3.6N12B	3	3.6	12	60	6
TSU30-SN4-3-3.6N16B	3	3.6	16	60	6
TSU30-SN4-3-3.6N20B	3	3.6	20	60	6
TSU30-SN4-3-3.6N30C	3	3.6	30	75	6
TSU30-SN4-4-4.8N10B	4	4.8	10	60	6
TSU30-SN4-4-4.8N12B	4	4.8	12	60	6
TSU30-SN4-4-4.8N16B	4	4.8	16	60	6
TSU30-SN4-4-4.8N20B	4	4.8	20	60	6
TSU30-SN4-4-4.8N30C	4	4.8	30	75	6

### Титановые сплавы

Плоский торец	Начальные данные							
	Обработка торцов				Обработка стенок			
	f (мм/мин)	S (об/мин)	ae (мм)	ap (мм)	f (мм/мин)	S (об/мин)	ae (мм)	ap (мм)
D1.0	850	6800	0.4	0.03	750	7200	0.04	1.5
D2.0	950	6500	0.8	0.06	880	6800	0.08	3
D3.0	1200	5500	1.2	0.09	1100	6000	0.12	4.5
D4.0	1450	5000	1.6	0.12	1400	5500	0.16	6
D6.0	1800	4000	2.4	0.18	1600	4500	0.24	9
D8.0	1750	3500	3.2	0.24	1500	4000	0.32	12
D10.0	1550	3000	4.0	0.3	1350	3500	0.4	15
D12.0	1250	2750	4.8	0.36	1050	3000	0.48	18
D14.0	1080	2350	5.6	0.42	950	2600	0.58	21
D16.0	950	2200	6.4	0.48	880	2400	0.64	24
D18.0	850	2000	7.2	0.54	760	2200	0.72	27
D20.0	720	1800	8.0	0.6	680	2000	0.8	30

### Жаропрочные сплавы

Плоский торец	Начальные данные							
	Обработка торцов				Обработка стенок			
	f (мм/мин)	S (об/мин)	ae (мм)	ap (мм)	f (мм/мин)	S (об/мин)	ae (мм)	ap (мм)
D1.0	500	6000	0.2	0.02	800	6500	0.03	1
D2.0	700	5000	0.4	0.04	900	5500	0.06	2
D3.0	750	4500	0.6	0.06	1000	4800	0.09	3
D4.0	850	3500	0.8	0.08	1200	3800	0.12	4
D6.0	800	3000	1.2	0.12	1100	3450	0.18	6
D8.0	750	2450	1.6	0.16	1000	2650	0.24	8
D10.0	660	2000	2.0	0.2	950	2150	0.3	10
D12.0	600	1550	2.4	0.24	900	1680	0.36	12
D14.0	580	1450	2.8	0.28	880	1550	0.42	14
D16.0	550	1250	3.2	0.32	800	1400	0.48	16
D18.0	520	1100	3.6	0.36	750	1350	0.54	18
D20.0	450	1000	4.0	0.4	550	1200	0.6	20

### Титановые сплавы

Сферическая	Начальные данные							
	Профильная обработка				Обработка пазов			
	f (мм/мин)	S (об/мин)	ae (мм)	ap (мм)	f (мм/мин)	S (об/мин)	ae (мм)	ap (мм)
R0.5	1200	7000	0.06	0.05	1150	7250	0	0.08
R0.75	1500	6500	0.07	0.06	1450	6850	0	0.08
R1.0	1650	5500	0.08	0.07	1550	5800	0	0.1
R1.5	1750	4500	0.08	0.08	1650	4750	0	0.12
R2.0	1950	4000	0.1	0.1	1850	4200	0	0.15
R3.0	2250	3200	0.2	0.15	2350	3500	0	0.18
R4.0	2150	2850	0.22	0.15	2200	3200	0	0.2
R5.0	2000	2650	0.25	0.2	2150	3000	0	0.22
R6.0	1800	2500	0.25	0.23	1900	2800	0	0.25
R7.0	1450	2200	0.28	0.24	1750	2450	0	0.25
R8.0	1250	2000	0.3	0.28	1500	2250	0	0.28
R10.0	1000	1800	0.3	0.3	1350	2000	0	0.3

### Жаропрочные сплавы

Сферическая	Начальные данные							
	Профильная обработка				Обработка пазов			
	f (мм/мин)	S (об/мин)	ae (мм)	ap (мм)	f (мм/мин)	S (об/мин)	ae (мм)	ap (мм)
R0.5	800	6500	0.05	0.04	950	7000	0	0.05
R0.75	1000	6000	0.06	0.05	1150	6500	0	0.06
R1.0	1200	5500	0.06	0.05	1350	6000	0	0.07
R1.5	1450	5000	0.08	0.06	1650	5500	0	0.09
R2.0	1600	4000	0.12	0.08	1800	4200	0	0.1
R3.0	1780	3500	0.15	0.1	1920	3800	0	0.12
R4.0	1800	2950	0.18	0.12	2000	3000	0	0.14
R5.0	1680	2650	0.2	0.14	1820	2750	0	0.16
R6.0	1500	2450	0.25	0.16	1650	2600	0	0.18
R7.0	1250	2100	0.28	0.18	1400	2200	0	0.2
R8.0	1000	1950	0.3	0.22	1250	2000	0	0.22
R10.0	880	1650	0.3	0.25	1000	1800	0	0.25

### Титановые сплавы

Радиус при вершине	Начальные данные							
	Обработка торцов				Обработка стенок			
	f (мм/мин)	S (об/мин)	ae (мм)	ap (мм)	f (мм/мин)	S (об/мин)	ae (мм)	ap (мм)
D1R0.2	650	7500	0.45	0.04	850	8000	0.04	1.6
D2R0.5	800	7000	0.9	0.08	900	7500	0.08	3.2
D3R0.5	950	6000	1.35	0.12	1000	6500	0.12	4.8
D4R0.5	1150	5500	1.8	0.16	1200	6000	0.16	6.4
D6R0.5	1200	4500	2.7	0.24	1500	5000	0.24	9.6
D8R0.5	1000	3800	3.6	0.32	1800	4500	0.32	12.8
D10R0.5	950	3000	4.5	0.4	1500	3200	0.4	16.0
D12R0.5	820	2500	5.4	0.48	1200	2750	0.48	19.2
D16R0.5	750	2000	7.2	0.64	950	2200	0.64	25.6
D18R0.5	680	1800	8.1	0.72	750	2000	0.72	28.8
D20R0.5	550	1500	9.0	0.8	660	1800	0.8	32.0

### Жаропрочные сплавы

Радиус при вершине	Начальные данные							
	Обработка торцов				Обработка стенок			
	f (мм/мин)	S (об/мин)	ae (мм)	ap (мм)	f (мм/мин)	S (об/мин)	ae (мм)	ap (мм)
D1R0.2	650	6500	0.3	0.02	900	7000	0.03	1.2
D2R0.5	850	6000	0.6	0.04	1050	6500	0.06	2.4
D3R0.5	1000	5000	0.8	0.06	1200	5500	0.09	3.6
D4R0.5	1250	4500	1.2	0.08	1450	5000	0.12	4.8
D6R0.5	1450	3200	1.8	0.12	1650	4500	0.18	7.2
D8R0.5	1200	2800	2.4	0.16	1500	3500	0.24	9.6
D10R0.5	1000	2500	3.0	0.2	1350	3000	0.3	12
D12R0.5	980	2000	3.6	0.24	1200	2500	0.36	14.4
D16R0.5	860	1800	4.8	0.32	1000	2250	0.48	19.2
D18R0.5	780	1650	5.4	0.36	920	1950	0.54	21.6
D20R0.5	650	1500	6.0	0.4	780	1800	0.6	24

### Титановые сплавы

### Жаропрочные сплавы

Микрофрезы с плоским торцом	Начальные данные				Начальные данные			
	Обработка торцов				Обработка торцов			
	f (мм/мин)	S (об/мин)	ap (мм)		f (мм/мин)	S (об/мин)	ap (мм)	
0.1	90	30000	0.008		100	30000	0.008	
0.2	120	30000	0.01		180	30000	0.01	
0.3	150	30000	0.012		250	30000	0.015	
0.4	220	20000	0.015		400	20000	0.018	
0.5	300	20000	0.018		550	20000	0.02	
0.6	400	20000	0.02		650	20000	0.025	
0.7	550	20000	0.022		700	20000	0.03	
0.8	700	20000	0.025		800	20000	0.035	
0.9	800	20000	0.03		1000	20000	0.04	

### Титановые сплавы

### Жаропрочные сплавы

Микрофрезы сферические	Начальные данные				Начальные данные			
	Обработка торцов				Обработка торцов			
	f (мм/мин)	S (об/мин)	ap (мм)		f (мм/мин)	S (об/мин)	ap (мм)	
R0.1	100	30000	0.008		90	30000	0.008	
R0.15	150	30000	0.01		150	30000	0.01	
R0.2	250	30000	0.012		220	30000	0.012	
R0.25	300	20000	0.015		300	20000	0.015	
R0.3	400	20000	0.018		400	20000	0.02	
R0.35	500	20000	0.02		550	20000	0.025	
R0.4	600	20000	0.025		700	20000	0.03	
R0.45	700	20000	0.03		800	20000	0.035	

Титановые сплавы				Жаропрочные сплавы			
Микрофрезы с плоским торцом для глубоких пазов		Начальные данные			Начальные данные		
		Обработка торцов			Обработка торцов		
		f (мм/мин)	S (об/мин)	ap (мм)	f (мм/мин)	S (об/мин)	ap (мм)
0.1	Короткая рабочая часть с обнижением	75	28000	0.006	90	28000	0.006
0.2		100	28000	0.008	160	28000	0.008
0.3		150	25000	0.01	200	25000	0.01
0.4		200	18000	0.012	350	18000	0.015
0.5		250	18000	0.015	450	18000	0.015
0.6		350	15000	0.018	500	15000	0.018
0.7		450	15000	0.02	600	15000	0.02
0.8		600	12000	0.022	700	12000	0.025
0.9		700	12000	0.025	800	12000	0.03

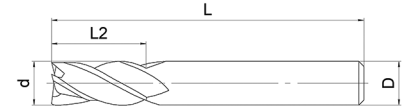
Титановые сплавы				Жаропрочные сплавы			
Микрофрезы сферические для глубоких пазов		Начальные данные			Начальные данные		
		Обработка торцов			Обработка торцов		
		f (мм/мин)	S (об/мин)	ap (мм)	f (мм/мин)	S (об/мин)	ap (мм)
R0.1	Короткая рабочая часть с обнижением	80	28000	0.006	80	28000	0.006
R0.15		120	25000	0.008	120	25000	0.008
R0.2		200	22000	0.01	200	18000	0.01
R0.25		280	20000	0.012	250	18000	0.015
R0.3		350	18000	0.015	350	15000	0.02
R0.35		480	18000	0.018	450	15000	0.022
R0.4		550	15000	0.02	550	12000	0.025
R0.45		650	15000	0.025	650	12000	0.03

# TSP40

Фрезы для высокоточной обработки титановых сплавов

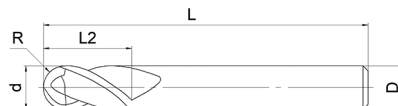


## Концевая фреза



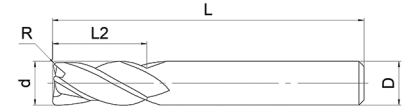
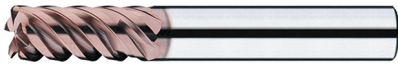
Артикул Tactic	d	L2	L	D
TSP40-ST4-1-3A	1	3	50	4
TSP40-ST4-1.5-4.5A	1.5	4.5	50	4
TSP40-ST4-2-6A	2	6	50	4
TSP40-ST4-2.5-7A	2.5	7	50	4
TSP40-ST4-3-8A-S3	3	8	50	3
TSP40-ST4-3-8A	3	8	50	4
TSP40-ST4-3.5-9A	3.5	9	50	4
TSP40-ST5-4-10A	4	10	50	4
TSP40-ST5-5-13A-S6	5	13	50	6
TSP40-ST5-5-13A	5	13	50	5
TSP40-ST5-6-15A	6	15	50	6
TSP40-ST5-8-20B	8	20	60	8
TSP40-ST5-10-25C	10	25	75	10
TSP40-ST5-12-30C	12	30	75	12
TSP40-ST5-14-35D	14	35	100	14
TSP40-ST5-16-40D	16	40	100	16
TSP40-ST5-18-45D	18	45	100	18
TSP40-ST5-20-45D	20	45	100	20

Концевая фреза  
сферическая



Артикул Tactic	R	L2	L	D
TSP40-BT2-1-2A	R0.5	2	50	4
TSP40-BT2-1.5-3A	R0.75	3	50	4
TSP40-BT2-2-4A	R1	4	50	4
TSP40-BT2-2.5-5A	R1.25	5	50	4
TSP40-BT2-3-6A	R1.5	6	50	4
TSP40-BT2-3-6A-S3	R1.5	6	50	3
TSP40-BT2-3.5-7A	R1.75	7	50	4
TSP40-BT2-4-8A	R2	8	50	4
TSP40-BT2-5-10A-S6	R2.5	10	50	6
TSP40-BT2-5-10A	R2.5	10	50	5
TSP40-BT2-6-12A	R3	12	50	6
TSP40-BT2-8-16B	R4	16	60	8
TSP40-BT2-10-20C	R5	20	75	10
TSP40-BT2-12-24C	R6	24	75	12
TSP40-BT2-16-30D	R8	30	100	16
TSP40-BT2-20-30D	R10	30	100	20

Концевая фреза  
с удлиненным хвостовиком



Артикул Tactic	d	R	L2	L	D
TSP40-RT4-1R0.2-3A	1	0.2	3	50	4
TSP40-RT4-1.5R0.2-4A	1.5	0.2	4	50	4
TSP40-RT4-2R0.2-5A	2	0.2	5	50	4
TSP40-RT4-2R0.5-5A	2	0.5	5	50	4
TSP40-RT4-3R0.2-8A	3	0.2	8	50	4
TSP40-RT4-3R0.5-8A	3	0.5	8	50	4
TSP40-RT4-3R1-8A	3	1	8	50	4
TSP40-RT4-3R0.2-8A-S3	3	0.2	8	50	3
TSP40-RT4-3R0.5-8A-S3	3	0.5	8	50	3
TSP40-RT4-3R1-8A-S3	3	1	8	50	3
TSP40-RT5-4R0.2-10A	4	0.2	10	50	4
TSP40-RT5-4R0.5-10A	4	0.5	10	50	4
TSP40-RT5-4R1-10A	4	1	10	50	4
TSP40-RT5-6R0.2-15A	6	0.2	15	50	6
TSP40-RT5-6R0.5-15A	6	0.5	15	50	6
TSP40-RT5-6R1-15A	6	1	15	50	6
TSP40-RT5-8R0.5-20B	8	0.5	20	60	8
TSP40-RT5-8R1-20B	8	1	20	60	8
TSP40-RT5-10R0.5-25C	10	0.5	25	75	10
TSP40-RT5-10R1-25C	10	1	25	75	10
TSP40-RT5-12R0.5-30C	12	0.5	30	75	12
TSP40-RT5-12R1-30C	12	1	30	75	12
TSP40-RT5-14R0.5-35D	14	0.5	35	100	14
TSP40-RT5-14R1-35D	14	1	35	100	14
TSP40-RT5-16R0.5-40D	16	0.5	40	100	16
TSP40-RT5-16R1-40D	16	1	40	100	16

### Титановые сплавы

Плоский торец	Начальные данные							
	Обработка торцов				Обработка стенок			
	f (мм/мин)	S (об/мин)	ae (мм)	ap (мм)	f (мм/мин)	S (об/мин)	ae (мм)	ap (мм)
D1.0	800	7500	0.65	0.01	700	8000	0.01	2
D2.0	800	7000	1.3	0.025	750	7500	0.02	4
D3.0	1000	6500	1.95	0.04	950	7000	0.04	6
D4.0	1000	6000	2.6	0.05	950	6500	0.06	8
D6.0	1200	5800	3.9	0.08	1150	6000	0.08	15
D8.0	1200	5500	5.2	0.1	1150	5500	0.1	15
D10.0	1350	5000	6.5	0.12	1300	5000	0.1	20
D12.0	1350	4500	7.8	0.12	1300	4500	0.12	20
D14.0	1450	4000	9.1	0.15	1400	4200	0.12	25
D16.0	1450	3800	10.4	0.15	1400	4000	0.15	25
D18.0	1600	3500	11.7	0.18	1500	3600	0.15	30
D20.0	1600	3000	13	0.18	1500	3500	0.18	30

### Жаропрочные сплавы

Плоский торец	Начальные данные							
	Обработка торцов				Обработка стенок			
	f (мм/мин)	S (об/мин)	ae (мм)	ap (мм)	f (мм/мин)	S (об/мин)	ae (мм)	ap (мм)
D1.0	700	7000	0.65	0.015	650	7500	0.01	2
D2.0	700	6000	1.3	0.03	650	7000	0.02	4
D3.0	900	6000	1.95	0.045	900	6500	0.03	6
D4.0	900	5500	2.6	0.06	900	6000	0.06	8
D6.0	1100	5500	3.9	0.07	1100	6000	0.08	15
D8.0	1200	5000	5.2	0.09	1100	5500	0.08	15
D10.0	1200	4500	6.5	0.1	1250	5000	0.1	20
D12.0	1300	4000	7.8	0.12	1250	4500	0.1	20
D14.0	1300	3800	9.1	0.12	1350	4200	0.13	25
D16.0	1500	3500	10.4	0.14	1350	3700	0.13	25
D18.0	1500	3200	11.7	0.14	1450	3400	0.15	30
D20.0	1600	2800	13	0.15	1450	3100	0.15	30

### Титановые сплавы

Сферическая	Начальные данные							
	Профильная обработка				Обработка пазов			
	f (мм/мин)	S (об/мин)	ae (мм)	ap (мм)	f (мм/мин)	S (об/мин)	ae (мм)	ap (мм)
R0.5	750	8000	0.01	0.015	800	8200	0	0.015
R0.75	750	7500	0.02	0.02	800	7800	0	0.02
R1.0	900	7000	0.02	0.03	900	7500	0	0.03
R1.5	900	6500	0.03	0.03	950	7000	0	0.03
R2.0	1000	6200	0.05	0.05	1000	7500	0	0.05
R3.0	1000	6000	0.08	0.07	1000	6200	0	0.07
R4.0	1200	5500	0.1	0.09	1200	5800	0	0.09
R5.0	1200	5000	0.11	0.12	1200	5500	0	0.12
R6.0	1350	4500	0.13	0.12	1350	5000	0	0.12
R7.0	1350	4000	0.16	0.15	1350	4500	0	0.15
R8.0	1500	3500	0.16	0.15	1500	4000	0	0.15
R10.0	1500	3000	0.18	0.18	1500	3500	0	0.18

### Жаропрочные сплавы

Сферическая	Начальные данные							
	Профильная обработка				Обработка пазов			
	f (мм/мин)	S (об/мин)	ae (мм)	ap (мм)	f (мм/мин)	S (об/мин)	ae (мм)	ap (мм)
R0.5	750	7500	0.01	0.015	800	7800	0	0.015
R0.75	750	7000	0.02	0.02	800	7500	0	0.02
R1.0	880	6800	0.02	0.03	900	7000	0	0.03
R1.5	950	6400	0.03	0.03	950	6800	0	0.03
R2.0	1000	6000	0.05	0.05	1000	6400	0	0.05
R3.0	1000	5700	0.08	0.07	1000	6000	0	0.07
R4.0	1150	5200	0.1	0.09	1200	5500	0	0.09
R5.0	1150	4600	0.11	0.12	1200	5000	0	0.12
R6.0	1280	4200	0.13	0.12	1350	4500	0	0.12
R7.0	1280	3800	0.16	0.15	1350	4000	0	0.15
R8.0	1450	3200	0.16	0.15	1500	3500	0	0.15
R10.0	1450	2800	0.18	0.18	1500	3000	0	0.18

## Титановые сплавы

Радиус при вершине	Начальные данные							
	Обработка торцов				Обработка стенок			
	f (мм/мин)	S (об/мин)	ae (мм)	ap (мм)	f (мм/мин)	S (об/мин)	ae (мм)	ap (мм)
D1R0.2	900	8000	0.6	0.01	800	8200	0.01	2
D2R0.5	1000	7500	1.2	0.025	900	7600	0.02	4
D3R0.5	1000	7000	1.8	0.04	900	7200	0.04	6
D4R0.5	1200	6500	2.4	0.05	1100	6800	0.06	8
D6R0.5	1200	6000	3.6	0.08	1100	6200	0.08	15
D8R0.5	1500	5800	4.8	0.1	1350	5800	0.1	15
D10R0.5	1500	5500	6.0	0.12	1350	5500	0.1	20
D12R0.5	1600	5000	7.2	0.12	1450	5200	0.12	20
D16R0.5	1600	4500	9.6	0.15	1500	4800	0.15	25
D18R0.5	1800	4000	10.8	0.18	1600	4200	0.15	30
D20R0.5	1800	3500	12.0	0.18	1600	3800	0.18	30

## Жаропрочные сплавы

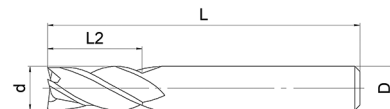
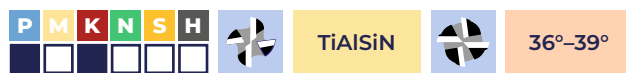
Радиус при вершине	Начальные данные							
	Обработка торцов				Обработка стенок			
	f (мм/мин)	S (об/мин)	ae (мм)	ap (мм)	f (мм/мин)	S (об/мин)	ae (мм)	ap (мм)
D1R0.2	800	7000	0.6	0.01	750	7500	0.01	2
D2R0.5	800	6000	1.2	0.025	750	7000	0.02	4
D3R0.5	950	6000	1.8	0.04	880	6500	0.03	6
D4R0.5	1100	5500	2.4	0.05	880	6000	0.06	8
D6R0.5	1100	5500	3.6	0.06	1000	6000	0.08	15
D8R0.5	1400	5000	4.8	0.09	1000	5500	0.08	15
D10R0.5	1400	4500	6.0	0.1	1200	5000	0.09	20
D12R0.5	1500	4000	7.2	0.12	1200	4500	0.1	20
D16R0.5	1500	3500	9.6	0.14	1500	3700	0.11	25
D18R0.5	1600	3200	10.8	0.14	1500	3400	0.14	30
D20R0.5	1600	2800	12.0	0.15	1600	3100	0.16	30

# TUS20

Фрезы для высокоэффективной обработки

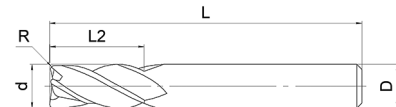


## Концевая фреза



Артикул Tactic	d	L2	L	D
TUS20-ST4-1-3A	1	3	50	4
TUS20-ST4-2-6A	2	6	50	4
TUS20-ST4-3-8A	3	8	50	4
TUS20-ST4-4-11A	4	11	50	4
TUS20-ST4-4-11A-S6	4	11	50	6
TUS20-ST4-5-13A	5	13	50	6
TUS20-ST4-6-15A	6	15	50	6
TUS20-ST4-8-20B	8	20	60	8
TUS20-ST4-10-25C	10	25	75	10
TUS20-ST4-12-30C	12	30	75	12
TUS20-ST4-16-35D	16	35	100	16
TUS20-ST4-20-40D	20	40	100	20

## Концевая фреза



Артикул Tactic	d	R	L2	L	D
TUS20-RT4-1R0.2-3A	1	0.2	3	50	4
TUS20-RT4-2R0.2-6A	2	0.2	6	50	4
TUS20-RT4-3R0.5-8A	3	0.5	8	50	4
TUS20-RT4-4R0.5-11A	4	0.5	11	50	4
TUS20-RT4-4R0.5-11A-S6	4	0.5	11	50	6
TUS20-RT4-5R0.5-13A	5	0.5	13	50	6
TUS20-RT4-6R0.5-15A	6	0.5	15	50	6
TUS20-RT4-6R1-15A	6	1	15	50	6
TUS20-RT4-8R0.5-20B	8	0.5	20	60	8
TUS20-RT4-8R1-20B	8	1	20	60	8
TUS20-RT4-8R2-20B	8	2	20	60	8
TUS20-RT4-10R0.5-25C	10	0.5	25	75	10
TUS20-RT4-10R1-25C	10	1	25	75	10
TUS20-RT4-10R2-25C	10	2	25	75	10
TUS20-RT4-12R0.5-30C	12	0.5	30	75	12
TUS20-RT4-12R1-30C	12	1	30	75	12
TUS20-RT4-12R2-30C	12	2	30	75	12
TUS20-RT4-12R3-30C	12	3	30	75	12
TUS20-RT4-16R0.5-35D	16	0.5	35	100	16
TUS20-RT4-16R1-35D	16	1	35	100	16
TUS20-RT4-16R2-35D	16	2	35	100	16
TUS20-RT4-16R3-35D	16	3	35	100	16
TUS20-RT4-20R0.5-40D	20	0.5	40	100	20
TUS20-RT4-20R1-40D	20	1	40	100	20
TUS20-RT4-20R2-40D	20	2	40	100	20
TUS20-RT4-20R3-40D	20	3	40	100	20

## Сталь, чугун

### Начальные данные

Плоский торец	Высокопроизводительная обработка стенок			
	f (мм/мин)	S (об/мин)	ae (мм)	ap (мм)
D1.0	120	8200	0.1	1.5
D2.0	200	6300	0.2	3
D3.0	350	5400	0.3	4.5
D4.0	480	4200	0.4	6
D6.0	520	3800	0.6	9
D8.0	550	3000	0.8	12
D10.0	580	2500	1.0	15
D12.0	600	2200	1.2	18
D14.0	620	1800	1.4	21
D16.0	620	1600	1.6	24
D18.0	580	1500	1.8	27
D20.0	550	1200	2	30

## Сталь, чугун

### Начальные данные

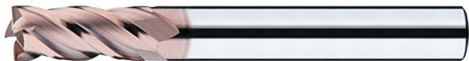
Радиус при вершине	Высокопроизводительная обработка стенок			
	f (мм/мин)	S (об/мин)	ae (мм)	ap (мм)
D1R0.2	65	8800	0.2	1.5
D2R0.5	100	7500	0.4	3
D3R0.5	150	6400	0.6	4.5
D4R0.5	280	4500	0.8	6
D6R0.5	320	3800	1.2	9
D8R0.5	350	3400	1.6	12
D10R0.5	380	3000	2	15
D12R0.5	420	2600	2.4	18
D16R0.5	400	2200	3.2	24
D18R0.5	380	1800	3.6	27
D20R0.5	350	1500	4	30

# THU20

Фрезы для стандартной обработки закаленных сталей

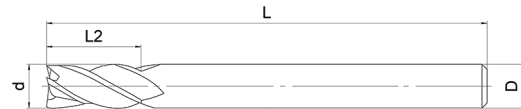


## Концевая фреза



Артикул Tactic	d	L2	L	D
THU20-ST4-1-3A	1	3	50	4
THU20-ST4-1.5-4.5A	1.5	4.5	50	4
THU20-ST4-2-6A	2	6	50	4
THU20-ST4-2.5-7A	2.5	7	50	4
THU20-ST4-3-8A	3	8	50	4
THU20-ST4-3.5-10A	3.5	10	50	4
THU20-ST4-4-11A	4	11	50	4
THU20-ST4-4.5-13A	4.5	13	50	6
THU20-ST4-5-13A	5	13	50	6
THU20-ST4-5.5-13A	5.5	13	50	6
THU20-ST4-6-15A	6	15	50	6
THU20-ST4-6.5-17B	6.5	17	60	8
THU20-ST4-7-17B	7	17	60	8
THU20-ST4-7.5-17B	7.5	17	60	8
THU20-ST4-8-20B	8	20	60	8
THU20-ST4-8.5-23C	8.5	23	75	10
THU20-ST4-9-23C	9	23	75	10
THU20-ST4-9.5-25C	9.5	25	75	10
THU20-ST4-10-25C	10	25	75	10
THU20-ST4-10.5-25C	10.5	25	75	12
THU20-ST4-11-28C	11	28	75	12
THU20-ST4-11.5-28C	11.5	28	75	12
THU20-ST4-12-30C	12	30	75	12
THU20-ST4-13-33D	13	33	100	14
THU20-ST4-14-35D	14	35	100	14
THU20-ST4-15-38D	15	38	100	16
THU20-ST4-16-40D	16	40	100	16
THU20-ST4-17-40D	17	40	100	18
THU20-ST4-18-40D	18	40	100	18
THU20-ST4-19-40D	19	40	100	20
THU20-ST4-20-40D	20	40	100	20
THU20-ST4-22-40D	22	40	100	25
THU20-ST4-25-40D	25	40	100	25

Концевая фреза  
с удлиненным хвостовиком



Артикул Tactic	d	L2	L	D
THU20-SH4-1-3C	1	3	75	4
THU20-SH4-1.5-4.5C	1.5	4.5	75	4
THU20-SH4-2-6C	2	6	75	4
THU20-SH4-2.5-7C	2.5	7	75	4
THU20-SH4-3-8C	3	8	75	4
THU20-SH4-3.5-10C	3.5	10	75	4
THU20-SH4-4-11C	4	11	75	4
THU20-SH4-4.5-13C	4.5	13	75	6
THU20-SH4-5-15C	5	15	75	6
THU20-SH4-5.5-15C	5.5	15	75	6
THU20-SH4-6-15C	6	15	75	6
THU20-SH4-6.5-17C	6.5	17	75	8
THU20-SH4-7-17C	7	17	75	8
THU20-SH4-7.5-17C	7.5	17	75	8
THU20-SH4-8-20C	8	20	75	8
THU20-SH4-3-8D	3	8	100	4
THU20-SH4-4-11D	4	11	100	4
THU20-SH4-5-15D	5	15	100	6
THU20-SH4-6-15D	6	15	100	6
THU20-SH4-7-17D	7	17	100	8
THU20-SH4-8-20D	8	20	100	8
THU20-SH4-9-23D	9	23	100	10
THU20-SH4-10-30D	10	30	100	10
THU20-SH4-11-30D	11	30	100	12
THU20-SH4-12-30D	12	30	100	12
THU20-SH4-10-40E	10	40	120	10
THU20-SH4-12-45E	12	45	120	12
THU20-SH4-8-40F	8	40	150	8
THU20-SH4-10-50F	10	50	150	10
THU20-SH4-12-50F	12	50	150	12
THU20-SH4-16-65F	16	65	150	16
THU20-SH4-18-65F	18	65	150	18
THU20-SH4-20-75F	20	75	150	20
THU20-SH4-10-60G	10	60	200	10
THU20-SH4-12-80G	12	80	200	12
THU20-SH4-16-80G	16	80	200	16
THU20-SH4-20-100G	20	100	200	20

Концевая фреза  
сферическая

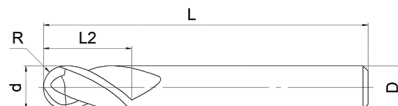


TiAlSiN



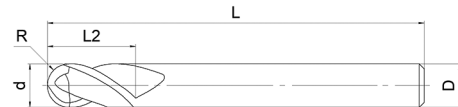
30°

HRC≤60



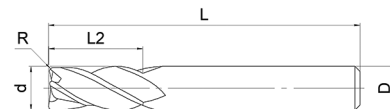
Артикул Tactic	R	L2	L	D
THU20-BT2-1-2A	R0.5	2	50	4
THU20-BT2-1.5-3A	R0.75	3	50	4
THU20-BT2-2-4A	R1	4	50	4
THU20-BT2-2.5-5A	R1.25	5	50	4
THU20-BT2-3-6A	R1.5	6	50	4
THU20-BT2-3.5-7A	R1.75	7	50	4
THU20-BT2-4-8A	R2	8	50	4
THU20-BT2-4.5-9A	R2.25	9	50	6
THU20-BT2-5-10A	R2.5	10	50	6
THU20-BT2-5.5-11A	R2.75	11	50	6
THU20-BT2-6-12A	R3	12	50	6
THU20-BT2-6.5-13B	R3.25	13	60	8
THU20-BT2-7-14B	R3.5	14	60	8
THU20-BT2-7.5-15B	R3.75	15	60	8
THU20-BT2-8-16B	R4	16	60	8
THU20-BT2-9-18C	R4.5	18	75	10
THU20-BT2-10-20C	R5	20	75	10
THU20-BT2-12-24C	R6	24	75	12
THU20-BT2-16-32D	R8	32	100	16
THU20-BT2-20-40D	R10	40	100	20
THU20-BT2-25-50D	R12.5	50	100	25

Концевая фреза сферическая  
с удлиненным хвостовиком



Артикул Tactic	R	L2	L	D
THU20-BH2-1-2C	R0.5	2	75	4
THU20-BH2-1.5-3C	R0.75	3	75	4
THU20-BH2-2-4C	R1	4	75	4
THU20-BH2-2.5-5C	R1.25	5	75	4
THU20-BH2-3-6C	R1.5	6	75	4
THU20-BH2-3.5-7C	R1.75	7	75	4
THU20-BH2-4-8C	R2	8	75	4
THU20-BH2-4.5-9C	R2.25	9	75	6
THU20-BH2-5-10C	R2.5	10	75	6
THU20-BH2-5.5-11C	R2.75	11	75	6
THU20-BH2-6-12C	R3	12	75	6
THU20-BH2-8-16C	R4	16	75	8
THU20-BH2-1-2D	R0.5	2	100	4
THU20-BH2-1.5-3D	R0.75	3	100	4
THU20-BH2-2-4D	R1	4	100	4
THU20-BH2-2.5-5D	R1.25	5	100	4
THU20-BH2-3-6D	R1.5	6	100	4
THU20-BH2-3.5-7D	R1.75	7	100	4
THU20-BH2-4-8D	R2	8	100	4
THU20-BH2-4.5-9D	R2.25	9	100	6
THU20-BH2-5-10D	R2.5	10	100	6
THU20-BH2-5.5-11D	R2.75	11	100	6
THU20-BH2-6-12D	R3	12	100	6
THU20-BH2-8-16D	R4	16	100	8
THU20-BH2-10-20D	R5	20	100	10
THU20-BH2-12-24D	R6	24	100	12
THU20-BH2-10-20E	R5	20	120	10
THU20-BH2-12-24E	R6	24	120	12
THU20-BH2-6-12F	R3	12	150	6
THU20-BH2-8-16F	R4	16	150	8
THU20-BH2-10-20F	R5	20	150	10
THU20-BH2-12-24F	R6	24	150	12
THU20-BH2-16-32F	R8	32	150	16
THU20-BH2-20-40F	R10	40	150	20
THU20-BH2-8-16G	R4	16	200	8
THU20-BH2-10-20G	R5	20	200	10
THU20-BH2-12-24G	R6	24	200	12
THU20-BH2-16-32G	R8	32	200	16
THU20-BH2-20-40G	R10	40	200	20

## Концевая фреза



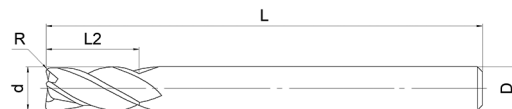
Артикул Tactic	d	R	L2	L	D
THU20-RS4-1R0.1-3A	1	0.1	3	50	4
THU20-RS4-1R0.2-3A	1	0.2	3	50	4
THU20-RS4-1R0.3-3A	1	0.3	3	50	4
THU20-RS4-1.5R0.1-4.5A	1.5	0.1	4.5	50	4
THU20-RS4-1.5R0.2-4.5A	1.5	0.2	4.5	50	4
THU20-RS4-1.5R0.3-4.5A	1.5	0.3	4.5	50	4
THU20-RS4-1.5R0.5-4.5A	1.5	0.5	4.5	50	4
THU20-RS4-2R0.1-6A	2	0.1	6	50	4
THU20-RS4-2R0.2-6A	2	0.2	6	50	4
THU20-RS4-2R0.3-6A	2	0.3	6	50	4
THU20-RS4-2R0.5-6A	2	0.5	6	50	4
THU20-RS4-2.5R0.1-7.5A	2.5	0.1	7.5	50	4
THU20-RS4-2.5R0.2-7.5A	2.5	0.2	7.5	50	4
THU20-RS4-2.5R0.3-7.5A	2.5	0.3	7.5	50	4
THU20-RS4-2.5R0.5-7.5A	2.5	0.5	7.5	50	4
THU20-RS4-3R0.1-8A	3	0.1	8	50	4
THU20-RS4-3R0.2-8A	3	0.2	8	50	4
THU20-RS4-3R0.3-8A	3	0.3	8	50	4
THU20-RS4-3R0.5-8A	3	0.5	8	50	4
THU20-RS4-3R1-8A	3	1	8	50	4
THU20-RS4-4R0.1-11A	4	0.1	11	50	4
THU20-RS4-4R0.2-11A	4	0.2	11	50	4
THU20-RS4-4R0.3-11A	4	0.3	11	50	4
THU20-RS4-4R0.5-11A	4	0.5	11	50	4
THU20-RS4-4R1-11A	4	1	11	50	4
THU20-RS4-5R0.2-13A	5	0.2	13	50	5
THU20-RS4-5R0.5-13A	5	0.5	13	50	5
THU20-RS4-5R1-13A	5	1	13	50	5
THU20-RS4-6R0.1-15A	6	0.1	15	50	6
THU20-RS4-6R0.2-15A	6	0.2	15	50	6
THU20-RS4-6R0.3-15A	6	0.3	15	50	6
THU20-RS4-6R0.5-15A	6	0.5	15	50	6
THU20-RS4-6R1-15A	6	1	15	50	6
THU20-RS4-6R1.5-15A	6	1.5	15	50	6
THU20-RS4-6R2-15A	6	2	15	50	6
THU20-RS4-8R0.2-20B	8	0.2	20	60	8
THU20-RS4-8R0.3-20B	8	0.3	20	60	8
THU20-RS4-8R0.5-20B	8	0.5	20	60	8
THU20-RS4-8R1-20B	8	1	20	60	8
THU20-RS4-8R1.5-20B	8	1.5	20	60	8
THU20-RS4-8R2-20B	8	2	20	60	8
THU20-RS4-8R2.5-20B	8	2.5	20	60	8
THU20-RS4-8R3-20B	8	3	20	60	8
THU20-RS4-10R0.2-25C	10	0.2	25	75	10
THU20-RS4-10R0.3-25C	10	0.3	25	75	10
THU20-RS4-10R0.5-25C	10	0.5	25	75	10
THU20-RS4-10R1-25C	10	1	25	75	10
THU20-RS4-10R1.5-25C	10	1.5	25	75	10
THU20-RS4-10R2-25C	10	2	25	75	10
THU20-RS4-10R2.5-25C	10	2.5	25	75	10
THU20-RS4-10R3-25C	10	3	25	75	10
THU20-RS4-10R4-25C	10	4	25	75	10
THU20-RS4-12R0.2-30C	12	0.2	30	75	12
THU20-RS4-12R0.3-30C	12	0.3	30	75	12

## Концевая фреза



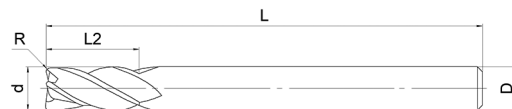
Артикул Tactic	d	R	L2	L	D
THU20-RS4-12R0.5-30C	12	0.5	30	75	12
THU20-RS4-12R1-30C	12	1	30	75	12
THU20-RS4-12R1.5-30C	12	1.5	30	75	12
THU20-RS4-12R2-30C	12	2	30	75	12
THU20-RS4-12R2.5-30C	12	2.5	30	75	12
THU20-RS4-12R3-30C	12	3	30	75	12
THU20-RS4-12R4-30C	12	4	30	75	12
THU20-RS4-12R5-30C	12	5	30	75	12
THU20-RS4-14R0.5-35D	14	0.5	35	100	14
THU20-RS4-14R1-35D	14	1	35	100	14
THU20-RS4-14R1.5-35D	14	1.5	35	100	14
THU20-RS4-14R2-35D	14	2	35	100	14
THU20-RS4-14R2.5-35D	14	2.5	35	100	14
THU20-RS4-14R3-35D	14	3	35	100	14
THU20-RS4-14R4-35D	14	4	35	100	14
THU20-RS4-14R5-35D	14	5	35	100	14
THU20-RS4-16R0.5-40D	16	0.5	40	100	16
THU20-RS4-16R1-40D	16	1	40	100	16
THU20-RS4-16R1.5-40D	16	1.5	40	100	16
THU20-RS4-16R2-40D	16	2	40	100	16
THU20-RS4-16R2.5-40D	16	2.5	40	100	16
THU20-RS4-16R3-40D	16	3	40	100	16
THU20-RS4-16R4-40D	16	4	40	100	16
THU20-RS4-16R5-40D	16	5	40	100	16
THU20-RS4-20R0.5-45D	20	0.5	45	100	20
THU20-RS4-20R1-45D	20	1	45	100	20
THU20-RS4-20R1.5-45D	20	1.5	45	100	20
THU20-RS4-20R2-45D	20	2	45	100	20
THU20-RS4-20R2.5-45D	20	2.5	45	100	20
THU20-RS4-20R3-45D	20	3	45	100	20
THU20-RS4-20R4-45D	20	4	45	100	20
THU20-RS4-20R5-45D	20	5	45	100	20

Концевая фреза  
с удлиненным хвостовиком



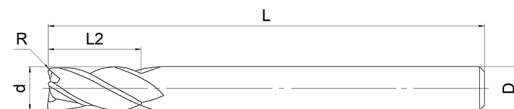
Артикул Tactic	d	R	L2	L	D
THU20-RH4-1R0.1-3C	1	0.1	3	75	4
THU20-RH4-1R0.2-3C	1	0.2	3	75	4
THU20-RH4-1R0.3-3C	1	0.3	3	75	4
THU20-RH4-1.5R0.1-4.5C	1.5	0.1	4.5	75	4
THU20-RH4-1.5R0.2-4.5C	1.5	0.2	4.5	75	4
THU20-RH4-1.5R0.3-4.5C	1.5	0.3	4.5	75	4
THU20-RH4-1.5R0.5-4.5C	1.5	0.5	4.5	75	4
THU20-RH4-2R0.1-6C	2	0.1	6	75	4
THU20-RH4-2R0.2-6C	2	0.2	6	75	4
THU20-RH4-2R0.3-6C	2	0.3	6	75	4
THU20-RH4-2R0.5-6C	2	0.5	6	75	4
THU20-RH4-2.5R0.1-7.5C	2.5	0.1	7.5	75	4
THU20-RH4-2.5R0.2-7.5C	2.5	0.2	7.5	75	4
THU20-RH4-2.5R0.3-7.5C	2.5	0.3	7.5	75	4
THU20-RH4-2.5R0.5-7.5C	2.5	0.5	7.5	75	4
THU20-RH4-3R0.1-8C	3	0.1	8	75	4
THU20-RH4-3R0.2-8C	3	0.2	8	75	4
THU20-RH4-3R0.3-8C	3	0.3	8	75	4
THU20-RH4-3R0.5-8C	3	0.5	8	75	4
THU20-RH4-3R1-8C	3	1	8	75	4
THU20-RH4-4R0.1-11C	4	0.1	11	75	4
THU20-RH4-4R0.2-11C	4	0.2	11	75	4
THU20-RH4-4R0.3-11C	4	0.3	11	75	4
THU20-RH4-4R0.5-11C	4	0.5	11	75	4
THU20-RH4-4R1-11C	4	1	11	75	4
THU20-RH4-5R0.2-15C	5	0.2	15	75	5
THU20-RH4-5R0.5-15C	5	0.5	15	75	5
THU20-RH4-5R1-15C	5	1	15	75	5
THU20-RH4-6R0.1-15C	6	0.1	15	75	6
THU20-RH4-6R0.2-15C	6	0.2	15	75	6
THU20-RH4-6R0.3-15C	6	0.3	15	75	6
THU20-RH4-6R0.5-15C	6	0.5	15	75	6
THU20-RH4-6R1-15C	6	1	15	75	6
THU20-RH4-6R1.5-15C	6	1.5	15	75	6
THU20-RH4-6R2-15C	6	2	15	75	6
THU20-RH4-8R0.2-20C	8	0.2	20	75	8
THU20-RH4-8R0.3-20C	8	0.3	20	75	8
THU20-RH4-8R0.5-20C	8	0.5	20	75	8
THU20-RH4-8R1-20C	8	1	20	75	8
THU20-RH4-8R1.5-20C	8	1.5	20	75	8
THU20-RH4-8R2-20C	8	2	20	75	8
THU20-RH4-8R2.5-20C	8	2.5	20	75	8
THU20-RH4-8R3-20C	8	3	20	75	8
THU20-RH4-1R0.1-3D	1	0.1	3	100	4
THU20-RH4-1R0.2-3D	1	0.2	3	100	4
THU20-RH4-1R0.3-3D	1	0.3	3	100	4
THU20-RH4-1.5R0.1-4.5D	1.5	0.1	4.5	100	4
THU20-RH4-1.5R0.2-4.5D	1.5	0.2	4.5	100	4
THU20-RH4-1.5R0.3-4.5D	1.5	0.3	4.5	100	4
THU20-RH4-1.5R0.5-4.5D	1.5	0.5	4.5	100	4
THU20-RH4-2R0.1-6D	2	0.1	6	100	4
THU20-RH4-2R0.2-6D	2	0.2	6	100	4
THU20-RH4-2R0.3-6D	2	0.3	6	100	4
THU20-RH4-2R0.5-6D	2	0.5	6	100	4

## Концевая фреза с удлиненным хвостовиком



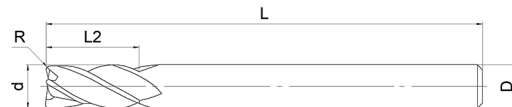
Артикул Tactic	d	R	L2	L	D
THU20-RH4-2.5R0.1-7.5D	2.5	0.1	7.5	100	4
THU20-RH4-2.5R0.2-7.5D	2.5	0.2	7.5	100	4
THU20-RH4-2.5R0.3-7.5D	2.5	0.3	7.5	100	4
THU20-RH4-2.5R0.5-7.5D	2.5	0.5	7.5	100	4
THU20-RH4-3R0.1-8D	3	0.1	8	100	4
THU20-RH4-3R0.2-8D	3	0.2	8	100	4
THU20-RH4-3R0.3-8D	3	0.3	8	100	4
THU20-RH4-3R0.5-8D	3	0.5	8	100	4
THU20-RH4-3R1-8D	3	1	8	100	4
THU20-RH4-4R0.1-11D	4	0.1	11	100	4
THU20-RH4-4R0.2-11D	4	0.2	11	100	4
THU20-RH4-4R0.3-11D	4	0.3	11	100	4
THU20-RH4-4R0.5-11D	4	0.5	11	100	4
THU20-RH4-4R1-11D	4	1	11	100	4
THU20-RH4-5R0.2-15D	5	0.2	15	100	5
THU20-RH4-5R0.5-15D	5	0.5	15	100	5
THU20-RH4-5R1-15D	5	1	15	100	5
THU20-RH4-6R0.1-15D	6	0.1	15	100	6
THU20-RH4-6R0.2-15D	6	0.2	15	100	6
THU20-RH4-6R0.3-15D	6	0.3	15	100	6
THU20-RH4-6R0.5-15D	6	0.5	15	100	6
THU20-RH4-6R1-15D	6	1	15	100	6
THU20-RH4-6R1.5-15D	6	1.5	15	100	6
THU20-RH4-6R2-15D	6	2	15	100	6
THU20-RH4-8R0.2-20D	8	0.2	20	100	8
THU20-RH4-8R0.3-20D	8	0.3	20	100	8
THU20-RH4-8R0.5-20D	8	0.5	20	100	8
THU20-RH4-8R1-20D	8	1	20	100	8
THU20-RH4-8R1.5-20D	8	1.5	20	100	8
THU20-RH4-8R2-20D	8	2	20	100	8
THU20-RH4-8R2.5-20D	8	2.5	20	100	8
THU20-RH4-8R3-20D	8	3	20	100	8
THU20-RH4-10R0.2-30D	10	0.2	30	100	10
THU20-RH4-10R0.3-30D	10	0.3	30	100	10
THU20-RH4-10R0.5-30D	10	0.5	30	100	10
THU20-RH4-10R1-30D	10	1	30	100	10
THU20-RH4-10R1.5-30D	10	1.5	30	100	10
THU20-RH4-10R2-30D	10	2	30	100	10
THU20-RH4-10R2.5-30D	10	2.5	30	100	10
THU20-RH4-10R3-30D	10	3	30	100	10
THU20-RH4-10R4-30D	10	4	30	100	10
THU20-RH4-12R0.2-30D	12	0.2	30	100	12
THU20-RH4-12R0.3-30D	12	0.3	30	100	12
THU20-RH4-12R0.5-30D	12	0.5	30	100	12
THU20-RH4-12R1-30D	12	1	30	100	12
THU20-RH4-12R1.5-30D	12	1.5	30	100	12
THU20-RH4-12R2-30D	12	2	30	100	12
THU20-RH4-12R2.5-30D	12	2.5	30	100	12
THU20-RH4-12R3-30D	12	3	30	100	12
THU20-RH4-12R4-30D	12	4	30	100	12
THU20-RH4-12R5-30D	12	5	30	100	12
THU20-RH4-8R0.2-30E	8	0.2	30	120	8
THU20-RH4-8R0.3-30E	8	0.3	30	120	8
THU20-RH4-8R0.5-30E	8	0.5	30	120	8

## Концевая фреза с удлиненным хвостовиком



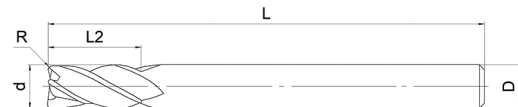
Артикул Tactic	d	R	L2	L	D
THU20-RH4-8R1-30E	8	1	30	120	8
THU20-RH4-8R1.5-30E	8	1.5	30	120	8
THU20-RH4-8R2-30E	8	2	30	120	8
THU20-RH4-8R2.5-30E	8	2.5	30	120	8
THU20-RH4-8R3-30E	8	3	30	120	8
THU20-RH4-10R0.2-30E	10	0.2	30	120	10
THU20-RH4-10R0.3-30E	10	0.3	30	120	10
THU20-RH4-10R0.5-30E	10	0.5	30	120	10
THU20-RH4-10R1-30E	10	1	30	120	10
THU20-RH4-10R1.5-30E	10	1.5	30	120	10
THU20-RH4-10R2-30E	10	2	30	120	10
THU20-RH4-10R2.5-30E	10	2.5	30	120	10
THU20-RH4-10R3-30E	10	3	30	120	10
THU20-RH4-10R4-30E	10	4	30	120	10
THU20-RH4-12R0.2-30E	12	0.2	30	120	12
THU20-RH4-12R0.3-30E	12	0.3	30	120	12
THU20-RH4-12R0.5-30E	12	0.5	30	120	12
THU20-RH4-12R1-30E	12	1	30	120	12
THU20-RH4-12R1.5-30E	12	1.5	30	120	12
THU20-RH4-12R2-30E	12	2	30	120	12
THU20-RH4-12R2.5-30E	12	2.5	30	120	12
THU20-RH4-12R3-30E	12	3	30	120	12
THU20-RH4-12R4-30E	12	4	30	120	12
THU20-RH4-12R5-30E	12	5	30	120	12
THU20-RH4-6R0.1-30F	6	0.1	30	150	6
THU20-RH4-6R0.2-30F	6	0.2	30	150	6
THU20-RH4-6R0.3-30F	6	0.3	30	150	6
THU20-RH4-6R0.5-30F	6	0.5	30	150	6
THU20-RH4-6R1-30F	6	1	30	150	6
THU20-RH4-6R1.5-30F	6	1.5	30	150	6
THU20-RH4-6R2-30F	6	2	30	150	6
THU20-RH4-8R0.2-30F	8	0.2	30	150	8
THU20-RH4-8R0.3-30F	8	0.3	30	150	8
THU20-RH4-8R0.5-30F	8	0.5	30	150	8
THU20-RH4-8R1-30F	8	1	30	150	8
THU20-RH4-8R1.5-30F	8	1.5	30	150	8
THU20-RH4-8R2-30F	8	2	30	150	8
THU20-RH4-8R2.5-30F	8	2.5	30	150	8
THU20-RH4-8R3-30F	8	3	30	150	8
THU20-RH4-10R0.2-35F	10	0.2	35	150	10
THU20-RH4-10R0.3-35F	10	0.3	35	150	10
THU20-RH4-10R0.5-35F	10	0.5	35	150	10
THU20-RH4-10R1-35F	10	1	35	150	10
THU20-RH4-10R1.5-35F	10	1.5	35	150	10
THU20-RH4-10R2-35F	10	2	35	150	10
THU20-RH4-10R2.5-35F	10	2.5	35	150	10
THU20-RH4-10R3-35F	10	3	35	150	10
THU20-RH4-10R4-35F	10	4	35	150	10
THU20-RH4-12R0.2-35F	12	0.2	35	150	12
THU20-RH4-12R0.3-35F	12	0.3	35	150	12
THU20-RH4-12R0.5-35F	12	0.5	35	150	12
THU20-RH4-12R1-35F	12	1	35	150	12
THU20-RH4-12R1.5-35F	12	1.5	35	150	12
THU20-RH4-12R2-35F	12	2	35	150	12

Концевая фреза  
с удлиненным хвостовиком



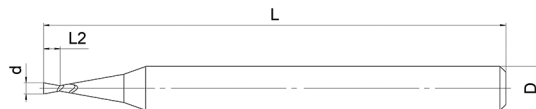
Артикул Tactic	d	R	L2	L	D
THU20-RH4-12R2.5-35F	12	2.5	35	150	12
THU20-RH4-12R3-35F	12	3	35	150	12
THU20-RH4-12R4-35F	12	4	35	150	12
THU20-RH4-12R5-35F	12	5	35	150	12
THU20-RH4-14R0.5-40F	14	0.5	40	150	14
THU20-RH4-14R1-40F	14	1	40	150	14
THU20-RH4-14R1.5-40F	14	1.5	40	150	14
THU20-RH4-14R2-40F	14	2	40	150	14
THU20-RH4-14R2.5-40F	14	2.5	40	150	14
THU20-RH4-14R3-40F	14	3	40	150	14
THU20-RH4-14R4-40F	14	4	40	150	14
THU20-RH4-14R5-40F	14	5	40	150	14
THU20-RH4-16R0.5-40F	16	0.5	40	150	16
THU20-RH4-16R1-40F	16	1	40	150	16
THU20-RH4-16R1.5-40F	16	1.5	40	150	16
THU20-RH4-16R2-40F	16	2	40	150	16
THU20-RH4-16R2.5-40F	16	2.5	40	150	16
THU20-RH4-16R3-40F	16	3	40	150	16
THU20-RH4-16R4-40F	16	4	40	150	16
THU20-RH4-16R5-40F	16	5	40	150	16
THU20-RH4-20R0.5-50F	20	0.5	50	150	20
THU20-RH4-20R1-50F	20	1	50	150	20
THU20-RH4-20R1.5-50F	20	1.5	50	150	20
THU20-RH4-20R2-50F	20	2	50	150	20
THU20-RH4-20R2.5-50F	20	2.5	50	150	20
THU20-RH4-20R3-50F	20	3	50	150	20
THU20-RH4-20R4-50F	20	4	50	150	20
THU20-RH4-20R5-50F	20	5	50	150	20
THU20-RH4-6R0.1-30G	6	0.1	30	200	6
THU20-RH4-6R0.2-30G	6	0.2	30	200	6
THU20-RH4-6R0.3-30G	6	0.3	30	200	6
THU20-RH4-6R0.5-30G	6	0.5	30	200	6
THU20-RH4-6R1-30G	6	1	30	200	6
THU20-RH4-6R1.5-30G	6	1.5	30	200	6
THU20-RH4-6R2-30G	6	2	30	200	6
THU20-RH4-8R0.2-40G	8	0.2	40	200	8
THU20-RH4-8R0.3-40G	8	0.3	40	200	8
THU20-RH4-8R0.5-40G	8	0.5	40	200	8
THU20-RH4-8R1-40G	8	1	40	200	8
THU20-RH4-8R1.5-40G	8	1.5	40	200	8
THU20-RH4-8R2-40G	8	2	40	200	8
THU20-RH4-8R2.5-40G	8	2.5	40	200	8
THU20-RH4-8R3-40G	8	3	40	200	8
THU20-RH4-10R0.2-40G	10	0.2	40	200	10
THU20-RH4-10R0.3-40G	10	0.3	40	200	10
THU20-RH4-10R0.5-40G	10	0.5	40	200	10
THU20-RH4-10R1-40G	10	1	40	200	10
THU20-RH4-10R1.5-40G	10	1.5	40	200	10
THU20-RH4-10R2-40G	10	2	40	200	10
THU20-RH4-10R2.5-40G	10	2.5	40	200	10
THU20-RH4-10R3-40G	10	3	40	200	10
THU20-RH4-10R4-40G	10	4	40	200	10
THU20-RH4-12R0.2-40G	12	0.2	40	200	12
THU20-RH4-12R0.3-40G	12	0.3	40	200	12

Концевая фреза  
с удлиненным хвостовиком



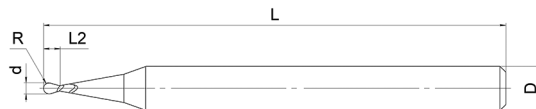
Артикул Tactic	d	R	L2	L	D
THU20-RH4-12R0.5-40G	12	0.5	40	200	12
THU20-RH4-12R1-40G	12	1	40	200	12
THU20-RH4-12R1.5-40G	12	1.5	40	200	12
THU20-RH4-12R2-40G	12	2	40	200	12
THU20-RH4-12R2.5-40G	12	2.5	40	200	12
THU20-RH4-12R3-40G	12	3	40	200	12
THU20-RH4-12R4-40G	12	4	40	200	12
THU20-RH4-12R5-40G	12	5	40	200	12
THU20-RH4-14R0.5-50G	14	0.5	50	200	14
THU20-RH4-14R1-50G	14	1	50	200	14
THU20-RH4-14R1.5-50G	14	1.5	50	200	14
THU20-RH4-14R2-50G	14	2	50	200	14
THU20-RH4-14R2.5-50G	14	2.5	50	200	14
THU20-RH4-14R3-50G	14	3	50	200	14
THU20-RH4-14R4-50G	14	4	50	200	14
THU20-RH4-14R5-50G	14	5	50	200	14
THU20-RH4-16R0.5-50G	16	0.5	50	200	16
THU20-RH4-16R1-50G	16	1	50	200	16
THU20-RH4-16R1.5-50G	16	1.5	50	200	16
THU20-RH4-16R2-50G	16	2	50	200	16
THU20-RH4-16R2.5-50G	16	2.5	50	200	16
THU20-RH4-16R3-50G	16	3	50	200	16
THU20-RH4-16R4-50G	16	4	50	200	16
THU20-RH4-16R5-50G	16	5	50	200	16
THU20-RH4-20R0.5-50G	20	0.5	50	200	20
THU20-RH4-20R1-50G	20	1	50	200	20
THU20-RH4-20R1.5-50G	20	1.5	50	200	20
THU20-RH4-20R2-50G	20	2	50	200	20
THU20-RH4-20R2.5-50G	20	2.5	50	200	20
THU20-RH4-20R3-50G	20	3	50	200	20
THU20-RH4-20R4-50G	20	4	50	200	20
THU20-RH4-20R5-50G	20	5	50	200	20

## Концевая микрофреза



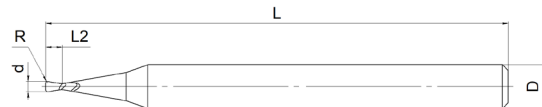
Артикул Tactic	d	L2	L	D
THU20-ST2-0.05-0.1A	0.05	0.1	50	4
THU20-ST2-0.06-0.12A	0.06	0.12	50	4
THU20-ST2-0.07-0.14A	0.07	0.14	50	4
THU20-ST2-0.08-0.16A	0.08	0.16	50	4
THU20-ST2-0.09-0.18A	0.09	0.18	50	4
THU20-ST2-0.1-0.2A	0.1	0.2	50	4
THU20-ST2-0.15-0.3A	0.15	0.3	50	4
THU20-ST2-0.2-0.4A	0.2	0.4	50	4
THU20-ST2-0.3-0.6A	0.3	0.6	50	4
THU20-ST2-0.4-0.8A	0.4	0.8	50	4
THU20-ST2-0.5-1A	0.5	1	50	4
THU20-ST2-0.6-1.2A	0.6	1.2	50	4
THU20-ST2-0.7-1.4A	0.7	1.4	50	4
THU20-ST2-0.8-1.6A	0.8	1.6	50	4
THU20-ST2-0.9-1.8A	0.9	1.8	50	4

Концевая микрофреза  
сферическая



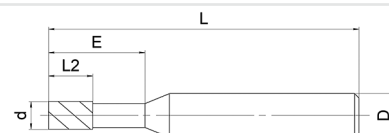
Артикул Tactic	R	L2	L	D
THU20-BT2-0.05-0.1A	R0.025	0.1	50	4
THU20-BT2-0.06-0.12A	R0.03	0.12	50	4
THU20-BT2-0.07-0.14A	R0.035	0.14	50	4
THU20-BT2-0.08-0.16A	R0.04	0.16	50	4
THU20-BT2-0.09-0.18A	R0.045	0.18	50	4
THU20-BT2-0.1-0.2A	R0.05	0.2	50	4
THU20-BT2-0.12-0.24A	R0.06	0.24	50	4
THU20-BT2-0.14-0.28A	R0.07	0.28	50	4
THU20-BT2-0.16-0.32A	R0.08	0.32	50	4
THU20-BT2-0.18-0.36A	R0.09	0.36	50	4
THU20-BT2-0.2-0.4A	R0.1	0.4	50	4
THU20-BT2-0.3-0.6A	R0.15	0.6	50	4
THU20-BT2-0.4-0.8A	R0.2	0.8	50	4
THU20-BT2-0.5-1A	R0.25	1	50	4
THU20-BT2-0.6-1.2A	R0.3	1.2	50	4
THU20-BT2-0.7-1.4A	R0.35	1.4	50	4
THU20-BT2-0.8-1.6A	R0.4	1.6	50	4
THU20-BT2-0.9-1.8A	R0.45	1.8	50	4

## Концевая микрофреза



Артикул Tactic	d	R	L2	L	D
THU20-RT2-0.1R0.01-0.2A	0.1	0.01	0.2	50	4
THU20-RT2-0.1R0.02-0.2A	0.1	0.02	0.2	50	4
THU20-RT2-0.15R0.01-0.3A	0.15	0.01	0.3	50	4
THU20-RT2-0.15R0.02-0.3A	0.15	0.02	0.3	50	4
THU20-RT2-0.15R0.05-0.3A	0.15	0.05	0.3	50	4
THU20-RT2-0.2R0.02-0.4A	0.2	0.02	0.4	50	4
THU20-RT2-0.2R0.05-0.4A	0.2	0.05	0.4	50	4
THU20-RT2-0.25R0.02-0.5A	0.25	0.02	0.5	50	4
THU20-RT2-0.25R0.05-0.5A	0.25	0.05	0.5	50	4
THU20-RT2-0.3R0.02-0.6A	0.3	0.02	0.6	50	4
THU20-RT2-0.3R0.05-0.6A	0.3	0.05	0.6	50	4
THU20-RT2-0.4R0.02-0.8A	0.4	0.02	0.8	50	4
THU20-RT2-0.4R0.05-0.8A	0.4	0.05	0.8	50	4
THU20-RT2-0.4R0.1-0.8A	0.4	0.1	0.8	50	4
THU20-RT2-0.5R0.02-1A	0.5	0.02	1	50	4
THU20-RT2-0.5R0.05-1A	0.5	0.05	1	50	4
THU20-RT2-0.5R0.1-1A	0.5	0.1	1	50	4
THU20-RT2-0.6R0.02-1.2A	0.6	0.02	1.2	50	4
THU20-RT2-0.6R0.05-1.2A	0.6	0.05	1.2	50	4
THU20-RT2-0.6R0.1-1.2A	0.6	0.1	1.2	50	4
THU20-RT2-0.6R0.2-1.2A	0.6	0.2	1.2	50	4
THU20-RT2-0.7R0.02-1.4A	0.7	0.02	1.4	50	4
THU20-RT2-0.7R0.05-1.4A	0.7	0.05	1.4	50	4
THU20-RT2-0.7R0.1-1.4A	0.7	0.1	1.4	50	4
THU20-RT2-0.7R0.2-1.4A	0.7	0.2	1.4	50	4
THU20-RT2-0.8R0.02-1.6A	0.8	0.02	1.6	50	4
THU20-RT2-0.8R0.05-1.6A	0.8	0.05	1.6	50	4
THU20-RT2-0.8R0.1-1.6A	0.8	0.1	1.6	50	4
THU20-RT2-0.8R0.2-1.6A	0.8	0.2	1.6	50	4
THU20-RT2-0.9R0.05-1.8A	0.9	0.05	1.8	50	4
THU20-RT2-0.9R0.1-1.8A	0.9	0.1	1.8	50	4
THU20-RT2-0.9R0.2-1.8A	0.9	0.2	1.8	50	4

## Концевая микрофреза с обнижением



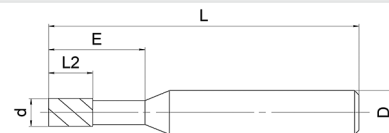
Артикул Tactic	d	R	L2	E	L	D
THU20-RN2-0.1R0.01-0.1N0.5A	0.1	0.01	0.1	0.5	50	4
THU20-RN2-0.1R0.01-0.1N1A	0.1	0.01	0.1	1	50	4
THU20-RN2-0.1R0.01-0.1N2A	0.1	0.01	0.1	2	50	4
THU20-RN2-0.1R0.02-0.1N0.5A	0.1	0.02	0.1	0.5	50	4
THU20-RN2-0.1R0.02-0.1N1A	0.1	0.02	0.1	1	50	4
THU20-RN2-0.1R0.02-0.1N2A	0.1	0.02	0.1	2	50	4
THU20-RN2-0.15R0.01-0.15N1A	0.15	0.01	0.15	1	50	4
THU20-RN2-0.15R0.01-0.15N2A	0.15	0.01	0.15	2	50	4
THU20-RN2-0.15R0.02-0.15N1A	0.15	0.02	0.15	1	50	4
THU20-RN2-0.15R0.02-0.15N2A	0.15	0.02	0.15	2	50	4
THU20-RN2-0.15R0.05-0.15N1A	0.15	0.05	0.15	1	50	4
THU20-RN2-0.15R0.05-0.15N2A	0.15	0.05	0.15	2	50	4
THU20-RN2-0.2R0.02-0.2N1A	0.2	0.02	0.2	1	50	4
THU20-RN2-0.2R0.02-0.2N2A	0.2	0.02	0.2	2	50	4
THU20-RN2-0.2R0.05-0.2N1A	0.2	0.05	0.2	1	50	4
THU20-RN2-0.2R0.05-0.2N2A	0.2	0.05	0.2	2	50	4
THU20-RN2-0.3R0.02-0.3N1A	0.3	0.02	0.3	1	50	4
THU20-RN2-0.3R0.02-0.3N2A	0.3	0.02	0.3	2	50	4
THU20-RN2-0.3R0.02-0.3N3A	0.3	0.02	0.3	3	50	4
THU20-RN2-0.3R0.05-0.3N1A	0.3	0.05	0.3	1	50	4
THU20-RN2-0.3R0.05-0.3N2A	0.3	0.05	0.3	2	50	4
THU20-RN2-0.3R0.05-0.3N3A	0.3	0.05	0.3	3	50	4
THU20-RN2-0.4R0.02-0.4N1A	0.4	0.02	0.4	1	50	4
THU20-RN2-0.4R0.02-0.4N2A	0.4	0.02	0.4	2	50	4
THU20-RN2-0.4R0.02-0.4N3A	0.4	0.02	0.4	3	50	4
THU20-RN2-0.4R0.02-0.4N4A	0.4	0.02	0.4	4	50	4
THU20-RN2-0.4R0.05-0.4N1A	0.4	0.05	0.4	1	50	4
THU20-RN2-0.4R0.05-0.4N2A	0.4	0.05	0.4	2	50	4
THU20-RN2-0.4R0.05-0.4N3A	0.4	0.05	0.4	3	50	4
THU20-RN2-0.4R0.05-0.4N4A	0.4	0.05	0.4	4	50	4
THU20-RN2-0.4R0.1-0.4N1A	0.4	0.1	0.4	1	50	4
THU20-RN2-0.4R0.1-0.4N2A	0.4	0.1	0.4	2	50	4
THU20-RN2-0.4R0.1-0.4N3A	0.4	0.1	0.4	3	50	4
THU20-RN2-0.4R0.1-0.4N4A	0.4	0.1	0.4	4	50	4
THU20-RN2-0.5R0.02-0.5N2A	0.5	0.02	0.5	2	50	4
THU20-RN2-0.5R0.02-0.5N3A	0.5	0.02	0.5	3	50	4
THU20-RN2-0.5R0.02-0.5N4A	0.5	0.02	0.5	4	50	4
THU20-RN2-0.5R0.02-0.5N5A	0.5	0.02	0.5	5	50	4
THU20-RN2-0.5R0.05-0.5N2A	0.5	0.05	0.5	2	50	4
THU20-RN2-0.5R0.05-0.5N3A	0.5	0.05	0.5	3	50	4
THU20-RN2-0.5R0.05-0.5N4A	0.5	0.05	0.5	4	50	4
THU20-RN2-0.5R0.05-0.5N5A	0.5	0.05	0.5	5	50	4
THU20-RN2-0.5R0.1-0.5N2A	0.5	0.1	0.5	2	50	4
THU20-RN2-0.5R0.1-0.5N3A	0.5	0.1	0.5	3	50	4
THU20-RN2-0.5R0.1-0.5N4A	0.5	0.1	0.5	4	50	4
THU20-RN2-0.5R0.1-0.5N5A	0.5	0.1	0.5	5	50	4
THU20-RN2-0.6R0.02-0.6N2A	0.6	0.02	0.6	2	50	4
THU20-RN2-0.6R0.02-0.6N3A	0.6	0.02	0.6	3	50	4
THU20-RN2-0.6R0.02-0.6N4A	0.6	0.02	0.6	4	50	4
THU20-RN2-0.6R0.02-0.6N5A	0.6	0.02	0.6	5	50	4
THU20-RN2-0.6R0.02-0.6N6A	0.6	0.02	0.6	6	50	4
THU20-RN2-0.6R0.05-0.6N2A	0.6	0.05	0.6	2	50	4
THU20-RN2-0.6R0.05-0.6N3A	0.6	0.05	0.6	3	50	4
THU20-RN2-0.6R0.05-0.6N4A	0.6	0.05	0.6	4	50	4

## Концевая микрофреза с обнижением



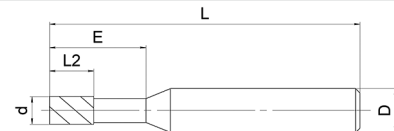
Артикул Tactic	d	R	L2	E	L	D
THU20-RN2-0.6R0.05-0.6N5A	0.6	0.05	0.6	5	50	4
THU20-RN2-0.6R0.05-0.6N6A	0.6	0.05	0.6	6	50	4
THU20-RN2-0.6R0.1-0.6N2A	0.6	0.1	0.6	2	50	4
THU20-RN2-0.6R0.1-0.6N3A	0.6	0.1	0.6	3	50	4
THU20-RN2-0.6R0.1-0.6N4A	0.6	0.1	0.6	4	50	4
THU20-RN2-0.6R0.1-0.6N5A	0.6	0.1	0.6	5	50	4
THU20-RN2-0.6R0.1-0.6N6A	0.6	0.1	0.6	6	50	4
THU20-RN2-0.6R0.2-0.6N2A	0.6	0.2	0.6	2	50	4
THU20-RN2-0.6R0.2-0.6N3A	0.6	0.2	0.6	3	50	4
THU20-RN2-0.6R0.2-0.6N4A	0.6	0.2	0.6	4	50	4
THU20-RN2-0.6R0.2-0.6N5A	0.6	0.2	0.6	5	50	4
THU20-RN2-0.6R0.2-0.6N6A	0.6	0.2	0.6	6	50	4
THU20-RN2-0.7R0.02-0.7N2A	0.7	0.02	0.7	2	50	4
THU20-RN2-0.7R0.02-0.7N3A	0.7	0.02	0.7	3	50	4
THU20-RN2-0.7R0.02-0.7N4A	0.7	0.02	0.7	4	50	4
THU20-RN2-0.7R0.02-0.7N5A	0.7	0.02	0.7	5	50	4
THU20-RN2-0.7R0.02-0.7N6A	0.7	0.02	0.7	6	50	4
THU20-RN2-0.7R0.02-0.7N8A	0.7	0.02	0.7	8	50	4
THU20-RN2-0.7R0.05-0.7N2A	0.7	0.05	0.7	2	50	4
THU20-RN2-0.7R0.05-0.7N3A	0.7	0.05	0.7	3	50	4
THU20-RN2-0.7R0.05-0.7N4A	0.7	0.05	0.7	4	50	4
THU20-RN2-0.7R0.05-0.7N5A	0.7	0.05	0.7	5	50	4
THU20-RN2-0.7R0.05-0.7N6A	0.7	0.05	0.7	6	50	4
THU20-RN2-0.7R0.05-0.7N8A	0.7	0.05	0.7	8	50	4
THU20-RN2-0.7R0.1-0.7N2A	0.7	0.1	0.7	2	50	4
THU20-RN2-0.7R0.1-0.7N3A	0.7	0.1	0.7	3	50	4
THU20-RN2-0.7R0.1-0.7N4A	0.7	0.1	0.7	4	50	4
THU20-RN2-0.7R0.1-0.7N5A	0.7	0.1	0.7	5	50	4
THU20-RN2-0.7R0.1-0.7N6A	0.7	0.1	0.7	6	50	4
THU20-RN2-0.7R0.1-0.7N8A	0.7	0.1	0.7	8	50	4
THU20-RN2-0.7R0.2-0.7N2A	0.7	0.2	0.7	2	50	4
THU20-RN2-0.7R0.2-0.7N3A	0.7	0.2	0.7	3	50	4
THU20-RN2-0.7R0.2-0.7N4A	0.7	0.2	0.7	4	50	4
THU20-RN2-0.7R0.2-0.7N5A	0.7	0.2	0.7	5	50	4
THU20-RN2-0.7R0.2-0.7N6A	0.7	0.2	0.7	6	50	4
THU20-RN2-0.7R0.2-0.7N8A	0.7	0.2	0.7	8	50	4
THU20-RN2-0.8R0.02-0.8N2A	0.8	0.02	0.8	2	50	4
THU20-RN2-0.8R0.02-0.8N3A	0.8	0.02	0.8	3	50	4
THU20-RN2-0.8R0.02-0.8N4A	0.8	0.02	0.8	4	50	4
THU20-RN2-0.8R0.02-0.8N5A	0.8	0.02	0.8	5	50	4
THU20-RN2-0.8R0.02-0.8N6A	0.8	0.02	0.8	6	50	4
THU20-RN2-0.8R0.02-0.8N8A	0.8	0.02	0.8	8	50	4
THU20-RN2-0.8R0.05-0.8N2A	0.8	0.05	0.8	2	50	4
THU20-RN2-0.8R0.05-0.8N3A	0.8	0.05	0.8	3	50	4
THU20-RN2-0.8R0.05-0.8N4A	0.8	0.05	0.8	4	50	4
THU20-RN2-0.8R0.05-0.8N5A	0.8	0.05	0.8	5	50	4
THU20-RN2-0.8R0.05-0.8N6A	0.8	0.05	0.8	6	50	4
THU20-RN2-0.8R0.05-0.8N8A	0.8	0.05	0.8	8	50	4
THU20-RN2-0.8R0.1-0.8N2A	0.8	0.1	0.8	2	50	4
THU20-RN2-0.8R0.1-0.8N3A	0.8	0.1	0.8	3	50	4
THU20-RN2-0.8R0.1-0.8N4A	0.8	0.1	0.8	4	50	4
THU20-RN2-0.8R0.1-0.8N5A	0.8	0.1	0.8	5	50	4
THU20-RN2-0.8R0.1-0.8N6A	0.8	0.1	0.8	6	50	4
THU20-RN2-0.8R0.1-0.8N8A	0.8	0.1	0.8	8	50	4

Концевая микрофреза с обнижением



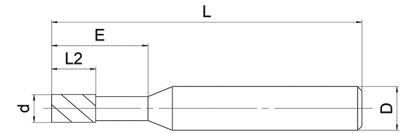
Артикул Tactic	d	R	L2	E	L	D
THU20-RN2-0.8R0.2-0.8N2A	0.8	0.2	0.8	2	50	4
THU20-RN2-0.8R0.2-0.8N3A	0.8	0.2	0.8	3	50	4
THU20-RN2-0.8R0.2-0.8N4A	0.8	0.2	0.8	4	50	4
THU20-RN2-0.8R0.2-0.8N5A	0.8	0.2	0.8	5	50	4
THU20-RN2-0.8R0.2-0.8N6A	0.8	0.2	0.8	6	50	4
THU20-RN2-0.8R0.2-0.8N8A	0.8	0.2	0.8	8	50	4
THU20-RN2-0.9R0.05-0.9N3A	0.9	0.05	0.9	3	50	4
THU20-RN2-0.9R0.05-0.9N4A	0.9	0.05	0.9	4	50	4
THU20-RN2-0.9R0.05-0.9N6A	0.9	0.05	0.9	6	50	4
THU20-RN2-0.9R0.05-0.9N8A	0.9	0.05	0.9	8	50	4
THU20-RN2-0.9R0.1-0.9N3A	0.9	0.1	0.9	3	50	4
THU20-RN2-0.9R0.1-0.9N4A	0.9	0.1	0.9	4	50	4
THU20-RN2-0.9R0.1-0.9N6A	0.9	0.1	0.9	6	50	4
THU20-RN2-0.9R0.1-0.9N8A	0.9	0.1	0.9	8	50	4
THU20-RN2-0.9R0.2-0.9N3A	0.9	0.2	0.9	3	50	4
THU20-RN2-0.9R0.2-0.9N4A	0.9	0.2	0.9	4	50	4
THU20-RN2-0.9R0.2-0.9N6A	0.9	0.2	0.9	6	50	4
THU20-RN2-0.9R0.2-0.9N8A	0.9	0.2	0.9	8	50	4

## Концевая микрофреза с обнижением



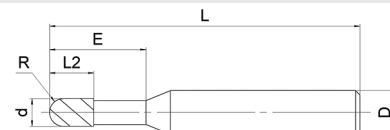
Артикул Tactic	d	L2	E	L	D
THU20-SN2-0.05-0.05N0.5A	0.05	0.05	0.5	50	4
THU20-SN2-0.05-0.05N1A	0.05	0.05	1	50	4
THU20-SN2-0.06-0.06N0.5A	0.06	0.06	0.5	50	4
THU20-SN2-0.06-0.06N1A	0.06	0.06	1	50	4
THU20-SN2-0.07-0.07N0.5A	0.07	0.07	0.5	50	4
THU20-SN2-0.07-0.07N1A	0.07	0.07	1	50	4
THU20-SN2-0.08-0.08N0.5A	0.08	0.08	0.5	50	4
THU20-SN2-0.08-0.08N1A	0.08	0.08	1	50	4
THU20-SN2-0.09-0.09N0.5A	0.09	0.09	0.5	50	4
THU20-SN2-0.09-0.09N1A	0.09	0.09	1	50	4
THU20-SN2-0.1-0.1N0.5A	0.1	0.1	0.5	50	4
THU20-SN2-0.1-0.1N1A	0.1	0.1	1	50	4
THU20-SN2-0.1-0.1N1.5A	0.1	0.1	1.5	50	4
THU20-SN2-0.1-0.1N2A	0.1	0.1	2	50	4
THU20-SN2-0.15-0.15N0.5A	0.15	0.15	0.5	50	4
THU20-SN2-0.15-0.15N1A	0.15	0.15	1	50	4
THU20-SN2-0.15-0.15N1.5A	0.15	0.15	1.5	50	4
THU20-SN2-0.15-0.15N2A	0.15	0.15	2	50	4
THU20-SN2-0.2-0.2N1A	0.2	0.2	1	50	4
THU20-SN2-0.2-0.2N2A	0.2	0.2	2	50	4
THU20-SN2-0.2-0.2N3A	0.2	0.2	3	50	4
THU20-SN2-0.2-0.2N4A	0.2	0.2	4	50	4
THU20-SN2-0.25-0.25N2A	0.25	0.25	2	50	4
THU20-SN2-0.25-0.25N3A	0.25	0.25	3	50	4
THU20-SN2-0.25-0.25N4A	0.25	0.25	4	50	4
THU20-SN2-0.3-0.3N2A	0.3	0.3	2	50	4
THU20-SN2-0.3-0.3N3A	0.3	0.3	3	50	4
THU20-SN2-0.3-0.3N4A	0.3	0.3	4	50	4
THU20-SN2-0.3-0.3N6A	0.3	0.3	6	50	4
THU20-SN2-0.4-0.4N2A	0.4	0.4	2	50	4
THU20-SN2-0.4-0.4N3A	0.4	0.4	3	50	4
THU20-SN2-0.4-0.4N4A	0.4	0.4	4	50	4
THU20-SN2-0.4-0.4N6A	0.4	0.4	6	50	4
THU20-SN2-0.5-0.5N2A	0.5	0.5	2	50	4
THU20-SN2-0.5-0.5N3A	0.5	0.5	3	50	4
THU20-SN2-0.5-0.5N4A	0.5	0.5	4	50	4
THU20-SN2-0.5-0.5N6A	0.5	0.5	6	50	4
THU20-SN2-0.5-0.5N8A	0.5	0.5	8	50	4
THU20-SN2-0.5-0.5N10A	0.5	0.5	10	50	4
THU20-SN2-0.5-0.5N12A	0.5	0.5	12	50	4
THU20-SN2-0.6-0.6N2A	0.6	0.6	2	50	4
THU20-SN2-0.6-0.6N3A	0.6	0.6	3	50	4
THU20-SN2-0.6-0.6N4A	0.6	0.6	4	50	4
THU20-SN2-0.6-0.6N6A	0.6	0.6	6	50	4
THU20-SN2-0.6-0.6N8A	0.6	0.6	8	50	4
THU20-SN2-0.6-0.6N10A	0.6	0.6	10	50	4
THU20-SN2-0.6-0.6N12A	0.6	0.6	12	50	4
THU20-SN2-0.7-0.7N3A	0.7	0.7	3	50	4
THU20-SN2-0.7-0.7N4A	0.7	0.7	4	50	4
THU20-SN2-0.7-0.7N6A	0.7	0.7	6	50	4
THU20-SN2-0.7-0.7N8A	0.7	0.7	8	50	4
THU20-SN2-0.7-0.7N10A	0.7	0.7	10	50	4
THU20-SN2-0.7-0.7N12A	0.7	0.7	12	50	4
THU20-SN2-0.8-0.8N3A	0.8	0.8	3	50	4

Концевая микрофреза  
с обнижением



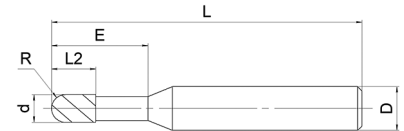
Артикул Tactic	d	L2	E	L	D
THU20-SN2-0.8-0.8N4A	0.8	0.8	4	50	4
THU20-SN2-0.8-0.8N6A	0.8	0.8	6	50	4
THU20-SN2-0.8-0.8N8A	0.8	0.8	8	50	4
THU20-SN2-0.8-0.8N10A	0.8	0.8	10	50	4
THU20-SN2-0.8-0.8N12A	0.8	0.8	12	50	4
THU20-SN2-0.9-0.9N3A	0.9	0.9	3	50	4
THU20-SN2-0.9-0.9N4A	0.9	0.9	4	50	4
THU20-SN2-0.9-0.9N6A	0.9	0.9	6	50	4
THU20-SN2-0.9-0.9N8A	0.9	0.9	8	50	4
THU20-SN2-0.9-0.9N10A	0.9	0.9	10	50	4
THU20-SN2-0.9-0.9N12A	0.9	0.9	12	50	4

Концевая микрофреза  
сферическая с обнижением



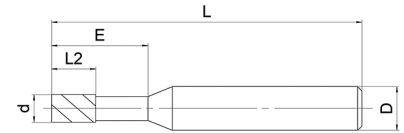
Артикул Tactic	R	L2	E	L	D
THU20-BN2-0.1-0.1N0.3A	R0.05	0.1	0.3	50	4
THU20-BN2-0.1-0.1N0.5A	R0.05	0.1	0.5	50	4
THU20-BN2-0.1-0.1N1A	R0.05	0.1	1	50	4
THU20-BN2-0.15-0.15N0.3A	R0.075	0.15	0.3	50	4
THU20-BN2-0.15-0.15N0.5A	R0.075	0.15	0.5	50	4
THU20-BN2-0.15-0.15N1A	R0.075	0.15	1	50	4
THU20-BN2-0.2-0.2N0.5A	R0.1	0.2	0.5	50	4
THU20-BN2-0.2-0.2N1A	R0.1	0.2	1	50	4
THU20-BN2-0.2-0.2N1.5A	R0.1	0.2	1.5	50	4
THU20-BN2-0.2-0.2N2A	R0.1	0.2	2	50	4
THU20-BN2-0.3-0.3N1A	R0.15	0.3	1	50	4
THU20-BN2-0.3-0.3N1.5A	R0.15	0.3	1.5	50	4
THU20-BN2-0.3-0.3N2A	R0.15	0.3	2	50	4
THU20-BN2-0.3-0.3N3A	R0.15	0.3	3	50	4
THU20-BN2-0.3-0.3N4A	R0.15	0.3	4	50	4
THU20-BN2-0.4-0.4N2A	R0.2	0.4	2	50	4
THU20-BN2-0.4-0.4N3A	R0.2	0.4	3	50	4
THU20-BN2-0.4-0.4N4A	R0.2	0.4	4	50	4
THU20-BN2-0.4-0.4N6A	R0.2	0.4	6	50	4
THU20-BN2-0.5-0.5N2A	R0.25	0.5	2	50	4
THU20-BN2-0.5-0.5N3A	R0.25	0.5	3	50	4
THU20-BN2-0.5-0.5N4A	R0.25	0.5	4	50	4
THU20-BN2-0.5-0.5N6A	R0.25	0.5	6	50	4
THU20-BN2-0.5-0.5N8A	R0.25	0.5	8	50	4
THU20-BN2-0.6-0.6N3A	R0.3	0.6	3	50	4
THU20-BN2-0.6-0.6N4A	R0.3	0.6	4	50	4
THU20-BN2-0.6-0.6N6A	R0.3	0.6	6	50	4
THU20-BN2-0.6-0.6N8A	R0.3	0.6	8	50	4
THU20-BN2-0.6-0.6N10A	R0.3	0.6	10	50	4
THU20-BN2-0.6-0.6N12A	R0.3	0.6	12	50	4
THU20-BN2-0.7-0.7N2A	R0.35	0.7	2	50	4
THU20-BN2-0.7-0.7N3A	R0.35	0.7	3	50	4
THU20-BN2-0.7-0.7N4A	R0.35	0.7	4	50	4
THU20-BN2-0.7-0.7N6A	R0.35	0.7	6	50	4
THU20-BN2-0.7-0.7N8A	R0.35	0.7	8	50	4
THU20-BN2-0.7-0.7N10A	R0.35	0.7	10	50	4
THU20-BN2-0.7-0.7N12A	R0.35	0.7	12	50	4
THU20-BN2-0.8-0.8N2A	R0.4	0.8	2	50	4
THU20-BN2-0.8-0.8N3A	R0.4	0.8	3	50	4
THU20-BN2-0.8-0.8N4A	R0.4	0.8	4	50	4
THU20-BN2-0.8-0.8N6A	R0.4	0.8	6	50	4
THU20-BN2-0.8-0.8N8A	R0.4	0.8	8	50	4
THU20-BN2-0.8-0.8N10A	R0.4	0.8	10	50	4
THU20-BN2-0.8-0.8N12A	R0.4	0.8	12	50	4
THU20-BN2-0.9-0.9N4A	R0.45	0.9	4	50	4
THU20-BN2-0.9-0.9N6A	R0.45	0.9	6	50	4
THU20-BN2-0.9-0.9N8A	R0.45	0.9	8	50	4
THU20-BN2-0.9-0.9N10A	R0.45	0.9	10	50	4
THU20-BN2-0.9-0.9N12A	R0.45	0.9	12	50	4

Концевая микрофреза  
сферическая с обнижением



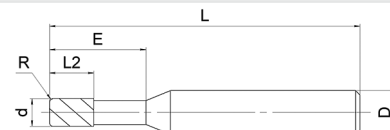
Артикул Tactic	R	L2	E	L	D
THU20-BN2-1-1N4A	R0.5	1	4	50	4
THU20-BN2-1-1N6A	R0.5	1	6	50	4
THU20-BN2-1-1N8A	R0.5	1	8	50	4
THU20-BN2-1-1N10A	R0.5	1	10	50	4
THU20-BN2-1-1N12A	R0.5	1	12	50	4
THU20-BN2-1-1N16A	R0.5	1	16	50	4
THU20-BN2-1-1N20A	R0.5	1	20	50	4
THU20-BN2-1.5-1.5N4A	R0.75	1.5	4	50	4
THU20-BN2-1.5-1.5N6A	R0.75	1.5	6	50	4
THU20-BN2-1.5-1.5N8A	R0.75	1.5	8	50	4
THU20-BN2-1.5-1.5N10A	R0.75	1.5	10	50	4
THU20-BN2-1.5-1.5N12A	R0.75	1.5	12	50	4
THU20-BN2-1.5-1.5N16A	R0.75	1.5	16	50	4
THU20-BN2-1.5-1.5N20A	R0.75	1.5	20	50	4
THU20-BN2-2-2N6A	R1	2	6	50	4
THU20-BN2-2-2N8A	R1	2	8	50	4
THU20-BN2-2-2N10A	R1	2	10	50	4
THU20-BN2-2-2N12A	R1	2	12	50	4
THU20-BN2-2-2N16A	R1	2	16	50	4
THU20-BN2-2-2N20A	R1	2	20	50	4
THU20-BN2-3-3N8A	R1.5	3	8	50	4
THU20-BN2-3-3N10A	R1.5	3	10	50	4
THU20-BN2-3-3N12A	R1.5	3	12	50	4
THU20-BN2-3-3N16A	R1.5	3	16	50	4
THU20-BN2-3-3N20A	R1.5	3	20	50	4
THU20-BN2-3-3N10B	R1.5	3	10	60	6
THU20-BN2-3-3N12B	R1.5	3	12	60	6
THU20-BN2-3-3N16B	R1.5	3	16	60	6
THU20-BN2-3-3N20B	R1.5	3	20	60	6
THU20-BN2-3-3N30C	R1.5	3	30	75	6
THU20-BN2-4-4N10B	R2	4	10	60	6
THU20-BN2-4-4N12B	R2	4	12	60	6
THU20-BN2-4-4N16B	R2	4	16	60	6
THU20-BN2-4-4N20B	R2	4	20	60	6
THU20-BN2-4-4N30C	R2	4	30	75	6

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Артикул Tactic	d	L2	E	L	D
THU20-SN4-1-1.2N4A	1	1.2	4	50	4
THU20-SN4-1-1.2N6A	1	1.2	6	50	4
THU20-SN4-1-1.2N8A	1	1.2	8	50	4
THU20-SN4-1-1.2N10A	1	1.2	10	50	4
THU20-SN4-1-1.2N12A	1	1.2	12	50	4
THU20-SN4-1-1.2N16A	1	1.2	16	50	4
THU20-SN4-1-1.2N20A	1	1.2	20	50	4
THU20-SN4-1.5-1.8N6A	1.5	1.8	6	50	4
THU20-SN4-1.5-1.8N8A	1.5	1.8	8	50	4
THU20-SN4-1.5-1.8N10A	1.5	1.8	10	50	4
THU20-SN4-1.5-1.8N12A	1.5	1.8	12	50	4
THU20-SN4-1.5-1.8N16A	1.5	1.8	16	50	4
THU20-SN4-1.5-1.8N20A	1.5	1.8	20	50	4
THU20-SN4-2-2.4N8A	2	2.4	8	50	4
THU20-SN4-2-2.4N10A	2	2.4	10	50	4
THU20-SN4-2-2.4N12A	2	2.4	12	50	4
THU20-SN4-2-2.4N16A	2	2.4	16	50	4
THU20-SN4-2-2.4N20A	2	2.4	20	50	4
THU20-SN4-2.5-3N10A	2.5	3	10	50	4
THU20-SN4-2.5-3N12A	2.5	3	12	50	4
THU20-SN4-2.5-3N16A	2.5	3	16	50	4
THU20-SN4-2.5-3N20A	2.5	3	20	50	4
THU20-SN4-3-3.6N10A	3	3.6	10	50	4
THU20-SN4-3-3.6N12A	3	3.6	12	50	4
THU20-SN4-3-3.6N16A	3	3.6	16	50	4
THU20-SN4-3-3.6N20A	3	3.6	20	50	4
THU20-SN4-3-3.6N10B	3	3.6	10	60	6
THU20-SN4-3-3.6N12B	3	3.6	12	60	6
THU20-SN4-3-3.6N16B	3	3.6	16	60	6
THU20-SN4-3-3.6N20B	3	3.6	20	60	6
THU20-SN4-3-3.6N30C	3	3.6	30	75	6
THU20-SN4-4-4.8N10B	4	4.8	10	60	6
THU20-SN4-4-4.8N12B	4	4.8	12	60	6
THU20-SN4-4-4.8N16B	4	4.8	16	60	6
THU20-SN4-4-4.8N20B	4	4.8	20	60	6
THU20-SN4-4-4.8N30C	4	4.8	30	75	6

## Концевая микрофреза с обнижением



Артикул Tactic	d	R	L2	E	L	D
THU20-RN4-1R0.2-1.2N4A	1	0.2	1.2	4	50	4
THU20-RN4-1R0.2-1.2N6A	1	0.2	1.2	6	50	4
THU20-RN4-1R0.2-1.2N8A	1	0.2	1.2	8	50	4
THU20-RN4-1R0.2-1.2N10A	1	0.2	1.2	10	50	4
THU20-RN4-1R0.2-1.2N12A	1	0.2	1.2	12	50	4
THU20-RN4-1R0.2-1.2N16A	1	0.2	1.2	16	50	4
THU20-RN4-1R0.2-1.2N20A	1	0.2	1.2	20	50	4
THU20-RN4-2R0.2-2.4N8A	2	0.2	2.4	8	50	4
THU20-RN4-2R0.2-2.4N10A	2	0.2	2.4	10	50	4
THU20-RN4-2R0.2-2.4N12A	2	0.2	2.4	12	50	4
THU20-RN4-2R0.2-2.4N16A	2	0.2	2.4	16	50	4
THU20-RN4-2R0.2-2.4N20A	2	0.2	2.4	20	50	4
THU20-RN4-2R0.5-2.4N8A	2	0.5	2.4	8	50	4
THU20-RN4-2R0.5-2.4N10A	2	0.5	2.4	10	50	4
THU20-RN4-2R0.5-2.4N12A	2	0.5	2.4	12	50	4
THU20-RN4-2R0.5-2.4N16A	2	0.5	2.4	16	50	4
THU20-RN4-2R0.5-2.4N20A	2	0.5	2.4	20	50	4
THU20-RN4-3R0.2-3.6N10A	3	0.2	3.6	10	50	4
THU20-RN4-3R0.2-3.6N12A	3	0.2	3.6	12	50	4
THU20-RN4-3R0.2-3.6N16A	3	0.2	3.6	16	50	4
THU20-RN4-3R0.2-3.6N20A	3	0.2	3.6	20	50	4
THU20-RN4-3R0.5-3.6N10A	3	0.5	3.6	10	50	4
THU20-RN4-3R0.5-3.6N12A	3	0.5	3.6	12	50	4
THU20-RN4-3R0.5-3.6N16A	3	0.5	3.6	16	50	4
THU20-RN4-3R0.5-3.6N20A	3	0.5	3.6	20	50	4
THU20-RN4-3R0.2-3.6N10B	3	0.2	3.6	10	60	6
THU20-RN4-3R0.2-3.6N12B	3	0.2	3.6	12	60	6
THU20-RN4-3R0.2-3.6N16B	3	0.2	3.6	16	60	6
THU20-RN4-3R0.2-3.6N20B	3	0.2	3.6	20	60	6
THU20-RN4-3R0.2-3.6N30C	3	0.2	3.6	30	75	6
THU20-RN4-3R0.5-3.6N10B	3	0.5	3.6	10	60	6
THU20-RN4-3R0.5-3.6N12B	3	0.5	3.6	12	60	6
THU20-RN4-3R0.5-3.6N16B	3	0.5	3.6	16	60	6
THU20-RN4-3R0.5-3.6N20B	3	0.5	3.6	20	60	6
THU20-RN4-3R0.5-3.6N30C	3	0.5	3.6	30	75	6
THU20-RN4-4R0.2-4.8N10B	4	0.2	4.8	10	60	6
THU20-RN4-4R0.2-4.8N12B	4	0.2	4.8	12	60	6
THU20-RN4-4R0.2-4.8N16B	4	0.2	4.8	16	60	6
THU20-RN4-4R0.2-4.8N20B	4	0.2	4.8	20	60	6
THU20-RN4-4R0.2-4.8N30C	4	0.2	4.8	30	75	6
THU20-RN4-4R0.5-4.8N10B	4	0.5	4.8	10	60	6
THU20-RN4-4R0.5-4.8N12B	4	0.5	4.8	12	60	6
THU20-RN4-4R0.5-4.8N16B	4	0.5	4.8	16	60	6
THU20-RN4-4R0.5-4.8N20B	4	0.5	4.8	20	60	6
THU20-RN4-4R0.5-4.8N30C	4	0.5	4.8	30	75	6

Закаленная сталь 30-45HRC					Закаленная сталь 45-60HRC				
Плоский торец	Начальные данные								
	Обработка торцов								
	f (мм/мин)	S (об/мин)	ae (мм)	ap (мм)	f (мм/мин)	S (об/мин)	ae (мм)	ap (мм)	
D1.0	1050	8500	0.7	0.03	1050	8000	0.7	0.015	
D2.0	1200	7500	1.4	0.05	1200	7000	1.3	0.02	
D3.0	1300	7000	2.1	0.06	1300	7000	2.1	0.03	
D4.0	1400	6000	2.8	0.08	1400	5500	2.6	0.05	
D6.0	1500	5500	4.2	0.1	1200	5000	3.9	0.08	
D8.0	1300	5000	5.6	0.15	1200	4500	5.2	0.1	
D10.0	1300	4500	7	0.2	1200	3500	6.5	0.1	
D12.0	1300	3500	8.4	0.22	1100	2500	7.8	0.12	
D14.0	1300	3000	9.1	0.22	1100	2400	9.1	0.12	
D16.0	1300	2500	10.4	0.25	1000	2200	10.4	0.12	
D18.0	1300	2500	12.6	0.25	1000	2200	11.7	0.16	
D20.0	1300	2500	14	0.28	1000	2200	13	0.16	

Закаленная сталь 30-45HRC					Закаленная сталь 45-60HRC				
Плоский торец	Начальные данные								
	Обработка стенок								
	f (мм/мин)	S (об/мин)	ae (мм)	ap (мм)	f (мм/мин)	S (об/мин)	ae (мм)	ap (мм)	
D1.0	850	9000	0.05	2	800	7500	0.02	2	
D2.0	900	8000	0.06	4	850	7000	0.03	4	
D3.0	950	7500	0.08	6	900	7000	0.04	6	
D4.0	1100	7000	0.1	8	950	6500	0.06	8	
D6.0	1200	6500	0.15	10	1100	6500	0.08	10	
D8.0	1200	6000	0.18	15	1100	6000	0.1	12	
D10.0	1200	5000	0.2	20	1100	4500	0.1	16	
D12.0	1100	3000	0.22	25	1050	3000	0.12	20	
D14.0	1100	2500	0.22	30	1050	2800	0.12	25	
D16.0	1100	2200	0.25	35	1050	2600	0.12	30	
D18.0	1100	2000	0.25	40	1050	2200	0.15	35	
D20.0	1100	2000	0.28	40	1050	2200	0.15	35	

Закаленная сталь 30-45HRC					Закаленная сталь 45-60HRC				
Сферическая	Начальные данные								
	Профильная обработка								
	f (мм/мин)	S (об/мин)	ae (мм)	ap (мм)	f (мм/мин)	S (об/мин)	ae (мм)	ap (мм)	
R0.5	950	9000	0.06	0.03	1000	8500	0.03	0.02	
R0.75	950	8500	0.08	0.06	1000	8000	0.06	0.02	
R1.0	950	8500	0.1	0.06	1000	8000	0.06	0.03	
R1.5	950	8000	0.1	0.06	1000	7500	0.08	0.03	
R2.0	1050	8000	0.15	0.1	1100	7000	0.1	0.05	
R3.0	1200	6500	0.2	0.15	1100	6500	0.12	0.07	
R4.0	1800	6000	0.24	0.15	1200	6000	0.15	0.08	
R5.0	2000	5500	0.25	0.2	1500	5000	0.18	0.12	
R6.0	1800	5500	0.26	0.22	1500	4500	0.22	0.15	
R7.0	1600	3500	0.28	0.25	1300	3000	0.24	0.18	
R8.0	1600	3500	0.28	0.26	1300	3000	0.24	0.2	
R10.0	1500	3500	0.3	0.28	1400	3000	0.26	0.2	

Закаленная сталь 30-45HRC					Закаленная сталь 45-60HRC				
Сферическая	Начальные данные								
	Обработка пазов								
	f (мм/мин)	S (об/мин)	ae (мм)	ap (мм)	f (мм/мин)	S (об/мин)	ae (мм)	ap (мм)	
R0.5	1000	10000	0	0.05	800	8500	0	0.01	
R0.75	1000	9000	0	0.08	800	8000	0	0.02	
R1.0	1000	9000	0	0.08	900	8000	0	0.035	
R1.5	1100	8500	0	0.1	900	7500	0	0.04	
R2.0	1200	8000	0	0.12	1000	7000	0	0.045	
R3.0	1200	7500	0	0.15	1000	6500	0	0.06	
R4.0	1200	7000	0	0.15	1000	6000	0	0.08	
R5.0	1500	6500	0	0.18	1200	5000	0	0.12	
R6.0	1500	6000	0	0.2	1200	4500	0	0.14	
R7.0	1600	5500	0	0.22	1300	3000	0	0.16	
R8.0	1600	5000	0	0.25	1300	3000	0	0.18	
R10.0	1800	4000	0	0.25	1500	3000	0	0.2	

Закаленная сталь 30-45HRC				Закаленная сталь 45-60HRC				
Радиус при вершине	Начальные данные							
	Обработка торцов							
	f (мм/мин)	S (об/мин)	ae (мм)	ap (мм)	f (мм/мин)	S (об/мин)	ae (мм)	ap (мм)
D1R0.2	950	9000	0.7	0.03	950	8000	0.7	0.015
D2R0.5	950	8000	1.4	0.05	950	7000	1.3	0.02
D3R0.5	1050	7500	2.1	0.06	1050	7000	2.1	0.03
D4R0.5	1100	6500	2.8	0.08	1050	5500	2.6	0.05
D6R0.5	1200	6000	4.2	0.1	1100	5000	3.9	0.08
D8R.50	1200	5500	5.6	0.15	1100	4500	5.2	0.1
D10R0.5	1200	4500	7	0.2	1200	3500	6.5	0.12
D12R0.5	1500	4000	8.4	0.22	1200	3000	7.8	0.15
D16R0.5	1500	3500	10.4	0.25	1200	2500	10.4	0.15
D18R0.5	1500	3500	12.6	0.25	1200	2500	11.7	0.18
D20R0.5	1500	3000	14	0.28	1200	2500	13	0.2

Закаленная сталь 30-45HRC				Закаленная сталь 45-60HRC				
Радиус при вершине	Начальные данные							
	Обработка стенок							
	f (мм/мин)	S (об/мин)	ae (мм)	ap (мм)	f (мм/мин)	S (об/мин)	ae (мм)	ap (мм)
D1R0.2	900	9000	0.05	2	850	8500	0.02	2
D2R0.5	900	8500	0.06	4	850	8500	0.03	4
D3R0.5	1000	8000	0.08	6	900	8000	0.04	6
D4R0.5	1000	7000	0.1	8	1100	7000	0.06	8
D6R0.5	1200	6500	0.15	10	1200	6500	0.08	10
D8R.50	1200	6000	0.18	15	1200	6000	0.1	15
D10R0.5	1500	5500	0.2	20	1500	5500	0.12	20
D12R0.5	1500	5000	0.22	25	1500	5000	0.15	25
D16R0.5	1500	4000	0.28	35	1500	4000	0.2	35
D18R0.5	1500	3000	0.3	35	1500	3000	0.2	35
D20R0.5	1500	3000	0.3	40	1500	3000	0.2	40

Закаленная сталь 30-45HRC				Закаленная сталь 45-60HRC			
Микрофрезы с плоским торцом		Начальные данные			Начальные данные		
		Обработка торцов			Обработка торцов		
		f (мм/мин)	S (об/мин)	ap (мм)	f (мм/мин)	S (об/мин)	ap (мм)
0.1	Стандартная длина рабочей части	100	20000	0.008	60	28000	0.005
0.2		150	20000	0.1	80	25000	0.006
0.3		180	20000	0.012	100	25000	0.009
0.4		200	20000	0.015	120	24000	0.01
0.5		250	18000	0.018	180	22000	0.012
0.6		300	18000	0.02	200	20000	0.012
0.7		350	15000	0.022	250	18000	0.015
0.8		450	12000	0.025	280	16000	0.018
0.9		600	12000	0.03	300	15000	0.02

Закаленная сталь 30-45HRC				Закаленная сталь 45-60HRC			
Микрофрезы сферические		Начальные данные			Начальные данные		
		Обработка торцов			Обработка торцов		
		f (мм/мин)	S (об/мин)	ap (мм)	f (мм/мин)	S (об/мин)	ap (мм)
R0.1	Стандартная длина рабочей части	120	20000	0.006	70	30000	0.005
R0.15		150	20000	0.008	90	28000	0.008
R0.2		180	20000	0.01	120	25000	0.01
R0.25		200	18000	0.012	150	22000	0.012
R0.3		250	18000	0.015	180	20000	0.012
R0.35		350	15000	0.018	200	18000	0.015
R0.4		450	15000	0.02	250	16000	0.018
R0.45		550	15000	0.025	280	15000	0.02

Закаленная сталь 30-45HRC			Закаленная сталь 45-60HRC					
Микрофрезы с плоским торцом для глубоких пазов			Начальные данные					
			Обработка торцов					
			f (мм/мин)	S (об/мин)	ap (мм)	f (мм/мин)	S (об/мин)	ap (мм)
0.1	Короткая рабочая часть с обнижением		100	20000	0.008	60	26000	0.003
0.2			150	20000	0.1	70	26000	0.005
0.3			180	18000	0.012	90	24000	0.006
0.4			200	18000	0.015	100	22000	0.009
0.5			250	15000	0.018	150	20000	0.01
0.6			300	15000	0.02	180	18000	0.01
0.7			350	12000	0.022	200	16000	0.012
0.8			450	10000	0.025	250	15000	0.015
0.9			600	10000	0.03	280	14000	0.018

Закаленная сталь 30-45HRC			Закаленная сталь 45-60HRC					
Микрофрезы сферические для глубоких пазов			Начальные данные					
			Обработка торцов					
			f (мм/мин)	S (об/мин)	ap (мм)	f (мм/мин)	S (об/мин)	ap (мм)
R0.1	Короткая рабочая часть с обнижением		100	20000	0.005	60	25000	0.004
R0.15			120	20000	0.07	70	25000	0.006
R0.2			150	18000	0.01	100	20000	0.008
R0.25			180	15000	0.01	120	20000	0.01
R0.3			200	15000	0.012	150	18000	0.012
R0.35			300	15000	0.015	180	16000	0.012
R0.4			400	12000	0.018	200	15000	0.015
R0.45			500	12000	0.02	250	12000	0.015

Закаленная сталь 30-45HRC			Закаленная сталь 45-60HRC					
Микрофрезы с радиусом при вершине			Начальные данные					
			Обработка торцов					
			f (мм/мин)	S (об/мин)	ap (мм)	f (мм/мин)	S (об/мин)	ap (мм)
0.2R0.02	Стандартная длина рабочей части		80	28000	0.006	70	30000	0.005
0.3R0.02			100	26000	0.009	90	30000	0.008
0.4R0.05			120	24000	0.01	100	30000	0.009
0.5R0.05			180	22000	0.012	150	20000	0.01
0.6R0.05			200	18000	0.012	180	18000	0.01
0.7R0.05			250	16000	0.015	200	18000	0.12
0.8R0.05			280	15000	0.018	250	15000	0.015
0.9R0.05			300	12000	0.02	280	15000	0.018

Закаленная сталь 30-45HRC			Закаленная сталь 45-60HRC					
Микрофрезы с радиусом при вершине для глубоких пазов			Начальные данные					
			Обработка торцов					
			f (мм/мин)	S (об/мин)	ap (мм)	f (мм/мин)	S (об/мин)	ap (мм)
0.2R0.02	Короткая рабочая часть с обнижением		60	25000	0.006	60	28000	0.005
0.3R0.02			80	25000	0.009	80	26000	0.008
0.4R0.05			90	24000	0.01	90	24000	0.009
0.5R0.05			120	22000	0.012	120	22000	0.01
0.6R0.05			150	20000	0.012	150	18000	0.01
0.7R0.05			180	18000	0.015	180	16000	0.12
0.8R0.05			230	16000	0.018	230	15000	0.015
0.9R0.05			250	15000	0.02	250	12000	0.018

### Закаленная сталь 30-45HRC

Плоский торец	Эффективная длина	Начальные данные					
		Обработка торцов			Обработка стенок		
		f (мм/мин)	S (об/мин)	ap (мм)	f (мм/мин)	S (об/мин)	ae (мм)
1	4	1500	9000	0.03	1200	9500	0.05
	6	1300	8500	0.02	1200	9000	0.04
	8	1200	8000	0.015	1000	8500	0.03
	10	1000	7500	0.01	900	8500	0.03
2	10	1600	8500	0.06	1500	9000	0.07
	12	1300	7500	0.045	1200	8000	0.05
	16	1100	7000	0.03	1000	7500	0.04
	20	900	7000	0.025	900	7500	0.04
3	10	1750	8000	0.1	1600	8000	0.1
	12	1450	7000	0.07	1300	7500	0.07
	16	1200	7000	0.06	1100	7000	0.05
	20	1000	6500	0.05	900	7000	0.05

### Закаленная сталь 45-60HRC

Плоский торец	Эффективная длина	Начальные данные					
		Обработка торцов			Обработка стенок		
		f (мм/мин)	S (об/мин)	ap (мм)	f (мм/мин)	S (об/мин)	ae (мм)
1	4	1200	8000	0.015	1000	9500	0.03
	6	1000	8000	0.012	800	9500	0.025
	8	800	7500	0.01	700	9000	0.02
	10	600	7000	0.01	650	9000	0.12
2	10	1200	7500	0.02	1200	8500	0.045
	12	1000	7000	0.02	1000	8000	0.035
	16	850	6500	0.015	800	8000	0.02
	20	550	6000	0.012	500	7500	0.015
3	10	1300	7500	0.03	1200	8000	0.04
	12	1100	7000	0.025	1000	7500	0.03
	16	800	6500	0.02	800	7500	0.02
	20	650	6000	0.015	500	7000	0.02

### Закаленная сталь 30-45HRC

### Закаленная сталь 45-60HRC

Сферическая	Эффективная длина	Начальные данные					
		Обработка торцов			Обработка торцов		
		f (мм/мин)	S (об/мин)	ap (мм)	f (мм/мин)	S (об/мин)	ap (мм)
R0.5	4	1200	9500	0.05	800	9000	0.012
	6	1200	9000	0.035	800	9000	0.01
	8	1000	8500	0.03	750	8000	0.008
	10	800	7500	0.025	600	8000	0.008
R0.75	10	1550	8500	0.07	1000	8500	0.02
	12	1450	8000	0.05	900	8500	0.018
	16	1350	7500	0.04	780	8000	0.015
	20	1200	7500	0.035	650	7500	0.01
R1.0	10	1800	8500	0.1	1100	8500	0.022
	12	1650	8000	0.08	950	8000	0.02
	16	1450	7500	0.07	850	7500	0.015
	20	1350	7000	0.05	750	7000	0.012
R1.5	10	2000	8000	0.14	1200	7500	0.025
	12	1850	7500	0.1	1000	7000	0.022
	16	1600	7000	0.08	900	6500	0.02
	20	1400	7000	0.06	750	6500	0.015

### Закаленная сталь 30-45HRC

Радиус при вершине	Эффективная длина	Начальные данные					
		Обработка торцов			Обработка стенок		
		f (мм/мин)	S (об/мин)	ap (мм)	f (мм/мин)	S (об/мин)	ae (мм)
1R0.2	4	1600	9000	0.038	1400	9500	0.05
	6	1200	8500	0.024	1100	9000	0.04
	8	1000	8000	0.02	900	8500	0.025
	10	900	8000	0.015	800	8500	0.02
2R0.2	10	1500	7500	0.06	1300	8000	0.07
	12	1400	7000	0.05	1100	7500	0.05
	16	1200	6500	0.03	1000	7000	0.04
	20	900	6500	0.02	800	7000	0.03
3R0.2	10	1650	7000	0.08	1650	7500	0.09
	12	1500	6500	0.06	1500	7000	0.06
	16	1200	6000	0.04	1200	6500	0.05
	20	1000	6000	0.03	1000	6500	0.04

### Закаленная сталь 45-60HRC

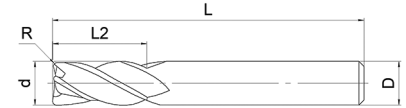
Радиус при вершине	Эффективная длина	Начальные данные					
		Обработка торцов			Обработка стенок		
		f (мм/мин)	S (об/мин)	ap (мм)	f (мм/мин)	S (об/мин)	ae (мм)
1R0.2	4	1200	8000	0.015	1000	9500	0.03
	6	1000	8000	0.012	800	9500	0.025
	8	800	7500	0.01	700	9000	0.02
	10	600	7000	0.01	650	9000	0.12
2R0.2	10	1200	7500	0.02	1200	8500	0.045
	12	1000	7000	0.02	1000	8000	0.035
	16	850	6500	0.015	800	8000	0.02
	20	550	6000	0.012	500	7500	0.015
3R0.2	10	1300	7500	0.03	1200	8000	0.04
	12	1100	7000	0.025	1000	7500	0.03
	16	800	6500	0.02	800	7500	0.02
	20	650	6000	0.015	500	7000	0.02

# THS20

Фрезы для высокоэффективной обработки  
закаленных сталей

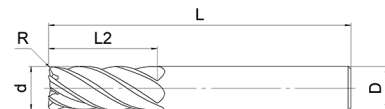


## Концевая фреза



Артикул Tactic	d	R	L2	L	D
THS20-RT4-6R0.5-9A	6	0.5	9	50	6
THS20-RT4-6R1-9A	6	1	9	50	6
THS20-RT4-6R2-9A	6	2	9	50	6
THS20-RT4-8R0.5-12B	8	0.5	12	60	8
THS20-RT4-8R1-12B	8	1	12	60	8
THS20-RT4-8R2-12B	8	2	12	60	8
THS20-RT4-10R0.5-15C	10	0.5	15	75	10
THS20-RT4-10R1-15C	10	1	15	75	10
THS20-RT4-10R2-15C	10	2	15	75	10
THS20-RT4-12R0.5-18C	12	0.5	18	75	12
THS20-RT4-12R1-18C	12	1	18	75	12
THS20-RT4-12R2-18C	12	2	18	75	12
THS20-RT4-16R0.5-24D	16	0.5	24	100	16
THS20-RT4-16R1-24D	16	1	24	100	16
THS20-RT4-16R2-24D	16	2	24	100	16
THS20-RT4-16R3-24D	16	3	24	100	16

## Концевая фреза



Артикул Tactic	d	R	L2	L	D
THS20-RT6-6R0.5-9A	6	0.5	9	50	6
THS20-RT6-6R1-9A	6	1	9	50	6
THS20-RT6-6R2-9A	6	2	9	50	6
THS20-RT6-8R0.5-12B	8	0.5	12	60	8
THS20-RT6-8R1-12B	8	1	12	60	8
THS20-RT6-8R2-12B	8	2	12	60	8
THS20-RT6-10R0.5-15C	10	0.5	15	75	10
THS20-RT6-10R1-15C	10	1	15	75	10
THS20-RT6-10R2-15C	10	2	15	75	10
THS20-RT6-12R0.5-18C	12	0.5	18	75	12
THS20-RT6-12R1-18C	12	1	18	75	12
THS20-RT6-12R2-18C	12	2	18	75	12
THS20-RT6-16R0.5-24D	16	0.5	24	100	16
THS20-RT6-16R1-24D	16	1	24	100	16
THS20-RT6-16R2-24D	16	2	24	100	16
THS20-RT6-16R3-24D	16	3	24	100	16

### Закаленные стали

4 зуба, радиус при вершине	Начальные данные							
	Обработка торцов с высокой подачей				Обработка стенок с высокой подачей			
	f (мм/мин)	S (об/мин)	ae (мм)	ap (мм)	f (мм/мин)	S (об/мин)	ae (мм)	ap (мм)
D6R0.5	4000	6500	2.85	0.12	2200	5500	0.06	6
D8R0.5	4200	5000	3.42	0.15	2400	4500	0.08	8
D10R0.5	4200	4000	5.13	0.15	2200	3500	0.1	10
D12R0.5	4000	3500	5.13	0.2	2000	3000	0.12	12
D16R0.5	3200	2500	7.35	0.13	1500	2000	0.16	16

### Закаленные стали

6 зубьев, радиус при вершине	Начальные данные							
	Обработка торцов с высокой подачей				Обработка стенок с высокой подачей			
	f (мм/мин)	S (об/мин)	ae (мм)	ap (мм)	f (мм/мин)	S (об/мин)	ae (мм)	ap (мм)
D6R0.5	4400	6500	2.85	0.12	2400	5500	0.06	6
D8R0.5	4600	5000	3.42	0.15	2600	4500	0.08	8
D10R0.5	4600	4000	5.13	0.15	2400	3500	0.1	10
D12R0.5	4400	3500	5.13	0.2	2200	3000	0.12	12
D16R0.5	3500	2500	7.35	0.13	1800	2000	0.16	16

# THP65

Фрезы для высокоточной обработки закаленных сталей



## Концевая фреза



Артикул Tactic	d	L2	L	D
THP65-ST6-4-8A	4	8	50	4
THP65-ST6-6-12A	6	12	50	6
THP65-ST6-8-20B	8	20	60	8
THP65-ST6-10-25C	10	25	75	10
THP65-ST6-12-30C	12	30	75	12
THP65-ST6-14-35D	14	35	100	14
THP65-ST6-16-40D	16	40	100	16
THP65-ST6-18-40D	18	40	100	18
THP65-ST6-20-45D	20	45	100	20

# THP65

ФРЕЗЫ ДЛЯ ВЫСОКОТОЧНОЙ ОБРАБОТКИ ЗАКАЛЕННЫХ СТАЛЕЙ

TACTIC

Концевая фреза  
с удлиненным хвостовиком

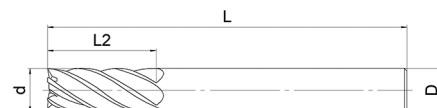


BALZERS



45°

HRC≤65



Артикул Tactic	d	L2	L	D
THP65-SL6-4-8C	4	8	75	4
THP65-SL6-6-20C	6	20	75	6
THP65-SL6-8-30C	8	30	75	8
THP65-SL6-4-11D	4	11	100	4
THP65-SL6-6-20D	6	20	100	6
THP65-SL6-8-30D	8	30	100	8
THP65-SL6-10-40D	10	40	100	10
THP65-SL6-12-50D	12	50	100	12
THP65-SL6-8-40F	8	40	150	8
THP65-SL6-10-50F	10	50	150	10
THP65-SL6-12-60F	12	60	150	12
THP65-SL6-16-80F	16	80	150	16
THP65-SL6-20-80F	20	80	150	20

Закаленная сталь 35-50HRC					Закаленная сталь 40-58HRC				
Плоский торец	Начальные данные								
	Обработка торцов								
	f (мм/мин)	S (об/мин)	ae (мм)	ap (мм)	f (мм/мин)	S (об/мин)	ae (мм)	ap (мм)	
D4.0	1500	6000	2.6	0.03	1200	5500	2.6	0.035	
D6.0	1600	5500	3.9	0.04	1400	5000	3.9	0.04	
D8.0	1800	5500	5.2	0.05	1600	4500	5.2	0.05	
D10.0	1800	4500	6.5	0.06	1600	3500	6.5	0.06	
D12.0	2000	3000	7.8	0.08	1800	2500	7.8	0.08	
D14.0	2000	2500	9.1	0.1	1800	2400	9.1	0.08	
D16.0	1800	2200	10.4	0.12	1600	2000	10.4	0.1	
D18.0	1800	2000	12.6	0.15	1600	1800	12.6	0.12	
D20.0	1800	2000	13.0	0.18	1600	1800	13.0	0.15	

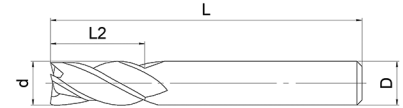
Закаленная сталь 35-50HRC					Закаленная сталь 40-58HRC				
Плоский торец	Начальные данные								
	Обработка стенок								
	f (мм/мин)	S (об/мин)	ae (мм)	ap (мм)	f (мм/мин)	S (об/мин)	ae (мм)	ap (мм)	
D4.0	1300	7000	0.06	8	1200	6500	0.045	8	
D6.0	1500	6500	0.08	10	1350	5500	0.06	10	
D8.0	1800	6000	0.1	15	1500	5000	0.08	12	
D10.0	2000	5000	0.12	20	1600	4000	0.1	16	
D12.0	2000	3000	0.15	25	1600	3500	0.1	20	
D14.0	2000	2500	0.18	30	1800	3000	0.12	25	
D16.0	2000	2400	0.18	35	1800	3000	0.12	30	
D18.0	1800	2200	0.2	40	1800	3000	0.15	35	
D20.0	1800	2200	0.2	40	1800	3000	0.15	35	

# TНН20

Фрезы с увеличенной жесткостью,  
для обработки закаленных сталей

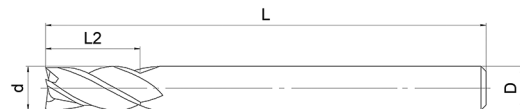


## Концевая фреза



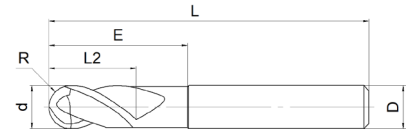
Артикул Tactic	d	L2	L	D
TНН20-ST4-1-2.5A	1	2.5	50	4
TНН20-ST4-1.5-4A	1.5	4	50	4
TНН20-ST4-2-6A	2	6	50	4
TНН20-ST4-2.5-7A	2.5	7	50	4
TНН20-ST4-3-8A	3	8	50	4
TНН20-ST4-4-8A	4	8	50	4
TНН20-ST4-5-10A	5	10	50	6
TНН20-ST4-6-12A	6	12	50	6
TНН20-ST4-8-16B	8	16	60	8
TНН20-ST4-10-20C	10	20	75	10
TНН20-ST4-12-25C	12	25	75	12

Концевая фреза  
с удлиненным хвостовиком



Артикул Tactic	d	L2	L	D
TНН20-SH4-1-2.5C	1	2.5	75	4
TНН20-SH4-1.5-4C	1.5	4	75	4
TНН20-SH4-2-6C	2	6	75	4
TНН20-SH4-2.5-7C	2.5	7	75	4
TНН20-SH4-3-8C	3	8	75	4
TНН20-SH4-4-8C	4	8	75	4
TНН20-SH4-5-10C	5	10	75	6
TНН20-SH4-6-12C	6	12	75	6
TНН20-SH4-8-16C	8	16	75	8
TНН20-SH4-1-2.5D	1	2.5	100	4
TНН20-SH4-1.5-4D	1.5	4	100	4
TНН20-SH4-2-6D	2	6	100	4
TНН20-SH4-2.5-7D	2.5	7	100	4
TНН20-SH4-3-8D	3	8	100	4
TНН20-SH4-4-8D	4	8	100	4
TНН20-SH4-5-10D	5	10	100	6
TНН20-SH4-6-12D	6	12	100	6
TНН20-SH4-8-16D	8	16	100	8
TНН20-SH4-10-20D	10	20	100	10
TНН20-SH4-12-25D	12	25	100	12

Концевая фреза  
сферическая



Артикул Tactic	R	L2	E	L	D
TНН20-BT2-1-1.5A	R0.5	1.5	-	50	4
TНН20-BT2-1.5-2.3A	R0.75	2.3	-	50	4
TНН20-BT2-2-3A	R1	3	-	50	4
TНН20-BT2-3-4.5A	R1.5	4.5	-	50	4
TНН20-BT2-4-6A	R2	6	-	50	4
TНН20-BT2-6-7.2N13A	R3	7.2	13	50	6
TНН20-BT2-8-9.6N18B	R4	9.6	18	60	8
TНН20-BT2-10-12N22C	R5	12	22	75	10
TНН20-BT2-12-14N25C	R6	14	25	75	12

Концевая фреза сферическая  
с удлиненным хвостовиком и обнижением



TiAlSiN



30°

HRC≤70



Артикул Tactic	R	L2	E	L	D
TНН20-BH2-1-1.5C	R0.5	1.5	-	75	4
TНН20-BH2-1.5-2.3C	R0.75	2.3	-	75	4
TНН20-BH2-2-3C	R1	3	-	75	4
TНН20-BH2-3-4.5C	R1.5	4.5	-	75	4
TНН20-BH2-4-6C	R2	6	-	75	4
TНН20-BH2-6-7.2N13C	R3	7.2	13	75	6
TНН20-BH2-8-9.6N18C	R4	9.6	18	75	8
TНН20-BH2-1-1.5D	R0.5	1.5	-	100	4
TНН20-BH2-1.5-2.3D	R0.75	2.3	-	100	4
TНН20-BH2-2-3D	R1	3	-	100	4
TНН20-BH2-3-4.5D	R1.5	4.5	-	100	4
TНН20-BH2-4-6D	R2	6	-	100	4
TНН20-BH2-6-7.2N13D	R3	7.2	13	100	6
TНН20-BH2-8-9.6N18D	R4	9.6	18	100	8
TНН20-BH2-10-12N22D	R5	12	22	100	10
TНН20-BH2-12-14N25D	R6	14	25	100	12

Концевая фреза сферическая с удлиненным хвостовиком и обнижением



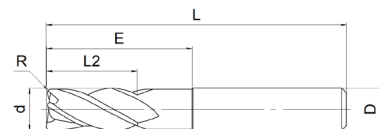
TiAlSiN



45°

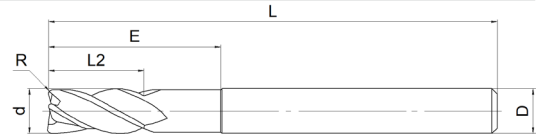
R

HRC≤70



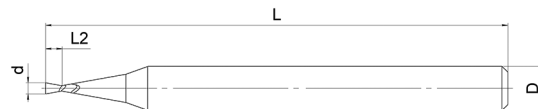
Артикул Tactic	d	R	L2	E	L	D
ТНН20-RT4-1R0.1-2A	1	0.1	2	-	50	4
ТНН20-RT4-1R0.2-2A	1	0.2	2	-	50	4
ТНН20-RT4-1.5R0.1-3A	1.5	0.1	3	-	50	4
ТНН20-RT4-1.5R0.2-3A	1.5	0.2	3	-	50	4
ТНН20-RT4-2R0.2-4A	2	0.2	4	-	50	4
ТНН20-RT4-2R0.5-4A	2	0.5	4	-	50	4
ТНН20-RT4-3R0.2-6A	3	0.2	6	-	50	4
ТНН20-RT4-3R0.5-6A	3	0.5	6	-	50	4
ТНН20-RT4-4R0.2-8A	4	0.2	8	-	50	4
ТНН20-RT4-4R0.5-8A	4	0.5	8	-	50	4
ТНН20-RT4-6R0.2-7.2N13A	6	0.2	7.2	13	50	6
ТНН20-RT4-6R0.5-7.2N13A	6	0.5	7.2	13	50	6
ТНН20-RT4-6R1-7.2N13A	6	1	7.2	13	50	6
ТНН20-RT4-8R0.5-9.6N18B	8	0.5	9.6	18	60	8
ТНН20-RT4-8R1-9.6N18B	8	1	9.6	18	60	8
ТНН20-RT4-10R0.5-12N22C	10	0.5	12	22	75	10
ТНН20-RT4-10R1-12N22C	10	1	12	22	75	10
ТНН20-RT4-12R0.5-14N25C	12	0.5	14	25	75	12
ТНН20-RT4-12R1-14N25C	12	1	14	25	75	12

Концевая фреза с удлиненным хвостовиком и обнижением



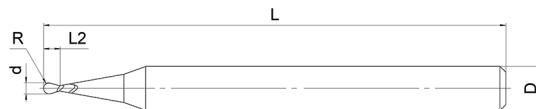
Артикул Tactic	d	R	L2	E	L	D
ТНН20-RH4-1R0.1-2C	1	0.1	2	-	75	4
ТНН20-RH4-1R0.2-2C	1	0.2	2	-	75	4
ТНН20-RH4-1.5R0.1-3C	1.5	0.1	3	-	75	4
ТНН20-RH4-1.5R0.2-3C	1.5	0.2	3	-	75	4
ТНН20-RH4-2R0.2-4C	2	0.2	4	-	75	4
ТНН20-RH4-2R0.5-4C	2	0.5	4	-	75	4
ТНН20-RH4-3R0.2-6C	3	0.2	6	-	75	4
ТНН20-RH4-3R0.5-6C	3	0.5	6	-	75	4
ТНН20-RH4-4R0.2-8C	4	0.2	8	-	75	4
ТНН20-RH4-4R0.5-8C	4	0.5	8	-	75	4
ТНН20-RH4-6R0.2-7.2N13C	6	0.2	7.2	13	75	6
ТНН20-RH4-6R0.5-7.2N13C	6	0.5	7.2	13	75	6
ТНН20-RH4-6R1-7.2N13C	6	1	7.2	13	75	6
ТНН20-RH4-8R0.5-9.6N18C	8	0.5	9.6	18	75	8
ТНН20-RH4-8R1-9.6N18C	8	1	9.6	18	75	8
ТНН20-RH4-1R0.1-2D	1	0.1	2	-	100	4
ТНН20-RH4-1R0.2-2D	1	0.2	2	-	100	4
ТНН20-RH4-1.5R0.1-3D	1.5	0.1	3	-	100	4
ТНН20-RH4-1.5R0.2-3D	1.5	0.2	3	-	100	4
ТНН20-RH4-2R0.2-4D	2	0.2	4	-	100	4
ТНН20-RH4-2R0.5-4D	2	0.5	4	-	100	4
ТНН20-RH4-3R0.2-6D	3	0.2	6	-	100	4
ТНН20-RH4-3R0.5-6D	3	0.5	6	-	100	4
ТНН20-RH4-4R0.2-8D	4	0.2	8	-	100	4
ТНН20-RH4-4R0.5-8D	4	0.5	8	-	100	4
ТНН20-RH4-6R0.2-7.2N13D	6	0.2	7.2	13	100	6
ТНН20-RH4-6R0.5-7.2N13D	6	0.5	7.2	13	100	6
ТНН20-RH4-6R1-7.2N13D	6	1	7.2	13	100	6
ТНН20-RH4-8R0.5-9.6N18D	8	0.5	9.6	18	100	8
ТНН20-RH4-8R1-9.6N18D	8	1	9.6	18	100	8
ТНН20-RH4-10R0.5-12N22D	10	0.5	12	22	100	10
ТНН20-RH4-10R1-12N22D	10	1	12	22	100	10
ТНН20-RH4-12R0.5-14N25D	12	0.5	14	25	100	12
ТНН20-RH4-12R1-14N25D	12	1	14	25	100	12

## Концевая микрофреза



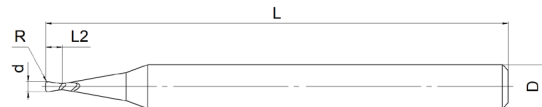
Артикул Tactic	d	L2	L	D
TНН20-ST2-0.01-0.02A	0.01	0.02	50	4
TНН20-ST2-0.015-0.03A	0.015	0.03	50	4
TНН20-ST2-0.02-0.04A	0.02	0.04	50	4
TНН20-ST2-0.025-0.05A	0.025	0.05	50	4
TНН20-ST2-0.03-0.06A	0.03	0.06	50	4
TНН20-ST2-0.035-0.07A	0.035	0.07	50	4
TНН20-ST2-0.04-0.08A	0.04	0.08	50	4
TНН20-ST2-0.045-0.09A	0.045	0.09	50	4
TНН20-ST2-0.05-0.1A	0.05	0.1	50	4
TНН20-ST2-0.06-0.12A	0.06	0.12	50	4
TНН20-ST2-0.07-0.14A	0.07	0.14	50	4
TНН20-ST2-0.08-0.16A	0.08	0.16	50	4
TНН20-ST2-0.09-0.18A	0.09	0.18	50	4
TНН20-ST2-0.1-0.2A	0.1	0.2	50	4
TНН20-ST2-0.15-0.3A	0.15	0.3	50	4
TНН20-ST2-0.2-0.4A	0.2	0.4	50	4
TНН20-ST2-0.3-0.6A	0.3	0.6	50	4
TНН20-ST2-0.4-0.8A	0.4	0.8	50	4
TНН20-ST2-0.5-1A	0.5	1	50	4
TНН20-ST2-0.6-1.2A	0.6	1.2	50	4
TНН20-ST2-0.7-1.4A	0.7	1.4	50	4
TНН20-ST2-0.8-1.6A	0.8	1.6	50	4
TНН20-ST2-0.9-1.8A	0.9	1.8	50	4

## Концевая микрофреза сферическая



Артикул Tactic	R	L2	L	D
TНН20-BT2-0.02-0.04A	R0.01	0.04	50	4
TНН20-BT2-0.03-0.06A	R0.015	0.06	50	4
TНН20-BT2-0.04-0.08A	R0.02	0.08	50	4
TНН20-BT2-0.05-0.1A	R0.025	0.1	50	4
TНН20-BT2-0.06-0.12A	R0.03	0.12	50	4
TНН20-BT2-0.07-0.14A	R0.035	0.14	50	4
TНН20-BT2-0.08-0.16A	R0.04	0.16	50	4
TНН20-BT2-0.09-0.18A	R0.045	0.18	50	4
TНН20-BT2-0.1-0.2A	R0.05	0.20	50	4
TНН20-BT2-0.12-0.24A	R0.06	0.24	50	4
TНН20-BT2-0.14-0.28A	R0.07	0.28	50	4
TНН20-BT2-0.16-0.32A	R0.08	0.32	50	4
TНН20-BT2-0.18-0.36A	R0.09	0.36	50	4
TНН20-BT2-0.2-0.4A	R0.1	0.4	50	4
TНН20-BT2-0.3-0.6A	R0.15	0.6	50	4
TНН20-BT2-0.4-0.8A	R0.2	0.8	50	4
TНН20-BT2-0.5-1A	R0.25	1	50	4
TНН20-BT2-0.6-1.2A	R0.3	1.2	50	4
TНН20-BT2-0.7-1.4A	R0.35	1.4	50	4
TНН20-BT2-0.8-1.6A	R0.4	1.6	50	4
TНН20-BT2-0.9-1.8A	R0.45	1.8	50	4

## Концевая микрофреза



Артикул Tactic	d	R	L2	L	D
TНН20-RT2-0.1R0.01-0.2A	0.1	0.01	0.2	50	4
TНН20-RT2-0.1R0.02-0.2A	0.1	0.02	0.2	50	4
TНН20-RT2-0.15R0.01-0.3A	0.15	0.01	0.3	50	4
TНН20-RT2-0.15R0.02-0.3A	0.15	0.02	0.3	50	4
TНН20-RT2-0.15R0.05-0.3A	0.15	0.05	0.3	50	4
TНН20-RT2-0.2R0.02-0.4A	0.2	0.02	0.4	50	4
TНН20-RT2-0.2R0.05-0.4A	0.2	0.05	0.4	50	4
TНН20-RT2-0.25R0.02-0.5A	0.25	0.02	0.5	50	4
TНН20-RT2-0.25R0.05-0.5A	0.25	0.05	0.5	50	4
TНН20-RT2-0.3R0.02-0.6A	0.3	0.02	0.6	50	4
TНН20-RT2-0.3R0.05-0.6A	0.3	0.05	0.6	50	4
TНН20-RT2-0.4R0.02-0.8A	0.4	0.02	0.8	50	4
TНН20-RT2-0.4R0.05-0.8A	0.4	0.05	0.8	50	4
TНН20-RT2-0.4R0.1-0.8A	0.4	0.1	0.8	50	4
TНН20-RT2-0.5R0.02-1A	0.5	0.02	1	50	4
TНН20-RT2-0.5R0.05-1A	0.5	0.05	1	50	4
TНН20-RT2-0.5R0.1-1A	0.5	0.1	1	50	4
TНН20-RT2-0.6R0.02-1.2A	0.6	0.02	1.2	50	4
TНН20-RT2-0.6R0.05-1.2A	0.6	0.05	1.2	50	4
TНН20-RT2-0.6R0.1-1.2A	0.6	0.1	1.2	50	4
TНН20-RT2-0.6R0.2-1.2A	0.6	0.2	1.2	50	4
TНН20-RT2-0.7R0.02-1.4A	0.7	0.02	1.4	50	4
TНН20-RT2-0.7R0.05-1.4A	0.7	0.05	1.4	50	4
TНН20-RT2-0.7R0.1-1.4A	0.7	0.1	1.4	50	4
TНН20-RT2-0.7R0.2-1.4A	0.7	0.2	1.4	50	4
TНН20-RT2-0.8R0.02-1.6A	0.8	0.02	1.6	50	4
TНН20-RT2-0.8R0.05-1.6A	0.8	0.05	1.6	50	4
TНН20-RT2-0.8R0.1-1.6A	0.8	0.1	1.6	50	4
TНН20-RT2-0.8R0.2-1.6A	0.8	0.2	1.6	50	4
TНН20-RT2-0.9R0.05-1.8A	0.9	0.05	1.8	50	4
TНН20-RT2-0.9R0.1-1.8A	0.9	0.1	1.8	50	4
TНН20-RT2-0.9R0.2-1.8A	0.9	0.2	1.8	50	4

## Концевая микрофреза с обнижением



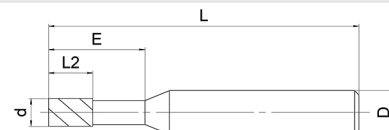
TiAlSiN



30°

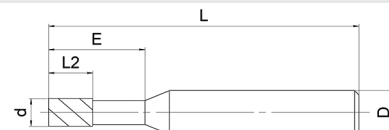
R

HRC≤70



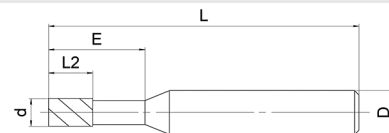
Артикул Tactic	d	R	L2	E	L	D
ТНН20-РН2-0.1R0.01-0.1N0.5A	0.1	0.01	0.1	0.5	50	4
ТНН20-РН2-0.1R0.01-0.1N1A	0.1	0.01	0.1	1	50	4
ТНН20-РН2-0.1R0.01-0.1N2A	0.1	0.01	0.1	2	50	4
ТНН20-РН2-0.1R0.02-0.1N0.5A	0.1	0.02	0.1	0.5	50	4
ТНН20-РН2-0.1R0.02-0.1N1A	0.1	0.02	0.1	1	50	4
ТНН20-РН2-0.1R0.02-0.1N2A	0.1	0.02	0.1	2	50	4
ТНН20-РН2-0.15R0.01-0.15N1A	0.15	0.01	0.15	1	50	4
ТНН20-РН2-0.15R0.01-0.15N2A	0.15	0.01	0.15	2	50	4
ТНН20-РН2-0.15R0.02-0.15N1A	0.15	0.02	0.15	1	50	4
ТНН20-РН2-0.15R0.02-0.15N2A	0.15	0.02	0.15	2	50	4
ТНН20-РН2-0.15R0.05-0.15N1A	0.15	0.05	0.15	1	50	4
ТНН20-РН2-0.15R0.05-0.15N2A	0.15	0.05	0.15	2	50	4
ТНН20-РН2-0.2R0.02-0.2N1A	0.2	0.02	0.2	1	50	4
ТНН20-РН2-0.2R0.02-0.2N2A	0.2	0.02	0.2	2	50	4
ТНН20-РН2-0.2R0.05-0.2N1A	0.2	0.05	0.2	1	50	4
ТНН20-РН2-0.2R0.05-0.2N2A	0.2	0.05	0.2	2	50	4
ТНН20-РН2-0.3R0.02-0.3N1A	0.3	0.02	0.3	1	50	4
ТНН20-РН2-0.3R0.02-0.3N2A	0.3	0.02	0.3	2	50	4
ТНН20-РН2-0.3R0.02-0.3N3A	0.3	0.02	0.3	3	50	4
ТНН20-РН2-0.3R0.05-0.3N1A	0.3	0.05	0.3	1	50	4
ТНН20-РН2-0.3R0.05-0.3N2A	0.3	0.05	0.3	2	50	4
ТНН20-РН2-0.3R0.05-0.3N3A	0.3	0.05	0.3	3	50	4
ТНН20-РН2-0.4R0.02-0.4N1A	0.4	0.02	0.4	1	50	4
ТНН20-РН2-0.4R0.02-0.4N2A	0.4	0.02	0.4	2	50	4
ТНН20-РН2-0.4R0.02-0.4N3A	0.4	0.02	0.4	3	50	4
ТНН20-РН2-0.4R0.02-0.4N4A	0.4	0.02	0.4	4	50	4
ТНН20-РН2-0.4R0.05-0.4N1A	0.4	0.05	0.4	1	50	4
ТНН20-РН2-0.4R0.05-0.4N2A	0.4	0.05	0.4	2	50	4
ТНН20-РН2-0.4R0.05-0.4N3A	0.4	0.05	0.4	3	50	4
ТНН20-РН2-0.4R0.05-0.4N4A	0.4	0.05	0.4	4	50	4
ТНН20-РН2-0.4R0.1-0.4N1A	0.4	0.1	0.4	1	50	4
ТНН20-РН2-0.4R0.1-0.4N2A	0.4	0.1	0.4	2	50	4
ТНН20-РН2-0.4R0.1-0.4N3A	0.4	0.1	0.4	3	50	4
ТНН20-РН2-0.4R0.1-0.4N4A	0.4	0.1	0.4	4	50	4
ТНН20-РН2-0.5R0.02-0.5N2A	0.5	0.02	0.5	2	50	4
ТНН20-РН2-0.5R0.02-0.5N3A	0.5	0.02	0.5	3	50	4
ТНН20-РН2-0.5R0.02-0.5N4A	0.5	0.02	0.5	4	50	4
ТНН20-РН2-0.5R0.02-0.5N5A	0.5	0.02	0.5	5	50	4
ТНН20-РН2-0.5R0.05-0.5N2A	0.5	0.05	0.5	2	50	4
ТНН20-РН2-0.5R0.05-0.5N3A	0.5	0.05	0.5	3	50	4
ТНН20-РН2-0.5R0.05-0.5N4A	0.5	0.05	0.5	4	50	4
ТНН20-РН2-0.5R0.05-0.5N5A	0.5	0.05	0.5	5	50	4
ТНН20-РН2-0.5R0.1-0.5N2A	0.5	0.1	0.5	2	50	4
ТНН20-РН2-0.5R0.1-0.5N3A	0.5	0.1	0.5	3	50	4
ТНН20-РН2-0.5R0.1-0.5N4A	0.5	0.1	0.5	4	50	4
ТНН20-РН2-0.5R0.1-0.5N5A	0.5	0.1	0.5	5	50	4
ТНН20-РН2-0.6R0.02-0.6N2A	0.6	0.02	0.6	2	50	4
ТНН20-РН2-0.6R0.02-0.6N3A	0.6	0.02	0.6	3	50	4
ТНН20-РН2-0.6R0.02-0.6N4A	0.6	0.02	0.6	4	50	4
ТНН20-РН2-0.6R0.02-0.6N5A	0.6	0.02	0.6	5	50	4
ТНН20-РН2-0.6R0.02-0.6N6A	0.6	0.02	0.6	6	50	4
ТНН20-РН2-0.6R0.05-0.6N2A	0.6	0.05	0.6	2	50	4
ТНН20-РН2-0.6R0.05-0.6N3A	0.6	0.05	0.6	3	50	4
ТНН20-РН2-0.6R0.05-0.6N4A	0.6	0.05	0.6	4	50	4

## Концевая микрофреза с обнижением



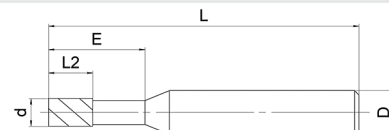
Артикул Tactic	d	R	L2	E	L	D
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ТНН20-RN2-0.6R0.05-0.6N6A	0.6	0.05	0.6	6	50	4
ТНН20-RN2-0.6R0.1-0.6N2A	0.6	0.1	0.6	2	50	4
ТНН20-RN2-0.6R0.1-0.6N3A	0.6	0.1	0.6	3	50	4
ТНН20-RN2-0.6R0.1-0.6N4A	0.6	0.1	0.6	4	50	4
ТНН20-RN2-0.6R0.1-0.6N5A	0.6	0.1	0.6	5	50	4
ТНН20-RN2-0.6R0.1-0.6N6A	0.6	0.1	0.6	6	50	4
ТНН20-RN2-0.6R0.2-0.6N2A	0.6	0.2	0.6	2	50	4
ТНН20-RN2-0.6R0.2-0.6N3A	0.6	0.2	0.6	3	50	4
ТНН20-RN2-0.6R0.2-0.6N4A	0.6	0.2	0.6	4	50	4
ТНН20-RN2-0.6R0.2-0.6N5A	0.6	0.2	0.6	5	50	4
ТНН20-RN2-0.6R0.2-0.6N6A	0.6	0.2	0.6	6	50	4
ТНН20-RN2-0.7R0.02-0.7N2A	0.7	0.02	0.7	2	50	4
ТНН20-RN2-0.7R0.02-0.7N3A	0.7	0.02	0.7	3	50	4
ТНН20-RN2-0.7R0.02-0.7N4A	0.7	0.02	0.7	4	50	4
ТНН20-RN2-0.7R0.02-0.7N5A	0.7	0.02	0.7	5	50	4
ТНН20-RN2-0.7R0.02-0.7N6A	0.7	0.02	0.7	6	50	4
ТНН20-RN2-0.7R0.02-0.7N8A	0.7	0.02	0.7	8	50	4
ТНН20-RN2-0.7R0.05-0.7N2A	0.7	0.05	0.7	2	50	4
ТНН20-RN2-0.7R0.05-0.7N3A	0.7	0.05	0.7	3	50	4
ТНН20-RN2-0.7R0.05-0.7N4A	0.7	0.05	0.7	4	50	4
ТНН20-RN2-0.7R0.05-0.7N5A	0.7	0.05	0.7	5	50	4
ТНН20-RN2-0.7R0.05-0.7N6A	0.7	0.05	0.7	6	50	4
ТНН20-RN2-0.7R0.05-0.7N8A	0.7	0.05	0.7	8	50	4
ТНН20-RN2-0.7R0.1-0.7N2A	0.7	0.1	0.7	2	50	4
ТНН20-RN2-0.7R0.1-0.7N3A	0.7	0.1	0.7	3	50	4
ТНН20-RN2-0.7R0.1-0.7N4A	0.7	0.1	0.7	4	50	4
ТНН20-RN2-0.7R0.1-0.7N5A	0.7	0.1	0.7	5	50	4
ТНН20-RN2-0.7R0.1-0.7N6A	0.7	0.1	0.7	6	50	4
ТНН20-RN2-0.7R0.1-0.7N8A	0.7	0.1	0.7	8	50	4
ТНН20-RN2-0.7R0.2-0.7N2A	0.7	0.2	0.7	2	50	4
ТНН20-RN2-0.7R0.2-0.7N3A	0.7	0.2	0.7	3	50	4
ТНН20-RN2-0.7R0.2-0.7N4A	0.7	0.2	0.7	4	50	4
ТНН20-RN2-0.7R0.2-0.7N5A	0.7	0.2	0.7	5	50	4
ТНН20-RN2-0.7R0.2-0.7N6A	0.7	0.2	0.7	6	50	4
ТНН20-RN2-0.7R0.2-0.7N8A	0.7	0.2	0.7	8	50	4
ТНН20-RN2-0.8R0.02-0.8N2A	0.8	0.02	0.8	2	50	4
ТНН20-RN2-0.8R0.02-0.8N3A	0.8	0.02	0.8	3	50	4
ТНН20-RN2-0.8R0.02-0.8N4A	0.8	0.02	0.8	4	50	4
ТНН20-RN2-0.8R0.02-0.8N5A	0.8	0.02	0.8	5	50	4
ТНН20-RN2-0.8R0.02-0.8N6A	0.8	0.02	0.8	6	50	4
ТНН20-RN2-0.8R0.02-0.8N8A	0.8	0.02	0.8	8	50	4
ТНН20-RN2-0.8R0.05-0.8N2A	0.8	0.05	0.8	2	50	4
ТНН20-RN2-0.8R0.05-0.8N3A	0.8	0.05	0.8	3	50	4
ТНН20-RN2-0.8R0.05-0.8N4A	0.8	0.05	0.8	4	50	4
ТНН20-RN2-0.8R0.05-0.8N5A	0.8	0.05	0.8	5	50	4
ТНН20-RN2-0.8R0.05-0.8N6A	0.8	0.05	0.8	6	50	4
ТНН20-RN2-0.8R0.05-0.8N8A	0.8	0.05	0.8	8	50	4
ТНН20-RN2-0.8R0.1-0.8N2A	0.8	0.1	0.8	2	50	4
ТНН20-RN2-0.8R0.1-0.8N3A	0.8	0.1	0.8	3	50	4
ТНН20-RN2-0.8R0.1-0.8N4A	0.8	0.1	0.8	4	50	4
ТНН20-RN2-0.8R0.1-0.8N5A	0.8	0.1	0.8	5	50	4
ТНН20-RN2-0.8R0.1-0.8N6A	0.8	0.1	0.8	6	50	4
ТНН20-RN2-0.8R0.1-0.8N8A	0.8	0.1	0.8	8	50	4

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Артикул Tactic	d	R	L2	E	L	D
ТНН20-RN2-0.8R0.2-0.8N2A	0.8	0.2	0.8	2	50	4
ТНН20-RN2-0.8R0.2-0.8N3A	0.8	0.2	0.8	3	50	4
ТНН20-RN2-0.8R0.2-0.8N4A	0.8	0.2	0.8	4	50	4
ТНН20-RN2-0.8R0.2-0.8N5A	0.8	0.2	0.8	5	50	4
ТНН20-RN2-0.8R0.2-0.8N6A	0.8	0.2	0.8	6	50	4
ТНН20-RN2-0.8R0.2-0.8N8A	0.8	0.2	0.8	8	50	4
ТНН20-RN2-0.9R0.05-0.9N3A	0.9	0.05	0.9	3	50	4
ТНН20-RN2-0.9R0.05-0.9N4A	0.9	0.05	0.9	4	50	4
ТНН20-RN2-0.9R0.05-0.9N6A	0.9	0.05	0.9	6	50	4
ТНН20-RN2-0.9R0.05-0.9N8A	0.9	0.05	0.9	8	50	4
ТНН20-RN2-0.9R0.1-0.9N3A	0.9	0.1	0.9	3	50	4
ТНН20-RN2-0.9R0.1-0.9N4A	0.9	0.1	0.9	4	50	4
ТНН20-RN2-0.9R0.1-0.9N6A	0.9	0.1	0.9	6	50	4
ТНН20-RN2-0.9R0.1-0.9N8A	0.9	0.1	0.9	8	50	4
ТНН20-RN2-0.9R0.2-0.9N3A	0.9	0.2	0.9	3	50	4
ТНН20-RN2-0.9R0.2-0.9N4A	0.9	0.2	0.9	4	50	4
ТНН20-RN2-0.9R0.2-0.9N6A	0.9	0.2	0.9	6	50	4
ТНН20-RN2-0.9R0.2-0.9N8A	0.9	0.2	0.9	8	50	4

## Концевая микрофреза с обнижением



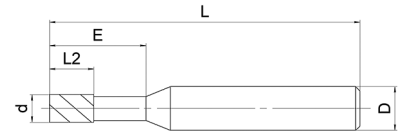
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TНН20-SN2-0.06-0.06N0.5A	0.06	0.06	0.5	50	4
TНН20-SN2-0.06-0.06N1A	0.06	0.06	1	50	4
TНН20-SN2-0.07-0.07N0.5A	0.07	0.07	0.5	50	4
TНН20-SN2-0.07-0.07N1A	0.07	0.07	1	50	4
TНН20-SN2-0.08-0.08N0.5A	0.08	0.08	0.5	50	4
TНН20-SN2-0.08-0.08N1A	0.08	0.08	1	50	4
TНН20-SN2-0.09-0.09N0.5A	0.09	0.09	0.5	50	4
TНН20-SN2-0.09-0.09N1A	0.09	0.09	1	50	4
TНН20-SN2-0.1-0.1N0.5A	0.1	0.1	0.5	50	4
TНН20-SN2-0.1-0.1N1A	0.1	0.1	1	50	4
TНН20-SN2-0.1-0.1N1.5A	0.1	0.1	1.5	50	4
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TНН20-SN2-0.15-0.15N1A	0.15	0.15	1	50	4
TНН20-SN2-0.15-0.15N1.5A	0.15	0.15	1.5	50	4
TНН20-SN2-0.15-0.15N2A	0.15	0.15	2	50	4
TНН20-SN2-0.2-0.2N1A	0.2	0.2	1	50	4
TНН20-SN2-0.2-0.2N2A	0.2	0.2	2	50	4
TНН20-SN2-0.2-0.2N3A	0.2	0.2	3	50	4
TНН20-SN2-0.2-0.2N4A	0.2	0.2	4	50	4
TНН20-SN2-0.25-0.25N2A	0.25	0.25	2	50	4
TНН20-SN2-0.25-0.25N3A	0.25	0.25	3	50	4
TНН20-SN2-0.25-0.25N4A	0.25	0.25	4	50	4
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TНН20-SN2-0.3-0.3N3A	0.3	0.3	3	50	4
TНН20-SN2-0.3-0.3N4A	0.3	0.3	4	50	4
TНН20-SN2-0.3-0.3N6A	0.3	0.3	6	50	4
TНН20-SN2-0.4-0.4N2A	0.4	0.4	2	50	4
TНН20-SN2-0.4-0.4N3A	0.4	0.4	3	50	4
TНН20-SN2-0.4-0.4N4A	0.4	0.4	4	50	4
TНН20-SN2-0.4-0.4N6A	0.4	0.4	6	50	4
TНН20-SN2-0.5-0.5N2A	0.5	0.5	2	50	4
TНН20-SN2-0.5-0.5N3A	0.5	0.5	3	50	4
TНН20-SN2-0.5-0.5N4A	0.5	0.5	4	50	4
TНН20-SN2-0.5-0.5N6A	0.5	0.5	6	50	4
TНН20-SN2-0.5-0.5N8A	0.5	0.5	8	50	4
TНН20-SN2-0.5-0.5N10A	0.5	0.5	10	50	4
TНН20-SN2-0.5-0.5N12A	0.5	0.5	12	50	4
TНН20-SN2-0.6-0.6N2A	0.6	0.6	2	50	4
TНН20-SN2-0.6-0.6N3A	0.6	0.6	3	50	4
TНН20-SN2-0.6-0.6N4A	0.6	0.6	4	50	4
TНН20-SN2-0.6-0.6N6A	0.6	0.6	6	50	4
TНН20-SN2-0.6-0.6N8A	0.6	0.6	8	50	4
TНН20-SN2-0.6-0.6N10A	0.6	0.6	10	50	4
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TНН20-SN2-0.7-0.7N4A	0.7	0.7	4	50	4
TНН20-SN2-0.7-0.7N6A	0.7	0.7	6	50	4
TНН20-SN2-0.7-0.7N8A	0.7	0.7	8	50	4
TНН20-SN2-0.7-0.7N10A	0.7	0.7	10	50	4
TНН20-SN2-0.7-0.7N12A	0.7	0.7	12	50	4
TНН20-SN2-0.8-0.8N3A	0.8	0.8	3	50	4

# TНН20

ФРЕЗЫ С УВЕЛИЧЕННОЙ ЖЕСТКОСТЬЮ, ДЛЯ ОБРАБОТКИ ЗАКАЛЕННЫХ СТАЛЕЙ

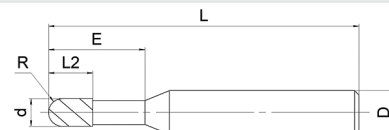


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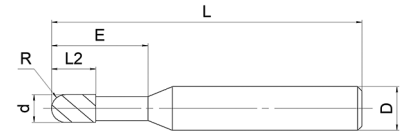
Артикул Tactic	d	L2	E	L	D
TНН20-SN2-0.8-0.8N4A	0.8	0.8	4	50	4
TНН20-SN2-0.8-0.8N6A	0.8	0.8	6	50	4
TНН20-SN2-0.8-0.8N8A	0.8	0.8	8	50	4
TНН20-SN2-0.8-0.8N10A	0.8	0.8	10	50	4
TНН20-SN2-0.8-0.8N12A	0.8	0.8	12	50	4
TНН20-SN2-0.9-0.9N3A	0.9	0.9	3	50	4
TНН20-SN2-0.9-0.9N4A	0.9	0.9	4	50	4
TНН20-SN2-0.9-0.9N6A	0.9	0.9	6	50	4
TНН20-SN2-0.9-0.9N8A	0.9	0.9	8	50	4
TНН20-SN2-0.9-0.9N10A	0.9	0.9	10	50	4
TНН20-SN2-0.9-0.9N12A	0.9	0.9	12	50	4

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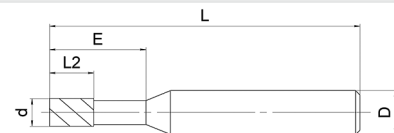
Артикул Tactic	R	L2	E	L	D
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TНН20-BN2-0.1-0.1N0.5A	R0.05	0.1	0.5	50	4
TНН20-BN2-0.1-0.1N1A	R0.05	0.1	1	50	4
TНН20-BN2-0.15-0.15N0.3A	R0.075	0.15	0.3	50	4
TНН20-BN2-0.15-0.15N0.5A	R0.075	0.15	0.5	50	4
TНН20-BN2-0.15-0.15N1A	R0.075	0.15	1	50	4
TНН20-BN2-0.2-0.2N0.5A	R0.1	0.2	0.5	50	4
TНН20-BN2-0.2-0.2N1A	R0.1	0.2	1	50	4
TНН20-BN2-0.2-0.2N1.5A	R0.1	0.2	1.5	50	4
TНН20-BN2-0.2-0.2N2A	R0.1	0.2	2	50	4
TНН20-BN2-0.3-0.3N1A	R0.15	0.3	1	50	4
TНН20-BN2-0.3-0.3N1.5A	R0.15	0.3	1.5	50	4
TНН20-BN2-0.3-0.3N2A	R0.15	0.3	2	50	4
TНН20-BN2-0.3-0.3N3A	R0.15	0.3	3	50	4
TНН20-BN2-0.3-0.3N4A	R0.15	0.3	4	50	4
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TНН20-BN2-0.4-0.4N3A	R0.2	0.4	3	50	4
TНН20-BN2-0.4-0.4N4A	R0.2	0.4	4	50	4
TНН20-BN2-0.4-0.4N6A	R0.2	0.4	6	50	4
TНН20-BN2-0.5-0.5N2A	R0.25	0.5	2	50	4
TНН20-BN2-0.5-0.5N3A	R0.25	0.5	3	50	4
TНН20-BN2-0.5-0.5N4A	R0.25	0.5	4	50	4
TНН20-BN2-0.5-0.5N6A	R0.25	0.5	6	50	4
TНН20-BN2-0.5-0.5N8A	R0.25	0.5	8	50	4
TНН20-BN2-0.6-0.6N3A	R0.3	0.6	3	50	4
TНН20-BN2-0.6-0.6N4A	R0.3	0.6	4	50	4
TНН20-BN2-0.6-0.6N6A	R0.3	0.6	6	50	4
TНН20-BN2-0.6-0.6N8A	R0.3	0.6	8	50	4
TНН20-BN2-0.6-0.6N10A	R0.3	0.6	10	50	4
TНН20-BN2-0.6-0.6N12A	R0.3	0.6	12	50	4
TНН20-BN2-0.7-0.7N2A	R0.35	0.7	2	50	4
TНН20-BN2-0.7-0.7N3A	R0.35	0.7	3	50	4
TНН20-BN2-0.7-0.7N4A	R0.35	0.7	4	50	4
TНН20-BN2-0.7-0.7N6A	R0.35	0.7	6	50	4
TНН20-BN2-0.7-0.7N8A	R0.35	0.7	8	50	4
TНН20-BN2-0.7-0.7N10A	R0.35	0.7	10	50	4
TНН20-BN2-0.7-0.7N12A	R0.35	0.7	12	50	4
TНН20-BN2-0.8-0.8N2A	R0.4	0.8	2	50	4
TНН20-BN2-0.8-0.8N3A	R0.4	0.8	3	50	4
TНН20-BN2-0.8-0.8N4A	R0.4	0.8	4	50	4
TНН20-BN2-0.8-0.8N6A	R0.4	0.8	6	50	4
TНН20-BN2-0.8-0.8N8A	R0.4	0.8	8	50	4
TНН20-BN2-0.8-0.8N10A	R0.4	0.8	10	50	4
TНН20-BN2-0.8-0.8N12A	R0.4	0.8	12	50	4
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TНН20-BN2-0.9-0.9N8A	R0.45	0.9	8	50	4
TНН20-BN2-0.9-0.9N10A	R0.45	0.9	10	50	4
TНН20-BN2-0.9-0.9N12A	R0.45	0.9	12	50	4

Концевая микрофреза сферическая с обнижением



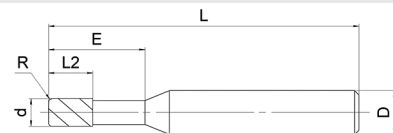
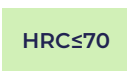
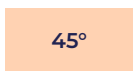
Артикул Tactic	R	L2	E	L	D
TНН20-BN2-1-1N4A	R0.5	1	4	50	4
TНН20-BN2-1-1N6A	R0.5	1	6	50	4
TНН20-BN2-1-1N8A	R0.5	1	8	50	4
TНН20-BN2-1-1N10A	R0.5	1	10	50	4
TНН20-BN2-1-1N12A	R0.5	1	12	50	4
TНН20-BN2-1-1N16A	R0.5	1	16	50	4
TНН20-BN2-1-1N20A	R0.5	1	20	50	4
TНН20-BN2-1.5-1.5N4A	R0.75	1.5	4	50	4
TНН20-BN2-1.5-1.5N6A	R0.75	1.5	6	50	4
TНН20-BN2-1.5-1.5N8A	R0.75	1.5	8	50	4
TНН20-BN2-1.5-1.5N10A	R0.75	1.5	10	50	4
TНН20-BN2-1.5-1.5N12A	R0.75	1.5	12	50	4
TНН20-BN2-1.5-1.5N16A	R0.75	1.5	16	50	4
TНН20-BN2-1.5-1.5N20A	R0.75	1.5	20	50	4
TНН20-BN2-2-2N6A	R1	2	6	50	4
TНН20-BN2-2-2N8A	R1	2	8	50	4
TНН20-BN2-2-2N10A	R1	2	10	50	4
TНН20-BN2-2-2N12A	R1	2	12	50	4
TНН20-BN2-2-2N16A	R1	2	16	50	4
TНН20-BN2-2-2N20A	R1	2	20	50	4
TНН20-BN2-3-3N8A	R1.5	3	8	50	4
TНН20-BN2-3-3N10A	R1.5	3	10	50	4
TНН20-BN2-3-3N12A	R1.5	3	12	50	4
TНН20-BN2-3-3N16A	R1.5	3	16	50	4
TНН20-BN2-3-3N20A	R1.5	3	20	50	4
TНН20-BN2-3-3N10B	R1.5	3	10	60	6
TНН20-BN2-3-3N12B	R1.5	3	12	60	6
TНН20-BN2-3-3N16B	R1.5	3	16	60	6
TНН20-BN2-3-3N20B	R1.5	3	20	60	6
TНН20-BN2-3-3N30C	R1.5	3	30	75	6
TНН20-BN2-4-4N10B	R2	4	10	60	6
TНН20-BN2-4-4N12B	R2	4	12	60	6
TНН20-BN2-4-4N16B	R2	4	16	60	6
TНН20-BN2-4-4N20B	R2	4	20	60	6
TНН20-BN2-4-4N30C	R2	4	30	75	6

Концевая микрофреза с обнижением



Артикул Tactic	d	L2	E	L	D
TНН20-SN4-1-1.2N4A	1	1.2	4	50	4
TНН20-SN4-1-1.2N6A	1	1.2	6	50	4
TНН20-SN4-1-1.2N8A	1	1.2	8	50	4
TНН20-SN4-1-1.2N10A	1	1.2	10	50	4
TНН20-SN4-1-1.2N12A	1	1.2	12	50	4
TНН20-SN4-1-1.2N16A	1	1.2	16	50	4
TНН20-SN4-1-1.2N20A	1	1.2	20	50	4
TНН20-SN4-1.5-1.8N6A	1.5	1.8	6	50	4
TНН20-SN4-1.5-1.8N8A	1.5	1.8	8	50	4
TНН20-SN4-1.5-1.8N10A	1.5	1.8	10	50	4
TНН20-SN4-1.5-1.8N12A	1.5	1.8	12	50	4
TНН20-SN4-1.5-1.8N16A	1.5	1.8	16	50	4
TНН20-SN4-1.5-1.8N20A	1.5	1.8	20	50	4
TНН20-SN4-2-2.4N8A	2	2.4	8	50	4
TНН20-SN4-2-2.4N10A	2	2.4	10	50	4
TНН20-SN4-2-2.4N12A	2	2.4	12	50	4
TНН20-SN4-2-2.4N16A	2	2.4	16	50	4
TНН20-SN4-2-2.4N20A	2	2.4	20	50	4
TНН20-SN4-2.5-3N10A	2.5	3	10	50	4
TНН20-SN4-2.5-3N12A	2.5	3	12	50	4
TНН20-SN4-2.5-3N16A	2.5	3	16	50	4
TНН20-SN4-2.5-3N20A	2.5	3	20	50	4
TНН20-SN4-3-3.6N10A	3	3.6	10	50	4
TНН20-SN4-3-3.6N12A	3	3.6	12	50	4
TНН20-SN4-3-3.6N16A	3	3.6	16	50	4
TНН20-SN4-3-3.6N20A	3	3.6	20	50	4
TНН20-SN4-3-3.6N10B	3	3.6	10	60	6
TНН20-SN4-3-3.6N12B	3	3.6	12	60	6
TНН20-SN4-3-3.6N16B	3	3.6	16	60	6
TНН20-SN4-3-3.6N20B	3	3.6	20	60	6
TНН20-SN4-3-3.6N30C	3	3.6	30	75	6
TНН20-SN4-4-4.8N10B	4	4.8	10	60	6
TНН20-SN4-4-4.8N12B	4	4.8	12	60	6
TНН20-SN4-4-4.8N16B	4	4.8	16	60	6
TНН20-SN4-4-4.8N20B	4	4.8	20	60	6
TНН20-SN4-4-4.8N30C	4	4.8	30	75	6

## Концевая микрофреза с обнижением



Артикул Tactic	d	R	L2	E	L	D
THH20-RN4-1R0.2-1.2N4A	1	0.2	1.2	4	50	4
THH20-RN4-1R0.2-1.2N6A	1	0.2	1.2	6	50	4
THH20-RN4-1R0.2-1.2N8A	1	0.2	1.2	8	50	4
THH20-RN4-1R0.2-1.2N10A	1	0.2	1.2	10	50	4
THH20-RN4-1R0.2-1.2N12A	1	0.2	1.2	12	50	4
THH20-RN4-1R0.2-1.2N16A	1	0.2	1.2	16	50	4
THH20-RN4-1R0.2-1.2N20A	1	0.2	1.2	20	50	4
THH20-RN4-2R0.2-2.4N8A	2	0.2	2.4	8	50	4
THH20-RN4-2R0.2-2.4N10A	2	0.2	2.4	10	50	4
THH20-RN4-2R0.2-2.4N12A	2	0.2	2.4	12	50	4
THH20-RN4-2R0.2-2.4N16A	2	0.2	2.4	16	50	4
THH20-RN4-2R0.2-2.4N20A	2	0.2	2.4	20	50	4
THH20-RN4-2R0.5-2.4N8A	2	0.5	2.4	8	50	4
THH20-RN4-2R0.5-2.4N10A	2	0.5	2.4	10	50	4
THH20-RN4-2R0.5-2.4N12A	2	0.5	2.4	12	50	4
THH20-RN4-2R0.5-2.4N16A	2	0.5	2.4	16	50	4
THH20-RN4-2R0.5-2.4N20A	2	0.5	2.4	20	50	4
THH20-RN4-3R0.2-3.6N10A	3	0.2	3.6	10	50	4
THH20-RN4-3R0.2-3.6N12A	3	0.2	3.6	12	50	4
THH20-RN4-3R0.2-3.6N16A	3	0.2	3.6	16	50	4
THH20-RN4-3R0.2-3.6N20A	3	0.2	3.6	20	50	4
THH20-RN4-3R0.5-3.6N10A	3	0.5	3.6	10	50	4
THH20-RN4-3R0.5-3.6N12A	3	0.5	3.6	12	50	4
THH20-RN4-3R0.5-3.6N16A	3	0.5	3.6	16	50	4
THH20-RN4-3R0.5-3.6N20A	3	0.5	3.6	20	50	4
THH20-RN4-3R0.2-3.6N10B	3	0.2	3.6	10	60	6
THH20-RN4-3R0.2-3.6N12B	3	0.2	3.6	12	60	6
THH20-RN4-3R0.2-3.6N16B	3	0.2	3.6	16	60	6
THH20-RN4-3R0.2-3.6N20B	3	0.2	3.6	20	60	6
THH20-RN4-3R0.2-3.6N30C	3	0.2	3.6	30	75	6
THH20-RN4-3R0.5-3.6N10B	3	0.5	3.6	10	60	6
THH20-RN4-3R0.5-3.6N12B	3	0.5	3.6	12	60	6
THH20-RN4-3R0.5-3.6N16B	3	0.5	3.6	16	60	6
THH20-RN4-3R0.5-3.6N20B	3	0.5	3.6	20	60	6
THH20-RN4-3R0.5-3.6N30C	3	0.5	3.6	30	75	6
THH20-RN4-4R0.2-4.8N10B	4	0.2	4.8	10	60	6
THH20-RN4-4R0.2-4.8N12B	4	0.2	4.8	12	60	6
THH20-RN4-4R0.2-4.8N16B	4	0.2	4.8	16	60	6
THH20-RN4-4R0.2-4.8N20B	4	0.2	4.8	20	60	6
THH20-RN4-4R0.2-4.8N30C	4	0.2	4.8	30	75	6
THH20-RN4-4R0.5-4.8N10B	4	0.5	4.8	10	60	6
THH20-RN4-4R0.5-4.8N12B	4	0.5	4.8	12	60	6
THH20-RN4-4R0.5-4.8N16B	4	0.5	4.8	16	60	6
THH20-RN4-4R0.5-4.8N20B	4	0.5	4.8	20	60	6
THH20-RN4-4R0.5-4.8N30C	4	0.5	4.8	30	75	6

Закаленная сталь 45-58HRC					Закаленная сталь 58-70HRC				
Плоский торец	Начальные данные								
	Обработка торцов								
	f (мм/мин)	S (об/мин)	ae (мм)	ap (мм)	f (мм/мин)	S (об/мин)	ae (мм)	ap (мм)	
D1.0	800	10000	0.6	0.02	800	9000	0.6	0.01	
D2.0	800	10000	1.2	0.02	800	9000	1.2	0.015	
D3.0	1000	9000	1.8	0.02	1000	8000	1.8	0.02	
D4.0	1000	9000	2.4	0.03	1000	8000	2.4	0.03	
D6.0	1000	8000	3.6	0.03	1000	7500	3.6	0.03	
D8.0	1200	7000	4.8	0.04	1200	6500	4.8	0.03	
D10.0	1200	7000	6.0	0.06	1200	6500	6.0	0.05	
D12.0	1200	6500	7.2	0.08	1200	6000	7.2	0.05	

Закаленная сталь 45-58HRC					Закаленная сталь 58-70HRC				
Плоский торец	Начальные данные								
	Обработка стенок								
	f (мм/мин)	S (об/мин)	ae (мм)	ap (мм)	f (мм/мин)	S (об/мин)	ae (мм)	ap (мм)	
D1.0	800	10000	0.03	3	800	10000	0.02	2	
D2.0	800	10000	0.03	5	800	10000	0.02	4	
D3.0	1000	9500	0.05	6	1000	9500	0.03	5	
D4.0	1000	9500	0.08	8	1000	9500	0.05	6	
D6.0	1000	9000	0.1	12	1000	9000	0.05	10	
D8.0	1200	8000	0.1	15	1200	8000	0.08	12	
D10.0	1200	7000	0.12	20	1200	7000	0.1	15	
D12.0	1200	7000	0.12	25	1200	7000	0.1	20	

Закаленная сталь 45-58HRC					Закаленная сталь 58-70HRC				
Сферическая	Начальные данные								
	Профильная обработка								
	f (мм/мин)	S (об/мин)	ae (мм)	ap (мм)	f (мм/мин)	S (об/мин)	ae (мм)	ap (мм)	
R0.5	1000	10000	0.06	0.02	1000	10000	0.06	0.015	
R0.75	1000	10000	0.08	0.02	1000	10000	0.08	0.015	
R1.0	1200	9000	0.1	0.05	1200	9000	0.1	0.03	
R1.5	1200	9000	0.1	0.05	1200	9000	0.1	0.03	
R2.0	1500	8000	0.15	0.1	1500	8000	0.15	0.08	
R3.0	1500	8000	0.15	0.1	1500	8000	0.15	0.08	
R4.0	1800	7000	0.15	0.1	1800	7000	0.15	0.08	
R5.0	2000	7000	0.2	0.15	2000	7000	0.2	0.12	
R6.0	2000	7000	0.2	0.15	2000	7000	0.2	0.12	

Закаленная сталь 45-58HRC					Закаленная сталь 58-70HRC				
Сферическая	Начальные данные								
	Обработка пазов								
	f (мм/мин)	S (об/мин)	ae (мм)	ap (мм)	f (мм/мин)	S (об/мин)	ae (мм)	ap (мм)	
R0.5	750	12000	0	0.02	750	12000	0	0.01	
R0.75	750	12000	0	0.02	750	12000	0	0.02	
R1.0	900	10000	0	0.05	900	10000	0	0.03	
R1.5	900	10000	0	0.05	900	10000	0	0.03	
R2.0	1200	9000	0	0.08	1200	9000	0	0.05	
R3.0	1200	9000	0	0.08	1200	9000	0	0.05	
R4.0	1500	8000	0	0.1	1500	8000	0	0.08	
R5.0	1500	7000	0	0.12	1500	7000	0	0.1	
R6.0	1500	7000	0	0.12	1500	7000	0	0.1	

Закаленная сталь 45-58HRC				Закаленная сталь 58-70HRC				
Радиус при вершине	Начальные данные							
	Обработка торцов							
	f (мм/мин)	S (об/мин)	ae (мм)	ap (мм)	f (мм/мин)	S (об/мин)	ae (мм)	ap (мм)
D1R0.2	1000	10000	0.6	0.02	900	9500	0.6	0.01
D2R0.5	1000	10000	1.2	0.02	900	9500	1.2	0.02
D3R0.5	1200	9000	1.8	0.02	1000	8500	1.8	0.025
D4R0.5	1200	9000	2.4	0.03	1000	8500	2.4	0.03
D6R0.5	1200	8000	3.6	0.03	1000	8000	3.6	0.035
D8R0.5	1500	7000	4.8	0.04	1200	7500	4.8	0.04
D10R0.5	1500	7000	6.0	0.06	1500	7000	6.0	0.05
D12R0.5	1500	6500	7.2	0.08	1500	6500	7.2	0.06

Закаленная сталь 45-58HRC				Закаленная сталь 58-70HRC				
Радиус при вершине	Начальные данные							
	Обработка стенок							
	f (мм/мин)	S (об/мин)	ae (мм)	ap (мм)	f (мм/мин)	S (об/мин)	ae (мм)	ap (мм)
D1R0.2	900	12000	0.03	3	900	11000	0.02	2
D2R0.5	900	12000	0.04	5	900	11000	0.03	4
D3R0.5	1200	9500	0.04	6	1100	10000	0.04	5
D4R0.5	1200	9500	0.1	8	1100	10000	0.05	6
D6R0.5	1200	8500	0.12	12	1300	8500	0.06	10
D8R0.5	1500	8500	0.12	15	1300	8500	0.1	12
D10R0.5	1500	7500	0.15	20	1400	7500	0.12	15
D12R0.5	1500	7000	0.15	25	1400	7500	0.12	20

Закаленная сталь 45-58HRC				Закаленная сталь 58-70HRC				
Микрофрезы с плоским торцом	Начальные данные							
	Чистовая обработка торцов							
	f (мм/мин)	S (об/мин)	ap (мм)	f (мм/мин)	S (об/мин)	ap (мм)	ap (мм)	
0.1	60	28000	0.005	50	30000	0.005	0.005	
0.2	80	25000	0.006	70	30000	0.006	0.006	
0.3	100	25000	0.009	90	30000	0.008	0.008	
0.4	120	24000	0.01	100	30000	0.009	0.009	
0.5	180	22000	0.012	150	20000	0.01	0.01	
0.6	200	20000	0.012	180	18000	0.01	0.01	
0.7	250	18000	0.015	200	18000	0.012	0.012	
0.8	280	16000	0.018	250	15000	0.015	0.015	
0.9	300	15000	0.02	280	15000	0.018	0.018	

Закаленная сталь 45-58HRC				Закаленная сталь 58-70HRC				
Микрофрезы сферические	Начальные данные							
	Чистовая обработка торцов							
	f (мм/мин)	S (об/мин)	ap (мм)	f (мм/мин)	S (об/мин)	ap (мм)	ap (мм)	
R0.05	60	30000	0.004	50	30000	0.004	0.004	
R0.1	70	30000	0.005	70	30000	0.005	0.005	
R0.15	90	28000	0.008	90	30000	0.008	0.008	
R0.2	120	25000	0.01	100	30000	0.01	0.01	
R0.25	150	22000	0.012	120	25000	0.012	0.012	
R0.3	180	20000	0.012	150	22000	0.012	0.012	
R0.35	200	18000	0.015	180	20000	0.015	0.015	
R0.4	250	16000	0.018	200	18000	0.018	0.018	
R0.45	280	15000	0.02	250	15000	0.02	0.02	

Закаленная сталь 45-58HRC				Закаленная сталь 58-70HRC			
Микрофрезы с плоским торцом для глубоких пазов		Начальные данные					
		Чистовая обработка торцов					
		f (мм/мин)	S (об/мин)	ap (мм)	f (мм/мин)	S (об/мин)	ap (мм)
0.1	Короткая рабочая часть с обнижением	60	26000	0.003	50	30000	0.003
0.2		70	26000	0.005	70	30000	0.005
0.3		90	24000	0.006	90	30000	0.006
0.4		100	22000	0.009	100	30000	0.007
0.5		150	20000	0.01	150	20000	0.009
0.6		180	18000	0.01	180	18000	0.01
0.7		200	16000	0.012	200	18000	0.012
0.8		250	15000	0.015	250	15000	0.012
0.9		280	14000	0.018	280	15000	0.015

Закаленная сталь 45-58HRC				Закаленная сталь 58-70HRC			
Микрофрезы сферические для глубоких пазов		Начальные данные					
		Чистовая обработка торцов					
		f (мм/мин)	S (об/мин)	ap (мм)	f (мм/мин)	S (об/мин)	ap (мм)
R0.05	Короткая рабочая часть с обнижением	50	28000	0.003	50	30000	0.003
R0.1		60	25000	0.004	70	30000	0.004
R0.15		70	25000	0.006	90	30000	0.006
R0.2		100	20000	0.008	100	30000	0.008
R0.25		120	20000	0.01	120	20000	0.01
R0.3		150	18000	0.012	150	18000	0.012
R0.35		180	16000	0.012	180	18000	0.012
R0.4		200	15000	0.015	200	15000	0.015
R0.45		250	12000	0.018	250	15000	0.018

Закаленная сталь 45-58HRC				Закаленная сталь 58-70HRC			
Микрофрезы с радиусом при вершине		Начальные данные					
		Чистовая обработка торцов					
		f (мм/мин)	S (об/мин)	ap (мм)	f (мм/мин)	S (об/мин)	ap (мм)
0.2R0.02	Стандартная длина рабочей части	80	28000	0.006	70	30000	0.005
0.3R0.02		100	26000	0.009	90	30000	0.008
0.4R0.05		120	24000	0.01	100	30000	0.009
0.5R0.05		180	22000	0.012	150	20000	0.01
0.6R0.05		200	18000	0.012	180	18000	0.01
0.7R0.05		250	16000	0.015	200	18000	0.12
0.8R0.05		280	15000	0.018	250	15000	0.015
0.9R0.05		300	12000	0.02	280	15000	0.018

Закаленная сталь 45-58HRC				Закаленная сталь 58-70HRC			
Микрофрезы с радиусом при вершине для глубоких пазов		Начальные данные					
		Чистовая обработка торцов					
		f (мм/мин)	S (об/мин)	ap (мм)	f (мм/мин)	S (об/мин)	ap (мм)
0.2R0.02	Короткая рабочая часть с обнижением	60	25000	0.006	60	28000	0.005
0.3R0.02		80	25000	0.009	80	26000	0.008
0.4R0.05		90	24000	0.01	90	24000	0.009
0.5R0.05		120	22000	0.012	120	22000	0.01
0.6R0.05		150	20000	0.012	150	18000	0.01
0.7R0.05		180	18000	0.015	180	16000	0.12
0.8R0.05		230	16000	0.018	230	15000	0.015
0.9R0.05		250	15000	0.02	250	12000	0.018

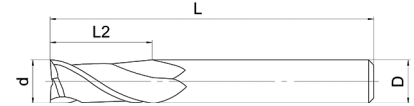
# TNU58

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Фрезы для стандартной обработки цветных материалов

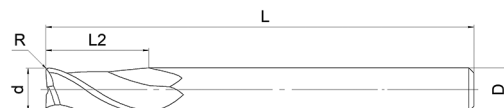


## Концевая фреза



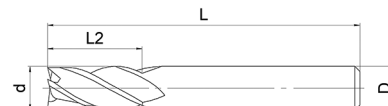
Артикул Tactic	d	L2	L	D
TNU58-ST2-1-3A	1	3	50	4
TNU58-ST2-1.5-4.5A	1.5	4.5	50	4
TNU58-ST2-2-6A	2	6	50	4
TNU58-ST2-2.5-7A	2.5	7	50	4
TNU58-ST2-3-8A	3	8	50	4
TNU58-ST2-4-11A	4	11	50	4
TNU58-ST2-5-13A	5	13	50	6
TNU58-ST2-6-15A	6	15	50	6
TNU58-ST2-7-17B	7	17	60	8
TNU58-ST2-8-20B	8	20	60	8
TNU58-ST2-9-23C	9	23	75	10
TNU58-ST2-10-25C	10	25	75	10
TNU58-ST2-11-28C	11	28	75	12
TNU58-ST2-12-30C	12	30	75	12
TNU58-ST2-16-40D	16	40	100	16
TNU58-ST2-20-40D	20	40	100	20

Концевая фреза  
с удлиненным хвостовиком



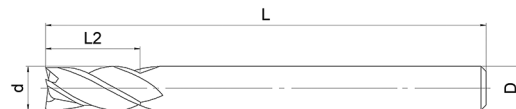
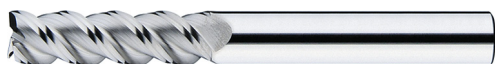
Артикул Tactic	d	L2	L	D
TNU58-SH2-1-3C	1	3	75	4
TNU58-SH2-1.5-4.5C	1.5	4.5	75	4
TNU58-SH2-2-6C	2	6	75	4
TNU58-SH2-2.5-7C	2.5	7	75	4
TNU58-SH2-3-8C	3	8	75	4
TNU58-SH2-3.5-10C	3.5	10	75	4
TNU58-SH2-4-11C	4	11	75	4
TNU58-SH2-4.5-13C	4.5	13	75	6
TNU58-SH2-5-13C	5	13	75	6
TNU58-SH2-5.5-13C	5.5	13	75	6
TNU58-SH2-6-15C	6	15	75	6
TNU58-SH2-6.5-17C	6.5	17	75	8
TNU58-SH2-7-17C	7	17	75	8
TNU58-SH2-7.5-17C	7.5	17	75	8
TNU58-SH2-8-20C	8	20	75	8
TNU58-SH2-3-8D	3	8	100	4
TNU58-SH2-4-11D	4	11	100	4
TNU58-SH2-5-13D	5	13	100	6
TNU58-SH2-6-15D	6	15	100	6
TNU58-SH2-7-17D	7	17	100	8
TNU58-SH2-8-20D	8	20	100	8
TNU58-SH2-9-23D	9	23	100	10
TNU58-SH2-10-30D	10	30	100	10
TNU58-SH2-11-28D	11	28	100	12
TNU58-SH2-12-30D	12	30	100	12
TNU58-SH2-8-40F	8	40	150	8
TNU58-SH2-10-50F	10	50	150	10
TNU58-SH2-12-50F	12	50	150	12
TNU58-SH2-16-65F	16	65	150	16
TNU58-SH2-18-65F	18	65	150	18
TNU58-SH2-20-75F	20	75	150	20
TNU58-SH2-8-50G	8	50	200	8
TNU58-SH2-10-60G	10	60	200	10
TNU58-SH2-12-80G	12	80	200	12
TNU58-SH2-16-80G	16	80	200	16
TNU58-SH2-18-80G	18	80	200	18
TNU58-SH2-20-100G	20	100	200	20

## Концевая фреза



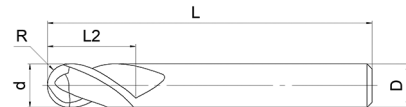
Артикул Tactic	d	L2	L	D
TNU58-ST3-1-3A	1	3	50	4
TNU58-ST3-1.5-4.5A	1.5	4.5	50	4
TNU58-ST3-2-6A	2	6	50	4
TNU58-ST3-2.5-7A	2.5	7	50	4
TNU58-ST3-3-8A	3	8	50	4
TNU58-ST3-4-11A	4	11	50	4
TNU58-ST3-5-13A	5	13	50	6
TNU58-ST3-6-15A	6	15	50	6
TNU58-ST3-7-17B	7	17	60	8
TNU58-ST3-8-20B	8	20	60	8
TNU58-ST3-9-23C	9	23	75	10
TNU58-ST3-10-25C	10	25	75	10
TNU58-ST3-11-28C	11	28	75	12
TNU58-ST3-12-30C	12	30	75	12
TNU58-ST3-16-40D	16	40	100	16
TNU58-ST3-20-40D	20	40	100	20

Концевая фреза  
с удлиненным хвостовиком



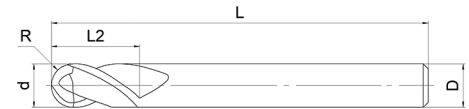
Артикул Tactic	d	L2	L	D
TNU58-SH3-1-3C	1	3	75	4
TNU58-SH3-1.5-4.5C	1.5	4.5	75	4
TNU58-SH3-2-6C	2	6	75	4
TNU58-SH3-2.5-7C	2.5	7	75	4
TNU58-SH3-3-8C	3	8	75	4
TNU58-SH3-3.5-10C	3.5	10	75	4
TNU58-SH3-4-11C	4	11	75	4
TNU58-SH3-4.5-13C	4.5	13	75	6
TNU58-SH3-5-13C	5	13	75	6
TNU58-SH3-5.5-13C	5.5	13	75	6
TNU58-SH3-6-15C	6	15	75	6
TNU58-SH3-6.5-17C	6.5	17	75	8
TNU58-SH3-7-17C	7	17	75	8
TNU58-SH3-7.5-17C	7.5	17	75	8
TNU58-SH3-8-20C	8	20	75	8
TNU58-SH3-3-8D	3	8	100	4
TNU58-SH3-4-11D	4	11	100	4
TNU58-SH3-5-13D	5	13	100	6
TNU58-SH3-6-15D	6	15	100	6
TNU58-SH3-7-17D	7	17	100	8
TNU58-SH3-8-20D	8	20	100	8
TNU58-SH3-9-23D	9	23	100	10
TNU58-SH3-10-30D	10	30	100	10
TNU58-SH3-11-28D	11	28	100	12
TNU58-SH3-12-30D	12	30	100	12
TNU58-SH3-8-40F	8	40	150	8
TNU58-SH3-10-50F	10	50	150	10
TNU58-SH3-12-50F	12	50	150	12
TNU58-SH3-16-65F	16	65	150	16
TNU58-SH3-18-65F	18	65	150	18
TNU58-SH3-20-75F	20	75	150	20
TNU58-SH3-8-50G	8	50	200	8
TNU58-SH3-10-60G	10	60	200	10
TNU58-SH3-12-80G	12	80	200	12
TNU58-SH3-16-80G	16	80	200	16
TNU58-SH3-18-80G	18	80	200	18
TNU58-SH3-20-100G	20	100	200	20

Концевая фреза  
сферическая



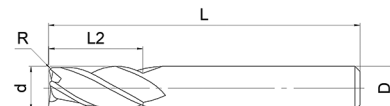
Артикул Tactic	R	L2	L	D
TNU58-BT2-1-2A	R0.5	2	50	4
TNU58-BT2-1.5-3A	R0.75	3	50	4
TNU58-BT2-2-4A	R1	4	50	4
TNU58-BT2-2.5-5A	R1.25	5	50	4
TNU58-BT2-3-6A	R1.5	6	50	4
TNU58-BT2-3.5-7A	R1.75	7	50	4
TNU58-BT2-4-8A	R2	8	50	4
TNU58-BT2-4.5-9A	R2.25	9	50	6
TNU58-BT2-5-10A	R2.5	10	50	6
TNU58-BT2-5.5-11A	R2.75	11	50	6
TNU58-BT2-6-12A	R3	12	50	6
TNU58-BT2-6.5-13B	R3.25	13	60	8
TNU58-BT2-7-14B	R3.5	14	60	8
TNU58-BT2-7.5-15B	R3.75	15	60	8
TNU58-BT2-8-16B	R4	16	60	8
TNU58-BT2-9-18C	R4.5	18	75	10
TNU58-BT2-10-20C	R5	20	75	10
TNU58-BT2-12-24C	R6	24	75	12
TNU58-BT2-16-32D	R8	32	100	16
TNU58-BT2-20-40D	R10	40	100	20
TNU58-BT2-25-50D	R12.5	50	100	25

Концевая фреза сферическая  
с удлиненным хвостовиком



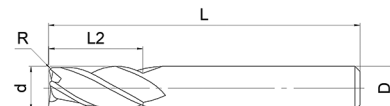
Артикул Tactic	d	L2	L	D
TNU58-BH2-1-2C	R0.5	2	75	4
TNU58-BH2-1.5-3C	R0.75	3	75	4
TNU58-BH2-2-4C	R1	4	75	4
TNU58-BH2-2.5-5C	R1.25	5	75	4
TNU58-BH2-3-6C	R1.5	6	75	4
TNU58-BH2-3.5-7C	R1.75	7	75	4
TNU58-BH2-4-8C	R2	8	75	4
TNU58-BH2-4.5-9C	R2.25	9	75	6
TNU58-BH2-5-10C	R2.5	10	75	6
TNU58-BH2-5.5-11C	R2.75	11	75	6
TNU58-BH2-6-12C	R3	12	75	6
TNU58-BH2-8-16C	R4	16	75	8
TNU58-BH2-1-2D	R0.5	2	100	4
TNU58-BH2-1.5-3D	R0.75	3	100	4
TNU58-BH2-2-4D	R1	4	100	4
TNU58-BH2-2.5-5D	R1.25	5	100	4
TNU58-BH2-3-6D	R1.5	6	100	4
TNU58-BH2-3.5-7D	R1.75	7	100	4
TNU58-BH2-4-8D	R2	8	100	4
TNU58-BH2-4.5-9D	R2.25	9	100	6
TNU58-BH2-5-10D	R2.5	10	100	6
TNU58-BH2-5.5-11D	R2.75	11	100	6
TNU58-BH2-6-12D	R3	12	100	6
TNU58-BH2-8-16D	R4	16	100	8
TNU58-BH2-10-20D	R5	20	100	10
TNU58-BH2-12-24D	R6	24	100	12
TNU58-BH2-10-20E	R5	20	120	10
TNU58-BH2-12-24E	R6	24	120	12
TNU58-BH2-6-12F	R3	12	150	6
TNU58-BH2-8-16F	R4	16	150	8
TNU58-BH2-10-20F	R5	20	150	10
TNU58-BH2-12-24F	R6	24	150	12
TNU58-BH2-16-32F	R8	32	150	16
TNU58-BH2-20-40F	R10	40	150	20
TNU58-BH2-8-16G	R4	16	200	8
TNU58-BH2-10-20G	R5	20	200	10
TNU58-BH2-12-24G	R6	24	200	12
TNU58-BH2-D16-32G	R8	32	200	16
TNU58-BH2-20-40G	R10	40	200	20

## Концевая фреза



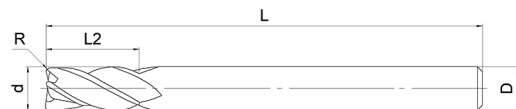
Артикул Tactic	d	R	L2	L	D
TNU58-RT3-1R0.1-3A	1	0.1	3	50	4
TNU58-RT3-1R0.2-3A	1	0.2	3	50	4
TNU58-RT3-1R0.3-3A	1	0.3	3	50	4
TNU58-RT3-1.5R0.1-4.5A	1.5	0.1	4.5	50	4
TNU58-RT3-1.5R0.2-4.5A	1.5	0.2	4.5	50	4
TNU58-RT3-1.5R0.3-4.5A	1.5	0.3	4.5	50	4
TNU58-RT3-1.5R0.5-4.5A	1.5	0.5	4.5	50	4
TNU58-RT3-2R0.1-6A	2	0.1	6	50	4
TNU58-RT3-2R0.2-6A	2	0.2	6	50	4
TNU58-RT3-2R0.3-6A	2	0.3	6	50	4
TNU58-RT3-2R0.5-6A	2	0.5	6	50	4
TNU58-RT3-2.5R0.1-7.5A	2.5	0.1	7.5	50	4
TNU58-RT3-2.5R0.2-7.5A	2.5	0.2	7.5	50	4
TNU58-RT3-2.5R0.3-7.5A	2.5	0.3	7.5	50	4
TNU58-RT3-2.5R0.5-7.5A	2.5	0.5	7.5	50	4
TNU58-RT3-3R0.1-8A	3	0.1	8	50	4
TNU58-RT3-3R0.2-8A	3	0.2	8	50	4
TNU58-RT3-3R0.3-8A	3	0.3	8	50	4
TNU58-RT3-3R0.5-8A	3	0.5	8	50	4
TNU58-RT3-3R1-8A	3	1	8	50	4
TNU58-RT3-4R0.1-11A	4	0.1	11	50	4
TNU58-RT3-4R0.2-11A	4	0.2	11	50	4
TNU58-RT3-4R0.3-11A	4	0.3	11	50	4
TNU58-RT3-4R0.5-11A	4	0.5	11	50	4
TNU58-RT3-4R1-11A	4	1	11	50	4
TNU58-RT3-5R0.2-13A	5	0.2	13	50	5
TNU58-RT3-5R0.5-13A	5	0.5	13	50	5
TNU58-RT3-5R1-13A	5	1	13	50	5
TNU58-RT3-6R0.1-15A	6	0.1	15	50	6
TNU58-RT3-6R0.2-15A	6	0.2	15	50	6
TNU58-RT3-6R0.3-15A	6	0.3	15	50	6
TNU58-RT3-6R0.5-15A	6	0.5	15	50	6
TNU58-RT3-6R1-15A	6	1	15	50	6
TNU58-RT3-6R1.5-15A	6	1.5	15	50	6
TNU58-RT3-6R2-15A	6	2	15	50	6
TNU58-RT3-8R0.2-20B	8	0.2	20	60	8
TNU58-RT3-8R0.3-20B	8	0.3	20	60	8
TNU58-RT3-8R0.5-20B	8	0.5	20	60	8
TNU58-RT3-8R1-20B	8	1	20	60	8
TNU58-RT3-8R1.5-20B	8	1.5	20	60	8
TNU58-RT3-8R2-20B	8	2	20	60	8
TNU58-RT3-8R2.5-20B	8	2.5	20	60	8
TNU58-RT3-8R3-20B	8	3	20	60	8
TNU58-RT3-10R0.2-25C	10	0.2	25	75	10
TNU58-RT3-10R0.3-25C	10	0.3	25	75	10
TNU58-RT3-10R0.5-25C	10	0.5	25	75	10
TNU58-RT3-10R1-25C	10	1	25	75	10
TNU58-RT3-10R1.5-25C	10	1.5	25	75	10
TNU58-RT3-10R2-25C	10	2	25	75	10
TNU58-RT3-10R2.5-25C	10	2.5	25	75	10
TNU58-RT3-10R3-25C	10	3	25	75	10
TNU58-RT3-10R4-25C	10	4	25	75	10
TNU58-RT3-12R0.2-30C	12	0.2	30	75	12
TNU58-RT3-12R0.3-30C	12	0.3	30	75	12

## Концевая фреза



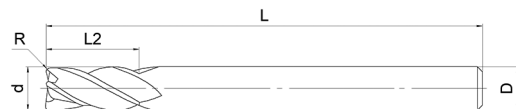
Артикул Tactic	d	R	L2	L	D
TNU58-RT3-12R0.5-30C	12	0.5	30	75	12
TNU58-RT3-12R1-30C	12	1	30	75	12
TNU58-RT3-12R1.5-30C	12	1.5	30	75	12
TNU58-RT3-12R2-30C	12	2	30	75	12
TNU58-RT3-12R2.5-30C	12	2.5	30	75	12
TNU58-RT3-12R3-30C	12	3	30	75	12
TNU58-RT3-12R4-30C	12	4	30	75	12
TNU58-RT3-12R5-30C	12	5	30	75	12
TNU58-RT3-14R0.5-35D	14	0.5	35	100	14
TNU58-RT3-14R1-35D	14	1	35	100	14
TNU58-RT3-14R1.5-35D	14	1.5	35	100	14
TNU58-RT3-14R2-35D	14	2	35	100	14
TNU58-RT3-14R2.5-35D	14	2.5	35	100	14
TNU58-RT3-14R3-35D	14	3	35	100	14
TNU58-RT3-14R4-35D	14	4	35	100	14
TNU58-RT3-14R5-35D	14	5	35	100	14
TNU58-RT3-16R0.5-40D	16	0.5	40	100	16
TNU58-RT3-16R1-40D	16	1	40	100	16
TNU58-RT3-16R1.5-40D	16	1.5	40	100	16
TNU58-RT3-16R2-40D	16	2	40	100	16
TNU58-RT3-16R2.5-40D	16	2.5	40	100	16
TNU58-RT3-16R3-40D	16	3	40	100	16
TNU58-RT3-16R4-40D	16	4	40	100	16
TNU58-RT3-16R5-40D	16	5	40	100	16
TNU58-RT3-20R0.5-45D	20	0.5	45	100	20
TNU58-RT3-20R1-45D	20	1	45	100	20
TNU58-RT3-20R1.5-45D	20	1.5	45	100	20
TNU58-RT3-20R2-45D	20	2	45	100	20
TNU58-RT3-20R2.5-45D	20	2.5	45	100	20
TNU58-RT3-20R3-45D	20	3	45	100	20
TNU58-RT3-20R4-45D	20	4	45	100	20
TNU58-RT3-20R5-45D	20	5	45	100	20

Концевая фреза  
с удлиненным хвостовиком



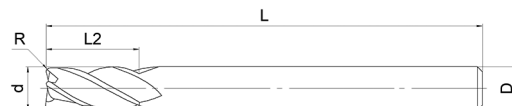
Артикул Tactic	d	R	L2	L	D
TNU58-RH3-1R0.1-3C	1	0.1	3	75	4
TNU58-RH3-1R0.2-3C	1	0.2	3	75	4
TNU58-RH3-1R0.3-3C	1	0.3	3	75	4
TNU58-RH3-1.5R0.1-4.5C	1.5	0.1	4.5	75	4
TNU58-RH3-1.5R0.2-4.5C	1.5	0.2	4.5	75	4
TNU58-RH3-1.5R0.3-4.5C	1.5	0.3	4.5	75	4
TNU58-RH3-1.5R0.5-4.5C	1.5	0.5	4.5	75	4
TNU58-RH3-2R0.1-6C	2	0.1	6	75	4
TNU58-RH3-2R0.2-6C	2	0.2	6	75	4
TNU58-RH3-2R0.3-6C	2	0.3	6	75	4
TNU58-RH3-2R0.5-6C	2	0.5	6	75	4
TNU58-RH3-2.5R0.1-7.5C	2.5	0.1	7.5	75	4
TNU58-RH3-2.5R0.2-7.5C	2.5	0.2	7.5	75	4
TNU58-RH3-2.5R0.3-7.5C	2.5	0.3	7.5	75	4
TNU58-RH3-2.5R0.5-7.5C	2.5	0.5	7.5	75	4
TNU58-RH3-3R0.1-8C	3	0.1	8	75	4
TNU58-RH3-3R0.2-8C	3	0.2	8	75	4
TNU58-RH3-3R0.3-8C	3	0.3	8	75	4
TNU58-RH3-3R0.5-8C	3	0.5	8	75	4
TNU58-RH3-3R1-8C	3	1	8	75	4
TNU58-RH3-4R0.1-11C	4	0.1	11	75	4
TNU58-RH3-4R0.2-11C	4	0.2	11	75	4
TNU58-RH3-4R0.3-11C	4	0.3	11	75	4
TNU58-RH3-4R0.5-11C	4	0.5	11	75	4
TNU58-RH3-4R1-11C	4	1	11	75	4
TNU58-RH3-5R0.2-15C	5	0.2	15	75	5
TNU58-RH3-5R0.5-15C	5	0.5	15	75	5
TNU58-RH3-5R1-15C	5	1	15	75	5
TNU58-RH3-6R0.1-15C	6	0.1	15	75	6
TNU58-RH3-6R0.2-15C	6	0.2	15	75	6
TNU58-RH3-6R0.3-15C	6	0.3	15	75	6
TNU58-RH3-6R0.5-15C	6	0.5	15	75	6
TNU58-RH3-6R1-15C	6	1	15	75	6
TNU58-RH3-6R1.5-15C	6	1.5	15	75	6
TNU58-RH3-6R2-15C	6	2	15	75	6
TNU58-RH3-8R0.2-20C	8	0.2	20	75	8
TNU58-RH3-8R0.3-20C	8	0.3	20	75	8
TNU58-RH3-8R0.5-20C	8	0.5	20	75	8
TNU58-RH3-8R1-20C	8	1	20	75	8
TNU58-RH3-8R1.5-20C	8	1.5	20	75	8
TNU58-RH3-8R2-20C	8	2	20	75	8
TNU58-RH3-8R2.5-20C	8	2.5	20	75	8
TNU58-RH3-8R3-20C	8	3	20	75	8
TNU58-RH3-1R0.1-3D	1	0.1	3	100	4
TNU58-RH3-1R0.2-3D	1	0.2	3	100	4
TNU58-RH3-1R0.3-3D	1	0.3	3	100	4
TNU58-RH3-1.5R0.1-4.5D	1.5	0.1	4.5	100	4
TNU58-RH3-1.5R0.2-4.5D	1.5	0.2	4.5	100	4
TNU58-RH3-1.5R0.3-4.5D	1.5	0.3	4.5	100	4
TNU58-RH3-1.5R0.5-4.5D	1.5	0.5	4.5	100	4
TNU58-RH3-2R0.1-6D	2	0.1	6	100	4
TNU58-RH3-2R0.2-6D	2	0.2	6	100	4
TNU58-RH3-2R0.3-6D	2	0.3	6	100	4
TNU58-RH3-2R0.5-6D	2	0.5	6	100	4

Концевая фреза  
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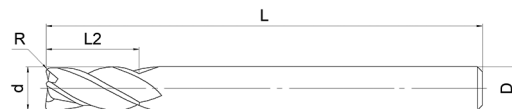
Артикул Tactic	d	R	L2	L	D
TNU58-RH3-2.5R0.1-7.5D	2.5	0.1	7.5	100	4
TNU58-RH3-2.5R0.2-7.5D	2.5	0.2	7.5	100	4
TNU58-RH3-2.5R0.3-7.5D	2.5	0.3	7.5	100	4
TNU58-RH3-2.5R0.5-7.5D	2.5	0.5	7.5	100	4
TNU58-RH3-3R0.1-8D	3	0.1	8	100	4
TNU58-RH3-3R0.2-8D	3	0.2	8	100	4
TNU58-RH3-3R0.3-8D	3	0.3	8	100	4
TNU58-RH3-3R0.5-8D	3	0.5	8	100	4
TNU58-RH3-3R1-8D	3	1	8	100	4
TNU58-RH3-4R0.1-11D	4	0.1	11	100	4
TNU58-RH3-4R0.2-11D	4	0.2	11	100	4
TNU58-RH3-4R0.3-11D	4	0.3	11	100	4
TNU58-RH3-4R0.5-11D	4	0.5	11	100	4
TNU58-RH3-4R1-11D	4	1	11	100	4
TNU58-RH3-5R0.2-15D	5	0.2	15	100	5
TNU58-RH3-5R0.5-15D	5	0.5	15	100	5
TNU58-RH3-5R1-15D	5	1	15	100	5
TNU58-RH3-6R0.1-15D	6	0.1	15	100	6
TNU58-RH3-6R0.2-15D	6	0.2	15	100	6
TNU58-RH3-6R0.3-15D	6	0.3	15	100	6
TNU58-RH3-6R0.5-15D	6	0.5	15	100	6
TNU58-RH3-6R1-15D	6	1	15	100	6
TNU58-RH3-6R1.5-15D	6	1.5	15	100	6
TNU58-RH3-6R2-15D	6	2	15	100	6
TNU58-RH3-8R0.2-20D	8	0.2	20	100	8
TNU58-RH3-8R0.3-20D	8	0.3	20	100	8
TNU58-RH3-8R0.5-20D	8	0.5	20	100	8
TNU58-RH3-8R1-20D	8	1	20	100	8
TNU58-RH3-8R1.5-20D	8	1.5	20	100	8
TNU58-RH3-8R2-20D	8	2	20	100	8
TNU58-RH3-8R2.5-20D	8	2.5	20	100	8
TNU58-RH3-8R3-20D	8	3	20	100	8
TNU58-RH3-10R0.2-30D	10	0.2	30	100	10
TNU58-RH3-10R0.3-30D	10	0.3	30	100	10
TNU58-RH3-10R0.5-30D	10	0.5	30	100	10
TNU58-RH3-10R1-30D	10	1	30	100	10
TNU58-RH3-10R1.5-30D	10	1.5	30	100	10
TNU58-RH3-10R2-30D	10	2	30	100	10
TNU58-RH3-10R2.5-30D	10	2.5	30	100	10
TNU58-RH3-10R3-30D	10	3	30	100	10
TNU58-RH3-10R4-30D	10	4	30	100	10
TNU58-RH3-12R0.2-30D	12	0.2	30	100	12
TNU58-RH3-12R0.3-30D	12	0.3	30	100	12
TNU58-RH3-12R0.5-30D	12	0.5	30	100	12
TNU58-RH3-12R1-30D	12	1	30	100	12
TNU58-RH3-12R1.5-30D	12	1.5	30	100	12
TNU58-RH3-12R2-30D	12	2	30	100	12
TNU58-RH3-12R2.5-30D	12	2.5	30	100	12
TNU58-RH3-12R3-30D	12	3	30	100	12
TNU58-RH3-12R4-30D	12	4	30	100	12
TNU58-RH3-12R5-30D	12	5	30	100	12
TNU58-RH3-8R0.2-30E	8	0.2	30	120	8
TNU58-RH3-8R0.3-30E	8	0.3	30	120	8
TNU58-RH3-8R0.5-30E	8	0.5	30	120	8

## Концевая фреза с удлиненным хвостовиком



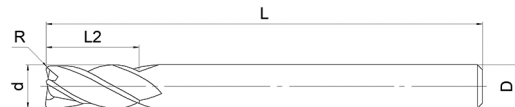
Артикул Tactic	d	R	L2	L	D
TNU58-RH3-8R1-30E	8	1	30	120	8
TNU58-RH3-8R1.5-30E	8	1.5	30	120	8
TNU58-RH3-8R2-30E	8	2	30	120	8
TNU58-RH3-8R2.5-30E	8	2.5	30	120	8
TNU58-RH3-8R3-30E	8	3	30	120	8
TNU58-RH3-10R0.2-30E	10	0.2	30	120	10
TNU58-RH3-10R0.3-30E	10	0.3	30	120	10
TNU58-RH3-10R0.5-30E	10	0.5	30	120	10
TNU58-RH3-10R1-30E	10	1	30	120	10
TNU58-RH3-10R1.5-30E	10	1.5	30	120	10
TNU58-RH3-10R2-30E	10	2	30	120	10
TNU58-RH3-10R2.5-30E	10	2.5	30	120	10
TNU58-RH3-10R3-30E	10	3	30	120	10
TNU58-RH3-10R4-30E	10	4	30	120	10
TNU58-RH3-12R0.2-30E	12	0.2	30	120	12
TNU58-RH3-12R0.3-30E	12	0.3	30	120	12
TNU58-RH3-12R0.5-30E	12	0.5	30	120	12
TNU58-RH3-12R1-30E	12	1	30	120	12
TNU58-RH3-12R1.5-30E	12	1.5	30	120	12
TNU58-RH3-12R2-30E	12	2	30	120	12
TNU58-RH3-12R2.5-30E	12	2.5	30	120	12
TNU58-RH3-12R3-30E	12	3	30	120	12
TNU58-RH3-12R4-30E	12	4	30	120	12
TNU58-RH3-12R5-30E	12	5	30	120	12
TNU58-RH3-6R0.1-30F	6	0.1	30	150	6
TNU58-RH3-6R0.2-30F	6	0.2	30	150	6
TNU58-RH3-6R0.3-30F	6	0.3	30	150	6
TNU58-RH3-6R0.5-30F	6	0.5	30	150	6
TNU58-RH3-6R1-30F	6	1	30	150	6
TNU58-RH3-6R1.5-30F	6	1.5	30	150	6
TNU58-RH3-6R2-30F	6	2	30	150	6
TNU58-RH3-8R0.2-30F	8	0.2	30	150	8
TNU58-RH3-8R0.3-30F	8	0.3	30	150	8
TNU58-RH3-8R0.5-30F	8	0.5	30	150	8
TNU58-RH3-8R1-30F	8	1	30	150	8
TNU58-RH3-8R1.5-30F	8	1.5	30	150	8
TNU58-RH3-8R2-30F	8	2	30	150	8
TNU58-RH3-8R2.5-30F	8	2.5	30	150	8
TNU58-RH3-8R3-30F	8	3	30	150	8
TNU58-RH3-10R0.2-35F	10	0.2	35	150	10
TNU58-RH3-10R0.3-35F	10	0.3	35	150	10
TNU58-RH3-10R0.5-35F	10	0.5	35	150	10
TNU58-RH3-10R1-35F	10	1	35	150	10
TNU58-RH3-10R1.5-35F	10	1.5	35	150	10
TNU58-RH3-10R2-35F	10	2	35	150	10
TNU58-RH3-10R3-35F	10	3	35	150	10
TNU58-RH3-10R4-35F	10	4	35	150	10
TNU58-RH3-12R0.2-40F	12	0.2	40	150	12
TNU58-RH3-12R0.3-40F	12	0.3	40	150	12
TNU58-RH3-12R0.5-40F	12	0.5	40	150	12
TNU58-RH3-12R1-40F	12	1	40	150	12
TNU58-RH3-12R1.5-40F	12	1.5	40	150	12
TNU58-RH3-12R2-40F	12	2	40	150	12
TNU58-RH3-12R2.5-40F	12	2.5	40	150	12

## Концевая фреза с удлиненным хвостовиком



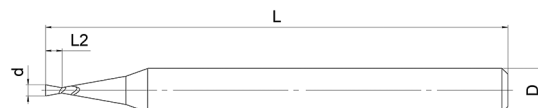
Артикул Tactic	d	R	L2	L	D
TNU58-RH3-12R3-40F	12	3	40	150	12
TNU58-RH3-12R4-40F	12	4	40	150	12
TNU58-RH3-12R5-40F	12	5	40	150	12
TNU58-RH3-14R0.5-40F	14	0.5	40	150	14
TNU58-RH3-14R1-40F	14	1	40	150	14
TNU58-RH3-14R1.5-40F	14	1.5	40	150	14
TNU58-RH3-14R2-40F	14	2	40	150	14
TNU58-RH3-14R2.5-40F	14	2.5	40	150	14
TNU58-RH3-14R3-40F	14	3	40	150	14
TNU58-RH3-14R4-40F	14	4	40	150	14
TNU58-RH3-14R5-40F	14	5	40	150	14
TNU58-RH3-16R0.5-40F	16	0.5	40	150	16
TNU58-RH3-16R1-40F	16	1	40	150	16
TNU58-RH3-16R1.5-40F	16	1.5	40	150	16
TNU58-RH3-16R2-40F	16	2	40	150	16
TNU58-RH3-16R2.5-40F	16	2.5	40	150	16
TNU58-RH3-16R3-40F	16	3	40	150	16
TNU58-RH3-16R4-40F	16	4	40	150	16
TNU58-RH3-16R5-40F	16	5	40	150	16
TNU58-RH3-20R0.5-50F	20	0.5	50	150	20
TNU58-RH3-20R1-50F	20	1	50	150	20
TNU58-RH3-20R1.5-50F	20	1.5	50	150	20
TNU58-RH3-20R2-50F	20	2	50	150	20
TNU58-RH3-20R2.5-50F	20	2.5	50	150	20
TNU58-RH3-20R3-50F	20	3	50	150	20
TNU58-RH3-20R4-50F	20	4	50	150	20
TNU58-RH3-20R5-50F	20	5	50	150	20
TNU58-RH3-6R0.1-30G	6	0.1	30	200	6
TNU58-RH3-6R0.2-30G	6	0.2	30	200	6
TNU58-RH3-6R0.3-30G	6	0.3	30	200	6
TNU58-RH3-6R0.5-30G	6	0.5	30	200	6
TNU58-RH3-6R1-30G	6	1	30	200	6
TNU58-RH3-6R1.5-30G	6	1.5	30	200	6
TNU58-RH3-6R2-30G	6	2	30	200	6
TNU58-RH3-8R0.2-40G	8	0.2	40	200	8
TNU58-RH3-8R0.3-40G	8	0.3	40	200	8
TNU58-RH3-8R0.5-40G	8	0.5	40	200	8
TNU58-RH3-8R1-40G	8	1	40	200	8
TNU58-RH3-8R1.5-40G	8	1.5	40	200	8
TNU58-RH3-8R2-40G	8	2	40	200	8
TNU58-RH3-8R2.5-40G	8	2.5	40	200	8
TNU58-RH3-8R3-40G	8	3	40	200	8
TNU58-RH3-10R0.2-40G	10	0.2	40	200	10
TNU58-RH3-10R0.3-40G	10	0.3	40	200	10
TNU58-RH3-10R0.5-40G	10	0.5	40	200	10
TNU58-RH3-10R1-40G	10	1	40	200	10
TNU58-RH3-10R1.5-40G	10	1.5	40	200	10
TNU58-RH3-10R2-40G	10	2	40	200	10
TNU58-RH3-10R2.5-40G	10	2.5	40	200	10
TNU58-RH3-10R3-40G	10	3	40	200	10
TNU58-RH3-10R4-40G	10	4	40	200	10
TNU58-RH3-12R0.2-40G	12	0.2	40	200	12
TNU58-RH3-12R0.3-40G	12	0.3	40	200	12
TNU58-RH3-12R0.5-40G	12	0.5	40	200	12

Концевая фреза  
с удлиненным хвостовиком



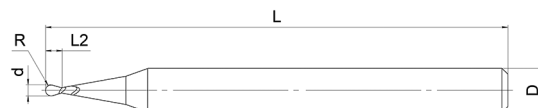
Артикул Tactic	d	R	L2	L	D
TNU58-RH3-12R1-40G	12	1	40	200	12
TNU58-RH3-12R1.5-40G	12	1.5	40	200	12
TNU58-RH3-12R2-40G	12	2	40	200	12
TNU58-RH3-12R2.5-40G	12	2.5	40	200	12
TNU58-RH3-12R3-40G	12	3	40	200	12
TNU58-RH3-12R4-40G	12	4	40	200	12
TNU58-RH3-12R5-40G	12	5	40	200	12
TNU58-RH3-14R0.5-50G	14	0.5	50	200	14
TNU58-RH3-14R1-50G	14	1	50	200	14
TNU58-RH3-14R1.5-50G	14	1.5	50	200	14
TNU58-RH3-14R2-50G	14	2	50	200	14
TNU58-RH3-14R2.5-50G	14	2.5	50	200	14
TNU58-RH3-14R3-50G	14	3	50	200	14
TNU58-RH3-14R4-50G	14	4	50	200	14
TNU58-RH3-14R5-50G	14	5	50	200	14
TNU58-RH3-16R0.5-50G	16	0.5	50	200	16
TNU58-RH3-16R1-50G	16	1	50	200	16
TNU58-RH3-16R1.5-50G	16	1.5	50	200	16
TNU58-RH3-16R2-50G	16	2	50	200	16
TNU58-RH3-16R2.5-50G	16	2.5	50	200	16
TNU58-RH3-16R3-50G	16	3	50	200	16
TNU58-RH3-16R4-50G	16	4	50	200	16
TNU58-RH3-16R5-50G	16	5	50	200	16
TNU58-RH3-20R0.5-50G	20	0.5	50	200	20
TNU58-RH3-20R1-50G	20	1	50	200	20
TNU58-RH3-20R1.5-50G	20	1.5	50	200	20
TNU58-RH3-20R2-50G	20	2	50	200	20
TNU58-RH3-20R2.5-50G	20	2.5	50	200	20
TNU58-RH3-20R3-50G	20	3	50	200	20
TNU58-RH3-20R4-50G	20	4	50	200	20
TNU58-RH3-20R5-50G	20	5	50	200	20

## Концевая микрофреза



Артикул Tactic	d	L2	L	D
TNU58-ST2-0.1-0.2A	0.1	0.2	50	4
TNU58-ST2-0.15-0.3A	0.15	0.3	50	4
TNU58-ST2-0.2-0.4A	0.2	0.4	50	4
TNU58-ST2-0.25-0.5A	0.25	0.5	50	4
TNU58-ST2-0.3-0.6A	0.3	0.6	50	4
TNU58-ST2-0.4-0.8A	0.4	0.8	50	4
TNU58-ST2-0.5-1.0A	0.5	1.0	50	4
TNU58-ST2-0.6-1.2A	0.6	1.2	50	4
TNU58-ST2-0.7-1.4A	0.7	1.4	50	4
TNU58-ST2-0.8-1.6A	0.8	1.6	50	4
TNU58-ST2-0.9-1.8A	0.9	1.8	50	4

Концевая микрофреза  
сферическая



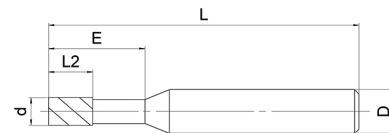
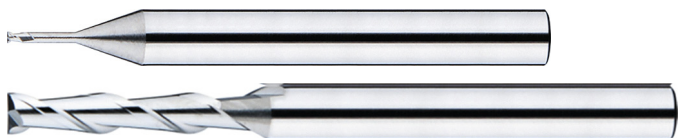
Артикул Tactic	R	L2	L	D
TNU58-BT2-0.1-0.2A	R0.05	0.2	50	4
TNU58-BT2-0.2-0.3A	R0.1	0.3	50	4
TNU58-BT2-0.3-0.4A	R0.15	0.4	50	4
TNU58-BT2-0.4-0.6A	R0.2	0.6	50	4
TNU58-BT2-0.5-0.75A	R0.25	0.75	50	4
TNU58-BT2-0.6-0.9A	R0.3	0.9	50	4
TNU58-BT2-0.7-1A	R0.35	1	50	4
TNU58-BT2-0.8-1.2A	R0.4	1.2	50	4
TNU58-BT2-0.9-1.3A	R0.45	1.3	50	4

## Концевая микрофреза с обнижением



35°

45°



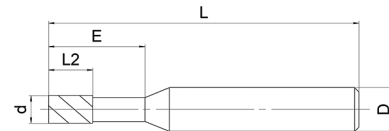
Артикул Tactic	d	L2	E	L	D
TNU58-SN2-0.2-0.2N1A	0.2	0.2	1	50	4
TNU58-SN2-0.2-0.2N2A	0.2	0.2	2	50	4
TNU58-SN2-0.2-0.2N3A	0.2	0.2	3	50	4
TNU58-SN2-0.3-0.3N1A	0.3	0.3	1	50	4
TNU58-SN2-0.3-0.3N2A	0.3	0.3	2	50	4
TNU58-SN2-0.3-0.3N3A	0.3	0.3	3	50	4
TNU58-SN2-0.3-0.3N4A	0.3	0.3	4	50	4
TNU58-SN2-0.4-0.4N1A	0.4	0.4	1	50	4
TNU58-SN2-0.4-0.4N2A	0.4	0.4	2	50	4
TNU58-SN2-0.4-0.4N3A	0.4	0.4	3	50	4
TNU58-SN2-0.4-0.4N4A	0.4	0.4	4	50	4
TNU58-SN2-0.4-0.4N6A	0.4	0.4	6	50	4
TNU58-SN2-0.4-0.4N8A	0.4	0.4	8	50	4
TNU58-SN2-0.4-0.4N10A	0.4	0.4	10	50	4
TNU58-SN2-0.5-0.5N2A	0.5	0.5	2	50	4
TNU58-SN2-0.5-0.5N3A	0.5	0.5	3	50	4
TNU58-SN2-0.5-0.5N4A	0.5	0.5	4	50	4
TNU58-SN2-0.5-0.5N6A	0.5	0.5	6	50	4
TNU58-SN2-0.5-0.5N8A	0.5	0.5	8	50	4
TNU58-SN2-0.5-0.5N10A	0.5	0.5	10	50	4
TNU58-SN2-0.5-0.5N12A	0.5	0.5	12	50	4
TNU58-SN2-0.6-0.6N2A	0.6	0.6	2	50	4
TNU58-SN2-0.6-0.6N3A	0.6	0.6	3	50	4
TNU58-SN2-0.6-0.6N4A	0.6	0.6	4	50	4
TNU58-SN2-0.6-0.6N6A	0.6	0.6	6	50	4
TNU58-SN2-0.6-0.6N8A	0.6	0.6	8	50	4
TNU58-SN2-0.6-0.6N10A	0.6	0.6	10	50	4
TNU58-SN2-0.6-0.6N12A	0.6	0.6	12	50	4
TNU58-SN2-0.7-0.7N2A	0.7	0.7	2	50	4
TNU58-SN2-0.7-0.7N3A	0.7	0.7	3	50	4
TNU58-SN2-0.7-0.7N4A	0.7	0.7	4	50	4
TNU58-SN2-0.7-0.7N6A	0.7	0.7	6	50	4
TNU58-SN2-0.7-0.7N8A	0.7	0.7	8	50	4
TNU58-SN2-0.7-0.7N10A	0.7	0.7	10	50	4
TNU58-SN2-0.7-0.7N12A	0.7	0.7	12	50	4
TNU58-SN2-0.8-0.8N2A	0.8	0.8	2	50	4
TNU58-SN2-0.8-0.8N3A	0.8	0.8	3	50	4
TNU58-SN2-0.8-0.8N4A	0.8	0.8	4	50	4
TNU58-SN2-0.8-0.8N6A	0.8	0.8	6	50	4
TNU58-SN2-0.8-0.8N8A	0.8	0.8	8	50	4
TNU58-SN2-0.8-0.8N10A	0.8	0.8	10	50	4
TNU58-SN2-0.8-0.8N12A	0.8	0.8	12	50	4
TNU58-SN2-0.9-0.9N4A	0.9	0.9	4	50	4
TNU58-SN2-0.9-0.9N6A	0.9	0.9	6	50	4
TNU58-SN2-0.9-0.9N8A	0.9	0.9	8	50	4
TNU58-SN2-0.9-0.9N10A	0.9	0.9	10	50	4
TNU58-SN2-0.9-0.9N12A	0.9	0.9	12	50	4
TNU58-SN2-1-3N6A	1	3	6	50	4
TNU58-SN2-1-3N8A	1	3	8	50	4
TNU58-SN2-1-3N10A	1	3	10	50	4
TNU58-SN2-1-3N12A	1	3	12	50	4
TNU58-SN2-1-3N15A	1	3	15	50	4
TNU58-SN2-1-3N20A	1	3	20	50	4
TNU58-SN2-1.5-4.5N7A	1.5	4.5	7	50	4

Концевая микрофреза  
с обнижением



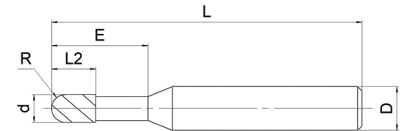
35°

45°



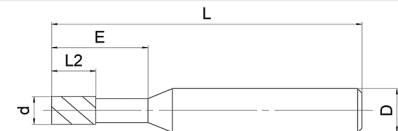
Артикул Tactic	d	L2	E	L	D
TNU58-SN2-1.5-4.5N10A	1.5	4.5	10	50	4
TNU58-SN2-1.5-4.5N12A	1.5	4.5	12	50	4
TNU58-SN2-1.5-4.5N15A	1.5	4.5	15	50	4
TNU58-SN2-1.5-4.5N20A	1.5	4.5	20	50	4
TNU58-SN2-2-6N10A	2	6	10	50	4
TNU58-SN2-2-6N12A	2	6	12	50	4
TNU58-SN2-2-6N15A	2	6	15	50	4
TNU58-SN2-2-6N20A	2	6	20	50	4
TNU58-SN2-2.5-7N12A	2.5	7	12	50	4
TNU58-SN2-2.5-7N15A	2.5	7	15	50	4
TNU58-SN2-2.5-7N20A	2.5	7	20	50	4
TNU58-SN2-3-8N12A	3	8	12	50	4
TNU58-SN2-3-8N15A	3	8	15	50	4
TNU58-SN2-3-8N20A	3	8	20	50	4
TNU58-SN2-3.5-10N12A	3.5	10	12	50	4
TNU58-SN2-3.5-10N15A	3.5	10	15	50	4
TNU58-SN2-3.5-10N20A	3.5	10	20	50	4

Концевая микрофреза  
сферическая с обнижением



Артикул Tactic	R	L2	E	L	D
TNU58-BN2-0.2-0.2N1A	R0.1	0.2	1	50	4
TNU58-BN2-0.2-0.2N2A	R0.1	0.2	2	50	4
TNU58-BN2-0.2-0.2N3A	R0.1	0.2	3	50	4
TNU58-BN2-0.3-0.3N1A	R0.15	0.3	1	50	4
TNU58-BN2-0.3-0.3N2A	R0.15	0.3	2	50	4
TNU58-BN2-0.3-0.3N3A	R0.15	0.3	3	50	4
TNU58-BN2-0.3-0.3N4A	R0.15	0.3	4	50	4
TNU58-BN2-0.4-0.4N1A	R0.2	0.4	1	50	4
TNU58-BN2-0.4-0.4N2A	R0.2	0.4	2	50	4
TNU58-BN2-0.4-0.4N3A	R0.2	0.4	3	50	4
TNU58-BN2-0.4-0.4N4A	R0.2	0.4	4	50	4
TNU58-BN2-0.4-0.4N6A	R0.2	0.4	6	50	4
TNU58-BN2-0.4-0.4N8A	R0.2	0.4	8	50	4
TNU58-BN2-0.4-0.4N10A	R0.2	0.4	10	50	4
TNU58-BN2-0.5-0.5N2A	R0.25	0.5	2	50	4
TNU58-BN2-0.5-0.5N3A	R0.25	0.5	3	50	4
TNU58-BN2-0.5-0.5N4A	R0.25	0.5	4	50	4
TNU58-BN2-0.5-0.5N6A	R0.25	0.5	6	50	4
TNU58-BN2-0.5-0.5N8A	R0.25	0.5	8	50	4
TNU58-BN2-0.5-0.5N10A	R0.25	0.5	10	50	4
TNU58-BN2-0.5-0.5N12A	R0.25	0.5	12	50	4
TNU58-BN2-0.6-0.6N2A	R0.3	0.6	2	50	4
TNU58-BN2-0.6-0.6N3A	R0.3	0.6	3	50	4
TNU58-BN2-0.6-0.6N4A	R0.3	0.6	4	50	4
TNU58-BN2-0.6-0.6N6A	R0.3	0.6	6	50	4
TNU58-BN2-0.6-0.6N8A	R0.3	0.6	8	50	4
TNU58-BN2-0.6-0.6N10A	R0.3	0.6	10	50	4
TNU58-BN2-0.6-0.6N12A	R0.3	0.6	12	50	4
TNU58-BN2-0.7-0.7N4A	R0.35	0.7	4	50	4
TNU58-BN2-0.7-0.7N6A	R0.35	0.7	6	50	4
TNU58-BN2-0.7-0.7N8A	R0.35	0.7	8	50	4
TNU58-BN2-0.7-0.7N10A	R0.35	0.7	10	50	4
TNU58-BN2-0.7-0.7N12A	R0.35	0.7	12	50	4
TNU58-BN2-0.8-0.8N3A	R0.4	0.8	3	50	4
TNU58-BN2-0.8-0.8N4A	R0.4	0.8	4	50	4
TNU58-BN2-0.8-0.8N6A	R0.4	0.8	6	50	4
TNU58-BN2-0.8-0.8N8A	R0.4	0.8	8	50	4
TNU58-BN2-0.8-0.8N10A	R0.4	0.8	10	50	4
TNU58-BN2-0.8-0.8N12A	R0.4	0.8	12	50	4

## Концевая микрофреза с обнижением



Артикул Tactic	d	L2	E	L	D
TNU58-SN3-1-3N6A	1	3	6	50	4
TNU58-SN3-1-3N8A	1	3	8	50	4
TNU58-SN3-1-3N10A	1	3	10	50	4
TNU58-SN3-1-3N12A	1	3	12	50	4
TNU58-SN3-1-3N15A	1	3	15	50	4
TNU58-SN3-1-3N20A	1	3	20	50	4
TNU58-SN3-1.5-4.5N8A	1.5	4.5	8	50	4
TNU58-SN3-1.5-4.5N10A	1.5	4.5	10	50	4
TNU58-SN3-1.5-4.5N12A	1.5	4.5	12	50	4
TNU58-SN3-1.5-4.5N15A	1.5	4.5	15	50	4
TNU58-SN3-1.5-4.5N20A	1.5	4.5	20	50	4
TNU58-SN3-2-6N8A	2	6	8	50	4
TNU58-SN3-2-6N10A	2	6	10	50	4
TNU58-SN3-2-6N12A	2	6	12	50	4
TNU58-SN3-2-6N15A	2	6	15	50	4
TNU58-SN3-2-6N20A	2	6	20	50	4
TNU58-SN3-2.5-7N12A	2.5	7	12	50	4
TNU58-SN3-2.5-7N15A	2.5	7	15	50	4
TNU58-SN3-2.5-7N20A	2.5	7	20	50	4
TNU58-SN3-3-8N12A	3	8	12	50	4
TNU58-SN3-3-8N15A	3	8	15	50	4
TNU58-SN3-3-8N20A	3	8	20	50	4
TNU58-SN3-3.5-10N12A	3.5	10	12	50	4
TNU58-SN3-3.5-10N15A	3.5	10	15	50	4
TNU58-SN3-3.5-10N20A	3.5	10	20	50	4

### Алюминиевые сплавы

Плоский торец	Начальные данные							
	Обработка торцов				Обработка стенок			
	f (мм/мин)	S (об/мин)	ae (мм)	ap (мм)	f (мм/мин)	S (об/мин)	ae (мм)	ap (мм)
D1.0	1600	10000	0.7	0.03	1500	10000	0.03	2
D2.0	1750	10000	1.4	0.05	1650	10000	0.06	4
D3.0	1950	9000	2.1	0.08	1800	9000	0.1	6
D4.0	2100	8500	2.8	0.1	2000	9000	0.12	8
D6.0	2400	8500	4.2	0.15	2300	9000	0.15	10
D8.0	2600	8000	5.6	0.2	2500	8500	0.18	15
D10.0	2800	8000	7	0.25	2600	8500	0.2	20
D12.0	3000	8000	8.4	0.28	2800	8500	0.22	25
D14.0	2800	6000	9.1	0.32	2500	8000	0.25	30
D16.0	2500	5000	10.4	0.35	2300	6500	0.28	35
D18.0	2200	4500	12.6	0.38	2100	6000	0.3	35
D20.0	2000	4000	14	0.4	2000	5000	0.32	35

### Алюминиевые сплавы

Сферическая	Начальные данные							
	Профильная обработка				Обработка пазов			
	f (мм/мин)	S (об/мин)	ae (мм)	ap (мм)	f (мм/мин)	S (об/мин)	ae (мм)	ap (мм)
R0.5	1500	15000	0.06	0.04	1200	15000	0	0.04
R0.75	1600	15000	0.07	0.06	1400	15000	0	0.05
R1.0	1750	10000	0.08	0.08	1600	12000	0	0.07
R1.5	1950	10000	0.08	0.1	1800	12000	0	0.08
R2.0	2000	9500	0.1	0.12	1900	10000	0	0.1
R3.0	2300	9000	0.2	0.15	2100	10000	0	0.12
R4.0	2600	8500	0.25	0.18	2200	9500	0	0.15
R5.0	3000	8000	0.3	0.2	2500	8500	0	0.18
R6.0	3200	7500	0.3	0.25	2800	8000	0	0.2
R7.0	2900	7000	0.35	0.28	2500	7500	0	0.22
R8.0	2800	7000	0.35	0.3	2400	7000	0	0.25
R10.0	2600	7000	0.35	0.32	2200	7000	0	0.25

### Алюминиевые сплавы

Сферическая	Начальные данные							
	Обработка торцов				Обработка стенок			
	f (мм/мин)	S (об/мин)	ae (мм)	ap (мм)	f (мм/мин)	S (об/мин)	ae (мм)	ap (мм)
D1R0.2	1600	11000	0.7	0.03	1450	12000	0.03	2
D2R0.5	1750	11000	1.4	0.05	1500	11000	0.06	4
D3R0.5	1850	9500	2.1	0.08	1650	10000	0.1	6
D4R0.5	2000	9000	2.8	0.1	1800	9500	0.12	8
D6R0.5	2100	8500	4.2	0.15	2200	9000	0.15	10
D8R.50	2400	8000	5.6	0.2	2400	8500	0.18	15
D10R0.5	2600	8000	7	0.25	2600	8500	0.2	20
D12R0.5	2800	8000	8.4	0.28	2800	8500	0.22	25
D16R0.5	2500	6000	10.4	0.35	2300	6500	0.25	35
D18R0.5	2200	5000	12.6	0.38	2100	6000	0.28	35
D20R0.5	2000	4500	14	0.4	2000	5500	0.3	35

### Алюминиевые сплавы

Микрофрезы с плоским торцом	Начальные данные			
	Обработка торцов			ap (мм)
	f (мм/мин)	S (об/мин)	ae (мм)	
0.1	100	30000	0.008	Стандартная длина рабочей части
0.2	180	30000	0.01	
0.3	250	30000	0.015	
0.4	400	20000	0.018	
0.5	550	20000	0.02	
0.6	650	20000	0.03	
0.7	700	20000	0.04	
0.8	800	20000	0.05	
0.9	1000	20000	0.06	

### Алюминиевые сплавы

Микрофрезы сферические	Начальные данные			
	Обработка торцов			ap (мм)
	f (мм/мин)	S (об/мин)	ae (мм)	
R0.1	200	30000	0.01	Стандартная длина рабочей части
R0.15	280	30000	0.015	
R0.2	320	30000	0.02	
R0.25	450	20000	0.025	
R0.3	520	20000	0.03	
R0.35	600	20000	0.04	
R0.4	650	20000	0.05	
R0.45	800	20000	0.05	

Алюминиевые сплавы				
Микрофрезы с плоским торцом для глубоких пазов		Начальные данные		
		Обработка торцов		
		f (мм/мин)	S (об/мин)	ap (мм)
0.1	Короткая рабочая часть с обнижением	90	28000	0.006
0.2		160	28000	0.008
0.3		200	25000	0.01
0.4		350	18000	0.015
0.5		450	18000	0.015
0.6		500	15000	0.018
0.7		600	15000	0.02
0.8		700	12000	0.025
0.9		800	12000	0.03

Алюминиевые сплавы				
Микрофрезы сферические		Начальные данные		
		Обработка торцов		
		f (мм/мин)	S (об/мин)	ap (мм)
R0.1	Короткая рабочая часть с обнижением	200	28000	0.008
R0.15		280	25000	0.01
R0.2		320	18000	0.018
R0.25		450	18000	0.02
R0.3		520	15000	0.025
R0.35		600	15000	0.025
R0.4		650	12000	0.03
R0.45		800	12000	0.035

Алюминиевые сплавы								
Плоский торец	Эффективная длина	Начальные данные						
		Обработка торцов			Обработка стенок			
		f (мм/мин)	S (об/мин)	ap (мм)	f (мм/мин)	S (об/мин)	ae (мм)	
1	4	1800	12000	0.07	1650	12000	0.1	
	6	1600	11000	0.05	1450	11000	0.07	
	8	1500	10000	0.04	1200	10000	0.06	
	10	1200	9500	0.03	1000	10000	0.05	
2	10	2000	10000	0.12	1800	10000	0.15	
	12	1750	9500	0.08	1500	10000	0.012	
	16	1500	8500	0.06	1300	9000	0.08	
	20	1200	8000	0.05	1200	8500	0.08	
3	10	2000	8500	0.15	1800	8500	0.2	
	12	1800	7500	0.1	1600	8000	0.15	
	16	1600	7000	0.08	1500	7500	0.1	
	20	1500	7000	0.06	1200	7500	0.08	

Алюминиевые сплавы				
Сферическая	Эффективная длина	Начальные данные		
		Обработка торцов		
		f (мм/мин)	S (об/мин)	ap (мм)
R0.5	4	1500	11000	0.1
	6	1300	10000	0.07
	8	1200	9500	0.05
	10	1000	9000	0.05
R0.75	10	1800	9500	0.12
	12	1600	9000	0.1
	16	1500	8500	0.08
	20	1500	8500	0.06
R1.0	10	2000	9500	0.15
	12	1800	9000	0.12
	16	1600	8500	0.1
	20	1450	8000	0.08
R1.5	10	2200	9000	0.18
	12	2000	8500	0.15
	16	1800	8000	0.12
	20	1600	7500	0.1

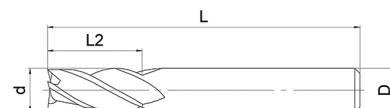
Алюминиевые сплавы								
Радиус при вершине	Эффективная длина	Начальные данные						
		Обработка торцов			Обработка стенок			
		f (мм/мин)	S (об/мин)	ap (мм)	f (мм/мин)	S (об/мин)	ae (мм)	
1R0.2	4	1750	12000	0.08	1600	12000	0.12	
	6	1450	11000	0.06	1400	11000	0.1	
	8	1350	10000	0.05	1200	10000	0.08	
	10	1100	9500	0.04	1000	10000	0.065	
2R0.2	10	2000	10000	0.12	1800	10000	0.15	
	12	1750	9500	0.1	1500	10000	0.12	
	16	1500	8500	0.08	1300	9000	0.1	
	20	1200	8000	0.06	1200	8500	0.1	
3R0.2	10	2000	8500	0.15	1800	8500	0.18	
	12	1800	7500	0.12	1600	8000	0.15	
	16	1600	7000	0.1	1500	7500	0.12	
	20	1500	7000	0.07	1200	7500	0.1	

# TNU70

Фрезы для обработки цветных материалов,  
общего применения

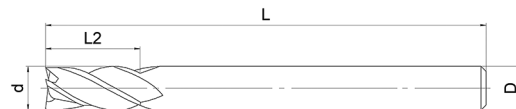


## Концевая фреза



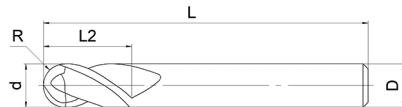
Артикул Tactic	d	L2	L	D
TNU70-ST3-1-3A	1	3	50	4
TNU70-ST3-1.5-4.5A	1.5	4.5	50	4
TNU70-ST3-2-6A	2	6	50	4
TNU70-ST3-2.5-7A	2.5	7	50	4
TNU70-ST3-3-8A	3	8	50	4
TNU70-ST3-4-11A	4	11	50	4
TNU70-ST3-5-13A	5	13	50	6
TNU70-ST3-6-15A	6	15	50	6
TNU70-ST3-7-18B	7	18	60	8
TNU70-ST3-8-20B	8	20	60	8
TNU70-ST3-9-23C	9	23	75	10
TNU70-ST3-10-25C	10	25	75	10
TNU70-ST3-11-28C	11	28	75	12
TNU70-ST3-12-30C	12	30	75	12
TNU70-ST3-16-40D	16	40	100	16
TNU70-ST3-20-40D	20	40	100	20

## Концевая фреза с удлиненным хвостовиком



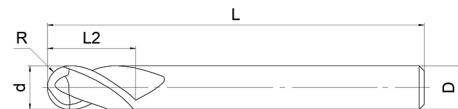
Артикул Tactic	d	L2	L	D
TNU70-SH3-1-3C	1	3	75	4
TNU70-SH3-1.5-4.5C	1.5	4.5	75	4
TNU70-SH3-2-6C	2	6	75	4
TNU70-SH3-2.5-7C	2.5	7	75	4
TNU70-SH3-3-8C	3	8	75	4
TNU70-SH3-3.5-10C	3.5	10	75	4
TNU70-SH3-4-11C	4	11	75	4
TNU70-SH3-4.5-13C	4.5	13	75	6
TNU70-SH3-5-13C	5	13	75	6
TNU70-SH3-5.5-13C	5.5	13	75	6
TNU70-SH3-6-15C	6	15	75	6
TNU70-SH3-6.5-17C	6.5	17	75	8
TNU70-SH3-7-17C	7	17	75	8
TNU70-SH3-7.5-17C	7.5	17	75	8
TNU70-SH3-8-20C	8	20	75	8
TNU70-SH3-3-8D	3	8	100	4
TNU70-SH3-4-11D	4	11	100	4
TNU70-SH3-5-13D	5	13	100	6
TNU70-SH3-6-15D	6	15	100	6
TNU70-SH3-7-17D	7	17	100	8
TNU70-SH3-8-20D	8	20	100	8
TNU70-SH3-9-23D	9	23	100	10
TNU70-SH3-10-30D	10	30	100	10
TNU70-SH3-11-28D	11	28	100	12
TNU70-SH3-12-30D	12	30	100	12
TNU70-SH3-8-40F	8	40	150	8
TNU70-SH3-10-50F	10	50	150	10
TNU70-SH3-12-50F	12	50	150	12
TNU70-SH3-16-65F	16	65	150	16
TNU70-SH3-18-65F	18	65	150	18
TNU70-SH3-20-75F	20	75	150	20
TNU70-SH3-8-50G	8	50	200	8
TNU70-SH3-10-60G	10	60	200	10
TNU70-SH3-12-80G	12	80	200	12
TNU70-SH3-16-80G	16	80	200	16
TNU70-SH3-18-80G	18	80	200	18
TNU70-SH3-20-100G	20	100	200	20

Концевая фреза  
сферическая



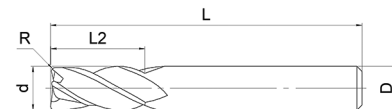
Артикул Tactic	R	L2	L	D
TNU70-BT2-1-2A	R0.5	2	50	4
TNU70-BT2-1.5-3A	R0.75	3	50	4
TNU70-BT2-2-4A	R1	4	50	4
TNU70-BT2-2.5-5A	R1.25	5	50	4
TNU70-BT2-3-6A	R1.5	6	50	4
TNU70-BT2-3.5-7A	R1.75	7	50	4
TNU70-BT2-4-8A	R2	8	50	4
TNU70-BT2-4.5-9A	R2.25	9	50	6
TNU70-BT2-5-10A	R2.5	10	50	6
TNU70-BT2-5.5-11A	R2.75	11	50	6
TNU70-BT2-6-12A	R3	12	50	6
TNU70-BT2-6.5-13B	R3.25	13	60	8
TNU70-BT2-7-14B	R3.5	14	60	8
TNU70-BT2-7.5-15B	R3.75	15	60	8
TNU70-BT2-8-16B	R4	16	60	8
TNU70-BT2-9-18C	R4.5	18	75	10
TNU70-BT2-10-20C	R5	20	75	10
TNU70-BT2-12-24C	R6	24	75	12
TNU70-BT2-16-32D	R8	32	100	16
TNU70-BT2-20-40D	R10	40	100	20
TNU70-BT2-25-50D	R12.5	50	100	25

Концевая фреза сферическая  
с удлиненным хвостовиком



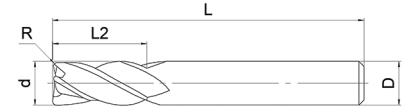
Артикул Tactic	R	L2	L	D
TNU70-BH2-1-2C	R0.5	2	75	4
TNU70-BH2-1.5-3C	R0.75	3	75	4
TNU70-BH2-2-4C	R1	4	75	4
TNU70-BH2-2.5-5C	R1.25	5	75	4
TNU70-BH2-3-6C	R1.5	6	75	4
TNU70-BH2-3.5-7C	R1.75	7	75	4
TNU70-BH2-4-8C	R2	8	75	4
TNU70-BH2-4.5-9C	R2.25	9	75	6
TNU70-BH2-5-10C	R2.5	10	75	6
TNU70-BH2-5.5-11C	R2.75	11	75	6
TNU70-BH2-6-12C	R3	12	75	6
TNU70-BH2-8-16C	R4	16	75	8
TNU70-BH2-1-2D	R0.5	2	100	4
TNU70-BH2-1.5-3D	R0.75	3	100	4
TNU70-BH2-2-4D	R1	4	100	4
TNU70-BH2-2.5-5D	R1.25	5	100	4
TNU70-BH2-3-6D	R1.5	6	100	4
TNU70-BH2-3.5-7D	R1.75	7	100	4
TNU70-BH2-4-8D	R2	8	100	4
TNU70-BH2-4.5-9D	R2.25	9	100	6
TNU70-BH2-5-10D	R2.5	10	100	6
TNU70-BH2-5.5-11D	R2.75	11	100	6
TNU70-BH2-6-12D	R3	12	100	6
TNU70-BH2-8-16D	R4	16	100	8
TNU70-BH2-10-20D	R5	20	100	10
TNU70-BH2-12-24D	R6	24	100	12
TNU70-BH2-10-20E	R5	20	120	10
TNU70-BH2-12-24E	R6	24	120	12
TNU70-BH2-6-12F	R3	12	150	6
TNU70-BH2-8-16F	R4	16	150	8
TNU70-BH2-10-20F	R5	20	150	10
TNU70-BH2-12-24F	R6	24	150	12
TNU70-BH2-16-30F	R8	30	150	16
TNU70-BH2-20-30F	R10	30	150	20
TNU70-BH2-8-16G	R4	16	200	8
TNU70-BH2-10-20G	R5	20	200	10
TNU70-BH2-12-24G	R6	24	200	12
TNU70-BH2-16-32G	R8	32	200	16
TNU70-BH2-20-40G	R10	40	200	20

## Концевая фреза



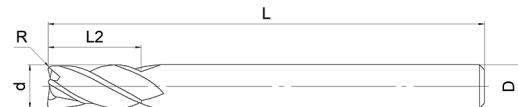
Артикул Tactic	d	R	L2	L	D
TNU70-RT3-1R0.1-3A	1	0.1	3	50	4
TNU70-RT3-1R0.2-3A	1	0.2	3	50	4
TNU70-RT3-1R0.3-3A	1	0.3	3	50	4
TNU70-RT3-1.5R0.1-4.5A	1.5	0.1	4.5	50	4
TNU70-RT3-1.5R0.2-4.5A	1.5	0.2	4.5	50	4
TNU70-RT3-1.5R0.3-4.5A	1.5	0.3	4.5	50	4
TNU70-RT3-1.5R0.5-4.5A	1.5	0.5	4.5	50	4
TNU70-RT3-2R0.1-6A	2	0.1	6	50	4
TNU70-RT3-2R0.2-6A	2	0.2	6	50	4
TNU70-RT3-2R0.3-6A	2	0.3	6	50	4
TNU70-RT3-2R0.5-6A	2	0.5	6	50	4
TNU70-RT3-2.5R0.1-7.5A	2.5	0.1	7.5	50	4
TNU70-RT3-2.5R0.2-7.5A	2.5	0.2	7.5	50	4
TNU70-RT3-2.5R0.3-7.5A	2.5	0.3	7.5	50	4
TNU70-RT3-2.5R0.5-7.5A	2.5	0.5	7.5	50	4
TNU70-RT3-3R0.1-8A	3	0.1	8	50	4
TNU70-RT3-3R0.2-8A	3	0.2	8	50	4
TNU70-RT3-3R0.3-8A	3	0.3	8	50	4
TNU70-RT3-3R0.5-8A	3	0.5	8	50	4
TNU70-RT3-3R1-8A	3	1	8	50	4
TNU70-RT3-4R0.1-11A	4	0.1	11	50	4
TNU70-RT3-4R0.2-11A	4	0.2	11	50	4
TNU70-RT3-4R0.3-11A	4	0.3	11	50	4
TNU70-RT3-4R0.5-11A	4	0.5	11	50	4
TNU70-RT3-4R1-11A	4	1	11	50	4
TNU70-RT3-5R0.2-13A	5	0.2	13	50	5
TNU70-RT3-5R0.5-13A	5	0.5	13	50	5
TNU70-RT3-5R1-13A	5	1	13	50	5
TNU70-RT3-6R0.1-15A	6	0.1	15	50	6
TNU70-RT3-6R0.2-15A	6	0.2	15	50	6
TNU70-RT3-6R0.3-15A	6	0.3	15	50	6
TNU70-RT3-6R0.5-15A	6	0.5	15	50	6
TNU70-RT3-6R1-15A	6	1	15	50	6
TNU70-RT3-6R1.5-15A	6	1.5	15	50	6
TNU70-RT3-6R2-15A	6	2	15	50	6
TNU70-RT3-8R0.2-20B	8	0.2	20	60	8
TNU70-RT3-8R0.3-20B	8	0.3	20	60	8
TNU70-RT3-8R0.5-20B	8	0.5	20	60	8
TNU70-RT3-8R1-20B	8	1	20	60	8
TNU70-RT3-8R1.5-20B	8	1.5	20	60	8
TNU70-RT3-8R2-20B	8	2	20	60	8
TNU70-RT3-8R2.5-20B	8	2.5	20	60	8
TNU70-RT3-8R3-20B	8	3	20	60	8
TNU70-RT3-10R0.2-25C	10	0.2	25	75	10
TNU70-RT3-10R0.3-25C	10	0.3	25	75	10
TNU70-RT3-10R0.5-25C	10	0.5	25	75	10
TNU70-RT3-10R1-25C	10	1	25	75	10
TNU70-RT3-10R1.5-25C	10	1.5	25	75	10
TNU70-RT3-10R2-25C	10	2	25	75	10
TNU70-RT3-10R2.5-25C	10	2.5	25	75	10
TNU70-RT3-10R3-25C	10	3	25	75	10
TNU70-RT3-10R4-25C	10	4	25	75	10
TNU70-RT3-12R0.2-30C	12	0.2	30	75	12
TNU70-RT3-12R0.3-30C	12	0.3	30	75	12

## Концевая фреза



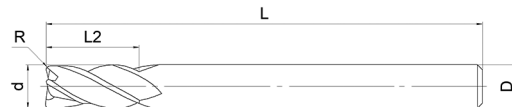
Артикул Tactic	d	R	L2	L	D
TNU70-RT3-12R0.5-30C	12	0.5	30	75	12
TNU70-RT3-12R1-30C	12	1	30	75	12
TNU70-RT3-12R1.5-30C	12	1.5	30	75	12
TNU70-RT3-12R2-30C	12	2	30	75	12
TNU70-RT3-12R2.5-30C	12	2.5	30	75	12
TNU70-RT3-12R3-30C	12	3	30	75	12
TNU70-RT3-12R4-30C	12	4	30	75	12
TNU70-RT3-12R5-30C	12	5	30	75	12
TNU70-RT3-14R0.5-35D	14	0.5	35	100	14
TNU70-RT3-14R1-35D	14	1	35	100	14
TNU70-RT3-14R1.5-35D	14	1.5	35	100	14
TNU70-RT3-14R2-35D	14	2	35	100	14
TNU70-RT3-14R2.5-35D	14	2.5	35	100	14
TNU70-RT3-14R3-35D	14	3	35	100	14
TNU70-RT3-14R4-35D	14	4	35	100	14
TNU70-RT3-14R5-35D	14	5	35	100	14
TNU70-RT3-16R0.5-40D	16	0.5	40	100	16
TNU70-RT3-16R1-40D	16	1	40	100	16
TNU70-RT3-16R1.5-40D	16	1.5	40	100	16
TNU70-RT3-16R2-40D	16	2	40	100	16
TNU70-RT3-16R2.5-40D	16	2.5	40	100	16
TNU70-RT3-16R3-40D	16	3	40	100	16
TNU70-RT3-16R4-40D	16	4	40	100	16
TNU70-RT3-16R5-40D	16	5	40	100	16
TNU70-RT3-20R0.5-45D	20	0.5	45	100	20
TNU70-RT3-20R1-45D	20	1	45	100	20
TNU70-RT3-20R1.5-45D	20	1.5	45	100	20
TNU70-RT3-20R2-45D	20	2	45	100	20
TNU70-RT3-20R2.5-45D	20	2.5	45	100	20
TNU70-RT3-20R3-45D	20	3	45	100	20
TNU70-RT3-20R4-45D	20	4	45	100	20
TNU70-RT3-20R5-45D	20	5	45	100	20

## Концевая фреза с удлиненным хвостовиком



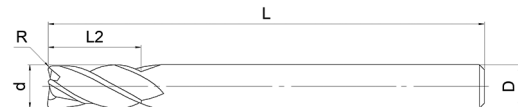
Артикул Tactic	d	R	L2	L	D
TNU70-RH3-1R0.1-3C	1	0.1	3	75	4
TNU70-RH3-1R0.2-3C	1	0.2	3	75	4
TNU70-RH3-1R0.3-3C	1	0.3	3	75	4
TNU70-RH3-1.5R0.1-4.5C	1.5	0.1	4.5	75	4
TNU70-RH3-1.5R0.2-4.5C	1.5	0.2	4.5	75	4
TNU70-RH3-1.5R0.3-4.5C	1.5	0.3	4.5	75	4
TNU70-RH3-1.5R0.5-4.5C	1.5	0.5	4.5	75	4
TNU70-RH3-2R0.1-6C	2	0.1	6	75	4
TNU70-RH3-2R0.2-6C	2	0.2	6	75	4
TNU70-RH3-2R0.3-6C	2	0.3	6	75	4
TNU70-RH3-2R0.5-6C	2	0.5	6	75	4
TNU70-RH3-2.5R0.1-7.5C	2.5	0.1	7.5	75	4
TNU70-RH3-2.5R0.2-7.5C	2.5	0.2	7.5	75	4
TNU70-RH3-2.5R0.3-7.5C	2.5	0.3	7.5	75	4
TNU70-RH3-2.5R0.5-7.5C	2.5	0.5	7.5	75	4
TNU70-RH3-3R0.1-8C	3	0.1	8	75	4
TNU70-RH3-3R0.2-8C	3	0.2	8	75	4
TNU70-RH3-3R0.3-8C	3	0.3	8	75	4
TNU70-RH3-3R0.5-8C	3	0.5	8	75	4
TNU70-RH3-3R1-8C	3	1	8	75	4
TNU70-RH3-4R0.1-11C	4	0.1	11	75	4
TNU70-RH3-4R0.2-11C	4	0.2	11	75	4
TNU70-RH3-4R0.3-11C	4	0.3	11	75	4
TNU70-RH3-4R0.5-11C	4	0.5	11	75	4
TNU70-RH3-4R1-11C	4	1	11	75	4
TNU70-RH3-5R0.2-15C	5	0.2	15	75	5
TNU70-RH3-5R0.5-15C	5	0.5	15	75	5
TNU70-RH3-5R1-15C	5	1	15	75	5
TNU70-RH3-6R0.1-15C	6	0.1	15	75	6
TNU70-RH3-6R0.2-15C	6	0.2	15	75	6
TNU70-RH3-6R0.3-15C	6	0.3	15	75	6
TNU70-RH3-6R0.5-15C	6	0.5	15	75	6
TNU70-RH3-6R1-15C	6	1	15	75	6
TNU70-RH3-6R1.5-15C	6	1.5	15	75	6
TNU70-RH3-6R2-15C	6	2	15	75	6
TNU70-RH3-8R0.2-20C	8	0.2	20	75	8
TNU70-RH3-8R0.3-20C	8	0.3	20	75	8
TNU70-RH3-8R0.5-20C	8	0.5	20	75	8
TNU70-RH3-8R1-20C	8	1	20	75	8
TNU70-RH3-8R1.5-20C	8	1.5	20	75	8
TNU70-RH3-8R2-20C	8	2	20	75	8
TNU70-RH3-8R2.5-20C	8	2.5	20	75	8
TNU70-RH3-8R3-20C	8	3	20	75	8
TNU70-RH3-1R0.1-3D	1	0.1	3	100	4
TNU70-RH3-1R0.2-3D	1	0.2	3	100	4
TNU70-RH3-1R0.3-3D	1	0.3	3	100	4
TNU70-RH3-1.5R0.1-4.5D	1.5	0.1	4.5	100	4
TNU70-RH3-1.5R0.2-4.5D	1.5	0.2	4.5	100	4
TNU70-RH3-1.5R0.3-4.5D	1.5	0.3	4.5	100	4
TNU70-RH3-1.5R0.5-4.5D	1.5	0.5	4.5	100	4
TNU70-RH3-2R0.1-6D	2	0.1	6	100	4
TNU70-RH3-2R0.2-6D	2	0.2	6	100	4
TNU70-RH3-2R0.3-6D	2	0.3	6	100	4
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Концевая фреза  
с удлиненным хвостовиком



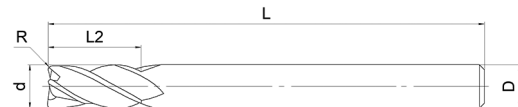
Артикул Tactic	d	R	L2	L	D
TNU70-RH3-2.5R0.1-7.5D	2.5	0.1	7.5	100	4
TNU70-RH3-2.5R0.2-7.5D	2.5	0.2	7.5	100	4
TNU70-RH3-2.5R0.3-7.5D	2.5	0.3	7.5	100	4
TNU70-RH3-2.5R0.5-7.5D	2.5	0.5	7.5	100	4
TNU70-RH3-3R0.1-8D	3	0.1	8	100	4
TNU70-RH3-3R0.2-8D	3	0.2	8	100	4
TNU70-RH3-3R0.3-8D	3	0.3	8	100	4
TNU70-RH3-3R0.5-8D	3	0.5	8	100	4
TNU70-RH3-3R1-8D	3	1	8	100	4
TNU70-RH3-4R0.1-11D	4	0.1	11	100	4
TNU70-RH3-4R0.2-11D	4	0.2	11	100	4
TNU70-RH3-4R0.3-11D	4	0.3	11	100	4
TNU70-RH3-4R0.5-11D	4	0.5	11	100	4
TNU70-RH3-4R1-11D	4	1	11	100	4
TNU70-RH3-5R0.2-15D	5	0.2	15	100	5
TNU70-RH3-5R0.5-15D	5	0.5	15	100	5
TNU70-RH3-5R1-15D	5	1	15	100	5
TNU70-RH3-6R0.1-15D	6	0.1	15	100	6
TNU70-RH3-6R0.2-15D	6	0.2	15	100	6
TNU70-RH3-6R0.3-15D	6	0.3	15	100	6
TNU70-RH3-6R0.5-15D	6	0.5	15	100	6
TNU70-RH3-6R1-15D	6	1	15	100	6
TNU70-RH3-6R1.5-15D	6	1.5	15	100	6
TNU70-RH3-6R2-15D	6	2	15	100	6
TNU70-RH3-8R0.2-20D	8	0.2	20	100	8
TNU70-RH3-8R0.3-20D	8	0.3	20	100	8
TNU70-RH3-8R0.5-20D	8	0.5	20	100	8
TNU70-RH3-8R1-20D	8	1	20	100	8
TNU70-RH3-8R1.5-20D	8	1.5	20	100	8
TNU70-RH3-8R2-20D	8	2	20	100	8
TNU70-RH3-8R2.5-20D	8	2.5	20	100	8
TNU70-RH3-8R3-20D	8	3	20	100	8
TNU70-RH3-10R0.2-30D	10	0.2	30	100	10
TNU70-RH3-10R0.3-30D	10	0.3	30	100	10
TNU70-RH3-10R0.5-30D	10	0.5	30	100	10
TNU70-RH3-10R1-30D	10	1	30	100	10
TNU70-RH3-10R1.5-30D	10	1.5	30	100	10
TNU70-RH3-10R2-30D	10	2	30	100	10
TNU70-RH3-10R2.5-30D	10	2.5	30	100	10
TNU70-RH3-10R3-30D	10	3	30	100	10
TNU70-RH3-10R4-30D	10	4	30	100	10
TNU70-RH3-12R0.2-30D	12	0.2	30	100	12
TNU70-RH3-12R0.3-30D	12	0.3	30	100	12
TNU70-RH3-12R0.5-30D	12	0.5	30	100	12
TNU70-RH3-12R1-30D	12	1	30	100	12
TNU70-RH3-12R1.5-30D	12	1.5	30	100	12
TNU70-RH3-12R2-30D	12	2	30	100	12
TNU70-RH3-12R2.5-30D	12	2.5	30	100	12
TNU70-RH3-12R3-30D	12	3	30	100	12
TNU70-RH3-12R4-30D	12	4	30	100	12
TNU70-RH3-12R5-30D	12	5	30	100	12
TNU70-RH3-8R0.2-30E	8	0.2	30	120	8
TNU70-RH3-8R0.3-30E	8	0.3	30	120	8
TNU70-RH3-8R0.5-30E	8	0.5	30	120	8

## Концевая фреза с удлиненным хвостовиком



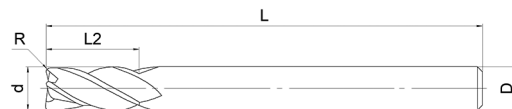
Артикул Tactic	d	R	L2	L	D
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TNU70-RH3-8R1.5-30E	8	1.5	30	120	8
TNU70-RH3-8R2-30E	8	2	30	120	8
TNU70-RH3-8R2.5-30E	8	2.5	30	120	8
TNU70-RH3-8R3-30E	8	3	30	120	8
TNU70-RH3-10R0.2-30E	10	0.2	30	120	10
TNU70-RH3-10R0.3-30E	10	0.3	30	120	10
TNU70-RH3-10R0.5-30E	10	0.5	30	120	10
TNU70-RH3-10R1-30E	10	1	30	120	10
TNU70-RH3-10R1.5-30E	10	1.5	30	120	10
TNU70-RH3-10R2-30E	10	2	30	120	10
TNU70-RH3-10R2.5-30E	10	2.5	30	120	10
TNU70-RH3-10R3-30E	10	3	30	120	10
TNU70-RH3-10R4-30E	10	4	30	120	10
TNU70-RH3-12R0.2-30E	12	0.2	30	120	12
TNU70-RH3-12R0.3-30E	12	0.3	30	120	12
TNU70-RH3-12R0.5-30E	12	0.5	30	120	12
TNU70-RH3-12R1-30E	12	1	30	120	12
TNU70-RH3-12R1.5-30E	12	1.5	30	120	12
TNU70-RH3-12R2-30E	12	2	30	120	12
TNU70-RH3-12R2.5-30E	12	2.5	30	120	12
TNU70-RH3-12R3-30E	12	3	30	120	12
TNU70-RH3-12R4-30E	12	4	30	120	12
TNU70-RH3-12R5-30E	12	5	30	120	12
TNU70-RH3-6R0.1-30F	6	0.1	30	150	6
TNU70-RH3-6R0.2-30F	6	0.2	30	150	6
TNU70-RH3-6R0.3-30F	6	0.3	30	150	6
TNU70-RH3-6R0.5-30F	6	0.5	30	150	6
TNU70-RH3-6R1-30F	6	1	30	150	6
TNU70-RH3-6R1.5-30F	6	1.5	30	150	6
TNU70-RH3-6R2-30F	6	2	30	150	6
TNU70-RH3-8R0.2-30F	8	0.2	30	150	8
TNU70-RH3-8R0.3-30F	8	0.3	30	150	8
TNU70-RH3-8R0.5-30F	8	0.5	30	150	8
TNU70-RH3-8R1-30F	8	1	30	150	8
TNU70-RH3-8R1.5-30F	8	1.5	30	150	8
TNU70-RH3-8R2-30F	8	2	30	150	8
TNU70-RH3-8R2.5-30F	8	2.5	30	150	8
TNU70-RH3-8R3-30F	8	3	30	150	8
TNU70-RH3-10R0.2-35F	10	0.2	35	150	10
TNU70-RH3-10R0.3-35F	10	0.3	35	150	10
TNU70-RH3-10R0.5-35F	10	0.5	35	150	10
TNU70-RH3-10R1-35F	10	1	35	150	10
TNU70-RH3-10R1.5-35F	10	1.5	35	150	10
TNU70-RH3-10R2-35F	10	2	35	150	10
TNU70-RH3-10R2.5-35F	10	2.5	35	150	10
TNU70-RH3-10R3-35F	10	3	35	150	10
TNU70-RH3-10R4-35F	10	4	35	150	10
TNU70-RH3-12R0.2-40F	12	0.2	40	150	12
TNU70-RH3-12R0.3-40F	12	0.3	40	150	12
TNU70-RH3-12R0.5-40F	12	0.5	40	150	12
TNU70-RH3-12R1-40F	12	1	40	150	12
TNU70-RH3-12R1.5-40F	12	1.5	40	150	12
TNU70-RH3-12R2-40F	12	2	40	150	12

## Концевая фреза с удлиненным хвостовиком



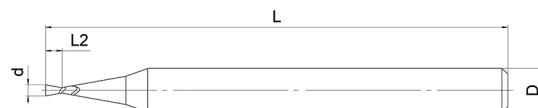
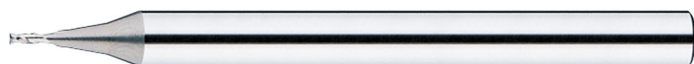
Артикул Tactic	d	R	L2	L	D
TNU70-RH3-12R2.5-40F	12	2.5	40	150	12
TNU70-RH3-12R3-40F	12	3	40	150	12
TNU70-RH3-12R4-40F	12	4	40	150	12
TNU70-RH3-12R5-40F	12	5	40	150	12
TNU70-RH3-14R0.5-40F	14	0.5	40	150	14
TNU70-RH3-14R1-40F	14	1	40	150	14
TNU70-RH3-14R1.5-40F	14	1.5	40	150	14
TNU70-RH3-14R2-40F	14	2	40	150	14
TNU70-RH3-14R2.5-40F	14	2.5	40	150	14
TNU70-RH3-14R3-40F	14	3	40	150	14
TNU70-RH3-14R4-40F	14	4	40	150	14
TNU70-RH3-14R5-40F	14	5	40	150	14
TNU70-RH3-16R0.5-40F	16	0.5	40	150	16
TNU70-RH3-16R1-40F	16	1	40	150	16
TNU70-RH3-16R1.5-40F	16	1.5	40	150	16
TNU70-RH3-16R2-40F	16	2	40	150	16
TNU70-RH3-16R2.5-40F	16	2.5	40	150	16
TNU70-RH3-16R3-40F	16	3	40	150	16
TNU70-RH3-16R4-40F	16	4	40	150	16
TNU70-RH3-16R5-40F	16	5	40	150	16
TNU70-RH3-20R0.5-50F	20	0.5	50	150	20
TNU70-RH3-20R1-50F	20	1	50	150	20
TNU70-RH3-20R1.5-50F	20	1.5	50	150	20
TNU70-RH3-20R2-50F	20	2	50	150	20
TNU70-RH3-20R2.5-50F	20	2.5	50	150	20
TNU70-RH3-20R3-50F	20	3	50	150	20
TNU70-RH3-20R4-50F	20	4	50	150	20
TNU70-RH3-20R5-50F	20	5	50	150	20
TNU70-RH3-6R0.1-30G	6	0.1	30	200	6
TNU70-RH3-6R0.2-30G	6	0.2	30	200	6
TNU70-RH3-6R0.3-30G	6	0.3	30	200	6
TNU70-RH3-6R0.5-30G	6	0.5	30	200	6
TNU70-RH3-6R1-30G	6	1	30	200	6
TNU70-RH3-6R1.5-30G	6	1.5	30	200	6
TNU70-RH3-6R2-30G	6	2	30	200	6
TNU70-RH3-8R0.2-40G	8	0.2	40	200	8
TNU70-RH3-8R0.3-40G	8	0.3	40	200	8
TNU70-RH3-8R0.5-40G	8	0.5	40	200	8
TNU70-RH3-8R1-40G	8	1	40	200	8
TNU70-RH3-8R1.5-40G	8	1.5	40	200	8
TNU70-RH3-8R2-40G	8	2	40	200	8
TNU70-RH3-8R2.5-40G	8	2.5	40	200	8
TNU70-RH3-8R3-40G	8	3	40	200	8
TNU70-RH3-10R0.2-40G	10	0.2	40	200	10
TNU70-RH3-10R0.3-40G	10	0.3	40	200	10
TNU70-RH3-10R0.5-40G	10	0.5	40	200	10
TNU70-RH3-10R1-40G	10	1	40	200	10
TNU70-RH3-10R1.5-40G	10	1.5	40	200	10
TNU70-RH3-10R2-40G	10	2	40	200	10
TNU70-RH3-10R2.5-40G	10	2.5	40	200	10
TNU70-RH3-10R3-40G	10	3	40	200	10
TNU70-RH3-10R4-40G	10	4	40	200	10
TNU70-RH3-12R0.2-40G	12	0.2	40	200	12
TNU70-RH3-12R0.3-40G	12	0.3	40	200	12

Концевая фреза  
с удлиненным хвостовиком



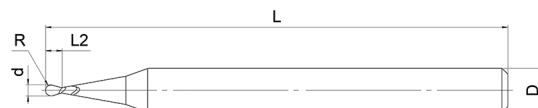
Артикул Tactic	d	R	L2	L	D
TNU70-RH3-12R0.5-40G	12	0.5	40	200	12
TNU70-RH3-12R1-40G	12	1	40	200	12
TNU70-RH3-12R1.5-40G	12	1.5	40	200	12
TNU70-RH3-12R2-40G	12	2	40	200	12
TNU70-RH3-12R2.5-40G	12	2.5	40	200	12
TNU70-RH3-12R3-40G	12	3	40	200	12
TNU70-RH3-12R4-40G	12	4	40	200	12
TNU70-RH3-12R5-40G	12	5	40	200	12
TNU70-RH3-14R0.5-50G	14	0.5	50	200	14
TNU70-RH3-14R1-50G	14	1	50	200	14
TNU70-RH3-14R1.5-50G	14	1.5	50	200	14
TNU70-RH3-14R2-50G	14	2	50	200	14
TNU70-RH3-14R2.5-50G	14	2.5	50	200	14
TNU70-RH3-14R3-50G	14	3	50	200	14
TNU70-RH3-14R4-50G	14	4	50	200	14
TNU70-RH3-14R5-50G	14	5	50	200	14
TNU70-RH3-16R0.5-50G	16	0.5	50	200	16
TNU70-RH3-16R1-50G	16	1	50	200	16
TNU70-RH3-16R1.5-50G	16	1.5	50	200	16
TNU70-RH3-16R2-50G	16	2	50	200	16
TNU70-RH3-16R2.5-50G	16	2.5	50	200	16
TNU70-RH3-16R3-50G	16	3	50	200	16
TNU70-RH3-16R4-50G	16	4	50	200	16
TNU70-RH3-16R5-50G	16	5	50	200	16
TNU70-RH3-20R0.5-50G	20	0.5	50	200	20
TNU70-RH3-20R1-50G	20	1	50	200	20
TNU70-RH3-20R1.5-50G	20	1.5	50	200	20
TNU70-RH3-20R2-50G	20	2	50	200	20
TNU70-RH3-20R2.5-50G	20	2.5	50	200	20
TNU70-RH3-20R3-50G	20	3	50	200	20
TNU70-RH3-20R4-50G	20	4	50	200	20
TNU70-RH3-20R5-50G	20	5	50	200	20

## Концевая микрофреза



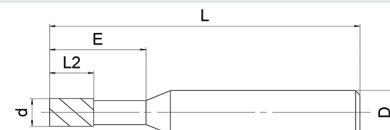
Артикул Tactic	d	L2	L	D
TNU70-ST2-0.1-0.2A	0.1	0.2	50	4
TNU70-ST2-0.15-0.3A	0.15	0.3	50	4
TNU70-ST2-0.2-0.4A	0.2	0.4	50	4
TNU70-ST2-0.25-0.5A	0.25	0.5	50	4
TNU70-ST2-0.3-0.6A	0.3	0.6	50	4
TNU70-ST2-0.4-0.8A	0.4	0.8	50	4
TNU70-ST2-0.5-1A	0.5	1	50	4
TNU70-ST2-0.6-1.2A	0.6	1.2	50	4
TNU70-ST2-0.7-1.4A	0.7	1.4	50	4
TNU70-ST2-0.8-1.6A	0.8	1.6	50	4
TNU70-ST2-0.9-1.8A	0.9	1.8	50	4

Концевая микрофреза  
сферическая



Артикул Tactic	R	L2	L	D
TNU70-BT2-0.1-0.2A	R0.05	0.2	50	4
TNU70-BT2-0.2-0.3A	R0.1	0.3	50	4
TNU70-BT2-0.3-0.4A	R0.15	0.4	50	4
TNU70-BT2-0.4-0.6A	R0.2	0.6	50	4
TNU70-BT2-0.5-0.75A	R0.25	0.75	50	4
TNU70-BT2-0.6-0.9A	R0.3	0.9	50	4
TNU70-BT2-0.7-1A	R0.35	1	50	4
TNU70-BT2-0.8-1.2A	R0.4	1.2	50	4
TNU70-BT2-0.9-1.3A	R0.45	1.3	50	4

## Концевая микрофреза с обнижением



Артикул Tactic	d	L2	E	L	D
TNU70-SN2-0.2-0.2N1A	0.2	0.2	1	50	4
TNU70-SN2-0.2-0.2N2A	0.2	0.2	2	50	4
TNU70-SN2-0.2-0.2N3A	0.2	0.2	3	50	4
TNU70-SN2-0.3-0.3N1A	0.3	0.3	1	50	4
TNU70-SN2-0.3-0.3N2A	0.3	0.3	2	50	4
TNU70-SN2-0.3-0.3N3A	0.3	0.3	3	50	4
TNU70-SN2-0.3-0.3N4A	0.3	0.3	4	50	4
TNU70-SN2-0.4-0.4N1A	0.4	0.4	1	50	4
TNU70-SN2-0.4-0.4N2A	0.4	0.4	2	50	4
TNU70-SN2-0.4-0.4N3A	0.4	0.4	3	50	4
TNU70-SN2-0.4-0.4N4A	0.4	0.4	4	50	4
TNU70-SN2-0.4-0.4N6A	0.4	0.4	6	50	4
TNU70-SN2-0.4-0.4N8A	0.4	0.4	8	50	4
TNU70-SN2-0.4-0.4N10A	0.4	0.4	10	50	4
TNU70-SN2-0.5-0.5N2A	0.5	0.5	2	50	4
TNU70-SN2-0.5-0.5N3A	0.5	0.5	3	50	4
TNU70-SN2-0.5-0.5N4A	0.5	0.5	4	50	4
TNU70-SN2-0.5-0.5N6A	0.5	0.5	6	50	4
TNU70-SN2-0.5-0.5N8A	0.5	0.5	8	50	4
TNU70-SN2-0.5-0.5N10A	0.5	0.5	10	50	4
TNU70-SN2-0.5-0.5N12A	0.5	0.5	12	50	4
TNU70-SN2-0.6-0.6N2A	0.6	0.6	2	50	4
TNU70-SN2-0.6-0.6N3A	0.6	0.6	3	50	4
TNU70-SN2-0.6-0.6N4A	0.6	0.6	4	50	4
TNU70-SN2-0.6-0.6N6A	0.6	0.6	6	50	4
TNU70-SN2-0.6-0.6N8A	0.6	0.6	8	50	4
TNU70-SN2-0.6-0.6N10A	0.6	0.6	10	50	4
TNU70-SN2-0.6-0.6N12A	0.6	0.6	12	50	4
TNU70-SN2-0.7-0.7N2A	0.7	0.7	2	50	4
TNU70-SN2-0.7-0.7N3A	0.7	0.7	3	50	4
TNU70-SN2-0.7-0.7N4A	0.7	0.7	4	50	4
TNU70-SN2-0.7-0.7N6A	0.7	0.7	6	50	4
TNU70-SN2-0.7-0.7N8A	0.7	0.7	8	50	4
TNU70-SN2-0.7-0.7N10A	0.7	0.7	10	50	4
TNU70-SN2-0.7-0.7N12A	0.7	0.7	12	50	4
TNU70-SN2-0.8-0.8N2A	0.8	0.8	2	50	4
TNU70-SN2-0.8-0.8N3A	0.8	0.8	3	50	4
TNU70-SN2-0.8-0.8N4A	0.8	0.8	4	50	4
TNU70-SN2-0.8-0.8N6A	0.8	0.8	6	50	4
TNU70-SN2-0.8-0.8N8A	0.8	0.8	8	50	4
TNU70-SN2-0.8-0.8N10A	0.8	0.8	10	50	4
TNU70-SN2-0.8-0.8N12A	0.8	0.8	12	50	4
TNU70-SN2-0.9-0.9N4A	0.9	0.9	4	50	4
TNU70-SN2-0.9-0.9N6A	0.9	0.9	6	50	4
TNU70-SN2-0.9-0.9N8A	0.9	0.9	8	50	4
TNU70-SN2-0.9-0.9N10A	0.9	0.9	10	50	4
TNU70-SN2-0.9-0.9N12A	0.9	0.9	12	50	4
TNU70-SN2-1-3N6A	1	3	6	50	4
TNU70-SN2-1-3N8A	1	3	8	50	4
TNU70-SN2-1-3N10A	1	3	10	50	4
TNU70-SN2-1-3N12A	1	3	12	50	4
TNU70-SN2-1-3N15A	1	3	15	50	4
TNU70-SN2-1-3N20A	1	3	20	50	4
TNU70-SN2-1.5-4.5N7A	1.5	4.5	7	50	4

Концевая микрофреза  
с обнижением

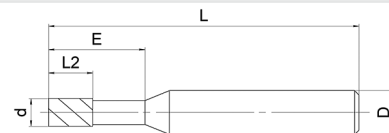


DLC



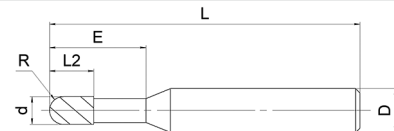
35°

45°



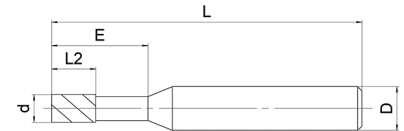
Артикул Tactic	d	L2	E	L	D
TNU70-SN2-1.5-4.5N10A	1.5	4.5	10	50	4
TNU70-SN2-1.5-4.5N12A	1.5	4.5	12	50	4
TNU70-SN2-1.5-4.5N15A	1.5	4.5	15	50	4
TNU70-SN2-1.5-4.5N20A	1.5	4.5	20	50	4
TNU70-SN2-2-6N10A	2	6	10	50	4
TNU70-SN2-2-6N12A	2	6	12	50	4
TNU70-SN2-2-6N15A	2	6	15	50	4
TNU70-SN2-2-6N20A	2	6	20	50	4
TNU70-SN2-2.5-7N12A	2.5	7	12	50	4
TNU70-SN2-2.5-7N15A	2.5	7	15	50	4
TNU70-SN2-2.5-7N20A	2.5	7	20	50	4
TNU70-SN2-3-8N12A	3	8	12	50	4
TNU70-SN2-3-8N15A	3	8	15	50	4
TNU70-SN2-3-8N20A	3	8	20	50	4
TNU70-SN2-3.5-10N12A	3.5	10	12	50	4
TNU70-SN2-3.5-10N15A	3.5	10	15	50	4
TNU70-SN2-3.5-10N20A	3.5	10	20	50	4

Концевая микрофреза  
сферическая с обнижением



Артикул Tactic	R	L2	E	L	D
TNU70-BN2-0.2-0.2N1A	R0.1	0.2	1	50	4
TNU70-BN2-0.2-0.2N2A	R0.1	0.2	2	50	4
TNU70-BN2-0.2-0.2N3A	R0.1	0.2	3	50	4
TNU70-BN2-0.3-0.3N1A	R0.15	0.3	1	50	4
TNU70-BN2-0.3-0.3N2A	R0.15	0.3	2	50	4
TNU70-BN2-0.3-0.3N3A	R0.15	0.3	3	50	4
TNU70-BN2-0.3-0.3N4A	R0.15	0.3	4	50	4
TNU70-BN2-0.4-0.4N1A	R0.2	0.4	1	50	4
TNU70-BN2-0.4-0.4N2A	R0.2	0.4	2	50	4
TNU70-BN2-0.4-0.4N3A	R0.2	0.4	3	50	4
TNU70-BN2-0.4-0.4N4A	R0.2	0.4	4	50	4
TNU70-BN2-0.4-0.4N6A	R0.2	0.4	6	50	4
TNU70-BN2-0.4-0.4N8A	R0.2	0.4	8	50	4
TNU70-BN2-0.4-0.4N10A	R0.2	0.4	10	50	4
TNU70-BN2-0.5-0.5N2A	R0.25	0.5	2	50	4
TNU70-BN2-0.5-0.5N3A	R0.25	0.5	3	50	4
TNU70-BN2-0.5-0.5N4A	R0.25	0.5	4	50	4
TNU70-BN2-0.5-0.5N6A	R0.25	0.5	6	50	4
TNU70-BN2-0.5-0.5N8A	R0.25	0.5	8	50	4
TNU70-BN2-0.5-0.5N10A	R0.25	0.5	10	50	4
TNU70-BN2-0.5-0.5N12A	R0.25	0.5	12	50	4
TNU70-BN2-0.6-0.6N2A	R0.3	0.6	2	50	4
TNU70-BN2-0.6-0.6N3A	R0.3	0.6	3	50	4
TNU70-BN2-0.6-0.6N4A	R0.3	0.6	4	50	4
TNU70-BN2-0.6-0.6N6A	R0.3	0.6	6	50	4
TNU70-BN2-0.6-0.6N8A	R0.3	0.6	8	50	4
TNU70-BN2-0.6-0.6N10A	R0.3	0.6	10	50	4
TNU70-BN2-0.6-0.6N12A	R0.3	0.6	12	50	4
TNU70-BN2-0.7-0.7N4A	R0.35	0.7	4	50	4
TNU70-BN2-0.7-0.7N6A	R0.35	0.7	6	50	4
TNU70-BN2-0.7-0.7N8A	R0.35	0.7	8	50	4
TNU70-BN2-0.7-0.7N10A	R0.35	0.7	10	50	4
TNU70-BN2-0.7-0.7N12A	R0.35	0.7	12	50	4
TNU70-BN2-0.8-0.8N3A	R0.4	0.8	3	50	4
TNU70-BN2-0.8-0.8N4A	R0.4	0.8	4	50	4
TNU70-BN2-0.8-0.8N6A	R0.4	0.8	6	50	4
TNU70-BN2-0.8-0.8N8A	R0.4	0.8	8	50	4
TNU70-BN2-0.8-0.8N10A	R0.4	0.8	10	50	4
TNU70-BN2-0.8-0.8N12A	R0.4	0.8	12	50	4

## Концевая микрофреза с обнижением



Артикул Tactic	d	L2	E	L	D
TNU70-SN3-1-3N6A	1	3	6	50	4
TNU70-SN3-1-3N8A	1	3	8	50	4
TNU70-SN3-1-3N10A	1	3	10	50	4
TNU70-SN3-1-3N12A	1	3	12	50	4
TNU70-SN3-1-3N15A	1	3	15	50	4
TNU70-SN3-1-3N20A	1	3	20	50	4
TNU70-SN3-1.5-4.5N8A	1.5	4.5	8	50	4
TNU70-SN3-1.5-4.5N10A	1.5	4.5	10	50	4
TNU70-SN3-1.5-4.5N12A	1.5	4.5	12	50	4
TNU70-SN3-1.5-4.5N15A	1.5	4.5	15	50	4
TNU70-SN3-1.5-4.5N20A	1.5	4.5	20	50	4
TNU70-SN3-2-6N8A	2	6	8	50	4
TNU70-SN3-2-6N10A	2	6	10	50	4
TNU70-SN3-2-6N12A	2	6	12	50	4
TNU70-SN3-2-6N15A	2	6	15	50	4
TNU70-SN3-2-6N20A	2	6	20	50	4
TNU70-SN3-2.5-7N12A	2.5	7	12	50	4
TNU70-SN3-2.5-7N15A	2.5	7	15	50	4
TNU70-SN3-2.5-7N20A	2.5	7	20	50	4
TNU70-SN3-3-8N12A	3	8	12	50	4
TNU70-SN3-3-8N15A	3	8	15	50	4
TNU70-SN3-3-8N20A	3	8	20	50	4
TNU70-SN3-3.5-10N12A	3.5	10	12	50	4
TNU70-SN3-3.5-10N15A	3.5	10	15	50	4
TNU70-SN3-3.5-10N20A	3.5	10	20	50	4

### Алюминиевые сплавы

Плоский торец	Начальные данные							
	Обработка торцов				Обработка стенок			
	f (мм/мин)	S (об/мин)	ae (мм)	ap (мм)	f (мм/мин)	S (об/мин)	ae (мм)	ap (мм)
D1.0	1600	10000	0.7	0.03	1500	10000	0.03	2
D2.0	1750	10000	1.4	0.05	1650	10000	0.06	4
D3.0	1950	9000	2.1	0.08	1800	9000	0.1	6
D4.0	2100	8500	2.8	0.1	2000	9000	0.12	8
D6.0	2400	8500	4.2	0.15	2300	9000	0.15	10
D8.0	2600	8000	5.6	0.2	2500	8500	0.18	15
D10.0	2800	8000	7	0.25	2600	8500	0.2	20
D12.0	3000	8000	8.4	0.28	2800	8500	0.22	25
D14.0	2800	6000	9.1	0.32	2500	8000	0.25	30
D16.0	2500	5000	10.4	0.35	2300	6500	0.28	35
D18.0	2200	4500	12.6	0.38	2100	6000	0.3	35
D20.0	2000	4000	14	0.4	2000	5000	0.32	35

### Алюминиевые сплавы

Сферическая	Начальные данные							
	Профильная обработка				Обработка пазов			
	f (мм/мин)	S (об/мин)	ae (мм)	ap (мм)	f (мм/мин)	S (об/мин)	ae (мм)	ap (мм)
R0.5	1500	15000	0.06	0.04	1200	15000	0	0.04
R0.75	1600	15000	0.07	0.06	1400	15000	0	0.05
R1.0	1750	10000	0.08	0.08	1600	12000	0	0.07
R1.5	1950	10000	0.08	0.1	1800	12000	0	0.08
R2.0	2000	9500	0.1	0.12	1900	10000	0	0.1
R3.0	2300	9000	0.2	0.15	2100	10000	0	0.12
R4.0	2600	8500	0.25	0.18	2200	9500	0	0.15
R5.0	3000	8000	0.3	0.2	2500	8500	0	0.18
R6.0	3200	7500	0.3	0.25	2800	8000	0	0.2
R7.0	2900	7000	0.35	0.28	2500	7500	0	0.22
R8.0	2800	7000	0.35	0.3	2400	7000	0	0.25
R10.0	2600	7000	0.35	0.32	2200	7000	0	0.25

### Алюминиевые сплавы

Сферическая	Начальные данные							
	Обработка торцов				Обработка стенок			
	f (мм/мин)	S (об/мин)	ae (мм)	ap (мм)	f (мм/мин)	S (об/мин)	ae (мм)	ap (мм)
D1R0.2	1600	11000	0.7	0.03	1450	12000	0.03	2
D2R0.5	1750	11000	1.4	0.05	1500	11000	0.06	4
D3R0.5	1850	9500	2.1	0.08	1650	10000	0.1	6
D4R0.5	2000	9000	2.8	0.1	1800	9500	0.12	8
D6R0.5	2100	8500	4.2	0.15	2200	9000	0.15	10
D8R0.5	2400	8000	5.6	0.2	2400	8500	0.18	15
D10R0.5	2600	8000	7	0.25	2600	8500	0.2	20
D12R0.5	2800	8000	8.4	0.28	2800	8500	0.22	25
D16R0.5	2500	6000	10.4	0.35	2300	6500	0.25	35
D18R0.5	2200	5000	12.6	0.38	2100	6000	0.28	35
D20R0.5	2000	4500	14	0.4	2000	5500	0.3	35

### Алюминиевые сплавы

Микрофрезы с плоским торцом	Начальные данные		
	Обработка торцов		
	f (мм/мин)	S (об/мин)	ap (мм)
0.1	100	30000	0.008
0.2	180	30000	0.01
0.3	250	30000	0.015
0.4	400	20000	0.018
0.5	550	20000	0.02
0.6	650	20000	0.03
0.7	700	20000	0.04
0.8	800	20000	0.05
0.9	1000	20000	0.06

### Алюминиевые сплавы

Микрофрезы сферические	Начальные данные		
	Обработка торцов		
	f (мм/мин)	S (об/мин)	ap (мм)
R0.1	200	30000	0.01
R0.15	280	30000	0.015
R0.2	320	30000	0.02
R0.25	450	20000	0.025
R0.3	520	20000	0.03
R0.35	600	20000	0.04
R0.4	650	20000	0.05
R0.45	800	20000	0.05

Алюминиевые сплавы				
Микрофрезы с плоским торцом для глубоких пазов		Начальные данные		
		Обработка торцов		
		f (мм/мин)	S (об/мин)	ap (мм)
0.1	Короткая рабочая часть с обнижением	90	28000	0.006
0.2		160	28000	0.008
0.3		200	25000	0.01
0.4		350	18000	0.015
0.5		450	18000	0.015
0.6		500	15000	0.018
0.7		600	15000	0.02
0.8		700	12000	0.025
0.9		800	12000	0.03

Алюминиевые сплавы				
Микрофрезы сферические для глубоких пазов		Начальные данные		
		Обработка торцов		
		f (мм/мин)	S (об/мин)	ap (мм)
R0.1	Короткая рабочая часть с обнижением	200	28000	0.008
R0.15		280	25000	0.01
R0.2		320	18000	0.018
R0.25		450	18000	0.02
R0.3		520	15000	0.025
R0.35		600	15000	0.025
R0.4		650	12000	0.03
R0.45		800	12000	0.035

Алюминиевые сплавы								
Плоский торец	Эффективная длина	Начальные данные						
		Обработка торцов			Обработка стенок			
		f (мм/мин)	S (об/мин)	ap (мм)	f (мм/мин)	S (об/мин)	ae (мм)	
1	4	1800	12000	0.07	1650	12000	0.1	
	6	1600	11000	0.05	1450	11000	0.07	
	8	1500	10000	0.04	1200	10000	0.06	
	10	1200	9500	0.03	1000	10000	0.05	
2	10	2000	10000	0.12	1800	10000	0.15	
	12	1750	9500	0.08	1500	10000	0.012	
	16	1500	8500	0.06	1300	9000	0.08	
	20	1200	8000	0.05	1200	8500	0.08	
3	10	2000	8500	0.15	1800	8500	0.2	
	12	1800	7500	0.1	1600	8000	0.15	
	16	1600	7000	0.08	1500	7500	0.1	
	20	1500	7000	0.06	1200	7500	0.08	

Алюминиевые сплавы				
Сферическая	Эффективная длина	Начальные данные		
		Обработка торцов		
		f (мм/мин)	S (об/мин)	ap (мм)
R0.5	4	1500	11000	0.1
	6	1300	10000	0.07
	8	1200	9500	0.05
	10	1000	9000	0.05
R0.75	10	1800	9500	0.12
	12	1600	9000	0.1
	16	1500	8500	0.08
	20	1500	8500	0.06
R1.0	10	2000	9500	0.15
	12	1800	9000	0.12
	16	1600	8500	0.1
	20	1450	8000	0.08
R1.5	10	2200	9000	0.18
	12	2000	8500	0.15
	16	1800	8000	0.12
	20	1600	7500	0.1

Алюминиевые сплавы								
Радиус при вершине	Эффективная длина	Начальные данные						
		Обработка торцов			Обработка стенок			
		f (мм/мин)	S (об/мин)	ap (мм)	f (мм/мин)	S (об/мин)	ae (мм)	
1R0.2	4	1750	12000	0.08	1600	12000	0.12	
	6	1450	11000	0.06	1400	11000	0.1	
	8	1350	10000	0.05	1200	10000	0.08	
	10	1100	9500	0.04	1000	10000	0.065	
2R0.2	10	2000	10000	0.12	1800	10000	0.15	
	12	1750	9500	0.1	1500	10000	0.12	
	16	1500	8500	0.08	1300	9000	0.1	
	20	1200	8000	0.06	1200	8500	0.1	
3R0.2	10	2000	8500	0.15	1800	8500	0.18	
	12	1800	7500	0.12	1600	8000	0.15	
	16	1600	7000	0.1	1500	7500	0.12	
	20	1500	7000	0.07	1200	7500	0.1	

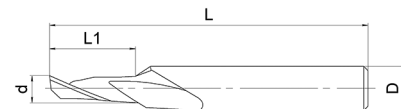
# TNO10

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Фрезы для обработки цветных материалов, однозубые



## Концевая фреза



Артикул Tactic	d	L1	L	D
TNO10-ST1-1-4A-S4	1	4	50	4
TNO10-ST1-1-4A	1	4	50	6
TNO10-ST1-1-8A	1	8	50	6
TNO10-ST1-1.5-8A-S4	1.5	8	50	4
TNO10-ST1-1.5-8A	1.5	8	50	6
TNO10-ST1-1.5-12A	1.5	12	50	6
TNO10-ST1-2-6A-S4	2	6	50	4
TNO10-ST1-2-8A	2	8	50	6
TNO10-ST1-2-16A	2	16	50	6
TNO10-ST1-2.5-8A	2.5	8	50	4
TNO10-ST1-2.5-16A	2.5	16	50	6
TNO10-ST1-3-8A	3	8	50	3
TNO10-ST1-3-20B	3	20	60	6
TNO10-ST1-4-11A	4	11	50	4
TNO10-ST1-4-20B	4	20	60	6
TNO10-ST1-5-20B	5	20	60	6
TNO10-ST1-6-15A	6	15	50	6
TNO10-ST1-8-20B	8	20	60	8
TNO10-ST1-10-30C	10	30	75	10
TNO10-ST1-12-30C	12	30	75	12
TNO10-ST1-16-40D	16	40	100	16
TNO10-ST1-18-45D	18	45	100	18
TNO10-ST1-20-45D	20	45	100	20
TNO10-ST1-3-12C	3	12	75	3
TNO10-ST1-4-15C	4	15	75	4
TNO10-ST1-5-30C	5	30	75	6
TNO10-ST1-6-20C	6	20	75	6
TNO10-ST1-8-30C	8	30	75	8
TNO10-ST1-4-20D	4	20	100	4
TNO10-ST1-5-30D	5	30	100	6
TNO10-ST1-6-30D	6	30	100	6
TNO10-ST1-8-40D	8	40	100	8
TNO10-ST1-10-40D	10	40	100	10
TNO10-ST1-12-40D	12	40	100	12

## Алюминиевые сплавы

Диаметр фрезы	Начальные данные							
	Обработка торцов				Обработка стенок			
	f (мм/мин)	S (об/мин)	ae (мм)	ap (мм)	f (мм/мин)	S (об/мин)	ae (мм)	ap (мм)
D1.0	1000	45000	1	0.5	1450	45000	0.1	1.5
D2.0	1100	38000	2	1	1500	38000	0.2	3
D3.0	1200	35000	3	1.5	1700	35000	0.3	4.5
D4.0	1200	25000	4	2	2000	25000	0.4	6
D6.0	1500	20000	6	3	2200	20000	0.6	9
D8.0	1600	15000	8	4	2500	15000	0.8	12
D10.0	1800	10000	10	5	2800	10000	1	15
D12.0	1900	9000	12	6	3000	9000	1.2	18
D14.0	2000	9000	14	7	3000	9000	1.4	21
D16.0	2000	7800	16	8	3000	7800	1.6	24
D18.0	2000	6800	18	9	2800	6800	1.8	27
D20.0	2000	5800	20	10	2800	5800	2	30

# TNC70

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Фрезы для обработки медных сплавов

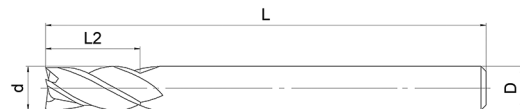


## Концевая фреза



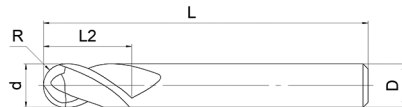
Артикул Tactic	d	L2	L	D
TNC70-ST4-1-3A	1	3	50	4
TNC70-ST4-1.5-4.5A	1.5	4.5	50	4
TNC70-ST4-2-6A	2	6	50	4
TNC70-ST4-2.5-7A	2.5	7	50	4
TNC70-ST4-3-8A	3	8	50	4
TNC70-ST4-3.5-10A	3.5	10	50	4
TNC70-ST4-4-11A	4	11	50	4
TNC70-ST4-4.5-13A	4.5	13	50	6
TNC70-ST4-5-13A	5	13	50	6
TNC70-ST4-5.5-13A	5.5	13	50	6
TNC70-ST4-6-15A	6	15	50	6
TNC70-ST4-6.5-17B	6.5	17	60	8
TNC70-ST4-7-17B	7	17	60	8
TNC70-ST4-7.5-17B	7.5	17	60	8
TNC70-ST4-8-20B	8	20	60	8
TNC70-ST4-8.5-23C	8.5	23	75	10
TNC70-ST4-9-23C	9	23	75	10
TNC70-ST4-9.5-25C	9.5	25	75	10
TNC70-ST4-10-25C	10	25	75	10
TNC70-ST4-10.5-25C	10.5	25	75	12
TNC70-ST4-11-28C	11	28	75	12
TNC70-ST4-11.5-28C	11.5	28	75	12
TNC70-ST4-12-30C	12	30	75	12
TNC70-ST4-13-33D	13	33	100	14
TNC70-ST4-14-35D	14	35	100	14
TNC70-ST4-15-38D	15	38	100	16
TNC70-ST4-16-40D	16	40	100	16
TNC70-ST4-17-40D	17	40	100	18
TNC70-ST4-18-40D	18	40	100	18
TNC70-ST4-19-40D	19	40	100	20
TNC70-ST4-20-40D	20	40	100	20
TNC70-ST4-22-44D	22	44	100	25
TNC70-ST4-25-50D	25	50	100	25

Концевая фреза  
с удлиненным хвостовиком



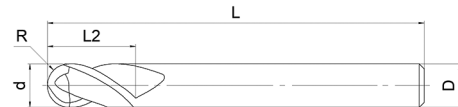
Артикул Tactic	d	L2	L	D
TNC70-SH4-1-3C	1	3	75	4
TNC70-SH4-1.5-4.5C	1.5	4.5	75	4
TNC70-SH4-2-6C	2	6	75	4
TNC70-SH4-2.5-7C	2.5	7	75	4
TNC70-SH4-3-8C	3	8	75	4
TNC70-SH4-3.5-10C	3.5	10	75	4
TNC70-SH4-4-11C	4	11	75	4
TNC70-SH4-4.5-13C	4.5	13	75	6
TNC70-SH4-5-15C	5	15	75	6
TNC70-SH4-5.5-15C	5.5	15	75	6
TNC70-SH4-6-15C	6	15	75	6
TNC70-SH4-6.5-17C	6.5	17	75	8
TNC70-SH4-7-17C	7	17	75	8
TNC70-SH4-7.5-17C	7.5	17	75	8
TNC70-SH4-8-20C	8	20	75	8
TNC70-SH4-3-8D	3	8	100	4
TNC70-SH4-4-11D	4	11	100	4
TNC70-SH4-5-15D	5	15	100	6
TNC70-SH4-6-15D	6	15	100	6
TNC70-SH4-7-17D	7	17	100	8
TNC70-SH4-8-20D	8	20	100	8
TNC70-SH4-9-23D	9	23	100	10
TNC70-SH4-10-30D	10	30	100	10
TNC70-SH4-11-30D	11	30	100	12
TNC70-SH4-12-30D	12	30	100	12
TNC70-SH4-10-40E	10	40	120	10
TNC70-SH4-12-45E	12	45	120	12
TNC70-SH4-8-40F	8	40	150	8
TNC70-SH4-10-50F	10	50	150	10
TNC70-SH4-12-50F	12	50	150	12
TNC70-SH4-16-65F	16	65	150	16
TNC70-SH4-18-65F	18	65	150	18
TNC70-SH4-20-75F	20	75	150	20
TNC70-SH4-10-60G	10	60	200	10
TNC70-SH4-12-80G	12	80	200	12
TNC70-SH4-16-80G	16	80	200	16
TNC70-SH4-20-100G	20	100	200	20

Концевая фреза  
сферическая



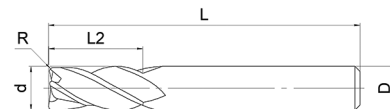
Артикул Tactic	R	L2	L	D
TNC70-BT2-1-1.5A	R0.5	1.5	50	4
TNC70-BT2-1.5-2.25A	R0.75	2.25	50	4
TNC70-BT2-2-3A	R1	3	50	4
TNC70-BT2-2.5-3.75A	R1.25	3.75	50	4
TNC70-BT2-3-4.5A	R1.5	4.5	50	4
TNC70-BT2-3.5-5.25A	R1.75	5.25	50	4
TNC70-BT2-4-6A	R2	6	50	4
TNC70-BT2-4.5-6.75A	R2.25	6.75	50	6
TNC70-BT2-5-7.5A	R2.5	7.5	50	6
TNC70-BT2-5.5-8.25A	R2.75	8.25	50	6
TNC70-BT2-6-9A	R3	9	50	6
TNC70-BT2-6.5-9.75B	R3.25	9.75	60	8
TNC70-BT2-7-10.5B	R3.5	10.5	60	8
TNC70-BT2-7.5-11.25B	R3.75	11.25	60	8
TNC70-BT2-8-12B	R4	12	60	8
TNC70-BT2-9-13.5C	R4.5	13.5	75	10
TNC70-BT2-10-15C	R5	15	75	10
TNC70-BT2-12-18C	R6	18	75	12
TNC70-BT2-16-24D	R8	24	100	16
TNC70-BT2-20-30D	R10	30	100	20
TNC70-BT2-25-37.5D	R12.5	37.5	100	25

Концевая фреза сферическая  
с удлиненным хвостовиком



Артикул Tactic	R	L2	L	D
TNC70-BH2-1-1.5C	R0.5	1.5	75	4
TNC70-BH2-1.5-2.25C	R0.75	2.25	75	4
TNC70-BH2-2-3C	R1	3	75	4
TNC70-BH2-2.5-3.75C	R1.25	3.75	75	4
TNC70-BH2-3-4.5C	R1.5	4.5	75	4
TNC70-BH2-3.5-5.25C	R1.75	5.25	75	4
TNC70-BH2-4-6C	R2	6	75	4
TNC70-BH2-4.5-6.75C	R2.25	6.75	75	6
TNC70-BH2-5-7.5C	R2.5	7.5	75	6
TNC70-BH2-5.5-8.25C	R2.75	8.25	75	6
TNC70-BH2-6-9C	R3	9	75	6
TNC70-BH2-8-12C	R4	12	75	8
TNC70-BH2-1-1.5D	R0.5	1.5	100	4
TNC70-BH2-1.5-2.25D	R0.75	2.25	100	4
TNC70-BH2-2-3D	R1	3	100	4
TNC70-BH2-2.5-3.75D	R1.25	3.75	100	4
TNC70-BH2-3-4.5D	R1.5	4.5	100	4
TNC70-BH2-3.5-5.25D	R1.75	5.25	100	4
TNC70-BH2-4-6D	R2	6	100	4
TNC70-BH2-4.5-6.75D	R2.25	6.75	100	6
TNC70-BH2-5-7.5D	R2.5	7.5	100	6
TNC70-BH2-5.5-8.25D	R2.75	8.25	100	6
TNC70-BH2-6-9D	R3	9	100	6
TNC70-BH2-8-12D	R4	12	100	8
TNC70-BH2-10-15D	R5	15	100	10
TNC70-BH2-12-18D	R6	18	100	12
TNC70-BH2-6-9F	R3	9	150	6
TNC70-BH2-8-12F	R4	12	150	8
TNC70-BH2-10-15F	R5	15	150	10
TNC70-BH2-12-18F	R6	18	150	12
TNC70-BH2-16-24F	R8	24	150	16
TNC70-BH2-20-30F	R10	30	150	20
TNC70-BH2-8-12G	R4	12	200	8
TNC70-BH2-10-15G	R5	15	200	10
TNC70-BH2-12-18G	R6	18	200	12
TNC70-BH2-16-24G	R8	24	200	16
TNC70-BH2-20-30G	R10	30	200	20

## Концевая фреза



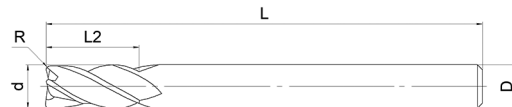
Артикул Tactic	d	R	L2	L	D
TNC70-RT4-1R0.1-3A	1	0.1	3	50	4
TNC70-RT4-1R0.2-3A	1	0.2	3	50	4
TNC70-RT4-1R0.3-3A	1	0.3	3	50	4
TNC70-RT4-1.5R0.1-4.5A	1.5	0.1	4.5	50	4
TNC70-RT4-1.5R0.2-4.5A	1.5	0.2	4.5	50	4
TNC70-RT4-1.5R0.3-4.5A	1.5	0.3	4.5	50	4
TNC70-RT4-1.5R0.5-4.5A	1.5	0.5	4.5	50	4
TNC70-RT4-2R0.1-6A	2	0.1	6	50	4
TNC70-RT4-2R0.2-6A	2	0.2	6	50	4
TNC70-RT4-2R0.3-6A	2	0.3	6	50	4
TNC70-RT4-2R0.5-6A	2	0.5	6	50	4
TNC70-RT4-2.5R0.1-7.5A	2.5	0.1	7.5	50	4
TNC70-RT4-2.5R0.2-7.5A	2.5	0.2	7.5	50	4
TNC70-RT4-2.5R0.3-7.5A	2.5	0.3	7.5	50	4
TNC70-RT4-2.5R0.5-7.5A	2.5	0.5	7.5	50	4
TNC70-RT4-3R0.1-8A	3	0.1	8	50	4
TNC70-RT4-3R0.2-8A	3	0.2	8	50	4
TNC70-RT4-3R0.3-8A	3	0.3	8	50	4
TNC70-RT4-3R0.5-8A	3	0.5	8	50	4
TNC70-RT4-3R1-8A	3	1	8	50	4
TNC70-RT4-4R0.1-11A	4	0.1	11	50	4
TNC70-RT4-4R0.2-11A	4	0.2	11	50	4
TNC70-RT4-4R0.3-11A	4	0.3	11	50	4
TNC70-RT4-4R0.5-11A	4	0.5	11	50	4
TNC70-RT4-4R1-11A	4	1	11	50	4
TNC70-RT4-5R0.2-13A	5	0.2	13	50	5
TNC70-RT4-5R0.5-13A	5	0.5	13	50	5
TNC70-RT4-5R1-13A	5	1	13	50	5
TNC70-RT4-6R0.1-15A	6	0.1	15	50	6
TNC70-RT4-6R0.2-15A	6	0.2	15	50	6
TNC70-RT4-6R0.3-15A	6	0.3	15	50	6
TNC70-RT4-6R0.5-15A	6	0.5	15	50	6
TNC70-RT4-6R1-15A	6	1	15	50	6
TNC70-RT4-6R1.5-15A	6	1.5	15	50	6
TNC70-RT4-6R2-15A	6	2	15	50	6
TNC70-RT4-8R0.2-20B	8	0.2	20	60	8
TNC70-RT4-8R0.3-20B	8	0.3	20	60	8
TNC70-RT4-8R0.5-20B	8	0.5	20	60	8
TNC70-RT4-8R1-20B	8	1	20	60	8
TNC70-RT4-8R1.5-20B	8	1.5	20	60	8
TNC70-RT4-8R2-20B	8	2	20	60	8
TNC70-RT4-8R2.5-20B	8	2.5	20	60	8
TNC70-RT4-8R3-20B	8	3	20	60	8
TNC70-RT4-10R0.2-25C	10	0.2	25	75	10
TNC70-RT4-10R0.3-25C	10	0.3	25	75	10
TNC70-RT4-10R0.5-25C	10	0.5	25	75	10
TNC70-RT4-10R1-25C	10	1	25	75	10
TNC70-RT4-10R1.5-25C	10	1.5	25	75	10
TNC70-RT4-10R2-25C	10	2	25	75	10
TNC70-RT4-10R2.5-25C	10	2.5	25	75	10
TNC70-RT4-10R3-25C	10	3	25	75	10
TNC70-RT4-10R4-25C	10	4	25	75	10
TNC70-RT4-12R0.2-30C	12	0.2	30	75	12
TNC70-RT4-12R0.3-30C	12	0.3	30	75	12

## Концевая фреза



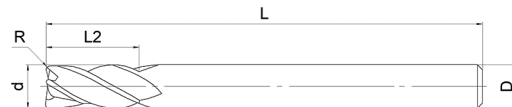
Артикул Tactic	d	R	L2	L	D
TNC70-RT4-12R0.5-30C	12	0.5	30	75	12
TNC70-RT4-12R1-30C	12	1	30	75	12
TNC70-RT4-12R1.5-30C	12	1.5	30	75	12
TNC70-RT4-12R2-30C	12	2	30	75	12
TNC70-RT4-12R2.5-30C	12	2.5	30	75	12
TNC70-RT4-12R3-30C	12	3	30	75	12
TNC70-RT4-12R4-30C	12	4	30	75	12
TNC70-RT4-12R5-30C	12	5	30	75	12
TNC70-RT4-14R0.5-35D	14	0.5	35	100	14
TNC70-RT4-14R1-35D	14	1	35	100	14
TNC70-RT4-14R1.5-35D	14	1.5	35	100	14
TNC70-RT4-14R2-35D	14	2	35	100	14
TNC70-RT4-14R2.5-35D	14	2.5	35	100	14
TNC70-RT4-14R3-35D	14	3	35	100	14
TNC70-RT4-14R4-35D	14	4	35	100	14
TNC70-RT4-14R5-35D	14	5	35	100	14
TNC70-RT4-16R0.5-40D	16	0.5	40	100	16
TNC70-RT4-16R1-40D	16	1	40	100	16
TNC70-RT4-16R1.5-40D	16	1.5	40	100	16
TNC70-RT4-16R2-40D	16	2	40	100	16
TNC70-RT4-16R2.5-40D	16	2.5	40	100	16
TNC70-RT4-16R3-40D	16	3	40	100	16
TNC70-RT4-16R4-40D	16	4	40	100	16
TNC70-RT4-16R5-40D	16	5	40	100	16
TNC70-RT4-20R0.5-45D	20	0.5	45	100	20
TNC70-RT4-20R1-45D	20	1	45	100	20
TNC70-RT4-20R1.5-45D	20	1.5	45	100	20
TNC70-RT4-20R2-45D	20	2	45	100	20
TNC70-RT4-20R2.5-45D	20	2.5	45	100	20
TNC70-RT4-20R3-45D	20	3	45	100	20
TNC70-RT4-20R4-45D	20	4	45	100	20
TNC70-RT4-20R5-45D	20	5	45	100	20

Концевая фреза  
с удлиненным хвостовиком



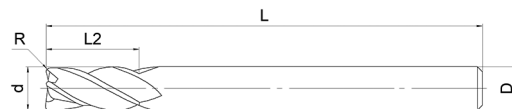
Артикул Tactic	d	R	L2	L	D
TNC70-RH4-1R0.1-3C	1	0.1	3	75	4
TNC70-RH4-1R0.2-3C	1	0.2	3	75	4
TNC70-RH4-1R0.3-3C	1	0.3	3	75	4
TNC70-RH4-1.5R0.1-4.5C	1.5	0.1	4.5	75	4
TNC70-RH4-1.5R0.2-4.5C	1.5	0.2	4.5	75	4
TNC70-RH4-1.5R0.3-4.5C	1.5	0.3	4.5	75	4
TNC70-RH4-1.5R0.5-4.5C	1.5	0.5	4.5	75	4
TNC70-RH4-2R0.1-6C	2	0.1	6	75	4
TNC70-RH4-2R0.2-6C	2	0.2	6	75	4
TNC70-RH4-2R0.3-6C	2	0.3	6	75	4
TNC70-RH4-2R0.5-6C	2	0.5	6	75	4
TNC70-RH4-2.5R0.1-7.5C	2.5	0.1	7.5	75	4
TNC70-RH4-2.5R0.2-7.5C	2.5	0.2	7.5	75	4
TNC70-RH4-2.5R0.3-7.5C	2.5	0.3	7.5	75	4
TNC70-RH4-2.5R0.5-7.5C	2.5	0.5	7.5	75	4
TNC70-RH4-3R0.1-8C	3	0.1	8	75	4
TNC70-RH4-3R0.2-8C	3	0.2	8	75	4
TNC70-RH4-3R0.3-8C	3	0.3	8	75	4
TNC70-RH4-3R0.5-8C	3	0.5	8	75	4
TNC70-RH4-3R1-8C	3	1	8	75	4
TNC70-RH4-4R0.1-11C	4	0.1	11	75	4
TNC70-RH4-4R0.2-11C	4	0.2	11	75	4
TNC70-RH4-4R0.3-11C	4	0.3	11	75	4
TNC70-RH4-4R0.5-11C	4	0.5	11	75	4
TNC70-RH4-4R1-11C	4	1	11	75	4
TNC70-RH4-5R0.2-15C	5	0.2	15	75	5
TNC70-RH4-5R0.5-15C	5	0.5	15	75	5
TNC70-RH4-5R1-15C	5	1	15	75	5
TNC70-RH4-6R0.1-15C	6	0.1	15	75	6
TNC70-RH4-6R0.2-15C	6	0.2	15	75	6
TNC70-RH4-6R0.3-15C	6	0.3	15	75	6
TNC70-RH4-6R0.5-15C	6	0.5	15	75	6
TNC70-RH4-6R1-15C	6	1	15	75	6
TNC70-RH4-6R1.5-15C	6	1.5	15	75	6
TNC70-RH4-6R2-15C	6	2	15	75	6
TNC70-RH4-8R0.2-20C	8	0.2	20	75	8
TNC70-RH4-8R0.3-20C	8	0.3	20	75	8
TNC70-RH4-8R0.5-20C	8	0.5	20	75	8
TNC70-RH4-8R1-20C	8	1	20	75	8
TNC70-RH4-8R1.5-20C	8	1.5	20	75	8
TNC70-RH4-8R2-20C	8	2	20	75	8
TNC70-RH4-8R2.5-20C	8	2.5	20	75	8
TNC70-RH4-8R3-20C	8	3	20	75	8
TNC70-RH4-1R0.1-3D	1	0.1	3	100	4
TNC70-RH4-1R0.2-3D	1	0.2	3	100	4
TNC70-RH4-1R0.3-3D	1	0.3	3	100	4
TNC70-RH4-1.5R0.1-4.5D	1.5	0.1	4.5	100	4
TNC70-RH4-1.5R0.2-4.5D	1.5	0.2	4.5	100	4
TNC70-RH4-1.5R0.3-4.5D	1.5	0.3	4.5	100	4
TNC70-RH4-1.5R0.5-4.5D	1.5	0.5	4.5	100	4
TNC70-RH4-2R0.1-6D	2	0.1	6	100	4
TNC70-RH4-2R0.2-6D	2	0.2	6	100	4
TNC70-RH4-2R0.3-6D	2	0.3	6	100	4
TNC70-RH4-2R0.5-6D	2	0.5	6	100	4

## Концевая фреза с удлиненным хвостовиком



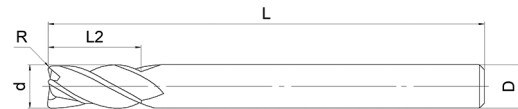
Артикул Tactic	d	R	L2	L	D
TNC70-RH4-2.5R0.1-7.5D	2.5	0.1	7.5	100	4
TNC70-RH4-2.5R0.2-7.5D	2.5	0.2	7.5	100	4
TNC70-RH4-2.5R0.3-7.5D	2.5	0.3	7.5	100	4
TNC70-RH4-2.5R0.5-7.5D	2.5	0.5	7.5	100	4
TNC70-RH4-3R0.1-8D	3	0.1	8	100	4
TNC70-RH4-3R0.2-8D	3	0.2	8	100	4
TNC70-RH4-3R0.3-8D	3	0.3	8	100	4
TNC70-RH4-3R0.5-8D	3	0.5	8	100	4
TNC70-RH4-3R1-8D	3	1	8	100	4
TNC70-RH4-4R0.1-11D	4	0.1	11	100	4
TNC70-RH4-4R0.2-11D	4	0.2	11	100	4
TNC70-RH4-4R0.3-11D	4	0.3	11	100	4
TNC70-RH4-4R0.5-11D	4	0.5	11	100	4
TNC70-RH4-4R1-11D	4	1	11	100	4
TNC70-RH4-5R0.2-15D	5	0.2	15	100	5
TNC70-RH4-5R0.5-15D	5	0.5	15	100	5
TNC70-RH4-5R1-15D	5	1	15	100	5
TNC70-RH4-6R0.1-15D	6	0.1	15	100	6
TNC70-RH4-6R0.2-15D	6	0.2	15	100	6
TNC70-RH4-6R0.3-15D	6	0.3	15	100	6
TNC70-RH4-6R0.5-15D	6	0.5	15	100	6
TNC70-RH4-6R1-15D	6	1	15	100	6
TNC70-RH4-6R1.5-15D	6	1.5	15	100	6
TNC70-RH4-6R2-15D	6	2	15	100	6
TNC70-RH4-8R0.2-20D	8	0.2	20	100	8
TNC70-RH4-8R0.3-20D	8	0.3	20	100	8
TNC70-RH4-8R0.5-20D	8	0.5	20	100	8
TNC70-RH4-8R1-20D	8	1	20	100	8
TNC70-RH4-8R1.5-20D	8	1.5	20	100	8
TNC70-RH4-8R2-20D	8	2	20	100	8
TNC70-RH4-8R2.5-20D	8	2.5	20	100	8
TNC70-RH4-8R3-20D	8	3	20	100	8
TNC70-RH4-10R0.2-30D	10	0.2	30	100	10
TNC70-RH4-10R0.3-30D	10	0.3	30	100	10
TNC70-RH4-10R0.5-30D	10	0.5	30	100	10
TNC70-RH4-10R1-30D	10	1	30	100	10
TNC70-RH4-10R1.5-30D	10	1.5	30	100	10
TNC70-RH4-10R2-30D	10	2	30	100	10
TNC70-RH4-10R2.5-30D	10	2.5	30	100	10
TNC70-RH4-10R3-30D	10	3	30	100	10
TNC70-RH4-10R4-30D	10	4	30	100	10
TNC70-RH4-12R0.2-30D	12	0.2	30	100	12
TNC70-RH4-12R0.3-30D	12	0.3	30	100	12
TNC70-RH4-12R0.5-30D	12	0.5	30	100	12
TNC70-RH4-12R1-30D	12	1	30	100	12
TNC70-RH4-12R1.5-30D	12	1.5	30	100	12
TNC70-RH4-12R2-30D	12	2	30	100	12
TNC70-RH4-12R2.5-30D	12	2.5	30	100	12
TNC70-RH4-12R3-30D	12	3	30	100	12
TNC70-RH4-12R4-30D	12	4	30	100	12
TNC70-RH4-12R5-30D	12	5	30	100	12
TNC70-RH4-8R0.2-30E	8	0.2	30	120	8
TNC70-RH4-8R0.3-30E	8	0.3	30	120	8
TNC70-RH4-8R0.5-30E	8	0.5	30	120	8

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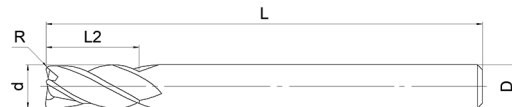
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TNC70-RH4-8R1.5-30E	8	1.5	30	120	8
TNC70-RH4-8R2-30E	8	2	30	120	8
TNC70-RH4-8R2.5-30E	8	2.5	30	120	8
TNC70-RH4-8R3-30E	8	3	30	120	8
TNC70-RH4-10R0.2-30E	10	0.2	30	120	10
TNC70-RH4-10R0.3-30E	10	0.3	30	120	10
TNC70-RH4-10R0.5-30E	10	0.5	30	120	10
TNC70-RH4-10R1-30E	10	1	30	120	10
TNC70-RH4-10R1.5-30E	10	1.5	30	120	10
TNC70-RH4-10R2-30E	10	2	30	120	10
TNC70-RH4-10R2.5-30E	10	2.5	30	120	10
TNC70-RH4-10R3-30E	10	3	30	120	10
TNC70-RH4-10R4-30E	10	4	30	120	10
TNC70-RH4-12R0.2-30E	12	0.2	30	120	12
TNC70-RH4-12R0.3-30E	12	0.3	30	120	12
TNC70-RH4-12R0.5-30E	12	0.5	30	120	12
TNC70-RH4-12R1-30E	12	1	30	120	12
TNC70-RH4-12R1.5-30E	12	1.5	30	120	12
TNC70-RH4-12R2-30E	12	2	30	120	12
TNC70-RH4-12R2.5-30E	12	2.5	30	120	12
TNC70-RH4-12R3-30E	12	3	30	120	12
TNC70-RH4-12R4-30E	12	4	30	120	12
TNC70-RH4-12R5-30E	12	5	30	120	12
TNC70-RH4-6R0.1-30F	6	0.1	30	150	6
TNC70-RH4-6R0.2-30F	6	0.2	30	150	6
TNC70-RH4-6R0.3-30F	6	0.3	30	150	6
TNC70-RH4-6R0.5-30F	6	0.5	30	150	6
TNC70-RH4-6R1-30F	6	1	30	150	6
TNC70-RH4-6R1.5-30F	6	1.5	30	150	6
TNC70-RH4-6R2-30F	6	2	30	150	6
TNC70-RH4-8R0.2-30F	8	0.2	30	150	8
TNC70-RH4-8R0.3-30F	8	0.3	30	150	8
TNC70-RH4-8R0.5-30F	8	0.5	30	150	8
TNC70-RH4-8R1-30F	8	1	30	150	8
TNC70-RH4-8R1.5-30F	8	1.5	30	150	8
TNC70-RH4-8R2-30F	8	2	30	150	8
TNC70-RH4-8R2.5-30F	8	2.5	30	150	8
TNC70-RH4-8R3-30F	8	3	30	150	8
TNC70-RH4-10R0.2-35F	10	0.2	35	150	10
TNC70-RH4-10R0.3-35F	10	0.3	35	150	10
TNC70-RH4-10R0.5-35F	10	0.5	35	150	10
TNC70-RH4-10R1-35F	10	1	35	150	10
TNC70-RH4-10R1.5-35F	10	1.5	35	150	10
TNC70-RH4-10R2-35F	10	2	35	150	10
TNC70-RH4-10R2.5-35F	10	2.5	35	150	10
TNC70-RH4-10R3-35F	10	3	35	150	10
TNC70-RH4-10R4-35F	10	4	35	150	10
TNC70-RH4-12R0.2-35F	12	0.2	35	150	12
TNC70-RH4-12R0.3-35F	12	0.3	35	150	12
TNC70-RH4-12R0.5-35F	12	0.5	35	150	12
TNC70-RH4-12R1-35F	12	1	35	150	12
TNC70-RH4-12R1.5-35F	12	1.5	35	150	12
TNC70-RH4-12R2-35F	12	2	35	150	12

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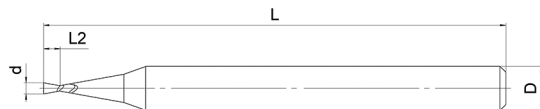
Артикул Tactic	d	R	L2	L	D
TNC70-RH4-12R2.5-35F	12	2.5	35	150	12
TNC70-RH4-12R3-35F	12	3	35	150	12
TNC70-RH4-12R4-35F	12	4	35	150	12
TNC70-RH4-12R5-35F	12	5	35	150	12
TNC70-RH4-14R0.5-40F	14	0.5	40	150	14
TNC70-RH4-14R1-40F	14	1	40	150	14
TNC70-RH4-14R1.5-40F	14	1.5	40	150	14
TNC70-RH4-14R2-40F	14	2	40	150	14
TNC70-RH4-14R2.5-40F	14	2.5	40	150	14
TNC70-RH4-14R3-40F	14	3	40	150	14
TNC70-RH4-14R4-40F	14	4	40	150	14
TNC70-RH4-16R5-40F	16	5	40	150	16
TNC70-RH4-16R0.5-40F	16	0.5	40	150	16
TNC70-RH4-16R1-40F	16	1	40	150	16
TNC70-RH4-16R1.5-40F	16	1.5	40	150	16
TNC70-RH4-16R2-40F	16	2	40	150	16
TNC70-RH4-16R2.5-40F	16	2.5	40	150	16
TNC70-RH4-16R3-40F	16	3	40	150	16
TNC70-RH4-16R4-40F	16	4	40	150	16
TNC70-RH4-16R5-40F	16	5	40	150	16
TNC70-RH4-20R0.5-50F	20	0.5	50	150	20
TNC70-RH4-20R1-50F	20	1	50	150	20
TNC70-RH4-20R1.5-50F	20	1.5	50	150	20
TNC70-RH4-20R2-50F	20	2	50	150	20
TNC70-RH4-20R2.5-50F	20	2.5	50	150	20
TNC70-RH4-20R3-50F	20	3	50	150	20
TNC70-RH4-20R4-50F	20	4	50	150	20
TNC70-RH4-20R5-50F	20	5	50	150	20
TNC70-RH4-6R0.1-30G	6	0.1	30	200	6
TNC70-RH4-6R0.2-30G	6	0.2	30	200	6
TNC70-RH4-6R0.3-30G	6	0.3	30	200	6
TNC70-RH4-6R0.5-30G	6	0.5	30	200	6
TNC70-RH4-6R1-30G	6	1	30	200	6
TNC70-RH4-6R1.5-30G	6	1.5	30	200	6
TNC70-RH4-6R2-30G	6	2	30	200	6
TNC70-RH4-8R0.2-40G	8	0.2	40	200	8
TNC70-RH4-8R0.3-40G	8	0.3	40	200	8
TNC70-RH4-8R0.5-40G	8	0.5	40	200	8
TNC70-RH4-8R1-40G	8	1	40	200	8
TNC70-RH4-8R1.5-40G	8	1.5	40	200	8
TNC70-RH4-8R2-40G	8	2	40	200	8
TNC70-RH4-8R2.5-40G	8	2.5	40	200	8
TNC70-RH4-8R3-40G	8	3	40	200	8
TNC70-RH4-10R0.2-40G	10	0.2	40	200	10
TNC70-RH4-10R0.3-40G	10	0.3	40	200	10
TNC70-RH4-10R0.5-40G	10	0.5	40	200	10
TNC70-RH4-10R1-40G	10	1	40	200	10
TNC70-RH4-10R1.5-40G	10	1.5	40	200	10
TNC70-RH4-10R2-40G	10	2	40	200	10
TNC70-RH4-10R2.5-40G	10	2.5	40	200	10
TNC70-RH4-10R3-40G	10	3	40	200	10
TNC70-RH4-10R4-40G	10	4	40	200	10
TNC70-RH4-12R0.2-40G	12	0.2	40	200	12
TNC70-RH4-12R0.3-40G	12	0.3	40	200	12

Концевая фреза  
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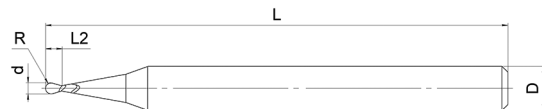
Артикул Tactic	d	R	L2	L	D
TNC70-RH4-12R0.5-40G	12	0.5	40	200	12
TNC70-RH4-12R1-40G	12	1	40	200	12
TNC70-RH4-12R1.5-40G	12	1.5	40	200	12
TNC70-RH4-12R2-40G	12	2	40	200	12
TNC70-RH4-12R2.5-40G	12	2.5	40	200	12
TNC70-RH4-12R3-40G	12	3	40	200	12
TNC70-RH4-12R4-40G	12	4	40	200	12
TNC70-RH4-12R5-40G	12	5	40	200	12
TNC70-RH4-14R0.5-50G	14	0.5	50	200	14
TNC70-RH4-14R1-50G	14	1	50	200	14
TNC70-RH4-14R1.5-50G	14	1.5	50	200	14
TNC70-RH4-14R2-50G	14	2	50	200	14
TNC70-RH4-14R2.5-50G	14	2.5	50	200	14
TNC70-RH4-14R3-50G	14	3	50	200	14
TNC70-RH4-14R4-50G	14	4	50	200	14
TNC70-RH4-14R5-50G	14	5	50	200	14
TNC70-RH4-16R0.5-50G	16	0.5	50	200	16
TNC70-RH4-16R1-50G	16	1	50	200	16
TNC70-RH4-16R1.5-50G	16	1.5	50	200	16
TNC70-RH4-16R2-50G	16	2	50	200	16
TNC70-RH4-16R2.5-50G	16	2.5	50	200	16
TNC70-RH4-16R3-50G	16	3	50	200	16
TNC70-RH4-16R4-50G	16	4	50	200	16
TNC70-RH4-16R5-50G	16	5	50	200	16
TNC70-RH4-20R0.5-50G	20	0.5	50	200	20
TNC70-RH4-20R1-50G	20	1	50	200	20
TNC70-RH4-20R1.5-50G	20	1.5	50	200	20
TNC70-RH4-20R2-50G	20	2	50	200	20
TNC70-RH4-20R2.5-50G	20	2.5	50	200	20
TNC70-RH4-20R3-50G	20	3	50	200	20
TNC70-RH4-20R4-50G	20	4	50	200	20
TNC70-RH4-20R5-50G	20	5	50	200	20

## Концевая микрофреза



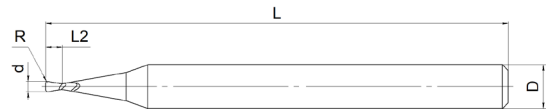
Артикул Tactic	d	L2	L	D
TNC70-ST2-0.05-0.1A	0.05	0.1	50	4
TNC70-ST2-0.06-0.12A	0.06	0.12	50	4
TNC70-ST2-0.07-0.14A	0.07	0.14	50	4
TNC70-ST2-0.08-0.16A	0.08	0.16	50	4
TNC70-ST2-0.09-0.18A	0.09	0.18	50	4
TNC70-ST2-0.1-0.2A	0.1	0.2	50	4
TNC70-ST2-0.15-0.3A	0.15	0.3	50	4
TNC70-ST2-0.2-0.4A	0.2	0.4	50	4
TNC70-ST2-0.3-0.6A	0.3	0.6	50	4
TNC70-ST2-0.4-0.8A	0.4	0.8	50	4
TNC70-ST2-0.5-1A	0.5	1	50	4
TNC70-ST2-0.6-1.2A	0.6	1.2	50	4
TNC70-ST2-0.7-1.4A	0.7	1.4	50	4
TNC70-ST2-0.8-1.6A	0.8	1.6	50	4
TNC70-ST2-0.9-1.8A	0.9	1.8	50	4

Концевая микрофреза  
сферическая



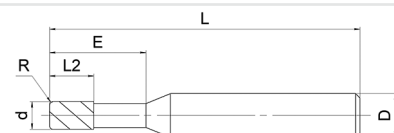
Артикул Tactic	R	L2	L	D
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TNC70-BT2-0.06-0.12A	R0.03	0.12	50	4
TNC70-BT2-0.07-0.14A	R0.035	0.14	50	4
TNC70-BT2-0.08-0.16A	R0.04	0.16	50	4
TNC70-BT2-0.09-0.18A	R0.045	0.18	50	4
TNC70-BT2-0.1-0.20A	R0.05	0.20	50	4
TNC70-BT2-0.12-0.24A	R0.06	0.24	50	4
TNC70-BT2-0.14-0.28A	R0.07	0.28	50	4
TNC70-BT2-0.16-0.32A	R0.08	0.32	50	4
TNC70-BT2-0.18-0.36A	R0.09	0.36	50	4
TNC70-BT2-0.2-0.4A	R0.1	0.4	50	4
TNC70-BT2-0.3-0.6A	R0.15	0.6	50	4
TNC70-BT2-0.4-0.8A	R0.2	0.8	50	4
TNC70-BT2-0.5-1A	R0.25	1	50	4
TNC70-BT2-0.6-1.2A	R0.3	1.2	50	4
TNC70-BT2-0.7-1.4A	R0.35	1.4	50	4
TNC70-BT2-0.8-1.6A	R0.4	1.6	50	4
TNC70-BT2-0.9-1.8A	R0.45	1.8	50	4

## Концевая микрофреза



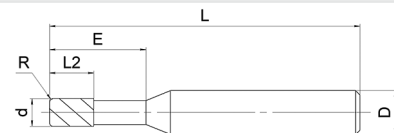
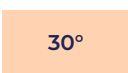
Артикул Tactic	d	R	L2	L	D
TNC70-RT2-0.1R0.01-0.2A	0.1	0.01	0.2	50	4
TNC70-RT2-0.1R0.02-0.2A	0.1	0.02	0.2	50	4
TNC70-RT2-0.15R0.01-0.3A	0.15	0.01	0.3	50	4
TNC70-RT2-0.15R0.02-0.3A	0.15	0.02	0.3	50	4
TNC70-RT2-0.15R0.05-0.3A	0.15	0.05	0.3	50	4
TNC70-RT2-0.2R0.02-0.4A	0.2	0.02	0.4	50	4
TNC70-RT2-0.2R0.05-0.4A	0.2	0.05	0.4	50	4
TNC70-RT2-0.25R0.02-0.5A	0.25	0.02	0.5	50	4
TNC70-RT2-0.25R0.05-0.5A	0.25	0.05	0.5	50	4
TNC70-RT2-0.3R0.02-0.6A	0.3	0.02	0.6	50	4
TNC70-RT2-0.3R0.05-0.6A	0.3	0.05	0.6	50	4
TNC70-RT2-0.4R0.02-0.8A	0.4	0.02	0.8	50	4
TNC70-RT2-0.4R0.05-0.8A	0.4	0.05	0.8	50	4
TNC70-RT2-0.4R0.1-0.8A	0.4	0.1	0.8	50	4
TNC70-RT2-0.5R0.02-1A	0.5	0.02	1	50	4
TNC70-RT2-0.5R0.05-1A	0.5	0.05	1	50	4
TNC70-RT2-0.5R0.1-1A	0.5	0.1	1	50	4
TNC70-RT2-0.6R0.02-1.2A	0.6	0.02	1.2	50	4
TNC70-RT2-0.6R0.05-1.2A	0.6	0.05	1.2	50	4
TNC70-RT2-0.6R0.1-1.2A	0.6	0.1	1.2	50	4
TNC70-RT2-0.6R0.2-1.2A	0.6	0.2	1.2	50	4
TNC70-RT2-0.7R0.02-1.4A	0.7	0.02	1.4	50	4
TNC70-RT2-0.7R0.05-1.4A	0.7	0.05	1.4	50	4
TNC70-RT2-0.7R0.1-1.4A	0.7	0.1	1.4	50	4
TNC70-RT2-0.7R0.2-1.4A	0.7	0.2	1.4	50	4
TNC70-RT2-0.8R0.02-1.6A	0.8	0.02	1.6	50	4
TNC70-RT2-0.8R0.05-1.6A	0.8	0.05	1.6	50	4
TNC70-RT2-0.8R0.1-1.6A	0.8	0.1	1.6	50	4
TNC70-RT2-0.8R0.2-1.6A	0.8	0.2	1.6	50	4
TNC70-RT2-0.9R0.05-1.8A	0.9	0.05	1.8	50	4
TNC70-RT2-0.9R0.1-1.8A	0.9	0.1	1.8	50	4
TNC70-RT2-0.9R0.2-1.8A	0.9	0.2	1.8	50	4

## Концевая микрофреза с обнижением



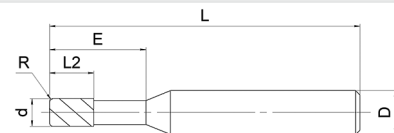
Артикул Tactic	d	R	L2	E	L	D
TNC70-RN2-0.1R0.01-0.1N0.5A	0.1	0.01	0.1	0.5	50	4
TNC70-RN2-0.1R0.01-0.1N1A	0.1	0.01	0.1	1	50	4
TNC70-RN2-0.1R0.01-0.1N2A	0.1	0.01	0.1	2	50	4
TNC70-RN2-0.1R0.02-0.1N0.5A	0.1	0.02	0.1	0.5	50	4
TNC70-RN2-0.1R0.02-0.1N1A	0.1	0.02	0.1	1	50	4
TNC70-RN2-0.1R0.02-0.1N2A	0.1	0.02	0.1	2	50	4
TNC70-RN2-0.15R0.01-0.15N1A	0.15	0.01	0.15	1	50	4
TNC70-RN2-0.15R0.01-0.15N2A	0.15	0.01	0.15	2	50	4
TNC70-RN2-0.15R0.02-0.15N1A	0.15	0.02	0.15	1	50	4
TNC70-RN2-0.15R0.02-0.15N2A	0.15	0.02	0.15	2	50	4
TNC70-RN2-0.15R0.05-0.15N1A	0.15	0.05	0.15	1	50	4
TNC70-RN2-0.15R0.05-0.15N2A	0.15	0.05	0.15	2	50	4
TNC70-RN2-0.2R0.02-0.2N1A	0.2	0.02	0.2	1	50	4
TNC70-RN2-0.2R0.02-0.2N2A	0.2	0.02	0.2	2	50	4
TNC70-RN2-0.2R0.05-0.2N1A	0.2	0.05	0.2	1	50	4
TNC70-RN2-0.2R0.05-0.2N2A	0.2	0.05	0.2	2	50	4
TNC70-RN2-0.3R0.02-0.3N1A	0.3	0.02	0.3	1	50	4
TNC70-RN2-0.3R0.02-0.3N2A	0.3	0.02	0.3	2	50	4
TNC70-RN2-0.3R0.02-0.3N3A	0.3	0.02	0.3	3	50	4
TNC70-RN2-0.3R0.05-0.3N1A	0.3	0.05	0.3	1	50	4
TNC70-RN2-0.3R0.05-0.3N2A	0.3	0.05	0.3	2	50	4
TNC70-RN2-0.3R0.05-0.3N3A	0.3	0.05	0.3	3	50	4
TNC70-RN2-0.4R0.02-0.4N1A	0.4	0.02	0.4	1	50	4
TNC70-RN2-0.4R0.02-0.4N2A	0.4	0.02	0.4	2	50	4
TNC70-RN2-0.4R0.02-0.4N3A	0.4	0.02	0.4	3	50	4
TNC70-RN2-0.4R0.02-0.4N4A	0.4	0.02	0.4	4	50	4
TNC70-RN2-0.4R0.05-0.4N1A	0.4	0.05	0.4	1	50	4
TNC70-RN2-0.4R0.05-0.4N2A	0.4	0.05	0.4	2	50	4
TNC70-RN2-0.4R0.05-0.4N3A	0.4	0.05	0.4	3	50	4
TNC70-RN2-0.4R0.05-0.4N4A	0.4	0.05	0.4	4	50	4
TNC70-RN2-0.4R0.1-0.4N1A	0.4	0.1	0.4	1	50	4
TNC70-RN2-0.4R0.1-0.4N2A	0.4	0.1	0.4	2	50	4
TNC70-RN2-0.4R0.1-0.4N3A	0.4	0.1	0.4	3	50	4
TNC70-RN2-0.4R0.1-0.4N4A	0.4	0.1	0.4	4	50	4
TNC70-RN2-0.5R0.02-0.5N2A	0.5	0.02	0.5	2	50	4
TNC70-RN2-0.5R0.02-0.5N3A	0.5	0.02	0.5	3	50	4
TNC70-RN2-0.5R0.02-0.5N4A	0.5	0.02	0.5	4	50	4
TNC70-RN2-0.5R0.02-0.5N5A	0.5	0.02	0.5	5	50	4
TNC70-RN2-0.5R0.05-0.5N2A	0.5	0.05	0.5	2	50	4
TNC70-RN2-0.5R0.05-0.5N3A	0.5	0.05	0.5	3	50	4
TNC70-RN2-0.5R0.05-0.5N4A	0.5	0.05	0.5	4	50	4
TNC70-RN2-0.5R0.05-0.5N5A	0.5	0.05	0.5	5	50	4
TNC70-RN2-0.5R0.1-0.5N2A	0.5	0.1	0.5	2	50	4
TNC70-RN2-0.5R0.1-0.5N3A	0.5	0.1	0.5	3	50	4
TNC70-RN2-0.5R0.1-0.5N4A	0.5	0.1	0.5	4	50	4
TNC70-RN2-0.5R0.1-0.5N5A	0.5	0.1	0.5	5	50	4
TNC70-RN2-0.6R0.02-0.6N2A	0.6	0.02	0.6	2	50	4
TNC70-RN2-0.6R0.02-0.6N3A	0.6	0.02	0.6	3	50	4
TNC70-RN2-0.6R0.02-0.6N4A	0.6	0.02	0.6	4	50	4
TNC70-RN2-0.6R0.02-0.6N5A	0.6	0.02	0.6	5	50	4
TNC70-RN2-0.6R0.02-0.6N6A	0.6	0.02	0.6	6	50	4
TNC70-RN2-0.6R0.05-0.6N2A	0.6	0.05	0.6	2	50	4
TNC70-RN2-0.6R0.05-0.6N3A	0.6	0.05	0.6	3	50	4
TNC70-RN2-0.6R0.05-0.6N4A	0.6	0.05	0.6	4	50	4

## Концевая микрофреза с обнижением



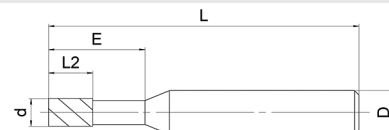
Артикул Tactic	d	R	L2	E	L	D
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TNC70-RN2-0.6R0.05-0.6N6A	0.6	0.05	0.6	6	50	4
TNC70-RN2-0.6R0.1-0.6N2A	0.6	0.1	0.6	2	50	4
TNC70-RN2-0.6R0.1-0.6N3A	0.6	0.1	0.6	3	50	4
TNC70-RN2-0.6R0.1-0.6N4A	0.6	0.1	0.6	4	50	4
TNC70-RN2-0.6R0.1-0.6N5A	0.6	0.1	0.6	5	50	4
TNC70-RN2-0.6R0.1-0.6N6A	0.6	0.1	0.6	6	50	4
TNC70-RN2-0.6R0.2-0.6N2A	0.6	0.2	0.6	2	50	4
TNC70-RN2-0.6R0.2-0.6N3A	0.6	0.2	0.6	3	50	4
TNC70-RN2-0.6R0.2-0.6N4A	0.6	0.2	0.6	4	50	4
TNC70-RN2-0.6R0.2-0.6N5A	0.6	0.2	0.6	5	50	4
TNC70-RN2-0.6R0.2-0.6N6A	0.6	0.2	0.6	6	50	4
TNC70-RN2-0.7R0.02-0.7N2A	0.7	0.02	0.7	2	50	4
TNC70-RN2-0.7R0.02-0.7N3A	0.7	0.02	0.7	3	50	4
TNC70-RN2-0.7R0.02-0.7N4A	0.7	0.02	0.7	4	50	4
TNC70-RN2-0.7R0.02-0.7N5A	0.7	0.02	0.7	5	50	4
TNC70-RN2-0.7R0.02-0.7N6A	0.7	0.02	0.7	6	50	4
TNC70-RN2-0.7R0.02-0.7N8A	0.7	0.02	0.7	8	50	4
TNC70-RN2-0.7R0.05-0.7N2A	0.7	0.05	0.7	2	50	4
TNC70-RN2-0.7R0.05-0.7N3A	0.7	0.05	0.7	3	50	4
TNC70-RN2-0.7R0.05-0.7N4A	0.7	0.05	0.7	4	50	4
TNC70-RN2-0.7R0.05-0.7N5A	0.7	0.05	0.7	5	50	4
TNC70-RN2-0.7R0.05-0.7N6A	0.7	0.05	0.7	6	50	4
TNC70-RN2-0.7R0.05-0.7N8A	0.7	0.05	0.7	8	50	4
TNC70-RN2-0.7R0.1-0.7N2A	0.7	0.1	0.7	2	50	4
TNC70-RN2-0.7R0.1-0.7N3A	0.7	0.1	0.7	3	50	4
TNC70-RN2-0.7R0.1-0.7N4A	0.7	0.1	0.7	4	50	4
TNC70-RN2-0.7R0.1-0.7N5A	0.7	0.1	0.7	5	50	4
TNC70-RN2-0.7R0.1-0.7N6A	0.7	0.1	0.7	6	50	4
TNC70-RN2-0.7R0.1-0.7N8A	0.7	0.1	0.7	8	50	4
TNC70-RN2-0.7R0.2-0.7N2A	0.7	0.2	0.7	2	50	4
TNC70-RN2-0.7R0.2-0.7N3A	0.7	0.2	0.7	3	50	4
TNC70-RN2-0.7R0.2-0.7N4A	0.7	0.2	0.7	4	50	4
TNC70-RN2-0.7R0.2-0.7N5A	0.7	0.2	0.7	5	50	4
TNC70-RN2-0.7R0.2-0.7N6A	0.7	0.2	0.7	6	50	4
TNC70-RN2-0.7R0.2-0.7N8A	0.7	0.2	0.7	8	50	4
TNC70-RN2-0.8R0.02-0.8N2A	0.8	0.02	0.8	2	50	4
TNC70-RN2-0.8R0.02-0.8N3A	0.8	0.02	0.8	3	50	4
TNC70-RN2-0.8R0.02-0.8N4A	0.8	0.02	0.8	4	50	4
TNC70-RN2-0.8R0.02-0.8N5A	0.8	0.02	0.8	5	50	4
TNC70-RN2-0.8R0.02-0.8N6A	0.8	0.02	0.8	6	50	4
TNC70-RN2-0.8R0.02-0.8N8A	0.8	0.02	0.8	8	50	4
TNC70-RN2-0.8R0.05-0.8N2A	0.8	0.05	0.8	2	50	4
TNC70-RN2-0.8R0.05-0.8N3A	0.8	0.05	0.8	3	50	4
TNC70-RN2-0.8R0.05-0.8N4A	0.8	0.05	0.8	4	50	4
TNC70-RN2-0.8R0.05-0.8N5A	0.8	0.05	0.8	5	50	4
TNC70-RN2-0.8R0.05-0.8N6A	0.8	0.05	0.8	6	50	4
TNC70-RN2-0.8R0.05-0.8N8A	0.8	0.05	0.8	8	50	4
TNC70-RN2-0.8R0.1-0.8N2A	0.8	0.1	0.8	2	50	4
TNC70-RN2-0.8R0.1-0.8N3A	0.8	0.1	0.8	3	50	4
TNC70-RN2-0.8R0.1-0.8N4A	0.8	0.1	0.8	4	50	4
TNC70-RN2-0.8R0.1-0.8N5A	0.8	0.1	0.8	5	50	4
TNC70-RN2-0.8R0.1-0.8N6A	0.8	0.1	0.8	6	50	4
TNC70-RN2-0.8R0.1-0.8N8A	0.8	0.1	0.8	8	50	4

Концевая микрофреза  
с обнижением



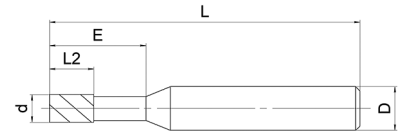
Артикул Tactic	d	R	L2	E	L	D
TNC70-RN2-0.8R0.2-0.8N2A	0.8	0.2	0.8	2	50	4
TNC70-RN2-0.8R0.2-0.8N3A	0.8	0.2	0.8	3	50	4
TNC70-RN2-0.8R0.2-0.8N4A	0.8	0.2	0.8	4	50	4
TNC70-RN2-0.8R0.2-0.8N5A	0.8	0.2	0.8	5	50	4
TNC70-RN2-0.8R0.2-0.8N6A	0.8	0.2	0.8	6	50	4
TNC70-RN2-0.8R0.2-0.8N8A	0.8	0.2	0.8	8	50	4
TNC70-RN2-0.9R0.05-0.9N3A	0.9	0.05	0.9	3	50	4
TNC70-RN2-0.9R0.05-0.9N4A	0.9	0.05	0.9	4	50	4
TNC70-RN2-0.9R0.05-0.9N6A	0.9	0.05	0.9	6	50	4
TNC70-RN2-0.9R0.05-0.9N8A	0.9	0.05	0.9	8	50	4
TNC70-RN2-0.9R0.1-0.9N3A	0.9	0.1	0.9	3	50	4
TNC70-RN2-0.9R0.1-0.9N4A	0.9	0.1	0.9	4	50	4
TNC70-RN2-0.9R0.1-0.9N6A	0.9	0.1	0.9	6	50	4
TNC70-RN2-0.9R0.1-0.9N8A	0.9	0.1	0.9	8	50	4
TNC70-RN2-0.9R0.2-0.9N3A	0.9	0.2	0.9	3	50	4
TNC70-RN2-0.9R0.2-0.9N4A	0.9	0.2	0.9	4	50	4
TNC70-RN2-0.9R0.2-0.9N6A	0.9	0.2	0.9	6	50	4
TNC70-RN2-0.9R0.2-0.9N8A	0.9	0.2	0.9	8	50	4

## Концевая микрофреза с обнижением



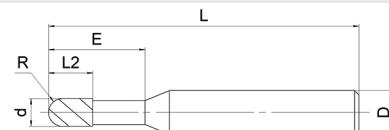
Артикул Tactic	d	L2	E	L	D
TNC70-SN2-0.05-0.05N0.5A	0.05	0.05	0.5	50	4
TNC70-SN2-0.05-0.05N1A	0.05	0.05	1	50	4
TNC70-SN2-0.06-0.06N0.5A	0.06	0.06	0.5	50	4
TNC70-SN2-0.06-0.06N1A	0.06	0.06	1	50	4
TNC70-SN2-0.07-0.07N0.5A	0.07	0.07	0.5	50	4
TNC70-SN2-0.07-0.07N1A	0.07	0.07	1	50	4
TNC70-SN2-0.08-0.08N0.5A	0.08	0.08	0.5	50	4
TNC70-SN2-0.08-0.08N1A	0.08	0.08	1	50	4
TNC70-SN2-0.09-0.09N0.5A	0.09	0.09	0.5	50	4
TNC70-SN2-0.09-0.09N1A	0.09	0.09	1	50	4
TNC70-SN2-0.1-0.1N0.5A	0.1	0.1	0.5	50	4
TNC70-SN2-0.1-0.1N1A	0.1	0.1	1	50	4
TNC70-SN2-0.1-0.1N1.5A	0.1	0.1	1.5	50	4
TNC70-SN2-0.1-0.1N2A	0.1	0.1	2	50	4
TNC70-SN2-0.15-0.15N0.5A	0.15	0.15	0.5	50	4
TNC70-SN2-0.15-0.15N1A	0.15	0.15	1	50	4
TNC70-SN2-0.15-0.15N1.5A	0.15	0.15	1.5	50	4
TNC70-SN2-0.15-0.15N2A	0.15	0.15	2	50	4
TNC70-SN2-0.2-0.2N1A	0.2	0.2	1	50	4
TNC70-SN2-0.2-0.2N2A	0.2	0.2	2	50	4
TNC70-SN2-0.2-0.2N3A	0.2	0.2	3	50	4
TNC70-SN2-0.2-0.2N4A	0.2	0.2	4	50	4
TNC70-SN2-0.25-0.25N2A	0.25	0.25	2	50	4
TNC70-SN2-0.25-0.25N3A	0.25	0.25	3	50	4
TNC70-SN2-0.25-0.25N4A	0.25	0.25	4	50	4
TNC70-SN2-0.3-0.3N2A	0.3	0.3	2	50	4
TNC70-SN2-0.3-0.3N3A	0.3	0.3	3	50	4
TNC70-SN2-0.3-0.3N4A	0.3	0.3	4	50	4
TNC70-SN2-0.3-0.3N6A	0.3	0.3	6	50	4
TNC70-SN2-0.4-0.4N2A	0.4	0.4	2	50	4
TNC70-SN2-0.4-0.4N3A	0.4	0.4	3	50	4
TNC70-SN2-0.4-0.4N4A	0.4	0.4	4	50	4
TNC70-SN2-0.4-0.4N6A	0.4	0.4	6	50	4
TNC70-SN2-0.5-0.5N2A	0.5	0.5	2	50	4
TNC70-SN2-0.5-0.5N3A	0.5	0.5	3	50	4
TNC70-SN2-0.5-0.5N4A	0.5	0.5	4	50	4
TNC70-SN2-0.5-0.5N6A	0.5	0.5	6	50	4
TNC70-SN2-0.5-0.5N8A	0.5	0.5	8	50	4
TNC70-SN2-0.5-0.5N10A	0.5	0.5	10	50	4
TNC70-SN2-0.5-0.5N12A	0.5	0.5	12	50	4
TNC70-SN2-0.6-0.6N2A	0.6	0.6	2	50	4
TNC70-SN2-0.6-0.6N3A	0.6	0.6	3	50	4
TNC70-SN2-0.6-0.6N4A	0.6	0.6	4	50	4
TNC70-SN2-0.6-0.6N6A	0.6	0.6	6	50	4
TNC70-SN2-0.6-0.6N8A	0.6	0.6	8	50	4
TNC70-SN2-0.6-0.6N10A	0.6	0.6	10	50	4
TNC70-SN2-0.6-0.6N12A	0.6	0.6	12	50	4
TNC70-SN2-0.7-0.7N3A	0.7	0.7	3	50	4
TNC70-SN2-0.7-0.7N4A	0.7	0.7	4	50	4
TNC70-SN2-0.7-0.7N6A	0.7	0.7	6	50	4
TNC70-SN2-0.7-0.7N8A	0.7	0.7	8	50	4
TNC70-SN2-0.7-0.7N10A	0.7	0.7	10	50	4
TNC70-SN2-0.7-0.7N12A	0.7	0.7	12	50	4
TNC70-SN2-0.8-0.8N3A	0.8	0.8	3	50	4

Концевая микрофреза  
с обнижением



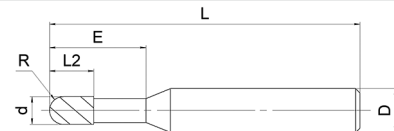
Артикул Tactic	d	L2	E	L	D
TNC70-SN2-0.8-0.8N4A	0.8	0.8	4	50	4
TNC70-SN2-0.8-0.8N6A	0.8	0.8	6	50	4
TNC70-SN2-0.8-0.8N8A	0.8	0.8	8	50	4
TNC70-SN2-0.8-0.8N10A	0.8	0.8	10	50	4
TNC70-SN2-0.8-0.8N12A	0.8	0.8	12	50	4
TNC70-SN2-0.9-0.9N3A	0.9	0.9	3	50	4
TNC70-SN2-0.9-0.9N4A	0.9	0.9	4	50	4
TNC70-SN2-0.9-0.9N6A	0.9	0.9	6	50	4
TNC70-SN2-0.9-0.9N8A	0.9	0.9	8	50	4
TNC70-SN2-0.9-0.9N10A	0.9	0.9	10	50	4
TNC70-SN2-0.9-0.9N12A	0.9	0.9	12	50	4

## Концевая микрофреза сферическая с обнижением



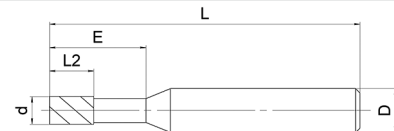
Артикул Tactic	R	L2	E	L	D
TNC70-BN2-0.1-0.1N0.3A	R0.05	0.1	0.3	50	4
TNC70-BN2-0.1-0.1N0.5A	R0.05	0.1	0.5	50	4
TNC70-BN2-0.1-0.1N1A	R0.05	0.1	1	50	4
TNC70-BN2-0.15-0.15N0.3A	R0.075	0.15	0.3	50	4
TNC70-BN2-0.15-0.15N0.5A	R0.075	0.15	0.5	50	4
TNC70-BN2-0.15-0.15N1A	R0.075	0.15	1	50	4
TNC70-BN2-0.2-0.2N0.5A	R0.1	0.2	0.5	50	4
TNC70-BN2-0.2-0.2N1A	R0.1	0.2	1	50	4
TNC70-BN2-0.2-0.2N1.5A	R0.1	0.2	1.5	50	4
TNC70-BN2-0.2-0.2N2A	R0.1	0.2	2	50	4
TNC70-BN2-0.3-0.3N1A	R0.15	0.3	1	50	4
TNC70-BN2-0.3-0.3N1.5A	R0.15	0.3	1.5	50	4
TNC70-BN2-0.3-0.3N2A	R0.15	0.3	2	50	4
TNC70-BN2-0.3-0.3N3A	R0.15	0.3	3	50	4
TNC70-BN2-0.3-0.3N4A	R0.15	0.3	4	50	4
TNC70-BN2-0.4-0.4N2A	R0.2	0.4	2	50	4
TNC70-BN2-0.4-0.4N3A	R0.2	0.4	3	50	4
TNC70-BN2-0.4-0.4N4A	R0.2	0.4	4	50	4
TNC70-BN2-0.4-0.4N6A	R0.2	0.4	6	50	4
TNC70-BN2-0.5-0.5N2A	R0.25	0.5	2	50	4
TNC70-BN2-0.5-0.5N3A	R0.25	0.5	3	50	4
TNC70-BN2-0.5-0.5N4A	R0.25	0.5	4	50	4
TNC70-BN2-0.5-0.5N6A	R0.25	0.5	6	50	4
TNC70-BN2-0.5-0.5N8A	R0.25	0.5	8	50	4
TNC70-BN2-0.6-0.6N3A	R0.3	0.6	3	50	4
TNC70-BN2-0.6-0.6N4A	R0.3	0.6	4	50	4
TNC70-BN2-0.6-0.6N6A	R0.3	0.6	6	50	4
TNC70-BN2-0.6-0.6N8A	R0.3	0.6	8	50	4
TNC70-BN2-0.6-0.6N10A	R0.3	0.6	10	50	4
TNC70-BN2-0.6-0.6N12A	R0.3	0.6	12	50	4
TNC70-BN2-0.7-0.7N2A	R0.35	0.7	2	50	4
TNC70-BN2-0.7-0.7N3A	R0.35	0.7	3	50	4
TNC70-BN2-0.7-0.7N4A	R0.35	0.7	4	50	4
TNC70-BN2-0.7-0.7N6A	R0.35	0.7	6	50	4
TNC70-BN2-0.7-0.7N8A	R0.35	0.7	8	50	4
TNC70-BN2-0.7-0.7N10A	R0.35	0.7	10	50	4
TNC70-BN2-0.7-0.7N12A	R0.35	0.7	12	50	4
TNC70-BN2-0.8-0.8N2A	R0.4	0.8	2	50	4
TNC70-BN2-0.8-0.8N3A	R0.4	0.8	3	50	4
TNC70-BN2-0.8-0.8N4A	R0.4	0.8	4	50	4
TNC70-BN2-0.8-0.8N6A	R0.4	0.8	6	50	4
TNC70-BN2-0.8-0.8N8A	R0.4	0.8	8	50	4
TNC70-BN2-0.8-0.8N10A	R0.4	0.8	10	50	4
TNC70-BN2-0.8-0.8N12A	R0.4	0.8	12	50	4
TNC70-BN2-0.9-0.9N4A	R0.45	0.9	4	50	4
TNC70-BN2-0.9-0.9N6A	R0.45	0.9	6	50	4
TNC70-BN2-0.9-0.9N8A	R0.45	0.9	8	50	4
TNC70-BN2-0.9-0.9N10A	R0.45	0.9	10	50	4
TNC70-BN2-0.9-0.9N12A	R0.45	0.9	12	50	4
TNC70-BN2-1-1N4A	R0.5	1	4	50	4
TNC70-BN2-1-1N6A	R0.5	1	6	50	4
TNC70-BN2-1-1N8A	R0.5	1	8	50	4
TNC70-BN2-1-1N10A	R0.5	1	10	50	4
TNC70-BN2-1-1N12A	R0.5	1	12	50	4

Концевая микрофреза  
сферическая с обнижением



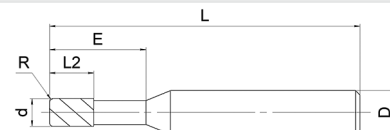
Артикул Tactic	R	L2	E	L	D
TNC70-BN2-1-1N16A	R0.5	1	16	50	4
TNC70-BN2-1-1N20A	R0.5	1	20	50	4
TNC70-BN2-1.5-1.5N4A	R0.75	1.5	4	50	4
TNC70-BN2-1.5-1.5N6A	R0.75	1.5	6	50	4
TNC70-BN2-1.5-1.5N8A	R0.75	1.5	8	50	4
TNC70-BN2-1.5-1.5N10A	R0.75	1.5	10	50	4
TNC70-BN2-1.5-1.5N12A	R0.75	1.5	12	50	4
TNC70-BN2-1.5-1.5N16A	R0.75	1.5	16	50	4
TNC70-BN2-1.5-1.5N20A	R0.75	1.5	20	50	4
TNC70-BN2-2-2N6A	R1	2	6	50	4
TNC70-BN2-2-2N8A	R1	2	8	50	4
TNC70-BN2-2-2N10A	R1	2	10	50	4
TNC70-BN2-2-2N12A	R1	2	12	50	4
TNC70-BN2-2-2N16A	R1	2	16	50	4
TNC70-BN2-2-2N20A	R1	2	20	50	4
TNC70-BN2-3-3N8A	R1.5	3	8	50	4
TNC70-BN2-3-3N10A	R1.5	3	10	50	4
TNC70-BN2-3-3N12A	R1.5	3	12	50	4
TNC70-BN2-3-3N16A	R1.5	3	16	50	4
TNC70-BN2-3-3N20A	R1.5	3	20	50	4
TNC70-BN2-3-3N10B	R1.5	3	10	60	6
TNC70-BN2-3-3N12B	R1.5	3	12	60	6
TNC70-BN2-3-3N16B	R1.5	3	16	60	6
TNC70-BN2-3-3N20B	R1.5	3	20	60	6
TNC70-BN2-3-3N30C	R1.5	3	30	75	6
TNC70-BN2-4-4N10B	R2	4	10	60	6
TNC70-BN2-4-4N12B	R2	4	12	60	6
TNC70-BN2-4-4N16B	R2	4	16	60	6
TNC70-BN2-4-4N20B	R2	4	20	60	6
TNC70-BN2-4-4N30C	R2	4	30	75	6

Концевая микрофреза  
с обнижением



Артикул Tactic	d	L2	E	L	D
TNC70-ST4-1-1.2N4A	1	1.2	4	50	4
TNC70-ST4-1-1.2N6A	1	1.2	6	50	4
TNC70-ST4-1-1.2N8A	1	1.2	8	50	4
TNC70-ST4-1-1.2N10A	1	1.2	10	50	4
TNC70-ST4-1-1.2N12A	1	1.2	12	50	4
TNC70-ST4-1-1.2N16A	1	1.2	16	50	4
TNC70-ST4-1-1.2N20A	1	1.2	20	50	4
TNC70-ST4-1.5-1.8N6A	1.5	1.8	6	50	4
TNC70-ST4-1.5-1.8N8A	1.5	1.8	8	50	4
TNC70-ST4-1.5-1.8N10A	1.5	1.8	10	50	4
TNC70-ST4-1.5-1.8N12A	1.5	1.8	12	50	4
TNC70-ST4-1.5-1.8N16A	1.5	1.8	16	50	4
TNC70-ST4-1.5-1.8N20A	1.5	1.8	20	50	4
TNC70-ST4-2-2.4N8A	2	2.4	8	50	4
TNC70-ST4-2-2.4N10A	2	2.4	10	50	4
TNC70-ST4-2-2.4N12A	2	2.4	12	50	4
TNC70-ST4-2-2.4N16A	2	2.4	16	50	4
TNC70-ST4-2-2.4N20A	2	2.4	20	50	4
TNC70-ST4-2.5-3N10A	2.5	3	10	50	4
TNC70-ST4-2.5-3N12A	2.5	3	12	50	4
TNC70-ST4-2.5-3N16A	2.5	3	16	50	4
TNC70-ST4-2.5-3N20A	2.5	3	20	50	4
TNC70-ST4-3-3.6N10A	3	3.6	10	50	4
TNC70-ST4-3-3.6N12A	3	3.6	12	50	4
TNC70-ST4-3-3.6N16A	3	3.6	16	50	4
TNC70-ST4-3-3.6N20A	3	3.6	20	50	4
TNC70-ST4-3-3.6N10B	3	3.6	10	60	6
TNC70-ST4-3-3.6N12B	3	3.6	12	60	6
TNC70-ST4-3-3.6N16B	3	3.6	16	60	6
TNC70-ST4-3-3.6N20B	3	3.6	20	60	6
TNC70-ST4-3-3.6N30C	3	3.6	30	75	6
TNC70-ST4-4-4.8N10B	4	4.8	10	60	6
TNC70-ST4-4-4.8N12B	4	4.8	12	60	6
TNC70-ST4-4-4.8N16B	4	4.8	16	60	6
TNC70-ST4-4-4.8N20B	4	4.8	20	60	6
TNC70-ST4-4-4.8N30C	4	4.8	30	75	6

## Концевая микрофреза с обнижением



Артикул Tactic	d	R	L2	E	L	D
TNC70-RN4-1R0.2-1.2N4A	1	0.2	1.2	4	50	4
TNC70-RN4-1R0.2-1.2N6A	1	0.2	1.2	6	50	4
TNC70-RN4-1R0.2-1.2N8A	1	0.2	1.2	8	50	4
TNC70-RN4-1R0.2-1.2N10A	1	0.2	1.2	10	50	4
TNC70-RN4-1R0.2-1.2N12A	1	0.2	1.2	12	50	4
TNC70-RN4-1R0.2-1.2N16A	1	0.2	1.2	16	50	4
TNC70-RN4-1R0.2-1.2N20A	1	0.2	1.2	20	50	4
TNC70-RN4-2R0.2-2.4N8A	2	0.2	2.4	8	50	4
TNC70-RN4-2R0.2-2.4N10A	2	0.2	2.4	10	50	4
TNC70-RN4-2R0.2-2.4N12A	2	0.2	2.4	12	50	4
TNC70-RN4-2R0.2-2.4N16A	2	0.2	2.4	16	50	4
TNC70-RN4-2R0.2-2.4N20A	2	0.2	2.4	20	50	4
TNC70-RN4-2R0.5-2.4N8A	2	0.5	2.4	8	50	4
TNC70-RN4-2R0.5-2.4N10A	2	0.5	2.4	10	50	4
TNC70-RN4-2R0.5-2.4N12A	2	0.5	2.4	12	50	4
TNC70-RN4-2R0.5-2.4N16A	2	0.5	2.4	16	50	4
TNC70-RN4-2R0.5-2.4N20A	2	0.5	2.4	20	50	4
TNC70-RN4-3R0.2-3.6N10A	3	0.2	3.6	10	50	4
TNC70-RN4-3R0.2-3.6N12A	3	0.2	3.6	12	50	4
TNC70-RN4-3R0.2-3.6N16A	3	0.2	3.6	16	50	4
TNC70-RN4-3R0.2-3.6N20A	3	0.2	3.6	20	50	4
TNC70-RN4-3R0.5-3.6N10A	3	0.5	3.6	10	50	4
TNC70-RN4-3R0.5-3.6N12A	3	0.5	3.6	12	50	4
TNC70-RN4-3R0.5-3.6N16A	3	0.5	3.6	16	50	4
TNC70-RN4-3R0.5-3.6N20A	3	0.5	3.6	20	50	4
TNC70-RN4-3R0.2-3.6N10B	3	0.2	3.6	10	60	6
TNC70-RN4-3R0.2-3.6N12B	3	0.2	3.6	12	60	6
TNC70-RN4-3R0.2-3.6N16B	3	0.2	3.6	16	60	6
TNC70-RN4-3R0.2-3.6N20B	3	0.2	3.6	20	60	6
TNC70-RN4-3R0.2-3.6N30C	3	0.2	3.6	30	75	6
TNC70-RN4-3R0.5-3.6N10B	3	0.5	3.6	10	60	6
TNC70-RN4-3R0.5-3.6N12B	3	0.5	3.6	12	60	6
TNC70-RN4-3R0.5-3.6N16B	3	0.5	3.6	16	60	6
TNC70-RN4-3R0.5-3.6N20B	3	0.5	3.6	20	60	6
TNC70-RN4-3R0.5-3.6N30C	3	0.5	3.6	30	75	6
TNC70-RN4-4R0.2-4.8N10B	4	0.2	4.8	10	60	6
TNC70-RN4-4R0.2-4.8N12B	4	0.2	4.8	12	60	6
TNC70-RN4-4R0.2-4.8N16B	4	0.2	4.8	16	60	6
TNC70-RN4-4R0.2-4.8N20B	4	0.2	4.8	20	60	6
TNC70-RN4-4R0.2-4.8N30C	4	0.2	4.8	30	75	6
TNC70-RN4-4R0.5-4.8N10B	4	0.5	4.8	10	60	6
TNC70-RN4-4R0.5-4.8N12B	4	0.5	4.8	12	60	6
TNC70-RN4-4R0.5-4.8N16B	4	0.5	4.8	16	60	6
TNC70-RN4-4R0.5-4.8N20B	4	0.5	4.8	20	60	6
TNC70-RN4-4R0.5-4.8N30C	4	0.5	4.8	30	75	6

## Медные сплавы

Плоский торец	Начальные данные							
	Обработка торцов				Обработка стенок			
	f (мм/мин)	S (об/мин)	ae (мм)	ap (мм)	f (мм/мин)	S (об/мин)	ae (мм)	ap (мм)
D1.0	1000	45000	1	0.5	1450	45000	0.1	1.5
D2.0	1100	38000	2	1	1500	38000	0.2	3
D3.0	1200	35000	3	1.5	1700	35000	0.3	4.5
D4.0	1200	25000	4	2	2000	25000	0.4	6
D6.0	1500	20000	6	3	2200	20000	0.6	9
D8.0	1600	15000	8	4	2500	15000	0.8	12
D10.0	1800	10000	10	5	2800	10000	1	15
D12.0	1900	9000	12	6	3000	9000	1.2	18
D14.0	2000	9000	14	7	3000	9000	1.4	21
D16.0	2000	7800	16	8	3000	7800	1.6	24
D18.0	2000	6800	18	9	2800	6800	1.8	27
D20.0	2000	5800	20	10	2800	5800	2	30

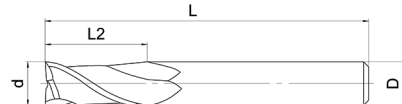
# TNG80

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Фрезы для обработки графита



## Концевая фреза



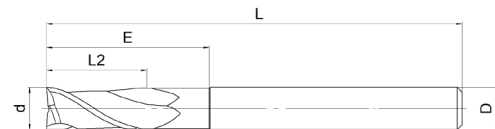
Артикул Tactic	d	L2	L	D
TNG80-ST2-1-3A	1	3	50	4
TNG80-ST2-1.5-4.5A	1.5	4.5	50	4
TNG80-ST2-2-6A	2	6	50	4
TNG80-ST2-2.5-7A	2.5	7	50	4
TNG80-ST2-3-8A	3	8	50	4
TNG80-ST2-3.5-10A	3.5	10	50	4
TNG80-ST2-4-11A	4	11	50	4
TNG80-ST2-4.5-13A	4.5	13	50	6
TNG80-ST2-5-13A	5	13	50	6
TNG80-ST2-5.5-13A	5.5	13	50	6
TNG80-ST2-6-15A	6	15	50	6
TNG80-ST2-6.5-17B	6.5	17	60	8
TNG80-ST2-7-17B	7	17	60	8
TNG80-ST2-7.5-17B	7.5	17	60	8
TNG80-ST2-8-20B	8	20	60	8
TNG80-ST2-8.5-23C	8.5	23	75	10
TNG80-ST2-9-23C	9	23	75	10
TNG80-ST2-9.5-25C	9.5	25	75	10
TNG80-ST2-10-25C	10	25	75	10
TNG80-ST2-10.5-25C	10.5	25	75	12
TNG80-ST2-11-28C	11	28	75	12
TNG80-ST2-11.5-28C	11.5	28	75	12
TNG80-ST2-12-30C	12	30	75	12
TNG80-ST2-13-33D	13	33	100	14
TNG80-ST2-14-35D	14	35	100	14
TNG80-ST2-15-38D	15	38	100	16
TNG80-ST2-16-40D	16	40	100	16
TNG80-ST2-17-40D	17	40	100	18
TNG80-ST2-18-40D	18	40	100	18
TNG80-ST2-19-40D	19	40	100	20
TNG80-ST2-20-40D	20	40	100	20

## Концевая фреза



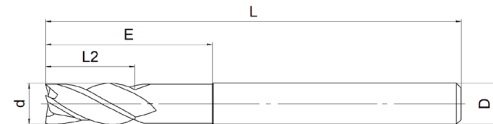
Артикул Tactic	d	L2	L	D
TNG80-ST4-1-3A	1	3	50	4
TNG80-ST4-1.5-4.5A	1.5	4.5	50	4
TNG80-ST4-2-6A	2	6	50	4
TNG80-ST4-2.5-7A	2.5	7	50	4
TNG80-ST4-3-8A	3	8	50	4
TNG80-ST4-3.5-10A	3.5	10	50	4
TNG80-ST4-4-11A	4	11	50	4
TNG80-ST4-4.5-13A	4.5	13	50	6
TNG80-ST4-5-13A	5	13	50	6
TNG80-ST4-5.5-13A	5.5	13	50	6
TNG80-ST4-6-15A	6	15	50	6
TNG80-ST4-6.5-17B	6.5	17	60	8
TNG80-ST4-7-17B	7	17	60	8
TNG80-ST4-7.5-17B	7.5	17	60	8
TNG80-ST4-8-20B	8	20	60	8
TNG80-ST4-8.5-23C	8.5	23	75	10
TNG80-ST4-9-23C	9	23	75	10
TNG80-ST4-9.5-25C	9.5	25	75	10
TNG80-ST4-10-25C	10	25	75	10
TNG80-ST4-10.5-25C	10.5	25	75	12
TNG80-ST4-11-28C	11	28	75	12
TNG80-ST4-11.5-28C	11.5	28	75	12
TNG80-ST4-12-30C	12	30	75	12
TNG80-ST4-13-33D	13	33	100	14
TNG80-ST4-14-35D	14	35	100	14
TNG80-ST4-15-38D	15	38	100	16
TNG80-ST4-16-40D	16	40	100	16
TNG80-ST4-17-40D	17	40	100	18
TNG80-ST4-18-40D	18	40	100	18
TNG80-ST4-19-40D	19	40	100	20
TNG80-ST4-20-40D	20	40	100	20

Концевая фреза с удлиненным хвостовиком и обнижением



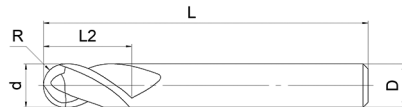
Артикул Tactic	d	L2	E	L	D
TNG80-SN2-1-3N20C	1	3	20	75	4
TNG80-SN2-1.5-4.5N20C	1.5	4.5	20	75	4
TNG80-SN2-2-6N20C	2	6	20	75	4
TNG80-SN2-2.5-7N20C	2.5	7	20	75	4
TNG80-SN2-3-8N20C	3	8	20	75	4
TNG80-SN2-3.5-10N20C	3.5	10	20	75	4
TNG80-SN2-4-11N30C	4	11	30	75	4
TNG80-SN2-4.5-13N30C	4.5	13	30	75	6
TNG80-SN2-5-20N30C	5	20	30	75	6
TNG80-SN2-5.5-20N30C	5.5	20	30	75	6
TNG80-SN2-6-20N30C	6	20	30	75	6
TNG80-SN2-8-20N30C	8	20	30	75	8
TNG80-SN2-1-3N50D	1	3	50	100	4
TNG80-SN2-1.5-4.5N50D	1.5	4.5	50	100	4
TNG80-SN2-2-6N50D	2	6	50	100	4
TNG80-SN2-2.5-7N50D	2.5	7	50	100	4
TNG80-SN2-3-8N50D	3	8	50	100	4
TNG80-SN2-4-11N50D	4	11	50	100	4
TNG80-SN2-5-20N50D	5	20	50	100	6
TNG80-SN2-6-20N50D	6	20	50	100	6
TNG80-SN2-7-30N50D	7	30	50	100	8
TNG80-SN2-8-30N50D	8	30	50	100	8
TNG80-SN2-9-30N50D	9	30	50	100	10
TNG80-SN2-10-30N50D	10	30	50	100	10
TNG80-SN2-11-30N50D	11	30	50	100	12
TNG80-SN2-12-30N50D	12	30	50	100	12
TNG80-SN2-10-40N80E	10	40	80	120	10
TNG80-SN2-12-40N80E	12	40	80	120	12
TNG80-SN2-8-40N100F	8	40	100	150	8
TNG80-SN2-10-40N100F	10	40	100	150	10
TNG80-SN2-12-40N100F	12	40	100	150	12
TNG80-SN2-16-40N100F	16	40	100	150	16
TNG80-SN2-18-40N100F	18	40	100	150	18
TNG80-SN2-20-40N100F	20	40	100	150	20
TNG80-SN2-10-50N150G	10	50	150	200	10
TNG80-SN2-12-50N150G	12	50	150	200	12
TNG80-SN2-16-50N150G	16	50	150	200	16
TNG80-SN2-20-50N150G	20	50	150	200	20

Концевая фреза с удлиненным хвостовиком и обнижением



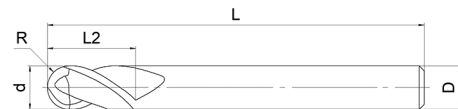
Артикул Tactic	d	L2	E	L	D
TNG80-SN4-1-3N20C	1	3	20	75	4
TNG80-SN4-1.5-4.5N20C	1.5	4.5	20	75	4
TNG80-SN4-2-6N20C	2	6	20	75	4
TNG80-SN4-2.5-7N20C	2.5	7	20	75	4
TNG80-SN4-3-8N20C	3	8	20	75	4
TNG80-SN4-3.5-10N20C	3.5	10	20	75	4
TNG80-SN4-4-11N30C	4	11	30	75	4
TNG80-SN4-4.5-13N30C	4.5	13	30	75	6
TNG80-SN4-5-20N30C	5	20	30	75	6
TNG80-SN4-5.5-20N30C	5.5	20	30	75	6
TNG80-SN4-6-20N30C	6	20	30	75	6
TNG80-SN4-8-20N30C	8	20	30	75	8
TNG80-SN4-1-3N50D	1	3	50	100	4
TNG80-SN4-1.5-4.5N50D	1.5	4.5	50	100	4
TNG80-SN4-2-6N50D	2	6	50	100	4
TNG80-SN4-2.5-7N50D	2.5	7	50	100	4
TNG80-SN4-3-8N50D	3	8	50	100	4
TNG80-SN4-4-11N50D	4	11	50	100	4
TNG80-SN4-5-20N50D	5	20	50	100	6
TNG80-SN4-6-20N50D	6	20	50	100	6
TNG80-SN4-7-30N50D	7	30	50	100	8
TNG80-SN4-8-30N50D	8	30	50	100	8
TNG80-SN4-9-30N50D	9	30	50	100	10
TNG80-SN4-10-30N50D	10	30	50	100	10
TNG80-SN4-11-30N50D	11	30	50	100	12
TNG80-SN4-12-30N50D	12	30	50	100	12
TNG80-SN4-10-40N80E	10	40	80	120	10
TNG80-SN4-12-40N80E	12	40	80	120	12
TNG80-SN4-8-40N100F	8	40	100	150	8
TNG80-SN4-10-40N100F	10	40	100	150	10
TNG80-SN4-12-40N100F	12	40	100	150	12
TNG80-SN4-16-40N100F	16	40	100	150	16
TNG80-SN4-18-40N100F	18	40	100	150	18
TNG80-SN4-20-40N100F	20	40	100	150	20
TNG80-SN4-10-50N150G	10	50	150	200	10
TNG80-SN4-12-50N150G	12	50	150	200	12
TNG80-SN4-16-50N150G	16	50	150	200	16
TNG80-SN4-20-50N150G	20	50	150	200	20

## Концевая фреза сферическая



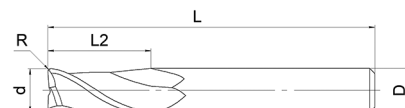
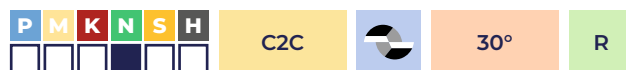
Артикул Tactic	R	L2	L	D
TNG80-BT2-1-2A	R0.5	2	50	4
TNG80-BT2-1.5-3A	R0.75	3	50	4
TNG80-BT2-2-4A	R1	4	50	4
TNG80-BT2-2.5-5A	R1.25	5	50	4
TNG80-BT2-3-6A	R1.5	6	50	4
TNG80-BT2-3.5-7A	R1.75	7	50	4
TNG80-BT2-4-8A	R2	8	50	4
TNG80-BT2-4.5-9A	R2.25	9	50	6
TNG80-BT2-5-10A	R2.5	10	50	6
TNG80-BT2-5.5-11A	R2.75	11	50	6
TNG80-BT2-6-12A	R3	12	50	6
TNG80-BT2-6.5-13B	R3.25	13	60	8
TNG80-BT2-7-14B	R3.5	14	60	8
TNG80-BT2-7.5-15B	R3.75	15	60	8
TNG80-BT2-8-16B	R4	16	60	8
TNG80-BT2-9-18C	R4.5	18	75	10
TNG80-BT2-10-20C	R5	20	75	10
TNG80-BT2-12-24C	R6	24	75	12
TNG80-BT2-16-32D	R8	32	100	16
TNG80-BT2-20-40D	R10	40	100	20

Концевая фреза сферическая  
с удлиненным хвостовиком и обнижением



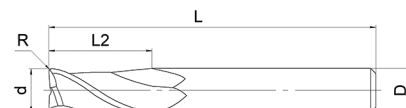
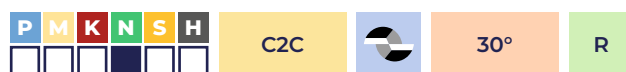
Артикул Tactic	R	L2	E	L	D
TNG80-BN2-1-2N20C	R0.5	2	20	75	4
TNG80-BN2-1.5-3N20C	R0.75	3	20	75	4
TNG80-BN2-2-4N20C	R1	4	20	75	4
TNG80-BN2-2.5-5N20C	R1.25	5	20	75	4
TNG80-BN2-3-6N20C	R1.5	6	20	75	4
TNG80-BN2-3.5-7N20C	R1.75	7	20	75	4
TNG80-BN2-4-8N30C	R2	8	30	75	4
TNG80-BN2-4.5-9N30C	R2.25	9	30	75	6
TNG80-BN2-5-10N30C	R2.5	10	30	75	6
TNG80-BN2-5.5-11N30C	R2.75	11	30	75	6
TNG80-BN2-6-12N30C	R3	12	30	75	6
TNG80-BN2-8-16N30C	R4	16	30	75	8
TNG80-BN2-1-2N50D	R0.5	2	50	100	4
TNG80-BN2-1.5-3N50D	R0.75	3	50	100	4
TNG80-BN2-2-4N50D	R1	4	50	100	4
TNG80-BN2-2.5-5N50D	R1.25	5	50	100	4
TNG80-BN2-3-6N50D	R1.5	6	50	100	4
TNG80-BN2-3.5-7N50D	R1.75	7	50	100	4
TNG80-BN2-4-8N50D	R2	8	50	100	4
TNG80-BN2-4.5-9N50D	R2.25	9	50	100	6
TNG80-BN2-5-10N50D	R2.5	10	50	100	6
TNG80-BN2-5.5-11N50D	R2.75	11	50	100	6
TNG80-BN2-6-12N50D	R3	12	50	100	6
TNG80-BN2-8-16N50D	R4	16	50	100	8
TNG80-BN2-10-20N50D	R5	20	50	100	10
TNG80-BN2-12-24N50D	R6	24	50	100	12
TNG80-BN2-10-20N80E	R5	20	80	120	10
TNG80-BN2-12-24N80E	R6	24	80	120	12
TNG80-BN2-6-12N100F	R3	12	100	150	6
TNG80-BN2-8-16N100F	R4	16	100	150	8
TNG80-BN2-10-20N100F	R5	20	100	150	10
TNG80-BN2-12-24N100F	R6	24	100	150	12
TNG80-BN2-16-32N100F	R8	32	100	150	16
TNG80-BN2-20-40N100F	R10	40	100	150	20
TNG80-BN2-10-20N150G	R5	20	150	200	10
TNG80-BN2-12-24N150G	R6	24	150	200	12
TNG80-BN2-16-32N150G	R8	32	150	200	16
TNG80-BN2-20-40N150G	R10	40	150	200	20

## Концевая фреза



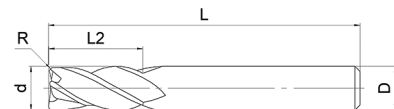
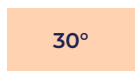
Артикул Tactic	d	R	L2	L	D
TNG80-RT2-1R0.2-3A	1	0.2	3	50	4
TNG80-RT2-1.5R0.2-5A	1.5	0.2	5	50	4
TNG80-RT2-1.5R0.5-5A	1.5	0.5	5	50	4
TNG80-RT2-2R0.2-6A	2	0.2	6	50	4
TNG80-RT2-2R0.5-6A	2	0.5	6	50	4
TNG80-RT2-2.5R0.2-7A	2.5	0.2	7	50	4
TNG80-RT2-2.5R0.5-7A	2.5	0.5	7	50	4
TNG80-RT2-3R0.2-8A	3	0.2	8	50	4
TNG80-RT2-3R0.5-8A	3	0.5	8	50	4
TNG80-RT2-3R1-8A	3	1	8	50	4
TNG80-RT2-4R0.2-11A	4	0.2	11	50	4
TNG80-RT2-4R0.5-11A	4	0.5	11	50	4
TNG80-RT2-4R1-11A	4	1	11	50	4
TNG80-RT2-5R0.5-13A	5	0.5	13	50	6
TNG80-RT2-5R1-13A	5	1	13	50	6
TNG80-RT2-6R0.2-15A	6	0.2	15	50	6
TNG80-RT2-6R0.5-15A	6	0.5	15	50	6
TNG80-RT2-6R1-15A	6	1	15	50	6
TNG80-RT2-6R1.5-15A	6	1.5	15	50	6
TNG80-RT2-6R2-15A	6	2	15	50	6
TNG80-RT2-8R0.5-20B	8	0.5	20	60	8
TNG80-RT2-8R1-20B	8	1	20	60	8
TNG80-RT2-8R1.5-20B	8	1.5	20	60	8
TNG80-RT2-8R2-20B	8	2	20	60	8
TNG80-RT2-10R0.5-25C	10	0.5	25	75	10
TNG80-RT2-10R1-25C	10	1	25	75	10
TNG80-RT2-10R1.5-25C	10	1.5	25	75	10
TNG80-RT2-10R2-25C	10	2	25	75	10
TNG80-RT2-10R2.5-25C	10	2.5	25	75	10
TNG80-RT2-10R3-25C	10	3	25	75	10
TNG80-RT2-12R0.5-30C	12	0.5	30	75	12
TNG80-RT2-12R1-30C	12	1	30	75	12
TNG80-RT2-12R1.5-30C	12	1.5	30	75	12
TNG80-RT2-12R2-30C	12	2	30	75	12
TNG80-RT2-12R2.5-30C	12	2.5	30	75	12
TNG80-RT2-12R3-30C	12	3	30	75	12
TNG80-RT2-14R0.5-35D	14	0.5	35	100	14
TNG80-RT2-14R1-35D	14	1	35	100	14
TNG80-RT2-14R1.5-35D	14	1.5	35	100	14
TNG80-RT2-14R2-35D	14	2	35	100	14
TNG80-RT2-14R2.5-35D	14	2.5	35	100	14
TNG80-RT2-14R3-35D	14	3	35	100	14
TNG80-RT2-16R0.5-40D	16	0.5	40	100	16
TNG80-RT2-16R1-40D	16	1	40	100	16
TNG80-RT2-16R1.5-40D	16	1.5	40	100	16
TNG80-RT2-16R2-40D	16	2	40	100	16
TNG80-RT2-16R2.5-40D	16	2.5	40	100	16
TNG80-RT2-16R3-40D	16	3	40	100	16
TNG80-RT2-16R4-40D	16	4	40	100	16
TNG80-RT2-20R0.5-45D	20	0.5	45	100	20
TNG80-RT2-20R1-45D	20	1	45	100	20
TNG80-RT2-20R1.5-45D	20	1.5	45	100	20
TNG80-RT2-20R2-45D	20	2	45	100	20
TNG80-RT2-20R2.5-45D	20	2.5	45	100	20

## Концевая фреза



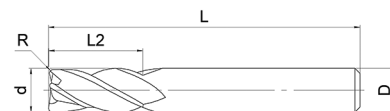
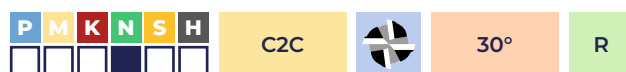
Артикул Tactic	d	R	L2	L	D
TNG80-RT2-20R3-45D	20	3	45	100	20
TNG80-RT2-20R4-45D	20	4	45	100	20

## Концевая фреза



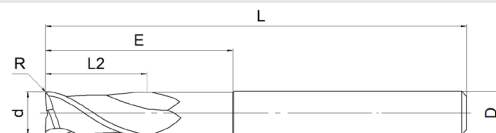
Артикул Tactic	d	R	L2	L	D
TNG80-RT4-1R0.2-3A	1	0.2	3	50	4
TNG80-RT4-1.5R0.2-5A	1.5	0.2	5	50	4
TNG80-RT4-1.5R0.5-5A	1.5	0.5	5	50	4
TNG80-RT4-2R0.2-6A	2	0.2	6	50	4
TNG80-RT4-2R0.5-6A	2	0.5	6	50	4
TNG80-RT4-2.5R0.2-7A	2.5	0.2	7	50	4
TNG80-RT4-2.5R0.5-7A	2.5	0.5	7	50	4
TNG80-RT4-3R0.2-8A	3	0.2	8	50	4
TNG80-RT4-3R0.5-8A	3	0.5	8	50	4
TNG80-RT4-3R1-8A	3	1	8	50	4
TNG80-RT4-4R0.2-11A	4	0.2	11	50	4
TNG80-RT4-4R0.5-11A	4	0.5	11	50	4
TNG80-RT4-4R1-11A	4	1	11	50	4
TNG80-RT4-5R0.5-13A	5	0.5	13	50	6
TNG80-RT4-5R1-13A	5	1	13	50	6
TNG80-RT4-6R0.2-15A	6	0.2	15	50	6
TNG80-RT4-6R0.5-15A	6	0.5	15	50	6
TNG80-RT4-6R1-15A	6	1	15	50	6
TNG80-RT4-6R1.5-15A	6	1.5	15	50	6
TNG80-RT4-6R2-15A	6	2	15	50	6
TNG80-RT4-8R0.5-20B	8	0.5	20	60	8
TNG80-RT4-8R1-20B	8	1	20	60	8
TNG80-RT4-8R1.5-20B	8	1.5	20	60	8
TNG80-RT4-8R2-20B	8	2	20	60	8
TNG80-RT4-10R0.5-25C	10	0.5	25	75	10
TNG80-RT4-10R1-25C	10	1	25	75	10
TNG80-RT4-10R1.5-25C	10	1.5	25	75	10
TNG80-RT4-10R2-25C	10	2	25	75	10
TNG80-RT4-10R2.5-25C	10	2.5	25	75	10
TNG80-RT4-10R3-25C	10	3	25	75	10
TNG80-RT4-12R0.5-30C	12	0.5	30	75	12
TNG80-RT4-12R1-30C	12	1	30	75	12
TNG80-RT4-12R1.5-30C	12	1.5	30	75	12
TNG80-RT4-12R2-30C	12	2	30	75	12
TNG80-RT4-12R2.5-30C	12	2.5	30	75	12
TNG80-RT4-12R3-30C	12	3	30	75	12
TNG80-RT4-14R0.5-35D	14	0.5	35	100	14
TNG80-RT4-14R1-35D	14	1	35	100	14
TNG80-RT4-14R1.5-35D	14	1.5	35	100	14
TNG80-RT4-14R2-35D	14	2	35	100	14
TNG80-RT4-14R2.5-35D	14	2.5	35	100	14
TNG80-RT4-14R3-35D	14	3	35	100	14
TNG80-RT4-16R0.5-40D	16	0.5	40	100	16
TNG80-RT4-16R1-40D	16	1	40	100	16
TNG80-RT4-16R1.5-40D	16	1.5	40	100	16
TNG80-RT4-16R2-40D	16	2	40	100	16
TNG80-RT4-16R2.5-40D	16	2.5	40	100	16
TNG80-RT4-16R3-40D	16	3	40	100	16
TNG80-RT4-16R4-40D	16	4	40	100	16
TNG80-RT4-20R0.5-45D	20	0.5	45	100	20
TNG80-RT4-20R1-45D	20	1	45	100	20
TNG80-RT4-20R1.5-45D	20	1.5	45	100	20
TNG80-RT4-20R2-45D	20	2	45	100	20
TNG80-RT4-20R2.5-45D	20	2.5	45	100	20

Концевая фреза



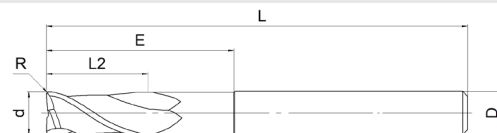
Артикул Tactic	d	R	L2	L	D
TNG80-RT4-20R3-45D	20	3	45	100	20
TNG80-RT4-20R4-45D	20	4	45	100	20

Концевая фреза с удлиненным хвостовиком и обнижением



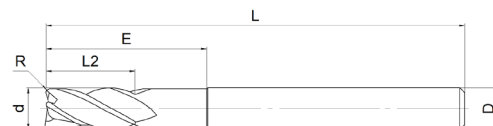
Артикул Tactic	d	R	L2	E	L	D
TNG80-RN2-1R0.2-3N20C	1	0.2	3	20	75	4
TNG80-RN2-1.5R0.2-4.5N20C	1.5	0.2	4.5	20	75	4
TNG80-RN2-1.5R0.5-4.5N20C	1.5	0.5	4.5	20	75	4
TNG80-RN2-2R0.2-6N20C	2	0.2	6	20	75	4
TNG80-RN2-2R0.5-6N20C	2	0.5	6	20	75	4
TNG80-RN2-2.5R0.2-7N20C	2.5	0.2	7	20	75	4
TNG80-RN2-2.5R0.5-7N20C	2.5	0.5	7	20	75	4
TNG80-RN2-3R0.2-8N20C	3	0.2	8	20	75	4
TNG80-RN2-3R0.5-8N20C	3	0.5	8	20	75	4
TNG80-RN2-3R1-8N20C	3	1	8	20	75	4
TNG80-RN2-4R0.2-11N30C	4	0.2	11	30	75	4
TNG80-RN2-4R0.5-11N30C	4	0.5	11	30	75	4
TNG80-RN2-4R1-11N30C	4	1	11	30	75	4
TNG80-RN2-5R0.5-13N30C	5	0.5	13	30	75	5
TNG80-RN2-5R1-13N30C	5	1	13	30	75	5
TNG80-RN2-6R0.2-15N30C	6	0.2	15	30	75	6
TNG80-RN2-6R0.5-15N30C	6	0.5	15	30	75	6
TNG80-RN2-6R1-15N30C	6	1	15	30	75	6
TNG80-RN2-6R1.5-15N30C	6	1.5	15	30	75	6
TNG80-RN2-6R2-15N30C	6	2	15	30	75	6
TNG80-RN2-8R0.5-20N30C	8	0.5	20	30	75	8
TNG80-RN2-8R1-20N30C	8	1	20	30	75	8
TNG80-RN2-8R1.5-20N30C	8	1.5	20	30	75	8
TNG80-RN2-8R2-20N30C	8	2	20	30	75	8
TNG80-RN2-4R0.2-11N50D	4	0.2	11	50	100	4
TNG80-RN2-4R0.5-11N50D	4	0.5	11	50	100	4
TNG80-RN2-4R1-11N50D	4	1	11	50	100	4
TNG80-RN2-5R0.5-13N50D	5	0.5	13	50	100	5
TNG80-RN2-5R1-13N50D	5	1	13	50	100	6
TNG80-RN2-6R0.2-15N50D	6	0.2	15	50	100	6
TNG80-RN2-6R0.5-15N50D	6	0.5	15	50	100	6
TNG80-RN2-6R1-15N50D	6	1	15	50	100	6
TNG80-RN2-6R1.5-15N50D	6	1.5	15	50	100	6
TNG80-RN2-6R2-15N50D	6	2	15	50	100	6
TNG80-RN2-8R0.5-20N50D	8	0.5	20	50	100	8
TNG80-RN2-8R1-20N50D	8	1	20	50	100	8
TNG80-RN2-8R1.5-20N50D	8	1.5	20	50	100	8
TNG80-RN2-8R2-20N50D	8	2	20	50	100	8
TNG80-RN2-10R0.5-25N50D	10	0.5	25	50	100	10
TNG80-RN2-10R1-25N50D	10	1	25	50	100	10
TNG80-RN2-10R1.5-25N50D	10	1.5	25	50	100	10
TNG80-RN2-10R2-25N50D	10	2	25	50	100	10
TNG80-RN2-10R2.5-25N50D	10	2.5	25	50	100	10
TNG80-RN2-10R3-25N50D	10	3	25	50	100	10
TNG80-RN2-12R0.5-30N50D	12	0.5	30	50	100	12
TNG80-RN2-12R1-30N50D	12	1	30	50	100	12
TNG80-RN2-12R1.5-30N50D	12	1.5	30	50	100	12
TNG80-RN2-12R2-30N50D	12	2	30	50	100	12
TNG80-RN2-12R2.5-30N50D	12	2.5	30	50	100	12
TNG80-RN2-12R3-30N50D	12	3	30	50	100	12
TNG80-RN2-10R0.5-30N80E	10	0.5	30	80	120	10
TNG80-RN2-10R1-30N80E	10	1	30	80	120	10
TNG80-RN2-12R0.5-30N80E	12	0.5	30	80	120	12
TNG80-RN2-12R1-30N80E	12	1	30	80	120	12

Концевая фреза с удлиненным хвостовиком и обнижением



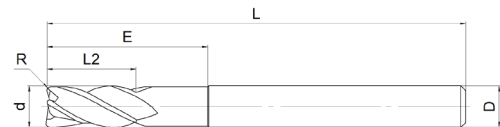
Артикул Tactic	d	R	L2	E	L	D
TNG80-RN2-6R0.5-25N100F	6	0.5	25	100	150	6
TNG80-RN2-6R1-25N100F	6	1	25	100	150	6
TNG80-RN2-8R0.5-30N100F	8	0.5	30	100	150	8
TNG80-RN2-8R1-30N100F	8	1	30	100	150	8
TNG80-RN2-10R0.5-35N100F	10	0.5	35	100	150	10
TNG80-RN2-10R1-35N100F	10	1	35	100	150	10
TNG80-RN2-10R2-35N100F	10	2	35	100	150	10
TNG80-RN2-12R0.5-35N100F	12	0.5	35	100	150	12
TNG80-RN2-12R1-35N100F	12	1	35	100	150	12
TNG80-RN2-12R2-35N100F	12	2	35	100	150	12
TNG80-RN2-16R0.5-40N100F	16	0.5	40	100	150	16
TNG80-RN2-16R1-40N100F	16	1	40	100	150	16
TNG80-RN2-16R2-40N100F	16	2	40	100	150	16
TNG80-RN2-20R0.5-40N100F	20	0.5	40	100	150	20
TNG80-RN2-20R1-40N100F	20	1	40	100	150	20
TNG80-RN2-20R2-40N100F	20	2	40	100	150	20
TNG80-RN2-10R0.5-40N150G	10	0.5	40	150	200	10
TNG80-RN2-10R1-40N150G	10	1	40	150	200	10
TNG80-RN2-12R0.5-45N150G	12	0.5	45	150	200	12
TNG80-RN2-12R1-45N150G	12	1	45	150	200	12
TNG80-RN2-16R0.5-50N150G	16	0.5	50	150	200	16
TNG80-RN2-16R1-50N150G	16	1	50	150	200	16
TNG80-RN2-20R0.5-50N150G	20	0.5	50	150	200	20
TNG80-RN2-20R1-50N150G	20	1	50	150	200	20

Концевая фреза с удлиненным хвостовиком и обнижением



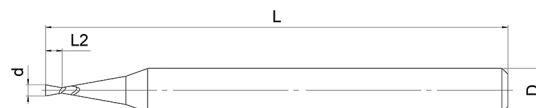
Артикул Tactic	d	R	L2	E	L	D
TNG80-RN4-1R0.2-3N20C	1	0.2	3	20	75	4
TNG80-RN4-1.5R0.2-4.5N20C	1.5	0.2	4.5	20	75	4
TNG80-RN4-1.5R0.5-4.5N20C	1.5	0.5	4.5	20	75	4
TNG80-RN4-2R0.2-6N20C	2	0.2	6	20	75	4
TNG80-RN4-2R0.5-6N20C	2	0.5	6	20	75	4
TNG80-RN4-2.5R0.2-7N20C	2.5	0.2	7	20	75	4
TNG80-RN4-2.5R0.5-7N20C	2.5	0.5	7	20	75	4
TNG80-RN4-3R0.2-8N20C	3	0.2	8	20	75	4
TNG80-RN4-3R0.5-8N20C	3	0.5	8	20	75	4
TNG80-RN4-3R1-8N20C	3	1	8	20	75	4
TNG80-RN4-4R0.2-11N30C	4	0.2	11	30	75	4
TNG80-RN4-4R0.5-11N30C	4	0.5	11	30	75	4
TNG80-RN4-4R1-11N30C	4	1	11	30	75	4
TNG80-RN4-5R0.5-13N30C	5	0.5	13	30	75	5
TNG80-RN4-5R1-13N30C	5	1	13	30	75	5
TNG80-RN4-6R0.2-15N30C	6	0.2	15	30	75	6
TNG80-RN4-6R0.5-15N30C	6	0.5	15	30	75	6
TNG80-RN4-6R1-15N30C	6	1	15	30	75	6
TNG80-RN4-6R1.5-15N30C	6	1.5	15	30	75	6
TNG80-RN4-6R2-15N30C	6	2	15	30	75	6
TNG80-RN4-8R0.5-20N30C	8	0.5	20	30	75	8
TNG80-RN4-8R1-20N30C	8	1	20	30	75	8
TNG80-RN4-8R1.5-20N30C	8	1.5	20	30	75	8
TNG80-RN4-8R2-20N30C	8	2	20	30	75	8
TNG80-RN4-4R0.2-11N50D	4	0.2	11	50	100	4
TNG80-RN4-4R0.5-11N50D	4	0.5	11	50	100	4
TNG80-RN4-4R1-11N50D	4	1	11	50	100	4
TNG80-RN4-5R0.5-13N50D	5	0.5	13	50	100	5
TNG80-RN4-5R1-13N50D	5	1	13	50	100	6
TNG80-RN4-6R0.2-15N50D	6	0.2	15	50	100	6
TNG80-RN4-6R0.5-15N50D	6	0.5	15	50	100	6
TNG80-RN4-6R1-15N50D	6	1	15	50	100	6
TNG80-RN4-6R1.5-15N50D	6	1.5	15	50	100	6
TNG80-RN4-6R2-15N50D	6	2	15	50	100	6
TNG80-RN4-8R0.5-20N50D	8	0.5	20	50	100	8
TNG80-RN4-8R1-20N50D	8	1	20	50	100	8
TNG80-RN4-8R1.5-20N50D	8	1.5	20	50	100	8
TNG80-RN4-8R2-20N50D	8	2	20	50	100	8
TNG80-RN4-10R0.5-25N50D	10	0.5	25	50	100	10
TNG80-RN4-10R1-25N50D	10	1	25	50	100	10
TNG80-RN4-10R1.5-25N50D	10	1.5	25	50	100	10
TNG80-RN4-10R2-25N50D	10	2	25	50	100	10
TNG80-RN4-10R2.5-25N50D	10	2.5	25	50	100	10
TNG80-RN4-10R3-25N50D	10	3	25	50	100	10
TNG80-RN4-12R0.5-30N50D	12	0.5	30	50	100	12
TNG80-RN4-12R1-30N50D	12	1	30	50	100	12
TNG80-RN4-12R1.5-30N50D	12	1.5	30	50	100	12
TNG80-RN4-12R2-30N50D	12	2	30	50	100	12
TNG80-RN4-12R2.5-30N50D	12	2.5	30	50	100	12
TNG80-RN4-12R3-30N50D	12	3	30	50	100	12
TNG80-RN4-10R0.5-30N80E	10	0.5	30	80	120	10
TNG80-RN4-10R1-30N80E	10	1	30	80	120	10
TNG80-RN4-12R0.5-30N80E	12	0.5	30	80	120	12
TNG80-RN4-12R1-30N80E	12	1	30	80	120	12

Концевая фреза с удлиненным хвостовиком и обнижением



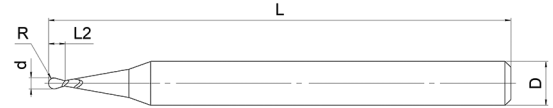
Артикул Tactic	d	R	L2	E	L	D
TNG80-RN4-6R0.5-25N100F	6	0.5	25	100	150	6
TNG80-RN4-6R1-25N100F	6	1	25	100	150	6
TNG80-RN4-8R0.5-30N100F	8	0.5	30	100	150	8
TNG80-RN4-8R1-30N100F	8	1	30	100	150	8
TNG80-RN4-10R0.5-35N100F	10	0.5	35	100	150	10
TNG80-RN4-10R1-35N100F	10	1	35	100	150	10
TNG80-RN4-10R2-35N100F	10	2	35	100	150	10
TNG80-RN4-12R0.5-35N100F	12	0.5	35	100	150	12
TNG80-RN4-12R1-35N100F	12	1	35	100	150	12
TNG80-RN4-12R2-35N100F	12	2	35	100	150	12
TNG80-RN4-16R0.5-40N100F	16	0.5	40	100	150	16
TNG80-RN4-16R1-40N100F	16	1	40	100	150	16
TNG80-RN4-16R2-40N100F	16	2	40	100	150	16
TNG80-RN4-20R0.5-40N100F	20	0.5	40	100	150	20
TNG80-RN4-20R1-40N100F	20	1	40	100	150	20
TNG80-RN4-20R2-40N100F	20	2	40	100	150	20
TNG80-RN4-10R0.5-40N150G	10	0.5	40	150	200	10
TNG80-RN4-10R1-40N150G	10	1	40	150	200	10
TNG80-RN4-12R0.5-45N150G	12	0.5	45	150	200	12
TNG80-RN4-12R1-45N150G	12	1	45	150	200	12
TNG80-RN4-16R0.5-50N150G	16	0.5	50	150	200	16
TNG80-RN4-16R1-50N150G	16	1	50	150	200	16
TNG80-RN4-20R0.5-50N150G	20	0.5	50	150	200	20
TNG80-RN4-20R1-50N150G	20	1	50	150	200	20

## Концевая микрофреза



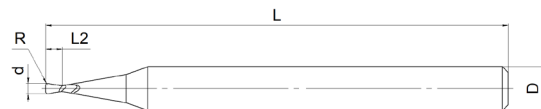
Артикул Tactic	d	L2	L	D
TNG80-ST2-0.1-0.2A	0.1	0.2	50	4
TNG80-ST2-0.15-0.3A	0.15	0.3	50	4
TNG80-ST2-0.2-0.4A	0.2	0.4	50	4
TNG80-ST2-0.3-0.6A	0.3	0.6	50	4
TNG80-ST2-0.4-0.8A	0.4	0.8	50	4
TNG80-ST2-0.5-1A	0.5	1	50	4
TNG80-ST2-0.6-1.2A	0.6	1.2	50	4
TNG80-ST2-0.7-1.4A	0.7	1.4	50	4
TNG80-ST2-0.8-1.6A	0.8	1.6	50	4
TNG80-ST2-0.9-1.8A	0.9	1.8	50	4

Концевая микрофреза  
сферическая



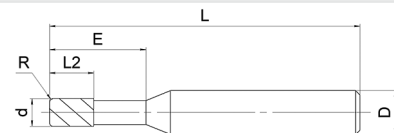
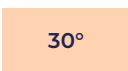
Артикул Tactic	R	L2	L	D
TNG80-BT2-0.2-0.4A	R0.1	0.4	50	4
TNG80-BT2-0.3-0.6A	R0.15	0.6	50	4
TNG80-BT2-0.4-0.8A	R0.2	0.8	50	4
TNG80-BT2-0.5-1A	R0.25	1	50	4
TNG80-BT2-0.6-1.2A	R0.3	1.2	50	4
TNG80-BT2-0.7-1.4A	R0.35	1.4	50	4
TNG80-BT2-0.8-1.6A	R0.4	1.6	50	4
TNG80-BT2-0.9-1.8A	R0.45	1.8	50	4

## Концевая микрофреза



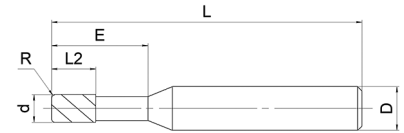
Артикул Tactic	d	R	L2	L	D
TNG80-RT2-0.1R0.01-0.2A	0.1	0.01	0.2	50	4
TNG80-RT2-0.1R0.02-0.2A	0.1	0.02	0.2	50	4
TNG80-RT2-0.15R0.01-0.3A	0.15	0.01	0.3	50	4
TNG80-RT2-0.15R0.02-0.3A	0.15	0.02	0.3	50	4
TNG80-RT2-0.15R0.05-0.3A	0.15	0.05	0.3	50	4
TNG80-RT2-0.2R0.02-0.4A	0.2	0.02	0.4	50	4
TNG80-RT2-0.2R0.05-0.4A	0.2	0.05	0.4	50	4
TNG80-RT2-0.25R0.02-0.5A	0.25	0.02	0.5	50	4
TNG80-RT2-0.25R0.05-0.5A	0.25	0.05	0.5	50	4
TNG80-RT2-0.3R0.02-0.6A	0.3	0.02	0.6	50	4
TNG80-RT2-0.3R0.05-0.6A	0.3	0.05	0.6	50	4
TNG80-RT2-0.4R0.02-0.8A	0.4	0.02	0.8	50	4
TNG80-RT2-0.4R0.05-0.8A	0.4	0.05	0.8	50	4
TNG80-RT2-0.4R0.1-0.8A	0.4	0.1	0.8	50	4
TNG80-RT2-0.5R0.02-1A	0.5	0.02	1	50	4
TNG80-RT2-0.5R0.05-1A	0.5	0.05	1	50	4
TNG80-RT2-0.5R0.1-1A	0.5	0.1	1	50	4
TNG80-RT2-0.6R0.02-1.2A	0.6	0.02	1.2	50	4
TNG80-RT2-0.6R0.05-1.2A	0.6	0.05	1.2	50	4
TNG80-RT2-0.6R0.1-1.2A	0.6	0.1	1.2	50	4
TNG80-RT2-0.6R0.2-1.2A	0.6	0.2	1.2	50	4
TNG80-RT2-0.7R0.02-1.4A	0.7	0.02	1.4	50	4
TNG80-RT2-0.7R0.05-1.4A	0.7	0.05	1.4	50	4
TNG80-RT2-0.7R0.1-1.4A	0.7	0.1	1.4	50	4
TNG80-RT2-0.7R0.2-1.4A	0.7	0.2	1.4	50	4
TNG80-RT2-0.8R0.02-1.6A	0.8	0.02	1.6	50	4
TNG80-RT2-0.8R0.05-1.6A	0.8	0.05	1.6	50	4
TNG80-RT2-0.8R0.1-1.6A	0.8	0.1	1.6	50	4
TNG80-RT2-0.8R0.2-1.6A	0.8	0.2	1.6	50	4
TNG80-RT2-0.9R0.05-1.8A	0.9	0.05	1.8	50	4
TNG80-RT2-0.9R0.1-1.8A	0.9	0.1	1.8	50	4
TNG80-RT2-0.9R0.2-1.8A	0.9	0.2	1.8	50	4

## Концевая микрофреза с обнижением



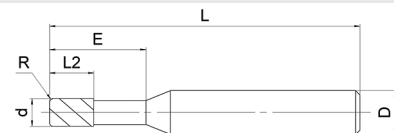
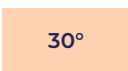
Артикул Tactic	d	R	L2	E	L	D
TNG80-RN2-0.1R0.01-0.1N0.5A	0.1	0.01	0.1	0.5	50	4
TNG80-RN2-0.1R0.01-0.1N1A	0.1	0.01	0.1	1	50	4
TNG80-RN2-0.1R0.01-0.1N2A	0.1	0.01	0.1	2	50	4
TNG80-RN2-0.1R0.02-0.1N0.5A	0.1	0.02	0.1	0.5	50	4
TNG80-RN2-0.1R0.02-0.1N1A	0.1	0.02	0.1	1	50	4
TNG80-RN2-0.1R0.02-0.1N2A	0.1	0.02	0.1	2	50	4
TNG80-RN2-0.15R0.01-0.15N1A	0.15	0.01	0.15	1	50	4
TNG80-RN2-0.15R0.01-0.15N2A	0.15	0.01	0.15	2	50	4
TNG80-RN2-0.15R0.02-0.15N1A	0.15	0.02	0.15	1	50	4
TNG80-RN2-0.15R0.02-0.15N2A	0.15	0.02	0.15	2	50	4
TNG80-RN2-0.15R0.05-0.15N1A	0.15	0.05	0.15	1	50	4
TNG80-RN2-0.15R0.05-0.15N2A	0.15	0.05	0.15	2	50	4
TNG80-RN2-0.2R0.02-0.2N1A	0.2	0.02	0.2	1	50	4
TNG80-RN2-0.2R0.02-0.2N2A	0.2	0.02	0.2	2	50	4
TNG80-RN2-0.2R0.05-0.2N1A	0.2	0.05	0.2	1	50	4
TNG80-RN2-0.2R0.05-0.2N2A	0.2	0.05	0.2	2	50	4
TNG80-RN2-0.3R0.02-0.3N1A	0.3	0.02	0.3	1	50	4
TNG80-RN2-0.3R0.02-0.3N2A	0.3	0.02	0.3	2	50	4
TNG80-RN2-0.3R0.02-0.3N3A	0.3	0.02	0.3	3	50	4
TNG80-RN2-0.3R0.05-0.3N1A	0.3	0.05	0.3	1	50	4
TNG80-RN2-0.3R0.05-0.3N2A	0.3	0.05	0.3	2	50	4
TNG80-RN2-0.3R0.05-0.3N3A	0.3	0.05	0.3	3	50	4
TNG80-RN2-0.4R0.02-0.4N1A	0.4	0.02	0.4	1	50	4
TNG80-RN2-0.4R0.02-0.4N2A	0.4	0.02	0.4	2	50	4
TNG80-RN2-0.4R0.02-0.4N3A	0.4	0.02	0.4	3	50	4
TNG80-RN2-0.4R0.02-0.4N4A	0.4	0.02	0.4	4	50	4
TNG80-RN2-0.4R0.05-0.4N1A	0.4	0.05	0.4	1	50	4
TNG80-RN2-0.4R0.05-0.4N2A	0.4	0.05	0.4	2	50	4
TNG80-RN2-0.4R0.05-0.4N3A	0.4	0.05	0.4	3	50	4
TNG80-RN2-0.4R0.05-0.4N4A	0.4	0.05	0.4	4	50	4
TNG80-RN2-0.4R0.1-0.4N1A	0.4	0.1	0.4	1	50	4
TNG80-RN2-0.4R0.1-0.4N2A	0.4	0.1	0.4	2	50	4
TNG80-RN2-0.4R0.1-0.4N3A	0.4	0.1	0.4	3	50	4
TNG80-RN2-0.4R0.1-0.4N4A	0.4	0.1	0.4	4	50	4
TNG80-RN2-0.5R0.02-0.5N2A	0.5	0.02	0.5	2	50	4
TNG80-RN2-0.5R0.02-0.5N3A	0.5	0.02	0.5	3	50	4
TNG80-RN2-0.5R0.02-0.5N4A	0.5	0.02	0.5	4	50	4
TNG80-RN2-0.5R0.02-0.5N5A	0.5	0.02	0.5	5	50	4
TNG80-RN2-0.5R0.05-0.5N2A	0.5	0.05	0.5	2	50	4
TNG80-RN2-0.5R0.05-0.5N3A	0.5	0.05	0.5	3	50	4
TNG80-RN2-0.5R0.05-0.5N4A	0.5	0.05	0.5	4	50	4
TNG80-RN2-0.5R0.05-0.5N5A	0.5	0.05	0.5	5	50	4
TNG80-RN2-0.5R0.1-0.5N2A	0.5	0.1	0.5	2	50	4
TNG80-RN2-0.5R0.1-0.5N3A	0.5	0.1	0.5	3	50	4
TNG80-RN2-0.5R0.1-0.5N4A	0.5	0.1	0.5	4	50	4
TNG80-RN2-0.5R0.1-0.5N5A	0.5	0.1	0.5	5	50	4
TNG80-RN2-0.6R0.02-0.6N2A	0.6	0.02	0.6	2	50	4
TNG80-RN2-0.6R0.02-0.6N3A	0.6	0.02	0.6	3	50	4
TNG80-RN2-0.6R0.02-0.6N4A	0.6	0.02	0.6	4	50	4
TNG80-RN2-0.6R0.02-0.6N5A	0.6	0.02	0.6	5	50	4
TNG80-RN2-0.6R0.02-0.6N6A	0.6	0.02	0.6	6	50	4
TNG80-RN2-0.6R0.05-0.6N2A	0.6	0.05	0.6	2	50	4
TNG80-RN2-0.6R0.05-0.6N3A	0.6	0.05	0.6	3	50	4
TNG80-RN2-0.6R0.05-0.6N4A	0.6	0.05	0.6	4	50	4

## Концевая микрофреза с обнижением



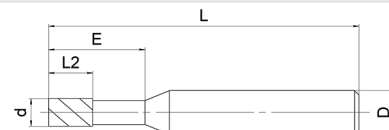
Артикул Tactic	d	R	L2	E	L	D
TNG80-RN2-0.6R0.05-0.6N5A	0.6	0.05	0.6	5	50	4
TNG80-RN2-0.6R0.05-0.6N6A	0.6	0.05	0.6	6	50	4
TNG80-RN2-0.6R0.1-0.6N2A	0.6	0.1	0.6	2	50	4
TNG80-RN2-0.6R0.1-0.6N3A	0.6	0.1	0.6	3	50	4
TNG80-RN2-0.6R0.1-0.6N4A	0.6	0.1	0.6	4	50	4
TNG80-RN2-0.6R0.1-0.6N5A	0.6	0.1	0.6	5	50	4
TNG80-RN2-0.6R0.1-0.6N6A	0.6	0.1	0.6	6	50	4
TNG80-RN2-0.6R0.2-0.6N2A	0.6	0.2	0.6	2	50	4
TNG80-RN2-0.6R0.2-0.6N3A	0.6	0.2	0.6	3	50	4
TNG80-RN2-0.6R0.2-0.6N4A	0.6	0.2	0.6	4	50	4
TNG80-RN2-0.6R0.2-0.6N5A	0.6	0.2	0.6	5	50	4
TNG80-RN2-0.6R0.2-0.6N6A	0.6	0.2	0.6	6	50	4
TNG80-RN2-0.7R0.02-0.7N2A	0.7	0.02	0.7	2	50	4
TNG80-RN2-0.7R0.02-0.7N3A	0.7	0.02	0.7	3	50	4
TNG80-RN2-0.7R0.02-0.7N4A	0.7	0.02	0.7	4	50	4
TNG80-RN2-0.7R0.02-0.7N5A	0.7	0.02	0.7	5	50	4
TNG80-RN2-0.7R0.02-0.7N6A	0.7	0.02	0.7	6	50	4
TNG80-RN2-0.7R0.02-0.7N8A	0.7	0.02	0.7	8	50	4
TNG80-RN2-0.7R0.05-0.7N2A	0.7	0.05	0.7	2	50	4
TNG80-RN2-0.7R0.05-0.7N3A	0.7	0.05	0.7	3	50	4
TNG80-RN2-0.7R0.05-0.7N4A	0.7	0.05	0.7	4	50	4
TNG80-RN2-0.7R0.05-0.7N5A	0.7	0.05	0.7	5	50	4
TNG80-RN2-0.7R0.05-0.7N6A	0.7	0.05	0.7	6	50	4
TNG80-RN2-0.7R0.05-0.7N8A	0.7	0.05	0.7	8	50	4
TNG80-RN2-0.7R0.1-0.7N2A	0.7	0.1	0.7	2	50	4
TNG80-RN2-0.7R0.1-0.7N3A	0.7	0.1	0.7	3	50	4
TNG80-RN2-0.7R0.1-0.7N4A	0.7	0.1	0.7	4	50	4
TNG80-RN2-0.7R0.1-0.7N5A	0.7	0.1	0.7	5	50	4
TNG80-RN2-0.7R0.1-0.7N6A	0.7	0.1	0.7	6	50	4
TNG80-RN2-0.7R0.1-0.7N8A	0.7	0.1	0.7	8	50	4
TNG80-RN2-0.7R0.2-0.7N2A	0.7	0.2	0.7	2	50	4
TNG80-RN2-0.7R0.2-0.7N3A	0.7	0.2	0.7	3	50	4
TNG80-RN2-0.7R0.2-0.7N4A	0.7	0.2	0.7	4	50	4
TNG80-RN2-0.7R0.2-0.7N5A	0.7	0.2	0.7	5	50	4
TNG80-RN2-0.7R0.2-0.7N6A	0.7	0.2	0.7	6	50	4
TNG80-RN2-0.7R0.2-0.7N8A	0.7	0.2	0.7	8	50	4
TNG80-RN2-0.8R0.02-0.8N2A	0.8	0.02	0.8	2	50	4
TNG80-RN2-0.8R0.02-0.8N3A	0.8	0.02	0.8	3	50	4
TNG80-RN2-0.8R0.02-0.8N4A	0.8	0.02	0.8	4	50	4
TNG80-RN2-0.8R0.02-0.8N5A	0.8	0.02	0.8	5	50	4
TNG80-RN2-0.8R0.02-0.8N6A	0.8	0.02	0.8	6	50	4
TNG80-RN2-0.8R0.02-0.8N8A	0.8	0.02	0.8	8	50	4
TNG80-RN2-0.8R0.05-0.8N2A	0.8	0.05	0.8	2	50	4
TNG80-RN2-0.8R0.05-0.8N3A	0.8	0.05	0.8	3	50	4
TNG80-RN2-0.8R0.05-0.8N4A	0.8	0.05	0.8	4	50	4
TNG80-RN2-0.8R0.05-0.8N5A	0.8	0.05	0.8	5	50	4
TNG80-RN2-0.8R0.05-0.8N6A	0.8	0.05	0.8	6	50	4
TNG80-RN2-0.8R0.05-0.8N8A	0.8	0.05	0.8	8	50	4
TNG80-RN2-0.8R0.1-0.8N2A	0.8	0.1	0.8	2	50	4
TNG80-RN2-0.8R0.1-0.8N3A	0.8	0.1	0.8	3	50	4
TNG80-RN2-0.8R0.1-0.8N4A	0.8	0.1	0.8	4	50	4
TNG80-RN2-0.8R0.1-0.8N5A	0.8	0.1	0.8	5	50	4
TNG80-RN2-0.8R0.1-0.8N6A	0.8	0.1	0.8	6	50	4
TNG80-RN2-0.8R0.1-0.8N8A	0.8	0.1	0.8	8	50	4

Концевая микрофреза  
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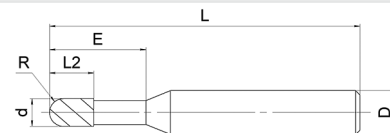
Артикул Tactic	d	R	L2	E	L	D
TNG80-RN2-0.8R0.2-0.8N2A	0.8	0.2	0.8	2	50	4
TNG80-RN2-0.8R0.2-0.8N3A	0.8	0.2	0.8	3	50	4
TNG80-RN2-0.8R0.2-0.8N4A	0.8	0.2	0.8	4	50	4
TNG80-RN2-0.8R0.2-0.8N5A	0.8	0.2	0.8	5	50	4
TNG80-RN2-0.8R0.2-0.8N6A	0.8	0.2	0.8	6	50	4
TNG80-RN2-0.8R0.2-0.8N8A	0.8	0.2	0.8	8	50	4
TNG80-RN2-0.9R0.05-0.9N3A	0.9	0.05	0.9	3	50	4
TNG80-RN2-0.9R0.05-0.9N4A	0.9	0.05	0.9	4	50	4
TNG80-RN2-0.9R0.05-0.9N6A	0.9	0.05	0.9	6	50	4
TNG80-RN2-0.9R0.05-0.9N8A	0.9	0.05	0.9	8	50	4
TNG80-RN2-0.9R0.1-0.9N3A	0.9	0.1	0.9	3	50	4
TNG80-RN2-0.9R0.1-0.9N4A	0.9	0.1	0.9	4	50	4
TNG80-RN2-0.9R0.1-0.9N6A	0.9	0.1	0.9	6	50	4
TNG80-RN2-0.9R0.1-0.9N8A	0.9	0.1	0.9	8	50	4
TNG80-RN2-0.9R0.2-0.9N3A	0.9	0.2	0.9	3	50	4
TNG80-RN2-0.9R0.2-0.9N4A	0.9	0.2	0.9	4	50	4
TNG80-RN2-0.9R0.2-0.9N6A	0.9	0.2	0.9	6	50	4
TNG80-RN2-0.9R0.2-0.9N8A	0.9	0.2	0.9	8	50	4

## Концевая микрофреза с обнижением



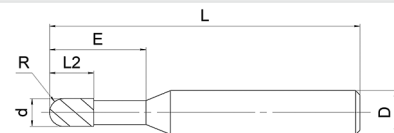
Артикул Tactic	d	L2	E	L	D
TNG80-SN2-0.1-0.1N0.5A	0.1	0.1	0.5	50	4
TNG80-SN2-0.1-0.1N1A	0.1	0.1	1	50	4
TNG80-SN2-0.1-0.1N1.5A	0.1	0.1	1.5	50	4
TNG80-SN2-0.1-0.1N2A	0.1	0.1	2	50	4
TNG80-SN2-0.15-0.15N0.5A	0.15	0.15	0.5	50	4
TNG80-SN2-0.15-0.15N1A	0.15	0.15	1	50	4
TNG80-SN2-0.15-0.15N1.5A	0.15	0.15	1.5	50	4
TNG80-SN2-0.15-0.15N2A	0.15	0.15	2	50	4
TNG80-SN2-0.2-0.2N1A	0.2	0.2	1	50	4
TNG80-SN2-0.2-0.2N2A	0.2	0.2	2	50	4
TNG80-SN2-0.2-0.2N3A	0.2	0.2	3	50	4
TNG80-SN2-0.2-0.2N4A	0.2	0.2	4	50	4
TNG80-SN2-0.25-0.25N2A	0.25	0.25	2	50	4
TNG80-SN2-0.25-0.25N3A	0.25	0.25	3	50	4
TNG80-SN2-0.25-0.25N4A	0.25	0.25	4	50	4
TNG80-SN2-0.3-0.3N2A	0.3	0.3	2	50	4
TNG80-SN2-0.3-0.3N3A	0.3	0.3	3	50	4
TNG80-SN2-0.3-0.3N4A	0.3	0.3	4	50	4
TNG80-SN2-0.3-0.3N6A	0.3	0.3	6	50	4
TNG80-SN2-0.4-0.4N2A	0.4	0.4	2	50	4
TNG80-SN2-0.4-0.4N3A	0.4	0.4	3	50	4
TNG80-SN2-0.4-0.4N4A	0.4	0.4	4	50	4
TNG80-SN2-0.4-0.4N6A	0.4	0.4	6	50	4
TNG80-SN2-0.5-0.5N2A	0.5	0.5	2	50	4
TNG80-SN2-0.5-0.5N3A	0.5	0.5	3	50	4
TNG80-SN2-0.5-0.5N4A	0.5	0.5	4	50	4
TNG80-SN2-0.5-0.5N6A	0.5	0.5	6	50	4
TNG80-SN2-0.5-0.5N8A	0.5	0.5	8	50	4
TNG80-SN2-0.5-0.5N10A	0.5	0.5	10	50	4
TNG80-SN2-0.5-0.5N12A	0.5	0.5	12	50	4
TNG80-SN2-0.6-0.6N2A	0.6	0.6	2	50	4
TNG80-SN2-0.6-0.6N3A	0.6	0.6	3	50	4
TNG80-SN2-0.6-0.6N4A	0.6	0.6	4	50	4
TNG80-SN2-0.6-0.6N6A	0.6	0.6	6	50	4
TNG80-SN2-0.6-0.6N8A	0.6	0.6	8	50	4
TNG80-SN2-0.6-0.6N10A	0.6	0.6	10	50	4
TNG80-SN2-0.6-0.6N12A	0.6	0.6	12	50	4
TNG80-SN2-0.7-0.7N3A	0.7	0.7	3	50	4
TNG80-SN2-0.7-0.7N4A	0.7	0.7	4	50	4
TNG80-SN2-0.7-0.7N6A	0.7	0.7	6	50	4
TNG80-SN2-0.7-0.7N8A	0.7	0.7	8	50	4
TNG80-SN2-0.7-0.7N10A	0.7	0.7	10	50	4
TNG80-SN2-0.7-0.7N12A	0.7	0.7	12	50	4
TNG80-SN2-0.8-0.8N3A	0.8	0.8	3	50	4
TNG80-SN2-0.8-0.8N4A	0.8	0.8	4	50	4
TNG80-SN2-0.8-0.8N6A	0.8	0.8	6	50	4
TNG80-SN2-0.8-0.8N8A	0.8	0.8	8	50	4
TNG80-SN2-0.8-0.8N10A	0.8	0.8	10	50	4
TNG80-SN2-0.8-0.8N12A	0.8	0.8	12	50	4
TNG80-SN2-0.9-0.9N3A	0.9	0.9	3	50	4
TNG80-SN2-0.9-0.9N4A	0.9	0.9	4	50	4
TNG80-SN2-0.9-0.9N6A	0.9	0.9	6	50	4
TNG80-SN2-0.9-0.9N8A	0.9	0.9	8	50	4
TNG80-SN2-0.9-0.9N10A	0.9	0.9	10	50	4
TNG80-SN2-0.9-0.9N12A	0.9	0.9	12	50	4

Концевая микрофреза  
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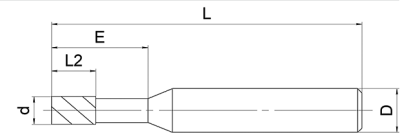
Артикул Tactic	R	L2	E	L	D
TNG80-BN2-0.2-0.2N0.5A	R0.1	0.2	0.5	50	4
TNG80-BN2-0.2-0.2N1A	R0.1	0.2	1	50	4
TNG80-BN2-0.2-0.2N1.5A	R0.1	0.2	1.5	50	4
TNG80-BN2-0.2-0.2N2A	R0.1	0.2	2	50	4
TNG80-BN2-0.3-0.3N1A	R0.15	0.3	1	50	4
TNG80-BN2-0.3-0.3N1.5A	R0.15	0.3	1.5	50	4
TNG80-BN2-0.3-0.3N2A	R0.15	0.3	2	50	4
TNG80-BN2-0.3-0.3N3A	R0.15	0.3	3	50	4
TNG80-BN2-0.3-0.3N4A	R0.15	0.3	4	50	4
TNG80-BN2-0.4-0.4N2A	R0.2	0.4	2	50	4
TNG80-BN2-0.4-0.4N3A	R0.2	0.4	3	50	4
TNG80-BN2-0.4-0.4N4A	R0.2	0.4	4	50	4
TNG80-BN2-0.4-0.4N6A	R0.2	0.4	6	50	4
TNG80-BN2-0.5-0.5N2A	R0.25	0.5	2	50	4
TNG80-BN2-0.5-0.5N3A	R0.25	0.5	3	50	4
TNG80-BN2-0.5-0.5N4A	R0.25	0.5	4	50	4
TNG80-BN2-0.5-0.5N6A	R0.25	0.5	6	50	4
TNG80-BN2-0.5-0.5N8A	R0.25	0.5	8	50	4
TNG80-BN2-0.6-0.6N3A	R0.3	0.6	3	50	4
TNG80-BN2-0.6-0.6N4A	R0.3	0.6	4	50	4
TNG80-BN2-0.6-0.6N6A	R0.3	0.6	6	50	4
TNG80-BN2-0.6-0.6N8A	R0.3	0.6	8	50	4
TNG80-BN2-0.6-0.6N10A	R0.3	0.6	10	50	4
TNG80-BN2-0.6-0.6N12A	R0.3	0.6	12	50	4
TNG80-BN2-0.7-0.7N2A	R0.35	0.7	2	50	4
TNG80-BN2-0.7-0.7N3A	R0.35	0.7	3	50	4
TNG80-BN2-0.7-0.7N4A	R0.35	0.7	4	50	4
TNG80-BN2-0.7-0.7N6A	R0.35	0.7	6	50	4
TNG80-BN2-0.7-0.7N8A	R0.35	0.7	8	50	4
TNG80-BN2-0.7-0.7N10A	R0.35	0.7	10	50	4
TNG80-BN2-0.7-0.7N12A	R0.35	0.7	12	50	4
TNG80-BN2-0.8-0.8N2A	R0.4	0.8	2	50	4
TNG80-BN2-0.8-0.8N3A	R0.4	0.8	3	50	4
TNG80-BN2-0.8-0.8N4A	R0.4	0.8	4	50	4
TNG80-BN2-0.8-0.8N6A	R0.4	0.8	6	50	4
TNG80-BN2-0.8-0.8N8A	R0.4	0.8	8	50	4
TNG80-BN2-0.8-0.8N10A	R0.4	0.8	10	50	4
TNG80-BN2-0.8-0.8N12A	R0.4	0.8	12	50	4
TNG80-BN2-0.9-0.9N4A	R0.45	0.9	4	50	4
TNG80-BN2-0.9-0.9N6A	R0.45	0.9	6	50	4
TNG80-BN2-0.9-0.9N8A	R0.45	0.9	8	50	4
TNG80-BN2-0.9-0.9N10A	R0.45	0.9	10	50	4
TNG80-BN2-0.9-0.9N12A	R0.45	0.9	12	50	4
TNG80-BN2-1-1N4A	R0.5	1	4	50	4
TNG80-BN2-1-1N6A	R0.5	1	6	50	4
TNG80-BN2-1-1N8A	R0.5	1	8	50	4
TNG80-BN2-1-1N10A	R0.5	1	10	50	4
TNG80-BN2-1-1N12A	R0.5	1	12	50	4
TNG80-BN2-1-1N16A	R0.5	1	16	50	4
TNG80-BN2-1-1N20A	R0.5	1	20	50	4
TNG80-BN2-1.5-1.5N4A	R0.75	1.5	4	50	4
TNG80-BN2-1.5-1.5N6A	R0.75	1.5	6	50	4
TNG80-BN2-1.5-1.5N8A	R0.75	1.5	8	50	4
TNG80-BN2-1.5-1.5N10A	R0.75	1.5	10	50	4

Концевая микрофреза  
сферическая с обнижением



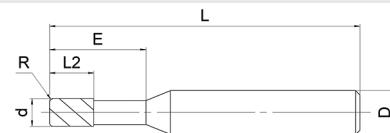
Артикул Tactic	R	L2	E	L	D
TNG80-BN2-1.5-1.5N12A	R0.75	1.5	12	50	4
TNG80-BN2-1.5-1.5N16A	R0.75	1.5	16	50	4
TNG80-BN2-1.5-1.5N20A	R0.75	1.5	20	50	4
TNG80-BN2-2-2N6A	R1	2	6	50	4
TNG80-BN2-2-2N8A	R1	2	8	50	4
TNG80-BN2-2-2N10A	R1	2	10	50	4
TNG80-BN2-2-2N12A	R1	2	12	50	4
TNG80-BN2-2-2N16A	R1	2	16	50	4
TNG80-BN2-2-2N20A	R1	2	20	50	4
TNG80-BN2-3-3N8A	R1.5	3	8	50	4
TNG80-BN2-3-3N10A	R1.5	3	10	50	4
TNG80-BN2-3-3N12A	R1.5	3	12	50	4
TNG80-BN2-3-3N16A	R1.5	3	16	50	4
TNG80-BN2-3-3N20A	R1.5	3	20	50	4
TNG80-BN2-3-3N10B	R1.5	3	10	60	6
TNG80-BN2-3-3N12B	R1.5	3	12	60	6
TNG80-BN2-3-3N16B	R1.5	3	16	60	6
TNG80-BN2-3-3N20B	R1.5	3	20	60	6
TNG80-BN2-3-3N30C	R1.5	3	30	75	6
TNG80-BN2-4-4N10B	R2	4	10	60	6
TNG80-BN2-4-4N12B	R2	4	12	60	6
TNG80-BN2-4-4N16B	R2	4	16	60	6
TNG80-BN2-4-4N20B	R2	4	20	60	6
TNG80-BN2-4-4N30C	R2	4	30	75	6

Концевая микрофреза  
с обнижением



Артикул Tactic	d	L2	E	L	D
TNG80-SN4-1-1.2N4A	1	1.2	4	50	4
TNG80-SN4-1-1.2N6A	1	1.2	6	50	4
TNG80-SN4-1-1.2N8A	1	1.2	8	50	4
TNG80-SN4-1-1.2N10A	1	1.2	10	50	4
TNG80-SN4-1-1.2N12A	1	1.2	12	50	4
TNG80-SN4-1-1.2N16A	1	1.2	16	50	4
TNG80-SN4-1-1.2N20A	1	1.2	20	50	4
TNG80-SN4-1.5-1.8N6A	1.5	1.8	6	50	4
TNG80-SN4-1.5-1.8N8A	1.5	1.8	8	50	4
TNG80-SN4-1.5-1.8N10A	1.5	1.8	10	50	4
TNG80-SN4-1.5-1.8N12A	1.5	1.8	12	50	4
TNG80-SN4-1.5-1.8N16A	1.5	1.8	16	50	4
TNG80-SN4-1.5-1.8N20A	1.5	1.8	20	50	4
TNG80-SN4-2-2.4N8A	2	2.4	8	50	4
TNG80-SN4-2-2.4N10A	2	2.4	10	50	4
TNG80-SN4-2-2.4N12A	2	2.4	12	50	4
TNG80-SN4-2-2.4N16A	2	2.4	16	50	4
TNG80-SN4-2-2.4N20A	2	2.4	20	50	4
TNG80-SN4-2.5-3N10A	2.5	3	10	50	4
TNG80-SN4-2.5-3N12A	2.5	3	12	50	4
TNG80-SN4-2.5-3N16A	2.5	3	16	50	4
TNG80-SN4-2.5-3N20A	2.5	3	20	50	4
TNG80-SN4-3-3.6N10A	3	3.6	10	50	4
TNG80-SN4-3-3.6N12A	3	3.6	12	50	4
TNG80-SN4-3-3.6N16A	3	3.6	16	50	4
TNG80-SN4-3-3.6N20A	3	3.6	20	50	4
TNG80-SN4-3-3.6N10B	3	3.6	10	60	6
TNG80-SN4-3-3.6N12B	3	3.6	12	60	6
TNG80-SN4-3-3.6N16B	3	3.6	16	60	6
TNG80-SN4-3-3.6N20B	3	3.6	20	60	6
TNG80-SN4-3-3.6N30C	3	3.6	30	75	6
TNG80-SN4-4-4.8N10B	4	4.8	10	60	6
TNG80-SN4-4-4.8N12B	4	4.8	12	60	6
TNG80-SN4-4-4.8N16B	4	4.8	16	60	6
TNG80-SN4-4-4.8N20B	4	4.8	20	60	6
TNG80-SN4-4-4.8N30C	4	4.8	30	75	6

## Концевая микрофреза с обнижением



Артикул Tactic	d	R	L2	E	L	D
TNG80-RN4-1R0.2-1.2N4A	1	0.2	1.2	4	50	4
TNG80-RN4-1R0.2-1.2N6A	1	0.2	1.2	6	50	4
TNG80-RN4-1R0.2-1.2N8A	1	0.2	1.2	8	50	4
TNG80-RN4-1R0.2-1.2N10A	1	0.2	1.2	10	50	4
TNG80-RN4-1R0.2-1.2N12A	1	0.2	1.2	12	50	4
TNG80-RN4-1R0.2-1.2N16A	1	0.2	1.2	16	50	4
TNG80-RN4-1R0.2-1.2N20A	1	0.2	1.2	20	50	4
TNG80-RN4-2R0.2-2.4N8A	2	0.2	2.4	8	50	4
TNG80-RN4-2R0.2-2.4N10A	2	0.2	2.4	10	50	4
TNG80-RN4-2R0.2-2.4N12A	2	0.2	2.4	12	50	4
TNG80-RN4-2R0.2-2.4N16A	2	0.2	2.4	16	50	4
TNG80-RN4-2R0.2-2.4N20A	2	0.2	2.4	20	50	4
TNG80-RN4-2R0.5-2.4N8A	2	0.5	2.4	8	50	4
TNG80-RN4-2R0.5-2.4N10A	2	0.5	2.4	10	50	4
TNG80-RN4-2R0.5-2.4N12A	2	0.5	2.4	12	50	4
TNG80-RN4-2R0.5-2.4N16A	2	0.5	2.4	16	50	4
TNG80-RN4-2R0.5-2.4N20A	2	0.5	2.4	20	50	4
TNG80-RN4-3R0.2-3.6N10A	3	0.2	3.6	10	50	4
TNG80-RN4-3R0.2-3.6N12A	3	0.2	3.6	12	50	4
TNG80-RN4-3R0.2-3.6N16A	3	0.2	3.6	16	50	4
TNG80-RN4-3R0.2-3.6N20A	3	0.2	3.6	20	50	4
TNG80-RN4-3R0.5-3.6N10A	3	0.5	3.6	10	50	4
TNG80-RN4-3R0.5-3.6N12A	3	0.5	3.6	12	50	4
TNG80-RN4-3R0.5-3.6N16A	3	0.5	3.6	16	50	4
TNG80-RN4-3R0.5-3.6N20A	3	0.5	3.6	20	50	4
TNG80-RN4-3R0.2-3.6N10B	3	0.2	3.6	10	60	6
TNG80-RN4-3R0.2-3.6N12B	3	0.2	3.6	12	60	6
TNG80-RN4-3R0.2-3.6N16B	3	0.2	3.6	16	60	6
TNG80-RN4-3R0.2-3.6N20B	3	0.2	3.6	20	60	6
TNG80-RN4-3R0.2-3.6N30C	3	0.2	3.6	30	75	6
TNG80-RN4-3R0.5-3.6N10B	3	0.5	3.6	10	60	6
TNG80-RN4-3R0.5-3.6N12B	3	0.5	3.6	12	60	6
TNG80-RN4-3R0.5-3.6N16B	3	0.5	3.6	16	60	6
TNG80-RN4-3R0.5-3.6N20B	3	0.5	3.6	20	60	6
TNG80-RN4-3R0.5-3.6N30C	3	0.5	3.6	30	75	6
TNG80-RN4-4R0.2-4.8N10B	4	0.2	4.8	10	60	6
TNG80-RN4-4R0.2-4.8N12B	4	0.2	4.8	12	60	6
TNG80-RN4-4R0.2-4.8N16B	4	0.2	4.8	16	60	6
TNG80-RN4-4R0.2-4.8N20B	4	0.2	4.8	20	60	6
TNG80-RN4-4R0.2-4.8N30C	4	0.2	4.8	30	75	6
TNG80-RN4-4R0.5-4.8N10B	4	0.5	4.8	10	60	6
TNG80-RN4-4R0.5-4.8N12B	4	0.5	4.8	12	60	6
TNG80-RN4-4R0.5-4.8N16B	4	0.5	4.8	16	60	6
TNG80-RN4-4R0.5-4.8N20B	4	0.5	4.8	20	60	6
TNG80-RN4-4R0.5-4.8N30C	4	0.5	4.8	30	75	6

## Графит

Плоский торец	Начальные данные			
	Общая обработка			
	f (мм/мин)	S (об/мин)	ae (мм)	ap (мм)
D1.0	160	8000	0.1	1
D2.0	250	8000	0.2	2
D3.0	430	8000	0.3	3
D4.0	570	8000	0.4	4
D6.0	720	8000	0.6	6
D8.0	860	8000	0.8	8
D10.0	1100	8000	1.0	10
D12.0	1400	7000	1.2	12
D14.0	1400	7000	1.4	14
D16.0	1500	7000	1.6	16
D18.0	1500	7000	1.8	18
D20.0	1500	7000	2.0	20

## Графит

Сферическая	Начальные данные			
	Общая обработка			
	f (мм/мин)	S (об/мин)	ae (мм)	ap (мм)
R0.5	400	16000	0.1	0.2
R0.75	600	16000	0.15	0.3
R1.0	800	16000	0.2	0.4
R1.5	1450	16000	0.3	0.6
R2.0	2100	16000	0.4	0.8
R3.0	2950	15000	0.6	1.2
R4.0	3000	13000	0.8	1.6
R5.0	3000	11500	1.0	2.0
R6.0	3200	10700	1.2	2.4
R7.0	3500	9500	1.4	2.8
R8.0	3500	8200	1.6	3.2
R10.0	3800	7000	2.0	4.0

## Графит

Радиус при вершине	Начальные данные			
	Общая обработка			
	f (мм/мин)	S (об/мин)	ae (мм)	ap (мм)
D1R0.2	2000	40000	0.3	0.3
D2R0.5	2500	40000	0.6	0.6
D3R0.5	3000	40000	0.9	0.9
D4R0.5	3500	40000	1.2	1.2
D6R0.5	5600	40000	1.8	1.8
D8R0.5	5600	32000	2.4	2.4
D10R0.5	5700	26000	3.0	3.0
D12R0.5	5500	21000	3.6	3.6
D16R0.5	5500	15800	4.8	4.8
D18R0.5	5500	13500	5.4	5.4
D20R0.5	5500	11800	6.0	6.0

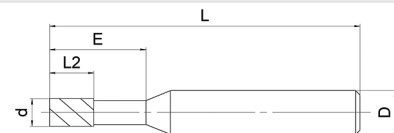
# THC10

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Фрезы CBN

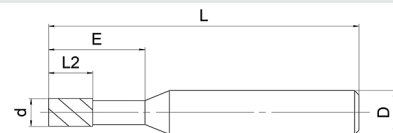


## Концевая фреза с обнижением



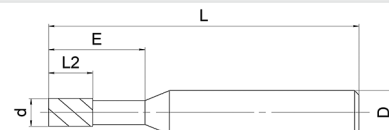
Артикул Tactic	d	L2	E	L	D
THC10-SN2-0.1-0.05N0.3A	0.1	0.05	0.3	50	4
THC10-SN2-0.1-0.05N0.5A	0.1	0.05	0.5	50	4
THC10-SN2-0.2-0.1N0.5A	0.2	0.1	0.5	50	4
THC10-SN2-0.2-0.1N1A	0.2	0.1	1	50	4
THC10-SN2-0.3-0.2N0.5A	0.3	0.2	0.5	50	4
THC10-SN2-0.3-0.2N1A	0.3	0.2	1	50	4
THC10-SN2-0.3-0.2N1.5A	0.3	0.2	1.5	50	4
THC10-SN2-0.3-0.2N2A	0.3	0.2	2	50	4
THC10-SN2-0.4-0.3N1A	0.4	0.3	1	50	4
THC10-SN2-0.4-0.3N1.5A	0.4	0.3	1.5	50	4
THC10-SN2-0.4-0.3N2A	0.4	0.3	2	50	4
THC10-SN2-0.4-0.3N3A	0.4	0.3	3	50	4
THC10-SN2-0.4-0.3N4A	0.4	0.3	4	50	4
THC10-SN2-0.4-0.3N5A	0.4	0.3	5	50	4
THC10-SN2-0.4-0.3N6A	0.4	0.3	6	50	4
THC10-SN2-0.5-0.4N1A	0.5	0.4	1	50	4
THC10-SN2-0.5-0.4N1.5A	0.5	0.4	1.5	50	4
THC10-SN2-0.5-0.4N2A	0.5	0.4	2	50	4
THC10-SN2-0.5-0.4N3A	0.5	0.4	3	50	4
THC10-SN2-0.5-0.4N4A	0.5	0.4	4	50	4
THC10-SN2-0.5-0.4N5A	0.5	0.4	5	50	4
THC10-SN2-0.5-0.4N6A	0.5	0.4	6	50	4
THC10-SN2-0.5-0.4N8A	0.5	0.4	8	50	4
THC10-SN2-0.6-0.5N1A	0.6	0.5	1	50	4
THC10-SN2-0.6-0.5N2A	0.6	0.5	2	50	4
THC10-SN2-0.6-0.5N3A	0.6	0.5	3	50	4
THC10-SN2-0.6-0.5N4A	0.6	0.5	4	50	4
THC10-SN2-0.6-0.5N5A	0.6	0.5	5	50	4
THC10-SN2-0.6-0.5N6A	0.6	0.5	6	50	4
THC10-SN2-0.6-0.5N8A	0.6	0.5	8	50	4
THC10-SN2-0.6-0.5N10A	0.6	0.5	10	50	4
THC10-SN2-0.7-0.5N1.5A	0.7	0.5	1.5	50	4
THC10-SN2-0.7-0.5N2.5A	0.7	0.5	2.5	50	4
THC10-SN2-0.7-0.5N4A	0.7	0.5	4	50	4
THC10-SN2-0.7-0.5N6A	0.7	0.5	6	50	4
THC10-SN2-0.7-0.5N8A	0.7	0.5	8	50	4
THC10-SN2-0.7-0.5N10A	0.7	0.5	10	50	4
THC10-SN2-0.8-0.6N1.5A	0.8	0.6	1.5	50	4
THC10-SN2-0.8-0.6N2.5A	0.8	0.6	2.5	50	4
THC10-SN2-0.8-0.6N4A	0.8	0.6	4	50	4
THC10-SN2-0.8-0.6N6A	0.8	0.6	6	50	4
THC10-SN2-0.8-0.6N8A	0.8	0.6	8	50	4
THC10-SN2-0.8-0.6N10A	0.8	0.6	10	50	4
THC10-SN2-0.8-0.6N12A	0.8	0.6	12	50	4
THC10-SN2-0.9-0.6N1.5A	0.9	0.6	1.5	50	4
THC10-SN2-0.9-0.6N2.5A	0.9	0.6	2.5	50	4
THC10-SN2-0.9-0.6N4A	0.9	0.6	4	50	4
THC10-SN2-0.9-0.6N6A	0.9	0.6	6	50	4
THC10-SN2-0.9-0.6N8A	0.9	0.6	8	50	4
THC10-SN2-0.9-0.6N10A	0.9	0.6	10	50	4
THC10-SN2-0.9-0.6N12A	0.9	0.6	12	50	4

## Концевая фреза с обнижением



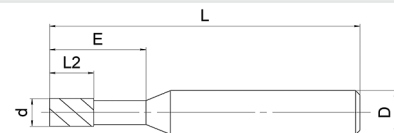
Артикул Tactic	d	L2	E	L	D
THC10-SN2-1-0.7N1.5A	1	0.7	1.5	50	4
THC10-SN2-1-0.7N2.5A	1	0.7	2.5	50	4
THC10-SN2-1-0.7N4A	1	0.7	4	50	4
THC10-SN2-1-0.7N6A	1	0.7	6	50	4
THC10-SN2-1-0.7N8A	1	0.7	8	50	4
THC10-SN2-1-0.7N10A	1	0.7	10	50	4
THC10-SN2-1-0.7N12A	1	0.7	12	50	4
THC10-SN2-1-0.7N14A	1	0.7	14	50	4
THC10-SN2-1-0.7N16A	1	0.7	16	50	4
THC10-SN2-1-0.7N20A	1	0.7	20	50	4
THC10-SN2-1.2-0.7N1.5A	1.2	0.7	1.5	50	4
THC10-SN2-1.2-0.7N3A	1.2	0.7	3	50	4
THC10-SN2-1.2-0.7N4A	1.2	0.7	4	50	4
THC10-SN2-1.2-0.7N6A	1.2	0.7	6	50	4
THC10-SN2-1.2-0.7N8A	1.2	0.7	8	50	4
THC10-SN2-1.2-0.7N10A	1.2	0.7	10	50	4
THC10-SN2-1.2-0.7N12A	1.2	0.7	12	50	4
THC10-SN2-1.2-0.7N14A	1.2	0.7	14	50	4
THC10-SN2-1.2-0.7N16A	1.2	0.7	16	50	4
THC10-SN2-1.2-0.7N20A	1.2	0.7	20	50	4
THC10-SN2-1.5-0.8N1.5A	1.5	0.8	1.5	50	4
THC10-SN2-1.5-0.8N3A	1.5	0.8	3	50	4
THC10-SN2-1.5-0.8N4A	1.5	0.8	4	50	4
THC10-SN2-1.5-0.8N6A	1.5	0.8	6	50	4
THC10-SN2-1.5-0.8N8A	1.5	0.8	8	50	4
THC10-SN2-1.5-0.8N10A	1.5	0.8	10	50	4
THC10-SN2-1.5-0.8N12A	1.5	0.8	12	50	4
THC10-SN2-1.5-0.8N14A	1.5	0.8	14	50	4
THC10-SN2-1.5-0.8N16A	1.5	0.8	16	50	4
THC10-SN2-1.5-0.8N20A	1.5	0.8	20	50	4
THC10-SN2-2-0.9N2A	2	0.9	2	50	4
THC10-SN2-2-0.9N3A	2	0.9	3	50	4
THC10-SN2-2-0.9N4A	2	0.9	4	50	4
THC10-SN2-2-0.9N6A	2	0.9	6	50	4
THC10-SN2-2-0.9N8A	2	0.9	8	50	4
THC10-SN2-2-0.9N10A	2	0.9	10	50	4
THC10-SN2-2-0.9N12A	2	0.9	12	50	4
THC10-SN2-2-0.9N14A	2	0.9	14	50	4
THC10-SN2-2-0.9N16A	2	0.9	16	50	4
THC10-SN2-2-0.9N20A	2	0.9	20	50	4
THC10-SN2-2.5-1.2N3A	2.5	1.2	3	50	4
THC10-SN2-2.5-1.2N4A	2.5	1.2	4	50	4
THC10-SN2-2.5-1.2N6A	2.5	1.2	6	50	4
THC10-SN2-2.5-1.2N8A	2.5	1.2	8	50	4
THC10-SN2-2.5-1.2N10A	2.5	1.2	10	50	4
THC10-SN2-2.5-1.2N12A	2.5	1.2	12	50	4
THC10-SN2-2.5-1.2N14A	2.5	1.2	14	50	4
THC10-SN2-2.5-1.2N16A	2.5	1.2	16	50	4
THC10-SN2-2.5-1.2N20A	2.5	1.2	20	50	4
THC10-SN2-3-1.2N3B	3	1.2	3	60	6
THC10-SN2-3-1.2N4B	3	1.2	4	60	6
THC10-SN2-3-1.2N6B	3	1.2	6	60	6
THC10-SN2-3-1.2N8B	3	1.2	8	60	6
THC10-SN2-3-1.2N10B	3	1.2	10	60	6

## Концевая фреза с обнижением



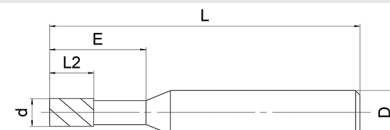
Артикул Tactic	d	L2	E	L	D
THC10-SN2-3-1.2N12B	3	1.2	12	60	6
THC10-SN2-3-1.2N14B	3	1.2	14	60	6
THC10-SN2-3-1.2N16B	3	1.2	16	60	6
THC10-SN2-3-1.2N20B	3	1.2	20	60	6
THC10-SN2-4-1.5N4B	4	1.5	4	60	6
THC10-SN2-4-1.5N6B	4	1.5	6	60	6
THC10-SN2-4-1.5N8B	4	1.5	8	60	6
THC10-SN2-4-1.5N10B	4	1.5	10	60	6
THC10-SN2-4-1.5N12B	4	1.5	12	60	6
THC10-SN2-4-1.5N14B	4	1.5	14	60	6
THC10-SN2-4-1.5N16B	4	1.5	16	60	6
THC10-SN2-4-1.5N20B	4	1.5	20	60	6
THC10-SN2-6-3N6B	6	3	6	60	6
THC10-SN2-6-3N10B	6	3	10	60	6
THC10-SN2-6-3N16B	6	3	16	60	6
THC10-SN2-6-3N20B	6	3	20	60	6

## Концевая фреза с обнижением



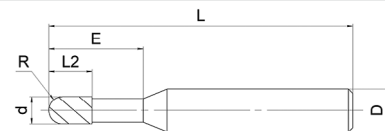
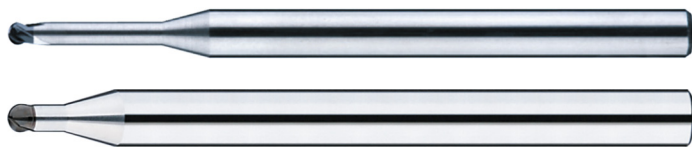
Артикул Tactic	d	L2	E	L	D
THC10-SN4-1-0.7N1.5A	1	0.7	1.5	50	4
THC10-SN4-1-0.7N2.5A	1	0.7	2.5	50	4
THC10-SN4-1-0.7N4A	1	0.7	4	50	4
THC10-SN4-1-0.7N6A	1	0.7	6	50	4
THC10-SN4-1-0.7N8A	1	0.7	8	50	4
THC10-SN4-1-0.7N10A	1	0.7	10	50	4
THC10-SN4-1-0.7N12A	1	0.7	12	50	4
THC10-SN4-1-0.7N14A	1	0.7	14	50	4
THC10-SN4-1-0.7N16A	1	0.7	16	50	4
THC10-SN4-1-0.7N20A	1	0.7	20	50	4
THC10-SN4-1.2-0.7N1.5A	1.2	0.7	1.5	50	4
THC10-SN4-1.2-0.7N3A	1.2	0.7	3	50	4
THC10-SN4-1.2-0.7N4A	1.2	0.7	4	50	4
THC10-SN4-1.2-0.7N6A	1.2	0.7	6	50	4
THC10-SN4-1.2-0.7N8A	1.2	0.7	8	50	4
THC10-SN4-1.2-0.7N10A	1.2	0.7	10	50	4
THC10-SN4-1.2-0.7N12A	1.2	0.7	12	50	4
THC10-SN4-1.2-0.7N14A	1.2	0.7	14	50	4
THC10-SN4-1.2-0.7N16A	1.2	0.7	16	50	4
THC10-SN4-1.2-0.7N20A	1.2	0.7	20	50	4
THC10-SN4-1.5-0.8N1.5A	1.5	0.8	1.5	50	4
THC10-SN4-1.5-0.8N3A	1.5	0.8	3	50	4
THC10-SN4-1.5-0.8N4A	1.5	0.8	4	50	4
THC10-SN4-1.5-0.8N6A	1.5	0.8	6	50	4
THC10-SN4-1.5-0.8N8A	1.5	0.8	8	50	4
THC10-SN4-1.5-0.8N10A	1.5	0.8	10	50	4
THC10-SN4-1.5-0.8N12A	1.5	0.8	12	50	4
THC10-SN4-1.5-0.8N14A	1.5	0.8	14	50	4
THC10-SN4-1.5-0.8N16A	1.5	0.8	16	50	4
THC10-SN4-1.5-0.8N20A	1.5	0.8	20	50	4
THC10-SN4-2-0.9N2A	2	0.9	2	50	4
THC10-SN4-2-0.9N3A	2	0.9	3	50	4
THC10-SN4-2-0.9N4A	2	0.9	4	50	4
THC10-SN4-2-0.9N6A	2	0.9	6	50	4
THC10-SN4-2-0.9N8A	2	0.9	8	50	4
THC10-SN4-2-0.9N10A	2	0.9	10	50	4
THC10-SN4-2-0.9N12A	2	0.9	12	50	4
THC10-SN4-2-0.9N14A	2	0.9	14	50	4
THC10-SN4-2-0.9N16A	2	0.9	16	50	4
THC10-SN4-2-0.9N20A	2	0.9	20	50	4
THC10-SN4-2.5-1.2N3A	2.5	1.2	3	50	4
THC10-SN4-2.5-1.2N4A	2.5	1.2	4	50	4
THC10-SN4-2.5-1.2N6A	2.5	1.2	6	50	4
THC10-SN4-2.5-1.2N8A	2.5	1.2	8	50	4
THC10-SN4-2.5-1.2N10A	2.5	1.2	10	50	4
THC10-SN4-2.5-1.2N12A	2.5	1.2	12	50	4
THC10-SN4-2.5-1.2N14A	2.5	1.2	14	50	4
THC10-SN4-2.5-1.2N16A	2.5	1.2	16	50	4
THC10-SN4-2.5-1.2N20A	2.5	1.2	20	50	4
THC10-SN4-3-1.2N3B	3	1.2	3	60	6
THC10-SN4-3-1.2N4B	3	1.2	4	60	6
THC10-SN4-3-1.2N6B	3	1.2	6	60	6
THC10-SN4-3-1.2N8B	3	1.2	8	60	6
THC10-SN4-3-1.2N10B	3	1.2	10	60	6

## Концевая фреза с обнижением



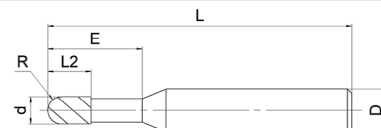
Артикул Tactic	d	L2	E	L	D
THC10-SN4-3-1.2N12B	3	1.2	12	60	6
THC10-SN4-3-1.2N14B	3	1.2	14	60	6
THC10-SN4-3-1.2N16B	3	1.2	16	60	6
THC10-SN4-3-1.2N20B	3	1.2	20	60	6
THC10-SN4-4-1.5N4B	4	1.5	4	60	6
THC10-SN4-4-1.5N6B	4	1.5	6	60	6
THC10-SN4-4-1.5N8B	4	1.5	8	60	6
THC10-SN4-4-1.5N10B	4	1.5	10	60	6
THC10-SN4-4-1.5N12B	4	1.5	12	60	6
THC10-SN4-4-1.5N14B	4	1.5	14	60	6
THC10-SN4-4-1.5N16B	4	1.5	16	60	6
THC10-SN4-4-1.5N20B	4	1.5	20	60	6
THC10-SN4-6-3N6B	6	3	6	60	6
THC10-SN4-6-3N10B	6	3	10	60	6
THC10-SN4-6-3N16B	6	3	16	60	6
THC10-SN4-6-3N20B	6	3	20	60	6

## Концевая фреза сферическая с обнижением



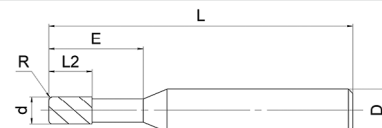
Артикул Tactic	R	L2	E	L	D
THC10-BN2-0.2-0.15N0.3A	R0.1	0.15	0.3	50	4
THC10-BN2-0.2-0.15N0.6A	R0.1	0.15	0.6	50	4
THC10-BN2-0.2-0.15N1A	R0.1	0.15	1	50	4
THC10-BN2-0.3-0.23N0.3A	R0.15	0.23	0.3	50	4
THC10-BN2-0.3-0.23N0.5A	R0.15	0.23	0.5	50	4
THC10-BN2-0.3-0.23N0.75A	R0.15	0.23	0.75	50	4
THC10-BN2-0.3-0.23N0.9A	R0.15	0.23	0.9	50	4
THC10-BN2-0.3-0.23N1.5A	R0.15	0.23	1.5	50	4
THC10-BN2-0.4-0.3N0.5A	R0.2	0.3	0.5	50	4
THC10-BN2-0.4-0.3N0.75A	R0.2	0.3	0.75	50	4
THC10-BN2-0.4-0.3N1A	R0.2	0.3	1	50	4
THC10-BN2-0.4-0.3N1.2A	R0.2	0.3	1.2	50	4
THC10-BN2-0.4-0.3N2A	R0.2	0.3	2	50	4
THC10-BN2-0.4-0.3N3A	R0.2	0.3	3	50	4
THC10-BN2-0.5-0.38N1A	R0.25	0.38	1	50	4
THC10-BN2-0.5-0.38N1.5A	R0.25	0.38	1.5	50	4
THC10-BN2-0.5-0.38N2.5A	R0.25	0.38	2.5	50	4
THC10-BN2-0.5-0.38N3.5A	R0.25	0.38	3.5	50	4
THC10-BN2-0.6-0.5N1.2A	R0.3	0.5	1.2	50	4
THC10-BN2-0.6-0.5N1.5A	R0.3	0.5	1.5	50	4
THC10-BN2-0.6-0.5N3A	R0.3	0.5	3	50	4
THC10-BN2-0.6-0.5N4A	R0.3	0.5	4	50	4
THC10-BN2-0.6-0.5N5A	R0.3	0.5	5	50	4
THC10-BN2-0.6-0.5N6A	R0.3	0.5	6	50	4
THC10-BN2-0.8-0.6N1.6A	R0.4	0.6	1.6	50	4
THC10-BN2-0.8-0.6N2A	R0.4	0.6	2	50	4
THC10-BN2-0.8-0.6N4A	R0.4	0.6	4	50	4
THC10-BN2-0.8-0.6N6A	R0.4	0.6	6	50	4
THC10-BN2-0.8-0.6N8A	R0.4	0.6	8	50	4
THC10-BN2-1-0.7N2A	R0.5	0.7	2	50	4
THC10-BN2-1-0.7N2.5A	R0.5	0.7	2.5	50	4
THC10-BN2-1-0.7N4A	R0.5	0.7	4	50	4
THC10-BN2-1-0.7N6A	R0.5	0.7	6	50	4
THC10-BN2-1-0.7N8A	R0.5	0.7	8	50	4
THC10-BN2-1-0.7N10A	R0.5	0.7	10	50	4
THC10-BN2-1.2-0.8N2.4A	R0.6	0.8	2.4	50	4
THC10-BN2-1.2-0.8N3A	R0.6	0.8	3	50	4
THC10-BN2-1.2-0.8N6A	R0.6	0.8	6	50	4
THC10-BN2-1.5-1N3A	R0.75	1	3	50	4
THC10-BN2-1.5-1N3.8A	R0.75	1	3.8	50	4
THC10-BN2-1.5-1N7.5A	R0.75	1	7.5	50	4
THC10-BN2-1.5-1N10A	R0.75	1	10	50	4
THC10-BN2-1.5-1N15A	R0.75	1	15	50	4
THC10-BN2-2-1.2N4A	R1	1.2	4	50	4
THC10-BN2-2-1.2N5A	R1	1.2	5	50	4
THC10-BN2-2-1.2N6A	R1	1.2	6	50	4
THC10-BN2-2-1.2N8A	R1	1.2	8	50	4
THC10-BN2-2-1.2N10A	R1	1.2	10	50	4
THC10-BN2-2-1.2N14A	R1	1.2	14	50	4
THC10-BN2-2-1.2N16A	R1	1.2	16	50	4
THC10-BN2-2-1.2N20A	R1	1.2	20	50	4
THC10-BN2-3-1.8N6B	R1.5	1.8	6	60	6
THC10-BN2-3-1.8N9B	R1.5	1.8	9	60	6
THC10-BN2-3-1.8N15B	R1.5	1.8	15	60	6

Концевая фреза сферическая с обнижением



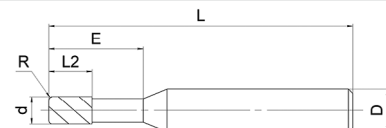
Артикул Tactic	R	L2	E	L	D
THC10-BN2-3-1.8N20B	R1.5	1.8	20	60	6
THC10-BN2-4-2.4N8B	R2	2.4	8	60	6
THC10-BN2-4-2.4N10B	R2	2.4	10	60	6
THC10-BN2-4-2.4N12B	R2	2.4	12	60	6
THC10-BN2-4-2.4N14B	R2	2.4	14	60	6
THC10-BN2-4-2.4N16B	R2	2.4	16	60	6
THC10-BN2-4-2.4N20B	R2	2.4	20	60	6
THC10-BN2-5-3N10B	R2.5	3	10	60	6
THC10-BN2-5-3N15B	R2.5	3	15	60	6
THC10-BN2-5-3N20B	R2.5	3	20	60	6
THC10-BN2-6-3.6N12B	R3	3.6	12	60	6
THC10-BN2-6-3.6N18B	R3	3.6	18	60	6
THC10-BN2-6-3.6N24C	R3	3.6	24	75	6

## Концевая фреза с обнижением



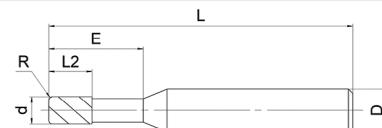
Артикул Tactic	d	R	L2	E	L	D
THC10-RN2-0.1R0.01-0.04N0.2A	0.1	0.01	0.04	0.2	50	4
THC10-RN2-0.1R0.01-0.04N0.3A	0.1	0.01	0.04	0.3	50	4
THC10-RN2-0.1R0.01-0.04N0.5A	0.1	0.01	0.04	0.5	50	4
THC10-RN2-0.1R0.02-0.04N0.2A	0.1	0.02	0.04	0.2	50	4
THC10-RN2-0.1R0.02-0.04N0.3A	0.1	0.02	0.04	0.3	50	4
THC10-RN2-0.1R0.02-0.04N0.5A	0.1	0.02	0.04	0.5	50	4
THC10-RN2-0.2R0.02-0.08N0.3A	0.2	0.02	0.08	0.3	50	4
THC10-RN2-0.2R0.02-0.08N0.5A	0.2	0.02	0.08	0.5	50	4
THC10-RN2-0.2R0.02-0.08N1.0A	0.2	0.02	0.08	1.0	50	4
THC10-RN2-0.2R0.05-0.08N0.3A	0.2	0.05	0.08	0.3	50	4
THC10-RN2-0.2R0.05-0.08N0.5A	0.2	0.05	0.08	0.5	50	4
THC10-RN2-0.2R0.05-0.08N1.0A	0.2	0.05	0.08	1.0	50	4
THC10-RN2-0.3R0.02-0.13N0.5A	0.3	0.02	0.13	0.5	50	4
THC10-RN2-0.3R0.02-0.13N0.75A	0.3	0.02	0.13	0.75	50	4
THC10-RN2-0.3R0.02-0.13N1A	0.3	0.02	0.13	1	50	4
THC10-RN2-0.3R0.02-0.13N1.5A	0.3	0.02	0.13	1.5	50	4
THC10-RN2-0.3R0.02-0.13N2A	0.3	0.02	0.13	2	50	4
THC10-RN2-0.3R0.05-0.13N0.5A	0.3	0.05	0.13	0.5	50	4
THC10-RN2-0.3R0.05-0.13N0.75A	0.3	0.05	0.13	0.75	50	4
THC10-RN2-0.3R0.05-0.13N1A	0.3	0.05	0.13	1	50	4
THC10-RN2-0.3R0.05-0.13N1.5A	0.3	0.05	0.13	1.5	50	4
THC10-RN2-0.3R0.05-0.13N2A	0.3	0.05	0.13	2	50	4
THC10-RN2-0.4R0.02-0.24N0.5A	0.4	0.02	0.24	0.5	50	4
THC10-RN2-0.4R0.02-0.24N1A	0.4	0.02	0.24	1	50	4
THC10-RN2-0.4R0.02-0.24N1.5A	0.4	0.02	0.24	1.5	50	4
THC10-RN2-0.4R0.02-0.24N2A	0.4	0.02	0.24	2	50	4
THC10-RN2-0.4R0.02-0.24N2.5A	0.4	0.02	0.24	2.5	50	4
THC10-RN2-0.4R0.02-0.24N3A	0.4	0.02	0.24	3	50	4
THC10-RN2-0.4R0.05-0.24N0.5A	0.4	0.05	0.24	0.5	50	4
THC10-RN2-0.4R0.05-0.24N1A	0.4	0.05	0.24	1	50	4
THC10-RN2-0.4R0.05-0.24N1.5A	0.4	0.05	0.24	1.5	50	4
THC10-RN2-0.4R0.05-0.24N2A	0.4	0.05	0.24	2	50	4
THC10-RN2-0.4R0.05-0.24N2.5A	0.4	0.05	0.24	2.5	50	4
THC10-RN2-0.4R0.05-0.24N3A	0.4	0.05	0.24	3	50	4
THC10-RN2-0.4R0.1-0.24N0.5A	0.4	0.1	0.24	0.5	50	4
THC10-RN2-0.4R0.1-0.24N1A	0.4	0.1	0.24	1	50	4
THC10-RN2-0.4R0.1-0.24N1.5A	0.4	0.1	0.24	1.5	50	4
THC10-RN2-0.4R0.1-0.24N2A	0.4	0.1	0.24	2	50	4
THC10-RN2-0.4R0.1-0.24N2.5A	0.4	0.1	0.24	2.5	50	4
THC10-RN2-0.4R0.1-0.24N3A	0.4	0.1	0.24	3	50	4
THC10-RN2-0.5R0.02-0.3N0.5A	0.5	0.02	0.3	0.5	50	4
THC10-RN2-0.5R0.02-0.3N1A	0.5	0.02	0.3	1	50	4
THC10-RN2-0.5R0.02-0.3N1.5A	0.5	0.02	0.3	1.5	50	4
THC10-RN2-0.5R0.02-0.3N2A	0.5	0.02	0.3	2	50	4
THC10-RN2-0.5R0.02-0.3N2.5A	0.5	0.02	0.3	2.5	50	4
THC10-RN2-0.5R0.02-0.3N3A	0.5	0.02	0.3	3	50	4
THC10-RN2-0.5R0.02-0.3N4A	0.5	0.02	0.3	4	50	4
THC10-RN2-0.5R0.05-0.3N0.5A	0.5	0.05	0.3	0.5	50	4
THC10-RN2-0.5R0.05-0.3N1A	0.5	0.05	0.3	1	50	4
THC10-RN2-0.5R0.05-0.3N1.5A	0.5	0.05	0.3	1.5	50	4
THC10-RN2-0.5R0.05-0.3N2A	0.5	0.05	0.3	2	50	4
THC10-RN2-0.5R0.05-0.3N2.5A	0.5	0.05	0.3	2.5	50	4
THC10-RN2-0.5R0.05-0.3N3A	0.5	0.05	0.3	3	50	4
THC10-RN2-0.5R0.05-0.3N4A	0.5	0.05	0.3	4	50	4

## Концевая фреза с обнижением



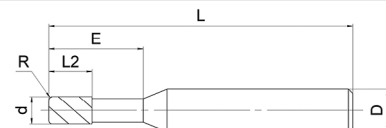
Артикул Tactic	d	R	L2	E	L	D
THC10-RN2-0.5R0.1-0.3N0.5A	0.5	0.1	0.3	0.5	50	4
THC10-RN2-0.5R0.1-0.3N1A	0.5	0.1	0.3	1	50	4
THC10-RN2-0.5R0.1-0.3N1.5A	0.5	0.1	0.3	1.5	50	4
THC10-RN2-0.5R0.1-0.3N2A	0.5	0.1	0.3	2	50	4
THC10-RN2-0.5R0.1-0.3N2.5A	0.5	0.1	0.3	2.5	50	4
THC10-RN2-0.5R0.1-0.3N3A	0.5	0.1	0.3	3	50	4
THC10-RN2-0.5R0.1-0.3N4A	0.5	0.1	0.3	4	50	4
THC10-RN2-0.6R0.02-0.3N0.5A	0.6	0.02	0.3	0.5	50	4
THC10-RN2-0.6R0.02-0.3N1A	0.6	0.02	0.3	1	50	4
THC10-RN2-0.6R0.02-0.3N1.5A	0.6	0.02	0.3	1.5	50	4
THC10-RN2-0.6R0.02-0.3N2A	0.6	0.02	0.3	2	50	4
THC10-RN2-0.6R0.02-0.3N2.5A	0.6	0.02	0.3	2.5	50	4
THC10-RN2-0.6R0.02-0.3N3A	0.6	0.02	0.3	3	50	4
THC10-RN2-0.6R0.02-0.3N4A	0.6	0.02	0.3	4	50	4
THC10-RN2-0.6R0.05-0.3N0.5A	0.6	0.05	0.3	0.5	50	4
THC10-RN2-0.6R0.05-0.3N1A	0.6	0.05	0.3	1	50	4
THC10-RN2-0.6R0.05-0.3N1.5A	0.6	0.05	0.3	1.5	50	4
THC10-RN2-0.6R0.05-0.3N2A	0.6	0.05	0.3	2	50	4
THC10-RN2-0.6R0.05-0.3N2.5A	0.6	0.05	0.3	2.5	50	4
THC10-RN2-0.6R0.05-0.3N3A	0.6	0.05	0.3	3	50	4
THC10-RN2-0.6R0.05-0.3N4A	0.6	0.05	0.3	4	50	4
THC10-RN2-0.6R0.1-0.3N0.5A	0.6	0.1	0.3	0.5	50	4
THC10-RN2-0.6R0.1-0.3N1A	0.6	0.1	0.3	1	50	4
THC10-RN2-0.6R0.1-0.3N1.5A	0.6	0.1	0.3	1.5	50	4
THC10-RN2-0.6R0.1-0.3N2A	0.6	0.1	0.3	2	50	4
THC10-RN2-0.6R0.1-0.3N2.5A	0.6	0.1	0.3	2.5	50	4
THC10-RN2-0.6R0.1-0.3N3A	0.6	0.1	0.3	3	50	4
THC10-RN2-0.6R0.1-0.3N4A	0.6	0.1	0.3	4	50	4
THC10-RN2-0.7R0.02-0.5N1A	0.7	0.02	0.5	1	50	4
THC10-RN2-0.7R0.02-0.5N1.5A	0.7	0.02	0.5	1.5	50	4
THC10-RN2-0.7R0.02-0.5N2A	0.7	0.02	0.5	2	50	4
THC10-RN2-0.7R0.02-0.5N3A	0.7	0.02	0.5	3	50	4
THC10-RN2-0.7R0.02-0.5N4A	0.7	0.02	0.5	4	50	4
THC10-RN2-0.7R0.02-0.5N5A	0.7	0.02	0.5	5	50	4
THC10-RN2-0.7R0.02-0.5N6A	0.7	0.02	0.5	6	50	4
THC10-RN2-0.7R0.05-0.5N1A	0.7	0.05	0.5	1	50	4
THC10-RN2-0.7R0.05-0.5N1.5A	0.7	0.05	0.5	1.5	50	4
THC10-RN2-0.7R0.05-0.5N2A	0.7	0.05	0.5	2	50	4
THC10-RN2-0.7R0.05-0.5N3A	0.7	0.05	0.5	3	50	4
THC10-RN2-0.7R0.05-0.5N4A	0.7	0.05	0.5	4	50	4
THC10-RN2-0.7R0.05-0.5N5A	0.7	0.05	0.5	5	50	4
THC10-RN2-0.7R0.05-0.5N6A	0.7	0.05	0.5	6	50	4
THC10-RN2-0.7R0.1-0.5N1A	0.7	0.1	0.5	1	50	4
THC10-RN2-0.7R0.1-0.5N1.5A	0.7	0.1	0.5	1.5	50	4
THC10-RN2-0.7R0.1-0.5N2A	0.7	0.1	0.5	2	50	4
THC10-RN2-0.7R0.1-0.5N3A	0.7	0.1	0.5	3	50	4
THC10-RN2-0.7R0.1-0.5N4A	0.7	0.1	0.5	4	50	4
THC10-RN2-0.7R0.1-0.5N5A	0.7	0.1	0.5	5	50	4
THC10-RN2-0.7R0.1-0.5N6A	0.7	0.1	0.5	6	50	4
THC10-RN2-0.8R0.02-0.56N1.5A	0.8	0.02	0.56	1.5	50	4
THC10-RN2-0.8R0.02-0.56N2.5A	0.8	0.02	0.56	2.5	50	4
THC10-RN2-0.8R0.02-0.56N4A	0.8	0.02	0.56	4	50	4
THC10-RN2-0.8R0.02-0.56N5A	0.8	0.02	0.56	5	50	4
THC10-RN2-0.8R0.02-0.56N6A	0.8	0.02	0.56	6	50	4

## Концевая фреза с обнижением



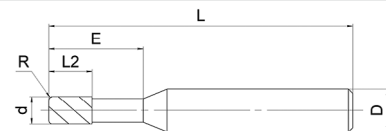
Артикул Tactic	d	R	L2	E	L	D
THC10-RN2-0.8R0.05-0.56N1.5A	0.8	0.05	0.56	1.5	50	4
THC10-RN2-0.8R0.05-0.56N2.5A	0.8	0.05	0.56	2.5	50	4
THC10-RN2-0.8R0.05-0.56N4A	0.8	0.05	0.56	4	50	4
THC10-RN2-0.8R0.05-0.56N5A	0.8	0.05	0.56	5	50	4
THC10-RN2-0.8R0.05-0.56N6A	0.8	0.05	0.56	6	50	4
THC10-RN2-0.8R0.1-0.56N1.5A	0.8	0.1	0.56	1.5	50	4
THC10-RN2-0.8R0.1-0.56N2.5A	0.8	0.1	0.56	2.5	50	4
THC10-RN2-0.8R0.1-0.56N4A	0.8	0.1	0.56	4	50	4
THC10-RN2-0.8R0.1-0.56N5A	0.8	0.1	0.56	5	50	4
THC10-RN2-0.8R0.1-0.56N6A	0.8	0.1	0.56	6	50	4
THC10-RN2-0.9R0.02-0.63N1.5A	0.9	0.02	0.63	1.5	50	4
THC10-RN2-0.9R0.02-0.63N2.5A	0.9	0.02	0.63	2.5	50	4
THC10-RN2-0.9R0.02-0.63N4A	0.9	0.02	0.63	4	50	4
THC10-RN2-0.9R0.02-0.63N5A	0.9	0.02	0.63	5	50	4
THC10-RN2-0.9R0.02-0.63N6A	0.9	0.02	0.63	6	50	4
THC10-RN2-0.9R0.02-0.63N8A	0.9	0.02	0.63	8	50	4
THC10-RN2-0.9R0.05-0.63N1.5A	0.9	0.05	0.63	1.5	50	4
THC10-RN2-0.9R0.05-0.63N2.5A	0.9	0.05	0.63	2.5	50	4
THC10-RN2-0.9R0.05-0.63N4A	0.9	0.05	0.63	4	50	4
THC10-RN2-0.9R0.05-0.63N5A	0.9	0.05	0.63	5	50	4
THC10-RN2-0.9R0.05-0.63N6A	0.9	0.05	0.63	6	50	4
THC10-RN2-0.9R0.05-0.63N8A	0.9	0.05	0.63	8	50	4
THC10-RN2-0.9R0.1-0.63N1.5A	0.9	0.1	0.63	1.5	50	4
THC10-RN2-0.9R0.1-0.63N2.5A	0.9	0.1	0.63	2.5	50	4
THC10-RN2-0.9R0.1-0.63N4A	0.9	0.1	0.63	4	50	4
THC10-RN2-0.9R0.1-0.63N5A	0.9	0.1	0.63	5	50	4
THC10-RN2-0.9R0.1-0.63N6A	0.9	0.1	0.63	6	50	4
THC10-RN2-0.9R0.1-0.63N8A	0.9	0.1	0.63	8	50	4
THC10-RN2-1R0.02-0.7N1A	1	0.02	0.7	1	50	4
THC10-RN2-1R0.02-0.7N2A	1	0.02	0.7	2	50	4
THC10-RN2-1R0.02-0.7N3A	1	0.02	0.7	3	50	4
THC10-RN2-1R0.02-0.7N4A	1	0.02	0.7	4	50	4
THC10-RN2-1R0.02-0.7N5A	1	0.02	0.7	5	50	4
THC10-RN2-1R0.02-0.7N6A	1	0.02	0.7	6	50	4
THC10-RN2-1R0.02-0.7N8A	1	0.02	0.7	8	50	4
THC10-RN2-1R0.02-0.7N10A	1	0.02	0.7	10	50	4
THC10-RN2-1R0.05-0.7N1A	1	0.05	0.7	1	50	4
THC10-RN2-1R0.05-0.7N2A	1	0.05	0.7	2	50	4
THC10-RN2-1R0.05-0.7N3A	1	0.05	0.7	3	50	4
THC10-RN2-1R0.05-0.7N4A	1	0.05	0.7	4	50	4
THC10-RN2-1R0.05-0.7N5A	1	0.05	0.7	5	50	4
THC10-RN2-1R0.05-0.7N6A	1	0.05	0.7	6	50	4
THC10-RN2-1R0.05-0.7N8A	1	0.05	0.7	8	50	4
THC10-RN2-1R0.05-0.7N10A	1	0.05	0.7	10	50	4
THC10-RN2-1R0.1-0.7N1A	1	0.1	0.7	1	50	4
THC10-RN2-1R0.1-0.7N2A	1	0.1	0.7	2	50	4
THC10-RN2-1R0.1-0.7N3A	1	0.1	0.7	3	50	4
THC10-RN2-1R0.1-0.7N4A	1	0.1	0.7	4	50	4
THC10-RN2-1R0.1-0.7N5A	1	0.1	0.7	5	50	4
THC10-RN2-1R0.1-0.7N6A	1	0.1	0.7	6	50	4
THC10-RN2-1R0.1-0.7N8A	1	0.1	0.7	8	50	4
THC10-RN2-1R0.1-0.7N10A	1	0.1	0.7	10	50	4
THC10-RN2-1R0.2-0.7N1A	1	0.2	0.7	1	50	4
THC10-RN2-1R0.2-0.7N2A	1	0.2	0.7	2	50	4

## Концевая фреза с обнижением



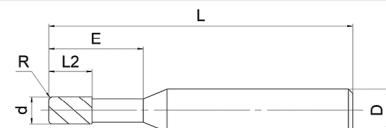
Артикул Tactic	d	R	L2	E	L	D
THC10-RN2-1R0.2-0.7N3A	1	0.2	0.7	3	50	4
THC10-RN2-1R0.2-0.7N4A	1	0.2	0.7	4	50	4
THC10-RN2-1R0.2-0.7N5A	1	0.2	0.7	5	50	4
THC10-RN2-1R0.2-0.7N6A	1	0.2	0.7	6	50	4
THC10-RN2-1R0.2-0.7N8A	1	0.2	0.7	8	50	4
THC10-RN2-1R0.2-0.7N10A	1	0.2	0.7	10	50	4
THC10-RN2-1.2R0.02-0.7N2A	1.2	0.02	0.7	2	50	4
THC10-RN2-1.2R0.02-0.7N3A	1.2	0.02	0.7	3	50	4
THC10-RN2-1.2R0.02-0.7N4A	1.2	0.02	0.7	4	50	4
THC10-RN2-1.2R0.02-0.7N6A	1.2	0.02	0.7	6	50	4
THC10-RN2-1.2R0.02-0.7N8A	1.2	0.02	0.7	8	50	4
THC10-RN2-1.2R0.02-0.7N10A	1.2	0.02	0.7	10	50	4
THC10-RN2-1.2R0.05-0.7N2A	1.2	0.05	0.7	2	50	4
THC10-RN2-1.2R0.05-0.7N3A	1.2	0.05	0.7	3	50	4
THC10-RN2-1.2R0.05-0.7N4A	1.2	0.05	0.7	4	50	4
THC10-RN2-1.2R0.05-0.7N6A	1.2	0.05	0.7	6	50	4
THC10-RN2-1.2R0.05-0.7N8A	1.2	0.05	0.7	8	50	4
THC10-RN2-1.2R0.05-0.7N10A	1.2	0.05	0.7	10	50	4
THC10-RN2-1.2R0.1-0.7N2A	1.2	0.1	0.7	2	50	4
THC10-RN2-1.2R0.1-0.7N3A	1.2	0.1	0.7	3	50	4
THC10-RN2-1.2R0.1-0.7N4A	1.2	0.1	0.7	4	50	4
THC10-RN2-1.2R0.1-0.7N6A	1.2	0.1	0.7	6	50	4
THC10-RN2-1.2R0.1-0.7N8A	1.2	0.1	0.7	8	50	4
THC10-RN2-1.2R0.1-0.7N10A	1.2	0.1	0.7	10	50	4
THC10-RN2-1.2R0.2-0.7N2A	1.2	0.2	0.7	2	50	4
THC10-RN2-1.2R0.2-0.7N3A	1.2	0.2	0.7	3	50	4
THC10-RN2-1.2R0.2-0.7N4A	1.2	0.2	0.7	4	50	4
THC10-RN2-1.2R0.2-0.7N6A	1.2	0.2	0.7	6	50	4
THC10-RN2-1.2R0.2-0.7N8A	1.2	0.2	0.7	8	50	4
THC10-RN2-1.2R0.2-0.7N10A	1.2	0.2	0.7	10	50	4
THC10-RN2-1.5R0.02-1N2A	1.5	0.02	1	2	50	4
THC10-RN2-1.5R0.02-1N3A	1.5	0.02	1	3	50	4
THC10-RN2-1.5R0.02-1N4A	1.5	0.02	1	4	50	4
THC10-RN2-1.5R0.02-1N6A	1.5	0.02	1	6	50	4
THC10-RN2-1.5R0.02-1N8A	1.5	0.02	1	8	50	4
THC10-RN2-1.5R0.02-1N10A	1.5	0.02	1	10	50	4
THC10-RN2-1.5R0.05-1N2A	1.5	0.05	1	2	50	4
THC10-RN2-1.5R0.05-1N3A	1.5	0.05	1	3	50	4
THC10-RN2-1.5R0.05-1N4A	1.5	0.05	1	4	50	4
THC10-RN2-1.5R0.05-1N6A	1.5	0.05	1	6	50	4
THC10-RN2-1.5R0.05-1N8A	1.5	0.05	1	8	50	4
THC10-RN2-1.5R0.05-1N10A	1.5	0.05	1	10	50	4
THC10-RN2-1.5R0.1-1N2A	1.5	0.1	1	2	50	4
THC10-RN2-1.5R0.1-1N3A	1.5	0.1	1	3	50	4
THC10-RN2-1.5R0.1-1N4A	1.5	0.1	1	4	50	4
THC10-RN2-1.5R0.1-1N6A	1.5	0.1	1	6	50	4
THC10-RN2-1.5R0.1-1N8A	1.5	0.1	1	8	50	4
THC10-RN2-1.5R0.1-1N10A	1.5	0.1	1	10	50	4
THC10-RN2-1.5R0.2-1N2A	1.5	0.2	1	2	50	4
THC10-RN2-1.5R0.2-1N3A	1.5	0.2	1	3	50	4
THC10-RN2-1.5R0.2-1N4A	1.5	0.2	1	4	50	4
THC10-RN2-1.5R0.2-1N6A	1.5	0.2	1	6	50	4
THC10-RN2-1.5R0.2-1N8A	1.5	0.2	1	8	50	4
THC10-RN2-1.5R0.2-1N10A	1.5	0.2	1	10	50	4

## Концевая фреза с обнижением



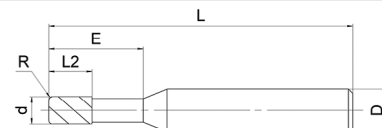
Артикул Tactic	d	R	L2	E	L	D
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THC10-RN2-2R0.02-1.2N4A	2	0.02	1.2	4	50	4
THC10-RN2-2R0.02-1.2N6A	2	0.02	1.2	6	50	4
THC10-RN2-2R0.02-1.2N8A	2	0.02	1.2	8	50	4
THC10-RN2-2R0.02-1.2N10A	2	0.02	1.2	10	50	4
THC10-RN2-2R0.05-1.2N3A	2	0.05	1.2	3	50	4
THC10-RN2-2R0.05-1.2N4A	2	0.05	1.2	4	50	4
THC10-RN2-2R0.05-1.2N6A	2	0.05	1.2	6	50	4
THC10-RN2-2R0.05-1.2N8A	2	0.05	1.2	8	50	4
THC10-RN2-2R0.05-1.2N10A	2	0.05	1.2	10	50	4
THC10-RN2-2R0.1-1.2N3A	2	0.1	1.2	3	50	4
THC10-RN2-2R0.1-1.2N4A	2	0.1	1.2	4	50	4
THC10-RN2-2R0.1-1.2N6A	2	0.1	1.2	6	50	4
THC10-RN2-2R0.1-1.2N8A	2	0.1	1.2	8	50	4
THC10-RN2-2R0.1-1.2N10A	2	0.1	1.2	10	50	4
THC10-RN2-2R0.2-1.2N3A	2	0.2	1.2	3	50	4
THC10-RN2-2R0.2-1.2N4A	2	0.2	1.2	4	50	4
THC10-RN2-2R0.2-1.2N6A	2	0.2	1.2	6	50	4
THC10-RN2-2R0.2-1.2N8A	2	0.2	1.2	8	50	4
THC10-RN2-2R0.2-1.2N10A	2	0.2	1.2	10	50	4
THC10-RN2-2R0.5-1.2N3A	2	0.5	1.2	3	50	4
THC10-RN2-2R0.5-1.2N4A	2	0.5	1.2	4	50	4
THC10-RN2-2R0.5-1.2N6A	2	0.5	1.2	6	50	4
THC10-RN2-2R0.5-1.2N8A	2	0.5	1.2	8	50	4
THC10-RN2-2R0.5-1.2N10A	2	0.5	1.2	10	50	4
THC10-RN2-2.5R0.05-1.5N4A	2.5	0.05	1.5	4	50	4
THC10-RN2-2.5R0.05-1.5N6A	2.5	0.05	1.5	6	50	4
THC10-RN2-2.5R0.05-1.5N8A	2.5	0.05	1.5	8	50	4
THC10-RN2-2.5R0.05-1.5N10A	2.5	0.05	1.5	10	50	4
THC10-RN2-2.5R0.1-1.5N4A	2.5	0.1	1.5	4	50	4
THC10-RN2-2.5R0.1-1.5N6A	2.5	0.1	1.5	6	50	4
THC10-RN2-2.5R0.1-1.5N8A	2.5	0.1	1.5	8	50	4
THC10-RN2-2.5R0.1-1.5N10A	2.5	0.1	1.5	10	50	4
THC10-RN2-2.5R0.2-1.5N4A	2.5	0.2	1.5	4	50	4
THC10-RN2-2.5R0.2-1.5N6A	2.5	0.2	1.5	6	50	4
THC10-RN2-2.5R0.2-1.5N8A	2.5	0.2	1.5	8	50	4
THC10-RN2-2.5R0.2-1.5N10A	2.5	0.2	1.5	10	50	4
THC10-RN2-2.5R0.5-1.5N4A	2.5	0.5	1.5	4	50	4
THC10-RN2-2.5R0.5-1.5N6A	2.5	0.5	1.5	6	50	4
THC10-RN2-2.5R0.5-1.5N8A	2.5	0.5	1.5	8	50	4
THC10-RN2-2.5R0.5-1.5N10A	2.5	0.5	1.5	10	50	4
THC10-RN2-3R0.05-1.8N6B	3	0.05	1.8	6	60	6
THC10-RN2-3R0.05-1.8N9B	3	0.05	1.8	9	60	6
THC10-RN2-3R0.05-1.8N12B	3	0.05	1.8	12	60	6
THC10-RN2-3R0.05-1.8N15B	3	0.05	1.8	15	60	6
THC10-RN2-3R0.1-1.8N6B	3	0.1	1.8	6	60	6
THC10-RN2-3R0.1-1.8N9B	3	0.1	1.8	9	60	6
THC10-RN2-3R0.1-1.8N12B	3	0.1	1.8	12	60	6
THC10-RN2-3R0.1-1.8N15B	3	0.1	1.8	15	60	6
THC10-RN2-3R0.2-1.8N6B	3	0.2	1.8	6	60	6
THC10-RN2-3R0.2-1.8N9B	3	0.2	1.8	9	60	6
THC10-RN2-3R0.2-1.8N12B	3	0.2	1.8	12	60	6
THC10-RN2-3R0.2-1.8N15B	3	0.2	1.8	15	60	6
THC10-RN2-3R0.5-1.8N6B	3	0.5	1.8	6	60	6

## Концевая фреза с обнижением



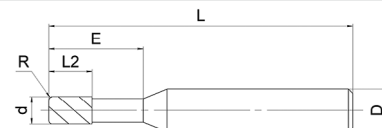
Артикул Tactic	d	R	L2	E	L	D
THC10-RN2-3R0.5-1.8N9B	3	0.5	1.8	9	60	6
THC10-RN2-3R0.5-1.8N12B	3	0.5	1.8	12	60	6
THC10-RN2-3R0.5-1.8N15B	3	0.5	1.8	15	60	6
THC10-RN2-4R0.1-2N6B	4	0.1	2	6	60	6
THC10-RN2-4R0.1-2N8B	4	0.1	2	8	60	6
THC10-RN2-4R0.1-2N10B	4	0.1	2	10	60	6
THC10-RN2-4R0.1-2N12B	4	0.1	2	12	60	6
THC10-RN2-4R0.1-2N16B	4	0.1	2	16	60	6
THC10-RN2-4R0.1-2N20B	4	0.1	2	20	60	6
THC10-RN2-4R0.2-2N6B	4	0.2	2	6	60	6
THC10-RN2-4R0.2-2N8B	4	0.2	2	8	60	6
THC10-RN2-4R0.2-2N10B	4	0.2	2	10	60	6
THC10-RN2-4R0.2-2N12B	4	0.2	2	12	60	6
THC10-RN2-4R0.2-2N16B	4	0.2	2	16	60	6
THC10-RN2-4R0.2-2N20B	4	0.2	2	20	60	6
THC10-RN2-4R0.5-2N6B	4	0.5	2	6	60	6
THC10-RN2-4R0.5-2N8B	4	0.5	2	8	60	6
THC10-RN2-4R0.5-2N10B	4	0.5	2	10	60	6
THC10-RN2-4R0.5-2N12B	4	0.5	2	12	60	6
THC10-RN2-4R0.5-2N16B	4	0.5	2	16	60	6
THC10-RN2-4R0.5-2N20B	4	0.5	2	20	60	6
THC10-RN2-4R1-2N6B	4	1	2	6	60	6
THC10-RN2-4R1-2N8B	4	1	2	8	60	6
THC10-RN2-4R1-2N10B	4	1	2	10	60	6
THC10-RN2-4R1-2N12B	4	1	2	12	60	6
THC10-RN2-4R1-2N16B	4	1	2	16	60	6
THC10-RN2-4R1-2N20B	4	1	2	20	60	6
THC10-RN2-6R0.2-3N6B	6	0.2	3	6	60	6
THC10-RN2-6R0.2-3N8B	6	0.2	3	8	60	6
THC10-RN2-6R0.2-3N10B	6	0.2	3	10	60	6
THC10-RN2-6R0.2-3N12B	6	0.2	3	12	60	6
THC10-RN2-6R0.2-3N16B	6	0.2	3	16	60	6
THC10-RN2-6R0.2-3N20B	6	0.2	3	20	60	6
THC10-RN2-6R0.5-3N6B	6	0.5	3	6	60	6
THC10-RN2-6R0.5-3N8B	6	0.5	3	8	60	6
THC10-RN2-6R0.5-3N10B	6	0.5	3	10	60	6
THC10-RN2-6R0.5-3N12B	6	0.5	3	12	60	6
THC10-RN2-6R0.5-3N16B	6	0.5	3	16	60	6
THC10-RN2-6R0.5-3N20B	6	0.5	3	20	60	6
THC10-RN2-6R1-3N6B	6	1	3	6	60	6
THC10-RN2-6R1-3N8B	6	1	3	8	60	6
THC10-RN2-6R1-3N10B	6	1	3	10	60	6
THC10-RN2-6R1-3N12B	6	1	3	12	60	6
THC10-RN2-6R1-3N16B	6	1	3	16	60	6
THC10-RN2-6R1-3N20B	6	1	3	20	60	6

## Концевая фреза с обнижением



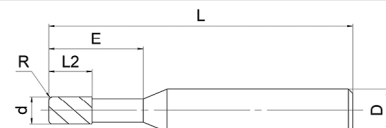
Артикул Tactic	d	R	L2	E	L	D
THC10-RN4-1R0.02-0.7N1A	1	0.02	0.7	1	50	4
THC10-RN4-1R0.02-0.7N2A	1	0.02	0.7	2	50	4
THC10-RN4-1R0.02-0.7N3A	1	0.02	0.7	3	50	4
THC10-RN4-1R0.02-0.7N4A	1	0.02	0.7	4	50	4
THC10-RN4-1R0.02-0.7N5A	1	0.02	0.7	5	50	4
THC10-RN4-1R0.02-0.7N6A	1	0.02	0.7	6	50	4
THC10-RN4-1R0.02-0.7N8A	1	0.02	0.7	8	50	4
THC10-RN4-1R0.02-0.7N10A	1	0.02	0.7	10	50	4
THC10-RN4-1R0.05-0.7N1A	1	0.05	0.7	1	50	4
THC10-RN4-1R0.05-0.7N2A	1	0.05	0.7	2	50	4
THC10-RN4-1R0.05-0.7N3A	1	0.05	0.7	3	50	4
THC10-RN4-1R0.05-0.7N4A	1	0.05	0.7	4	50	4
THC10-RN4-1R0.05-0.7N5A	1	0.05	0.7	5	50	4
THC10-RN4-1R0.05-0.7N6A	1	0.05	0.7	6	50	4
THC10-RN4-1R0.05-0.7N8A	1	0.05	0.7	8	50	4
THC10-RN4-1R0.05-0.7N10A	1	0.05	0.7	10	50	4
THC10-RN4-1R0.1-0.7N1A	1	0.1	0.7	1	50	4
THC10-RN4-1R0.1-0.7N2A	1	0.1	0.7	2	50	4
THC10-RN4-1R0.1-0.7N3A	1	0.1	0.7	3	50	4
THC10-RN4-1R0.1-0.7N4A	1	0.1	0.7	4	50	4
THC10-RN4-1R0.1-0.7N5A	1	0.1	0.7	5	50	4
THC10-RN4-1R0.1-0.7N6A	1	0.1	0.7	6	50	4
THC10-RN4-1R0.1-0.7N8A	1	0.1	0.7	8	50	4
THC10-RN4-1R0.1-0.7N10A	1	0.1	0.7	10	50	4
THC10-RN4-1R0.2-0.7N1A	1	0.2	0.7	1	50	4
THC10-RN4-1R0.2-0.7N2A	1	0.2	0.7	2	50	4
THC10-RN4-1R0.2-0.7N3A	1	0.2	0.7	3	50	4
THC10-RN4-1R0.2-0.7N4A	1	0.2	0.7	4	50	4
THC10-RN4-1R0.2-0.7N5A	1	0.2	0.7	5	50	4
THC10-RN4-1R0.2-0.7N6A	1	0.2	0.7	6	50	4
THC10-RN4-1R0.2-0.7N8A	1	0.2	0.7	8	50	4
THC10-RN4-1R0.2-0.7N10A	1	0.2	0.7	10	50	4
THC10-RN4-1.2R0.02-0.7N2A	1.2	0.02	0.7	2	50	4
THC10-RN4-1.2R0.02-0.7N3A	1.2	0.02	0.7	3	50	4
THC10-RN4-1.2R0.02-0.7N4A	1.2	0.02	0.7	4	50	4
THC10-RN4-1.2R0.02-0.7N6A	1.2	0.02	0.7	6	50	4
THC10-RN4-1.2R0.02-0.7N8A	1.2	0.02	0.7	8	50	4
THC10-RN4-1.2R0.02-0.7N10A	1.2	0.02	0.7	10	50	4
THC10-RN4-1.2R0.05-0.7N2A	1.2	0.05	0.7	2	50	4
THC10-RN4-1.2R0.05-0.7N3A	1.2	0.05	0.7	3	50	4
THC10-RN4-1.2R0.05-0.7N4A	1.2	0.05	0.7	4	50	4
THC10-RN4-1.2R0.05-0.7N6A	1.2	0.05	0.7	6	50	4
THC10-RN4-1.2R0.05-0.7N8A	1.2	0.05	0.7	8	50	4
THC10-RN4-1.2R0.05-0.7N10A	1.2	0.05	0.7	10	50	4
THC10-RN4-1.2R0.1-0.7N2A	1.2	0.1	0.7	2	50	4
THC10-RN4-1.2R0.1-0.7N3A	1.2	0.1	0.7	3	50	4
THC10-RN4-1.2R0.1-0.7N4A	1.2	0.1	0.7	4	50	4
THC10-RN4-1.2R0.1-0.7N6A	1.2	0.1	0.7	6	50	4
THC10-RN4-1.2R0.1-0.7N8A	1.2	0.1	0.7	8	50	4
THC10-RN4-1.2R0.1-0.7N10A	1.2	0.1	0.7	10	50	4
THC10-RN4-1.2R0.2-0.7N2A	1.2	0.2	0.7	2	50	4
THC10-RN4-1.2R0.2-0.7N3A	1.2	0.2	0.7	3	50	4
THC10-RN4-1.2R0.2-0.7N4A	1.2	0.2	0.7	4	50	4
THC10-RN4-1.2R0.2-0.7N6A	1.2	0.2	0.7	6	50	4

## Концевая фреза с обнижением



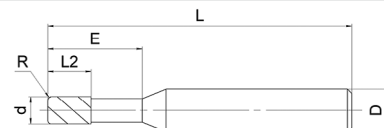
Артикул Tactic	d	R	L2	E	L	D
THC10-RN4-1.2R0.2-0.7N8A	1.2	0.2	0.7	8	50	4
THC10-RN4-1.2R0.2-0.7N10A	1.2	0.2	0.7	10	50	4
THC10-RN4-1.5R0.02-1N2A	1.5	0.02	1	2	50	4
THC10-RN4-1.5R0.02-1N3A	1.5	0.02	1	3	50	4
THC10-RN4-1.5R0.02-1N4A	1.5	0.02	1	4	50	4
THC10-RN4-1.5R0.02-1N6A	1.5	0.02	1	6	50	4
THC10-RN4-1.5R0.02-1N8A	1.5	0.02	1	8	50	4
THC10-RN4-1.5R0.02-1N10A	1.5	0.02	1	10	50	4
THC10-RN4-1.5R0.05-1N2A	1.5	0.05	1	2	50	4
THC10-RN4-1.5R0.05-1N3A	1.5	0.05	1	3	50	4
THC10-RN4-1.5R0.05-1N4A	1.5	0.05	1	4	50	4
THC10-RN4-1.5R0.05-1N6A	1.5	0.05	1	6	50	4
THC10-RN4-1.5R0.05-1N8A	1.5	0.05	1	8	50	4
THC10-RN4-1.5R0.05-1N10A	1.5	0.05	1	10	50	4
THC10-RN4-1.5R0.1-1N2A	1.5	0.1	1	2	50	4
THC10-RN4-1.5R0.1-1N3A	1.5	0.1	1	3	50	4
THC10-RN4-1.5R0.1-1N4A	1.5	0.1	1	4	50	4
THC10-RN4-1.5R0.1-1N6A	1.5	0.1	1	6	50	4
THC10-RN4-1.5R0.1-1N8A	1.5	0.1	1	8	50	4
THC10-RN4-1.5R0.1-1N10A	1.5	0.1	1	10	50	4
THC10-RN4-1.5R0.2-1N2A	1.5	0.2	1	2	50	4
THC10-RN4-1.5R0.2-1N3A	1.5	0.2	1	3	50	4
THC10-RN4-1.5R0.2-1N4A	1.5	0.2	1	4	50	4
THC10-RN4-1.5R0.2-1N6A	1.5	0.2	1	6	50	4
THC10-RN4-1.5R0.2-1N8A	1.5	0.2	1	8	50	4
THC10-RN4-1.5R0.2-1N10A	1.5	0.2	1	10	50	4
THC10-RN4-2R0.02-1.2N3A	2	0.02	1.2	3	50	4
THC10-RN4-2R0.02-1.2N4A	2	0.02	1.2	4	50	4
THC10-RN4-2R0.02-1.2N6A	2	0.02	1.2	6	50	4
THC10-RN4-2R0.02-1.2N8A	2	0.02	1.2	8	50	4
THC10-RN4-2R0.02-1.2N10A	2	0.02	1.2	10	50	4
THC10-RN4-2R0.05-1.2N3A	2	0.05	1.2	3	50	4
THC10-RN4-2R0.05-1.2N4A	2	0.05	1.2	4	50	4
THC10-RN4-2R0.05-1.2N6A	2	0.05	1.2	6	50	4
THC10-RN4-2R0.05-1.2N8A	2	0.05	1.2	8	50	4
THC10-RN4-2R0.05-1.2N10A	2	0.05	1.2	10	50	4
THC10-RN4-2R0.1-1.2N3A	2	0.1	1.2	3	50	4
THC10-RN4-2R0.1-1.2N4A	2	0.1	1.2	4	50	4
THC10-RN4-2R0.1-1.2N6A	2	0.1	1.2	6	50	4
THC10-RN4-2R0.1-1.2N8A	2	0.1	1.2	8	50	4
THC10-RN4-2R0.1-1.2N10A	2	0.1	1.2	10	50	4
THC10-RN4-2R0.2-1.2N3A	2	0.2	1.2	3	50	4
THC10-RN4-2R0.2-1.2N4A	2	0.2	1.2	4	50	4
THC10-RN4-2R0.2-1.2N6A	2	0.2	1.2	6	50	4
THC10-RN4-2R0.2-1.2N8A	2	0.2	1.2	8	50	4
THC10-RN4-2R0.2-1.2N10A	2	0.2	1.2	10	50	4
THC10-RN4-2R0.5-1.2N3A	2	0.5	1.2	3	50	4
THC10-RN4-2R0.5-1.2N4A	2	0.5	1.2	4	50	4
THC10-RN4-2R0.5-1.2N6A	2	0.5	1.2	6	50	4
THC10-RN4-2R0.5-1.2N8A	2	0.5	1.2	8	50	4
THC10-RN4-2R0.5-1.2N10A	2	0.5	1.2	10	50	4
THC10-RN4-2.5R0.05-1.5N4A	2.5	0.05	1.5	4	50	4
THC10-RN4-2.5R0.05-1.5N6A	2.5	0.05	1.5	6	50	4
THC10-RN4-2.5R0.05-1.5N8A	2.5	0.05	1.5	8	50	4

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Артикул Tactic	d	R	L2	E	L	D
THC10-RN4-2.5R0.05-1.5N10A	2.5	0.05	1.5	10	50	4
THC10-RN4-2.5R0.1-1.5N4A	2.5	0.1	1.5	4	50	4
THC10-RN4-2.5R0.1-1.5N6A	2.5	0.1	1.5	6	50	4
THC10-RN4-2.5R0.1-1.5N8A	2.5	0.1	1.5	8	50	4
THC10-RN4-2.5R0.1-1.5N10A	2.5	0.1	1.5	10	50	4
THC10-RN4-2.5R0.2-1.5N4A	2.5	0.2	1.5	4	50	4
THC10-RN4-2.5R0.2-1.5N6A	2.5	0.2	1.5	6	50	4
THC10-RN4-2.5R0.2-1.5N8A	2.5	0.2	1.5	8	50	4
THC10-RN4-2.5R0.2-1.5N10A	2.5	0.2	1.5	10	50	4
THC10-RN4-2.5R0.5-1.5N4A	2.5	0.5	1.5	4	50	4
THC10-RN4-2.5R0.5-1.5N6A	2.5	0.5	1.5	6	50	4
THC10-RN4-2.5R0.5-1.5N8A	2.5	0.5	1.5	8	50	4
THC10-RN4-2.5R0.5-1.5N10A	2.5	0.5	1.5	10	50	4
THC10-RN4-3R0.05-1.8N6B	3	0.05	1.8	6	60	6
THC10-RN4-3R0.05-1.8N9B	3	0.05	1.8	9	60	6
THC10-RN4-3R0.05-1.8N12B	3	0.05	1.8	12	60	6
THC10-RN4-3R0.05-1.8N15B	3	0.05	1.8	15	60	6
THC10-RN4-3R0.1-1.8N6B	3	0.1	1.8	6	60	6
THC10-RN4-3R0.1-1.8N9B	3	0.1	1.8	9	60	6
THC10-RN4-3R0.1-1.8N12B	3	0.1	1.8	12	60	6
THC10-RN4-3R0.1-1.8N15B	3	0.1	1.8	15	60	6
THC10-RN4-3R0.2-1.8N6B	3	0.2	1.8	6	60	6
THC10-RN4-3R0.2-1.8N9B	3	0.2	1.8	9	60	6
THC10-RN4-3R0.2-1.8N12B	3	0.2	1.8	12	60	6
THC10-RN4-3R0.2-1.8N15B	3	0.2	1.8	15	60	6
THC10-RN4-3R0.5-1.8N6B	3	0.5	1.8	6	60	6
THC10-RN4-3R0.5-1.8N9B	3	0.5	1.8	9	60	6
THC10-RN4-3R0.5-1.8N12B	3	0.5	1.8	12	60	6
THC10-RN4-3R0.5-1.8N15B	3	0.5	1.8	15	60	6
THC10-RN4-4R0.1-2N6B	4	0.1	2	6	60	6
THC10-RN4-4R0.1-2N8B	4	0.1	2	8	60	6
THC10-RN4-4R0.1-2N10B	4	0.1	2	10	60	6
THC10-RN4-4R0.1-2N12B	4	0.1	2	12	60	6
THC10-RN4-4R0.1-2N16B	4	0.1	2	16	60	6
THC10-RN4-4R0.1-2N20B	4	0.1	2	20	60	6
THC10-RN4-4R0.2-2N6B	4	0.2	2	6	60	6
THC10-RN4-4R0.2-2N8B	4	0.2	2	8	60	6
THC10-RN4-4R0.2-2N10B	4	0.2	2	10	60	6
THC10-RN4-4R0.2-2N12B	4	0.2	2	12	60	6
THC10-RN4-4R0.2-2N16B	4	0.2	2	16	60	6
THC10-RN4-4R0.2-2N20B	4	0.2	2	20	60	6
THC10-RN4-4R0.5-2N6B	4	0.5	2	6	60	6
THC10-RN4-4R0.5-2N8B	4	0.5	2	8	60	6
THC10-RN4-4R0.5-2N10B	4	0.5	2	10	60	6
THC10-RN4-4R0.5-2N12B	4	0.5	2	12	60	6
THC10-RN4-4R0.5-2N16B	4	0.5	2	16	60	6
THC10-RN4-4R0.5-2N20B	4	0.5	2	20	60	6
THC10-RN4-4R1-2N6B	4	1	2	6	60	6
THC10-RN4-4R1-2N8B	4	1	2	8	60	6
THC10-RN4-4R1-2N10B	4	1	2	10	60	6
THC10-RN4-4R1-2N12B	4	1	2	12	60	6
THC10-RN4-4R1-2N16B	4	1	2	16	60	6
THC10-RN4-4R1-2N20B	4	1	2	20	60	6
THC10-RN4-6R0.2-3N6B	6	0.2	3	6	60	6

Концевая фреза  
с обнижением



Артикул Tactic	d	R	L2	E	L	D
THC10-RN4-6R0.2-3N8B	6	0.2	3	8	60	6
THC10-RN4-6R0.2-3N10B	6	0.2	3	10	60	6
THC10-RN4-6R0.2-3N12B	6	0.2	3	12	60	6
THC10-RN4-6R0.2-3N16B	6	0.2	3	16	60	6
THC10-RN4-6R0.2-3N20B	6	0.2	3	20	60	6
THC10-RN4-6R0.5-3N6B	6	0.5	3	6	60	6
THC10-RN4-6R0.5-3N8B	6	0.5	3	8	60	6
THC10-RN4-6R0.5-3N10B	6	0.5	3	10	60	6
THC10-RN4-6R0.5-3N12B	6	0.5	3	12	60	6
THC10-RN4-6R0.5-3N16B	6	0.5	3	16	60	6
THC10-RN4-6R0.5-3N20B	6	0.5	3	20	60	6
THC10-RN4-6R1-3N6B	6	1	3	6	60	6
THC10-RN4-6R1-3N8B	6	1	3	8	60	6
THC10-RN4-6R1-3N10B	6	1	3	10	60	6
THC10-RN4-6R1-3N12B	6	1	3	12	60	6
THC10-RN4-6R1-3N16B	6	1	3	16	60	6
THC10-RN4-6R1-3N20B	6	1	3	20	60	6

Закаленная сталь 45-55HRC					Закаленная сталь 55-65HRC			
Плоский торец	Начальные данные							
	Обработка торцов							
	f (мм/мин)	S (об/мин)	ae (мм)	ap (мм)	f (мм/мин)	S (об/мин)	ae (мм)	ap (мм)
D0.2	140	50000	0.004	0.004	78	50000	0.003	0.003
D0.3	290	50000	0.004	0.005	260	50000	0.003	0.005
D0.4	490	50000	0.005	0.006	420	50000	0.005	0.005
D0.5	810	50000	0.005	0.008	732	50000	0.005	0.006
D0.6	950	50000	0.006	0.01	850	50000	0.005	0.008
D0.7	1100	50000	0.01	0.015	1000	50000	0.008	0.01
D0.8	1200	50000	0.02	0.02	1083	50000	0.01	0.01
D0.9	1250	50000	0.02	0.025	1130	50000	0.01	0.015
D1.0	1311	50000	0.02	0.03	1230	50000	0.02	0.02
D2.0	1270	40000	0.03	0.03	1090	40000	0.02	0.03
D3.0	1120	40000	0.03	0.035	960	40000	0.02	0.03
D4.0	1120	40000	0.03	0.04	1040	40000	0.02	0.03
D6.0	1000	40000	0.04	0.04	920	40000	0.04	0.04

Закаленная сталь 45-55HRC					Закаленная сталь 55-65HRC			
Сферическая	Начальные данные							
	Профильная обработка							
	f (мм/мин)	S (об/мин)	ae (мм)	ap (мм)	f (мм/мин)	S (об/мин)	ae (мм)	ap (мм)
R0.1	216	50000	0.004	0.004	120	50000	0.003	0.003
R0.2	750	50000	0.005	0.006	650	50000	0.005	0.005
R0.3	1890	50000	0.015	0.015	1520	50000	0.01	0.01
R0.4	1980	50000	0.02	0.02	1720	50000	0.01	0.02
R0.5	1980	40000	0.02	0.03	1590	40000	0.02	0.02
R0.75	1920	40000	0.03	0.03	1550	40000	0.02	0.03
R1.0	2000	40000	0.03	0.03	1650	40000	0.02	0.03
R1.5	2000	40000	0.03	0.03	1650	40000	0.02	0.03
R2.0	1680	40000	0.03	0.03	1420	40000	0.02	0.03
R3.0	1500	40000	0.04	0.05	1250	40000	0.03	0.04

Закаленная сталь 45-55HRC					Закаленная сталь 55-65HRC			
Радиус при вершине	Начальные данные							
	Обработка торцов							
	f (мм/мин)	S (об/мин)	ae (мм)	ap (мм)	f (мм/мин)	S (об/мин)	ae (мм)	ap (мм)
D0.2R0.02	160	50000	0.004	0.004	120	50000	0.003	0.003
D0.3R0.02	300	50000	0.004	0.004	260	50000	0.003	0.003
D0.4R0.02	520	50000	0.005	0.006	450	50000	0.005	0.005
D0.5R0.02	850	50000	0.005	0.01	770	50000	0.005	0.01
D0.6R0.02	980	50000	0.008	0.01	820	50000	0.008	0.01
D0.7R0.02	1100	50000	0.01	0.012	950	50000	0.01	0.01
D0.8R0.02	1320	50000	0.015	0.015	1140	50000	0.01	0.01
D0.9R0.02	1350	50000	0.02	0.015	1150	50000	0.01	0.015
D1R0.2	1380	50000	0.02	0.02	1200	50000	0.01	0.02
D2R0.5	1250	40000	0.03	0.03	1150	40000	0.02	0.03
D3R0.5	1340	40000	0.02	0.03	1010	40000	0.02	0.03
D4R0.5	1180	40000	0.03	0.03	1100	40000	0.03	0.03
D6R0.5	1000	40000	0.04	0.04	950	40000	0.04	0.03

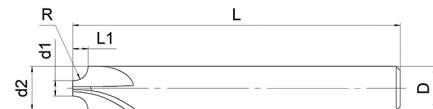
# TR60

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Фрезы для фрезерования радиусов

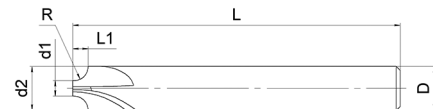


Концевая фреза  
с обратным радиусом



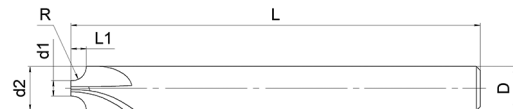
Артикул Tactic	d1	d2	R	L1	L	D
TR60-T2-R0.5A-S4	3	4	0.5	0.5	50	4
TR60-T2-R0.75A-S4	2.5	4	0.75	0.75	50	4
TR60-T2-R1A-S4	2	4	1	1	50	4
TR60-T2-R0.5A-S6	5	6	0.5	0.5	50	6
TR60-T2-R0.75A-S6	4.5	6	0.75	0.75	50	6
TR60-T2-R1A-S6	4	6	1	1	50	6
TR60-T2-R1.25A-S6	3.5	6	1.25	1.25	50	6
TR60-T2-R1.5A-S6	3	6	1.5	1.5	50	6
TR60-T2-R2A-S6	2	6	2	2	50	6
TR60-T2-R1B-S8	6	8	1	1	60	8
TR60-T2-R1.5B-S8	5	8	1.5	1.5	60	8
TR60-T2-R2B-S8	4	8	2	2	60	8
TR60-T2-R2.5B-S8	3	8	2.5	2.5	60	8
TR60-T2-R3B-S8	2	8	3	3	60	8
TR60-T2-R3.5C-S10	3	10	3.5	3.5	75	10
TR60-T2-R4C-S10	2	10	4	4	75	10
TR60-T2-R4.5C-S12	3	12	4.5	4.5	75	12
TR60-T2-R5C-S12	2	12	5	5	75	12
TR60-T2-R6D-S16	4	16	6	6	100	16
TR60-T2-R8D-S20	4	20	8	8	100	20

Концевая фреза  
с обратным радиусом



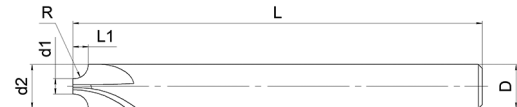
Артикул Tactic	d1	d2	R	L1	L	D
TR60-T4-R0.5A-S4	3	4	0.5	0.5	50	4
TR60-T4-R0.75A-S4	2.5	4	0.75	0.75	50	4
TR60-T4-R1A-S4	2	4	1	1	50	4
TR60-T4-R0.5A-S6	5	6	0.5	0.5	50	6
TR60-T4-R0.75A-S6	4.5	6	0.75	0.75	50	6
TR60-T4-R1A-S6	4	6	1	1	50	6
TR60-T4-R1.25A-S6	3.5	6	1.25	1.25	50	6
TR60-T4-R1.5A-S6	3	6	1.5	1.5	50	6
TR60-T4-R2A-S6	2	6	2	2	50	6
TR60-T4-R1B-S8	6	8	1	1	60	8
TR60-T4-R1.5B-S8	5	8	1.5	1.5	60	8
TR60-T4-R2B-S8	4	8	2	2	60	8
TR60-T4-R2.5B-S8	3	8	2.5	2.5	60	8
TR60-T4-R3B-S8	2	8	3	3	60	8
TR60-T4-R3.5C-S10	3	10	3.5	3.5	75	10
TR60-T4-R4C-S10	2	10	4	4	75	10
TR60-T4-R4.5C-S12	3	12	4.5	4.5	75	12
TR60-T4-R5C-S12	2	12	5	5	75	12
TR60-T4-R6D-S16	4	16	6	6	100	16
TR60-T4-R8D-S20	4	20	8	8	100	20

Концевая фреза с обратным радиусом  
и удлиненным хвостовиком



Артикул Tactic	d1	d2	R	L1	L	D
TR60-H2-R0.5C-S4	3	4	0.5	0.5	75	4
TR60-H2-R0.75C-S4	2.5	4	0.75	0.75	75	4
TR60-H2-R1C-S4	2	4	1	1	75	4
TR60-H2-R1C-S6	4	6	1	1	75	6
TR60-H2-R1.25C-S6	3.5	6	1.25	1.25	75	6
TR60-H2-R1.5C-S6	3	6	1.5	1.5	75	6
TR60-H2-R2C-S6	2	6	2	2	75	6
TR60-H2-R1C-S8	6	8	1	1	75	8
TR60-H2-R1.5C-S8	5	8	1.5	1.5	75	8
TR60-H2-R2C-S8	4	8	2	2	75	8
TR60-H2-R2.5C-S8	3	8	2.5	2.5	75	8
TR60-H2-R3C-S8	2	8	3	3	75	8
TR60-H2-R0.5D-S4	3	4	0.5	0.5	100	4
TR60-H2-R0.75D-S4	2.5	4	0.75	0.75	100	4
TR60-H2-R1D-S4	2	4	1	1	100	4
TR60-H2-R1D-S6	4	6	1	1	100	6
TR60-H2-R1.25D-S6	3.5	6	1.25	1.25	100	6
TR60-H2-R1.5D-S6	3	6	1.5	1.5	100	6
TR60-H2-R2D-S6	2	6	2	2	100	6
TR60-H2-R1.0D-S8	6	8	1	1	100	8
TR60-H2-R1.5D-S8	5	8	1.5	1.5	100	8
TR60-H2-R2D-S8	4	8	2	2	100	8
TR60-H2-R2.5D-S8	3	8	2.5	2.5	100	8
TR60-H2-R3D-S8	2	8	3	3	100	8
TR60-H2-R3.5D-S10	3	10	3.5	3.5	100	10
TR60-H2-R4D-S10	2	10	4	4	100	10
TR60-H2-R4.5D-S12	3	12	4.5	4.5	100	12
TR60-H2-R5D-S12	2	12	5	5	100	12

Концевая фреза с обратным радиусом  
и удлиненным хвостовиком



Артикул Tactic	d1	d2	R	L1	L	D
TR60-H4-R0.5C-S4	3	4	0.5	0.5	75	4
TR60-H4-R0.75C-S4	2.5	4	0.75	0.75	75	4
TR60-H4-R1C-S4	2	4	1	1	75	4
TR60-H4-R1C-S6	4	6	1	1	75	6
TR60-H4-R1.25C-S6	3.5	6	1.25	1.25	75	6
TR60-H4-R1.5C-S6	3	6	1.5	1.5	75	6
TR60-H4-R2C-S6	2	6	2	2	75	6
TR60-H4-R1C-S8	6	8	1	1	75	8
TR60-H4-R1.5C-S8	5	8	1.5	1.5	75	8
TR60-H4-R2C-S8	4	8	2	2	75	8
TR60-H4-R2.5C-S8	3	8	2.5	2.5	75	8
TR60-H4-R3C-S8	2	8	3	3	75	8
TR60-H4-R0.5D-S4	3	4	0.5	0.5	100	4
TR60-H4-R0.75D-S4	2.5	4	0.75	0.75	100	4
TR60-H4-R1D-S4	2	4	1	1	100	4
TR60-H4-R1D-S6	4	6	1	1	100	6
TR60-H4-R1.25D-S6	3.5	6	1.25	1.25	100	6
TR60-H4-R1.5D-S6	3	6	1.5	1.5	100	6
TR60-H4-R2D-S6	2	6	2	2	100	6
TR60-H4-R1D-S8	6	8	1	1	100	8
TR60-H4-R1.5D-S8	5	8	1.5	1.5	100	8
TR60-H4-R2D-S8	4	8	2	2	100	8
TR60-H4-R2.5D-S8	3	8	2.5	2.5	100	8
TR60-H4-R3D-S8	2	8	3	3	100	8
TR60-H4-R3.5D-S10	3	10	3.5	3.5	100	10
TR60-H4-R4D-S10	2	10	4	4	100	10
TR60-H4-R4.5D-S12	3	12	4.5	4.5	100	12
TR60-H4-R5D-S12	2	12	5	5	100	12

## Углеродистые стали (30HRC)

Начальные данные

Обработка радиусных фасок

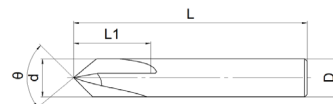
Обратный радиус	Начальные данные			
	f (мм/мин)	S (об/мин)	ae (мм)	ap (мм)
D4R0.5	1500	5500	0.02	0.12
D6R1.0	1800	4500	0.12	0.25
D8R2.0	2000	3500	0.2	0.5
D10R3.0	2200	3000	0.25	0.75
D12R4.0	2400	2500	0.3	0.9

# TC60/90/120

Концевые фрезы



## Концевая фасочная фреза



Артикул Tactic	d	ϑ	L1	L	D
TC60-T3-4A	4	60°	8	50	4
TC60-T3-5A	5	60°	10	50	5
TC60-T3-6A	6	60°	12	50	6
TC60-T3-8B	8	60°	16	60	8
TC60-T3-10C	10	60°	20	75	10
TC60-T3-12C	12	60°	24	75	12
TC90-T3-4A	4	90°	8	50	4
TC90-T3-5A	5	90°	10	50	5
TC90-T3-6A	6	90°	12	50	6
TC90-T3-8B	8	90°	16	60	8
TC90-T3-10C	10	90°	20	75	10
TC90-T3-12C	12	90°	24	75	12
TC120-T3-4A	4	120°	8	50	4
TC120-T3-5A	5	120°	10	50	5
TC120-T3-6A	6	120°	12	50	6
TC120-T3-8B	8	120°	16	60	8
TC120-T3-10C	10	120°	20	75	10
TC120-T3-12C	12	120°	24	75	12

Концевая фасочная фреза  
с удлиненным хвостовиком



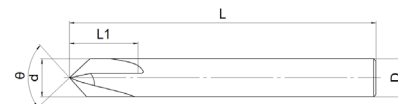
NACO3



60°

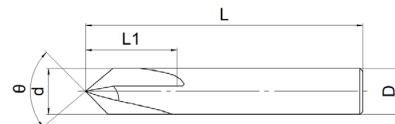
90°

120°



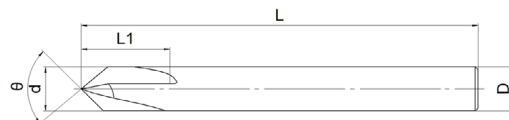
Артикул Tactic	d	ϑ	L1	L	D
TC60-H3-4C	4	60°	8	75	4
TC60-H3-6C	6	60°	12	75	6
TC60-H3-8C	8	60°	16	75	8
TC60-H3-6D	6	60°	12	100	6
TC60-H3-8D	8	60°	16	100	8
TC60-H3-10D	10	60°	20	100	10
TC60-H3-12D	12	60°	24	100	12
TC90-H3-4C	4	90°	8	75	4
TC90-H3-6C	6	90°	12	75	6
TC90-H3-8C	8	90°	16	75	8
TC90-H3-6D	6	90°	12	100	6
TC90-H3-8D	8	90°	16	100	8
TC90-H3-10D	10	90°	20	100	10
TC90-H3-12D	12	90°	24	100	12
TC120-H3-4C	4	120°	8	75	4
TC120-H3-6C	6	120°	12	75	6
TC120-H3-8C	8	120°	16	75	8
TC120-H3-6D	6	120°	12	100	6
TC120-H3-8D	8	120°	16	100	8
TC120-H3-10D	10	120°	20	100	10
TC120-H3-12D	12	120°	24	100	12

Концевая фасочная фреза  
с удлиненным хвостовиком



Артикул Tactic	d	ϑ	L1	L	D
TC60-T4-4A	4	60°	8	50	4
TC60-T4-5A	5	60°	10	50	5
TC60-T4-6A	6	60°	12	50	6
TC60-T4-8B	8	60°	16	60	8
TC60-T4-10C	10	60°	20	75	10
TC60-T4-12C	12	60°	24	75	12
TC90-T4-4A	4	90°	8	50	4
TC90-T4-5A	5	90°	10	50	5
TC90-T4-6A	6	90°	12	50	6
TC90-T4-8B	8	90°	16	60	8
TC90-T4-10C	10	90°	20	75	10
TC90-T4-12C	12	90°	24	75	12
TC120-T4-4A	4	120°	8	50	4
TC120-T4-5A	5	120°	10	50	5
TC120-T4-6A	6	120°	12	50	6
TC120-T4-8B	8	120°	16	60	8
TC120-T4-10C	10	120°	20	75	10
TC120-T4-12C	12	120°	24	75	12

Концевая фасочная фреза  
с удлиненным хвостовиком



Артикул Tactic	d	ϑ	L1	L	D
TC60-H4-4C	4	60°	8	75	4
TC60-H4-6C	6	60°	12	75	6
TC60-H4-8C	8	60°	16	75	8
TC60-H4-6D	6	60°	12	100	6
TC60-H4-8D	8	60°	16	100	8
TC60-H4-10D	10	60°	20	100	10
TC60-H4-12D	12	60°	24	100	12
TC90-H4-4C	4	90°	8	75	4
TC90-H4-6C	6	90°	12	75	6
TC90-H4-8C	8	90°	16	75	8
TC90-H4-6D	6	90°	12	100	6
TC90-H4-8D	8	90°	16	100	8
TC90-H4-10D	10	90°	20	100	10
TC90-H4-12D	12	90°	24	100	12
TC120-H4-4C	4	120°	8	75	4
TC120-H4-6C	6	120°	12	75	6
TC120-H4-8C	8	120°	16	75	8
TC120-H4-6D	6	120°	12	100	6
TC120-H4-8D	8	120°	16	100	8
TC120-H4-10D	10	120°	20	100	10
TC120-H4-12D	12	120°	24	100	12

Углеродистые стали (30HRC)					Углеродистые стали (50HRC)			
Диаметр фрезы	Начальные данные							
	Обработка фасок							
	f (мм/мин)	S (об/мин)	Размер фаски	Количество проходов	f (мм/мин)	S (об/мин)	Размер фаски	Количество проходов
D1.0	1000	8000	C0.2	1	800	8000	C0.2	2
D2.0	1200	6500	C0.2	1	800	6500	C0.2	2
D3.0	1200	5000	C0.2	1	800	5000	C0.2	2
D4.0	1500	4500	C0.3	1	1000	4500	C0.3	3
D6.0	1500	3500	C0.4	1	1200	3500	C0.4	3
D8.0	1500	3500	C0.5	1	1200	3500	C0.5	3
D10.0	1800	3000	C0.5	1	1500	3000	C0.5	3
D12.0	2000	2500	C0.6	1	1800	2500	C0.6	4
D14.0	2200	2200	C0.8	1	1800	2200	C0.8	5
D16.0	2500	2000	C0.8	1	2000	2000	C0.8	5
D18.0	2600	1800	C0.8	1	2200	1800	C0.8	4
D20.0	2800	1800	C0.8	1	2500	1800	C0.8	4

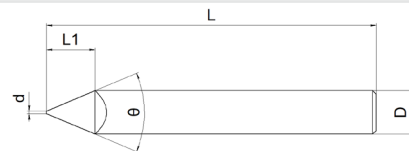
# TG

Однокромочные концевые фрезы с различными углами при вершине для гравировки и фрезерования фасок



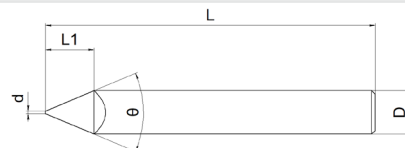
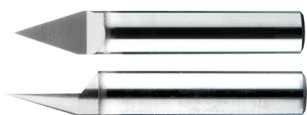
Фрезы с покрытием,  
для обработки стали

TiAlSiN



Артикул Tactic	d	θ	L1	L	D
TGC20-00-S4	0	20°	5	50	4
TGC30-000-S4	0	30°	5	50	4
TGC90-000-S4	0	90°	2	50	4
TGC20-000-S6	0	20°	5	50	6
TGC30-000-S6	0	30°	5	50	6
TGC90-000-S6	0	90°	3	50	6
TGC120-000-S6	0	120°	1.73	50	6
TGC20-005-S4	0.05	20°	5	50	4
TGC30-005-S4	0.05	30°	5	50	4
TGC90-005-S4	0.05	90°	1.97	50	4
TGC20-005-S6	0.05	20°	5	50	6
TGC30-005-S6	0.05	30°	5	50	6
TGC90-005-S6	0.05	90°	2.97	50	6
TGC120-005-S6	0.05	120°	1.71	50	6
TGC20-010-S4	0.1	20°	5	50	4
TGC30-010-S4	0.1	30°	5	50	4
TGC60-010-S4	0.1	60°	3.37	50	4
TGC90-010-S4	0.1	90°	1.95	50	4
TGC20-010-S6	0.1	20°	5	50	6
TGC30-010-S6	0.1	30°	5	50	6
TGC90-010-S6	0.1	90°	2.95	50	6
TGC120-010-S6	0.1	120°	1.7	50	6
TGC20-015-S4	0.15	20°	5	50	4
TGC30-015-S4	0.15	30°	5	50	4
TGC60-015-S4	0.15	60°	3.33	50	4
TGC90-015-S4	0.15	90°	1.92	50	4
TGC20-015-S6	0.15	20°	5	50	6
TGC30-015-S6	0.15	30°	5	50	6
TGC90-015-S6	0.15	90°	2.92	50	6
TGC120-015-S6	0.15	120°	1.68	50	6
TGC20-020-S4	0.2	20°	5	50	4
TGC30-020-S4	0.2	30°	5	50	4
TGC60-020-S4	0.2	60°	3.29	50	4
TGC90-020-S4	0.2	90°	1.9	50	4
TGC20-020-S6	0.2	20°	5	50	6
TGC30-020-S6	0.2	30°	5	50	6
TGC90-020-S6	0.2	90°	2.9	50	6
TGC120-020-S6	0.2	120°	1.67	50	6
TGC20-030-S4	0.3	20°	5	50	4
TGC30-030-S4	0.3	30°	5	50	4
TGC60-030-S4	0.3	60°	3.2	50	4
TGC90-030-S4	0.3	90°	1.85	50	4

Фрезы без покрытия,  
для обработки цветных материалов



Артикул Tactic	d	ϑ	L1	L	D
TGW20-000-S4	0	20°	5	50	4
TGW30-000-S4	0	30°	5	50	4
TGW90-000-S4	0	90°	2	50	4
TGW20-000-S6	0	20°	5	50	6
TGW30-000-S6	0	30°	5	50	6
TGW90-000-S6	0	90°	3	50	6
TGW120-000-S6	0	120°	1.73	50	6
TGW20-005-S4	0.05	20°	5	50	4
TGW30-005-S4	0.05	30°	5	50	4
TGW90-005-S4	0.05	90°	1.97	50	4
TGW20-005-S6	0.05	20°	5	50	6
TGW30-005-S6	0.05	30°	5	50	6
TGW90-005-S6	0.05	90°	2.97	50	6
TGW120-005-S6	0.05	120°	1.71	50	6
TGW20-010-S4	0.1	20°	5	50	4
TGW30-010-S4	0.1	30°	5	50	4
TGW60-010-S4	0.1	60°	3.37	50	4
TGW90-010-S4	0.1	90°	1.95	50	4
TGW20-010-S6	0.1	20°	5	50	6
TGW30-010-S6	0.1	30°	5	50	6
TGW90-010-S6	0.1	90°	2.95	50	6
TGW120-010-S6	0.1	120°	1.7	50	6
TGW20-015-S4	0.15	20°	5	50	4
TGW30-015-S4	0.15	30°	5	50	4
TGW60-015-S4	0.15	60°	3.33	50	4
TGW90-015-S4	0.15	90°	1.92	50	4
TGW20-015-S6	0.15	20°	5	50	6
TGW30-015-S6	0.15	30°	5	50	6
TGW90-015-S6	0.15	90°	2.92	50	6
TGW120-015-S6	0.15	120°	1.68	50	6
TGW20-020-S4	0.2	20°	5	50	4
TGW30-020-S4	0.2	30°	5	50	4
TGW60-020-S4	0.2	60°	3.29	50	4
TGW90-020-S4	0.2	90°	1.9	50	4
TGW20-020-S6	0.2	20°	5	50	6
TGW30-020-S6	0.2	30°	5	50	6
TGW90-020-S6	0.2	90°	2.9	50	6
TGW120-020-S6	0.2	120°	1.67	50	6
TGW20-030-S4	0.3	20°	5	50	4
TGW30-030-S4	0.3	30°	5	50	4
TGW60-030-S4	0.3	60°	3.2	50	4
TGW90-030-S4	0.3	90°	1.85	50	4





# TACTIC



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