

КАТАЛОГ










ФРЕЗЫ СО СМЕННЫМИ
ПЛАСТИНАМИ



Центр
Промышленного
Инструмента

2025
Версия 1

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EHSLN02/03...M

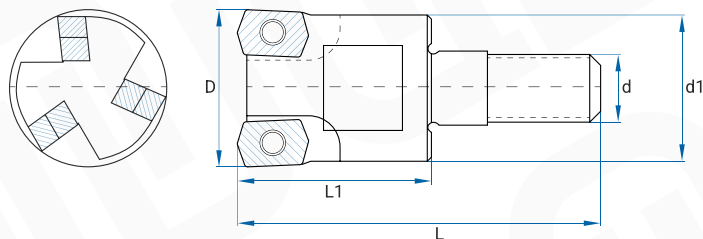
Фрезы со сменными пластинами
Фрезерная резьбовая головка для высоких подач

Высокоскоростная обработка

— Предназначены для обработки материалов групп:

P M S H K

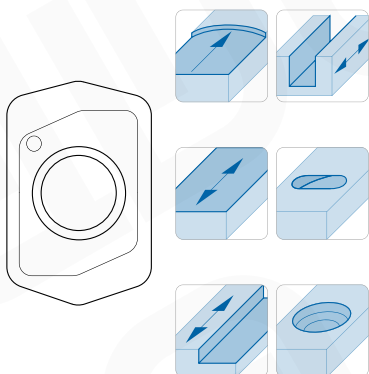
— Пластины с четырьмя негативными режущими кромками



| Модель | Z | D | d1 | L1 | L | M | Пластина | Винт | Ключ |
|-----------------|---|----|-----|----|----|----|----------|-------|------|
| 1EHSLN02-08/M04 | 1 | 08 | 7.8 | 17 | 28 | 04 | LNMU02 | SLN02 | T6 |
| 1EHSLN02-09/M04 | 1 | 09 | 7.8 | 17 | 28 | 04 | | | |
| 2EHSLN02-10/M05 | 2 | 10 | 9 | 17 | 29 | 05 | | | |
| 2EHSLN02-11/M05 | 2 | 11 | 9 | 17 | 29 | 05 | | | |
| 3EHSLN02-12/M06 | 3 | 12 | 11 | 17 | 32 | 06 | | | |
| 3EHSLN02-13/M06 | 3 | 13 | 11 | 17 | 32 | 06 | | | |
| 3EHSLN02-14/M06 | 3 | 14 | 13 | 17 | 32 | 06 | | | |
| 3EHSLN02-15/M06 | 3 | 15 | 13 | 17 | 32 | 06 | | | |
| 4EHSLN02-16/M08 | 4 | 16 | 15 | 25 | 43 | 08 | | | |
| 4EHSLN02-17/M08 | 4 | 17 | 15 | 25 | 43 | 08 | | | |

| Модель | Z | D | d1 | L1 | L | M | Пластина | Винт | Ключ |
|-----------------|---|----|----|----|----|----|----------|-------|------|
| 2EHSLN03-16/M08 | 2 | 16 | 15 | 25 | 43 | 08 | LNMU03 | SLN03 | T8 |
| 2EHSLN03-17/M08 | 2 | 17 | 15 | 25 | 43 | 08 | | | |
| 2EHSLN03-18/M08 | 2 | 18 | 15 | 25 | 43 | 08 | | | |
| 3EHSLN03-20/M10 | 3 | 20 | 19 | 29 | 49 | 10 | | | |
| 3EHSLN03-21/M10 | 3 | 21 | 19 | 29 | 49 | 10 | | | |
| 3EHSLN03-22/M10 | 3 | 22 | 19 | 29 | 49 | 10 | | | |
| 4EHSLN03-25/M12 | 4 | 25 | 24 | 35 | 57 | 12 | | | |
| 4EHSLN03-26/M12 | 4 | 26 | 24 | 35 | 57 | 12 | | | |
| 5EHSLN03-28/M12 | 5 | 28 | 24 | 35 | 57 | 12 | | | |
| 5EHSLN03-32/M16 | 5 | 32 | 31 | 38 | 63 | 16 | | | |
| 6EHSLN03-35/M16 | 6 | 35 | 31 | 38 | 63 | 16 | | | |

LNMU 02/03



| Материал | P M K S | | | | LNMU 02 | | LNMU 03 | | |
|----------|---------|----------------|----------------|-----------------|--------------|-----------------|-----------|-----------------|----|
| | V: | 90 - 160 - 220 | 70 - 140 - 190 | 100 - 130 - 220 | 15 - 35 - 50 | Ap | Fz | Ap | Fz |
| Сплав | | | | | | | | | |
| CU1125 | ● | ○ | ● | | 0.2 - 0.6 | 0.2 - 1.0 [0.6] | 0.2 - 1.5 | 0.4 - 1.3 [0.7] | |
| CU1125U | ● | ○ | ● | | | | | | |
| CU1215 | ● | ● | ○ | | | | | | |
| CU1225 | ● | ● | ○ | | | | | | |
| CM1225 | | ● | | ○ | | | | | |
| CS1125 | | ● | | ● | | | | | |
| CS1130 | | ● | | ● | | | | | |

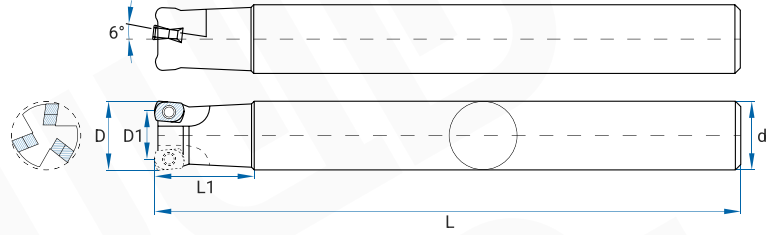
● Первое применение ○ Второе применение ○ Допустимо

Высокоскоростная обработка

— Предназначены для обработки материалов групп:

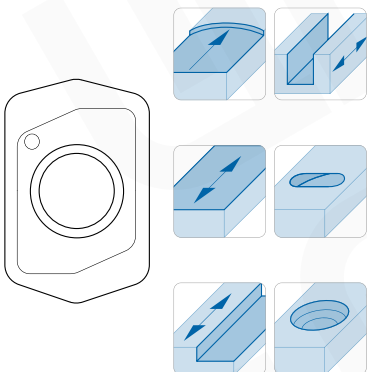
P M S H K

— Пластины с четырьмя негативными режущими кромками



| Модель | Z | D | D1 | d | L1 | L | Пластина | Винт | Ключ |
|------------------------|---|----|-------|----|----|-----|----------|-------|------|
| 1EHSLN02-8-d10-17/100 | 1 | 08 | 3.61 | 10 | 17 | 100 | LNMU02 | SLN02 | T6 |
| 1EHSLN02-9-d10-19/100 | 1 | 09 | 4.74 | 10 | 19 | 100 | | | |
| 2EHSLN02-10-d10-22/100 | 2 | 10 | 5.85 | 10 | 22 | 100 | | | |
| 2EHSLN02-11-d10-11/100 | 2 | 11 | 6.76 | 10 | 11 | 100 | | | |
| 3EHSLN02-12-d12-26/80 | 3 | 12 | 7.68 | 12 | 26 | 80 | | | |
| 3EHSLN02-12-d12-26/120 | 3 | 12 | 7.68 | 12 | 26 | 120 | | | |
| 3EHSLN02-13-d12-13/80 | 3 | 13 | 8.68 | 12 | 13 | 80 | | | |
| 3EHSLN02-13-d12-13/120 | 3 | 13 | 8.68 | 12 | 13 | 120 | | | |
| 3EHSLN02-14-d14-30/120 | 3 | 14 | 9.51 | 14 | 30 | 120 | | | |
| 3EHSLN02-14-d14-30/150 | 3 | 14 | 9.51 | 14 | 30 | 150 | | | |
| 3EHSLN02-15-d14-15/120 | 3 | 15 | 10.43 | 14 | 15 | 120 | | | |
| 3EHSLN02-15-d14-15/150 | 3 | 15 | 10.43 | 14 | 15 | 150 | | | |
| 4EHSLN02-16-d16-35/120 | 4 | 16 | 11.35 | 16 | 35 | 120 | | | |
| 4EHSLN02-16-d16-35/160 | 4 | 16 | 11.35 | 16 | 35 | 160 | | | |
| 4EHSLN02-16-d16-17/120 | 4 | 17 | 12.27 | 16 | 17 | 120 | | | |
| 4EHSLN02-17-d16-17/160 | 4 | 17 | 12.27 | 16 | 17 | 160 | | | |

LNMU 02



| Материал | P | M | K | S | Ap | Fz |
|----------|----------------|----------------|-----------------|--------------|-----------|-----------------|
| V: | 90 - 160 - 220 | 70 - 140 - 190 | 100 - 130 - 220 | 15 - 35 - 50 | 0.2 - 0.6 | 0.2 - 1.0 [0.6] |
| Сплав | | | | | | |
| CU1125 | ● | ○ | ● | | | |
| CU1125U | ● | ○ | ● | | | |
| CU1215 | ● | ● | ○ | | | |
| CU1225 | ● | ● | ○ | | | |
| CM1225 | | ● | | ○ | | |
| CS1125 | | ● | | ● | | |
| CS1130 | | ● | | ● | | |

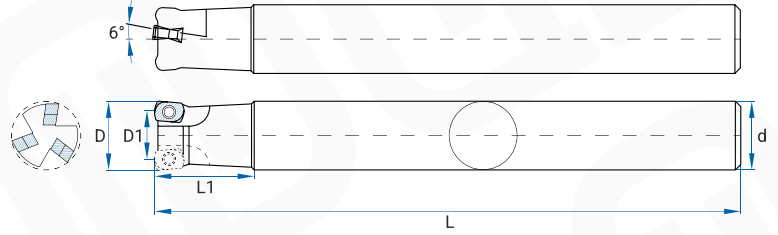
● Первое применение ○ Второе применение ○ Допустимо

Высокоскоростная обработка

— Предназначены для обработки материалов групп:

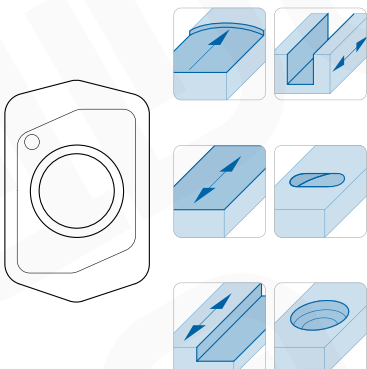
P M S H K

— Пластины с четырьмя негативными режущими кромками



| Модель | Z | D | D1 | d | L | L | Пластина | Винт | Ключ |
|------------------------|---|----|-------|----|-----|----|----------|-------|------|
| 2EHSLN03-16-d16-30/100 | 2 | 16 | 10.18 | 16 | 100 | 30 | LNMU03 | SLN03 | T8 |
| 2EHSLN03-16-d16-30/120 | 2 | 16 | 10.18 | 16 | 120 | 30 | | | |
| 2EHSLN03-16-d16-30/150 | 2 | 16 | 10.18 | 16 | 150 | 30 | | | |
| 2EHSLN03-17-d16-20/100 | 2 | 17 | 11.18 | 16 | 100 | 20 | | | |
| 2EHSLN03-17-d16-20/120 | 2 | 17 | 11.18 | 16 | 120 | 20 | | | |
| 2EHSLN03-17-d16-20/150 | 2 | 17 | 11.18 | 16 | 150 | 20 | | | |
| 3EHSLN03-20-d20-30/100 | 3 | 20 | 14.18 | 20 | 100 | 30 | | | |
| 3EHSLN03-20-d20-50/130 | 3 | 20 | 14.18 | 20 | 130 | 50 | | | |
| 3EHSLN03-20-d20-50/160 | 3 | 20 | 14.18 | 20 | 160 | 50 | | | |
| 3EHSLN03-21-d20-35/130 | 3 | 21 | 15.18 | 20 | 130 | 35 | | | |
| 3EHSLN03-21-d20-35/160 | 3 | 21 | 15.18 | 20 | 160 | 35 | | | |
| 4EHSLN03-25-d25-37/100 | 4 | 25 | 19.18 | 25 | 100 | 37 | | | |
| 4EHSLN03-25-d25-60/140 | 4 | 25 | 19.18 | 25 | 140 | 60 | | | |
| 4EHSLN03-25-d25-60/200 | 4 | 25 | 19.18 | 25 | 200 | 60 | | | |
| 4EHSLN03-26-d25-30/140 | 4 | 26 | 20.18 | 25 | 140 | 30 | | | |
| 4EHSLN03-26-d25-30/200 | 4 | 26 | 20.18 | 25 | 200 | 30 | | | |
| 4EHSLN03-30-d25-30/150 | 4 | 30 | 24.18 | 25 | 150 | 30 | | | |
| 5EHSLN03-32-d32-70/150 | 5 | 32 | 26.18 | 32 | 150 | 70 | | | |
| 5EHSLN03-32-d32-70/200 | 5 | 32 | 26.18 | 32 | 200 | 70 | | | |
| 5EHSLN03-33-d32-30/150 | 5 | 33 | 27.18 | 32 | 150 | 30 | | | |
| 5EHSLN03-33-d32-30/200 | 5 | 33 | 27.18 | 32 | 200 | 30 | | | |
| 6EHSLN03-35-d32-40/160 | 6 | 35 | 29.18 | 32 | 160 | 40 | | | |
| 6EHSLN03-35-d32-40/200 | 6 | 35 | 29.18 | 32 | 200 | 40 | | | |

LNMU 03



| Материал | P | M | K | S | Ap | Fz |
|----------|----------------|----------------|-----------------|--------------|-----------|-----------------|
| V: | 90 - 160 - 220 | 70 - 140 - 190 | 100 - 130 - 220 | 15 - 35 - 50 | 0.2 - 1.5 | 0.4 - 1.3 [0.7] |
| Сплав | | | | | | |
| CU1125 | ● | ○ | ● | | | |
| CU1125U | ● | ○ | ● | | | |
| CU1215 | ● | ● | ○ | | | |
| CU1225 | ● | ● | ○ | | | |
| CM1225 | | ● | | ○ | | |
| CS1125 | | ● | | ● | | |
| CS1130 | | ● | | ● | | |

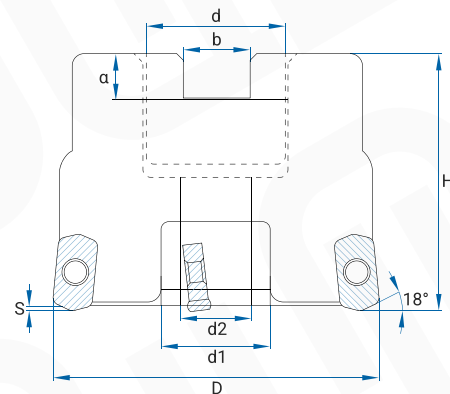
● Первое применение ○ Второе применение ○ Допустимо

Высокоскоростная обработка

— Предназначены для обработки материалов групп:

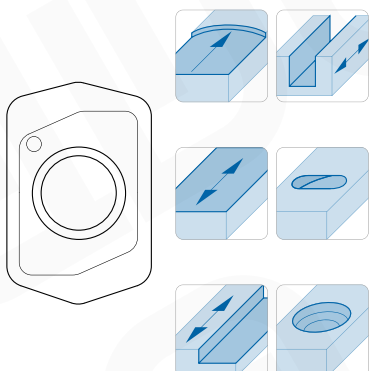
P M S H K

— Пластины с четырьмя негативными режущими кромками



| Модель | Z | D | d | d1 | d2 | H | S | b | a | Пластина | Винт | Ключ |
|------------------|----|----|----|----|----|----|-----|------|---|----------|-------|------|
| 6FHSLN03-32-d16 | 6 | 32 | 16 | 14 | 9 | 40 | 0.5 | 8.4 | 6 | LNMU03 | SLN03 | T8 |
| 6FHSLN03-35-d16 | 6 | 35 | 16 | 14 | 9 | 40 | 0.5 | 8.4 | 6 | | | |
| 6FHSLN03-40-d16 | 6 | 40 | 16 | 14 | 9 | 40 | 0.5 | 8.4 | 6 | | | |
| 6FHSLN03-45-d16 | 6 | 45 | 16 | 14 | 9 | 40 | 0.5 | 10.4 | 7 | | | |
| 8FHSLN03-50-d22 | 8 | 50 | 22 | 17 | 11 | 40 | 0.5 | 10.4 | 7 | | | |
| 8FHSLN03-55-d22 | 8 | 55 | 22 | 17 | 11 | 40 | 0.5 | 10.4 | 7 | | | |
| 8FHSLN03-63-d22 | 8 | 63 | 22 | 17 | 11 | 40 | 0.5 | 10.4 | 7 | | | |
| 10FHSLN03-70-d22 | 10 | 70 | 22 | 17 | 11 | 40 | 0.5 | 10.4 | 7 | | | |
| 10FHSLN03-80-d27 | 10 | 80 | 27 | 34 | 13 | 50 | 0.5 | 12.4 | 9 | | | |

LNMU 03



| Материал | P | M | K | S | Ap | Fz |
|----------|----------------|----------------|-----------------|--------------|-----------|-----------------|
| V: | 90 - 160 - 220 | 70 - 140 - 190 | 100 - 130 - 220 | 15 - 35 - 50 | 0.2 - 1.5 | 0.4 - 1.3 [0.7] |
| Сплав | | | | | | |
| CU1125 | ● | ○ | ● | | | |
| CU1125U | ● | ○ | ● | | | |
| CU1215 | ● | ● | ○ | | | |
| CU1225 | ● | ● | ○ | | | |
| CM1225 | | ● | | ○ | | |
| CS1125 | | ● | | ● | | |
| CS1130 | | ● | | ● | | |

● Первое применение ○ Второе применение ○ Допустимо

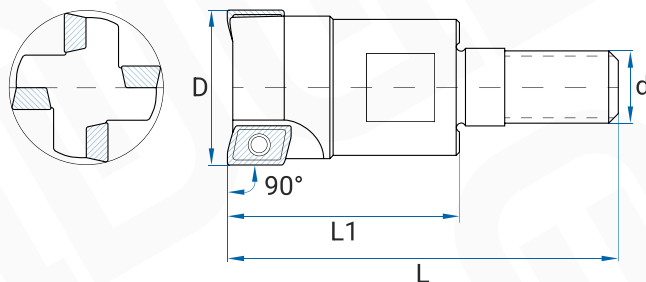
Фрезерование уступов и пазов

— Предназначены для обработки материалов групп:

P M K S

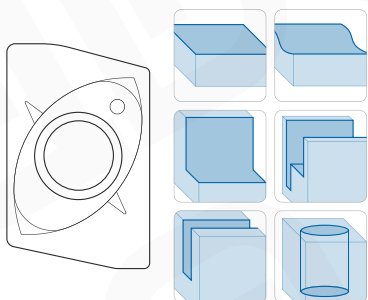
— Диаметр фрез от 8мм.

— Пластины с двумя позитивными режущими кромками



| Модель | Z | D | L1 | L | M | Пластина | Винт | Ключ |
|--------------------|---|----|----|----|----|----------|-------|------|
| 1E90JD07-08-17/M04 | 1 | 8 | 17 | 28 | 04 | JDMT | SJD07 | T6 |
| 1E90JD07-09-17/M04 | 1 | 9 | 17 | 28 | 04 | | | |
| 2E90JD07-10-17/M05 | 2 | 10 | 17 | 29 | 05 | | | |
| 2E90JD07-11-17/M05 | 2 | 11 | 17 | 29 | 05 | | | |
| 3E90JD07-12-17/M06 | 3 | 12 | 17 | 32 | 06 | | | |
| 3E90JD07-13-17/M06 | 3 | 13 | 17 | 32 | 06 | | | |
| 3E90JD07-14-17/M06 | 3 | 14 | 17 | 32 | 06 | | | |
| 3E90JD07-15-17/M06 | 3 | 15 | 17 | 32 | 06 | | | |
| 4E90JD07-16-25/M08 | 4 | 16 | 25 | 43 | 08 | | | |
| 4E90JD07-17-25/M08 | 4 | 17 | 25 | 43 | 08 | | | |

JDMT



| Материал | <u>P</u> | <u>M</u> | <u>K</u> | <u>S</u> | Ap | Fz |
|----------|----------------|----------------|-----------------|--------------|---------|------------------|
| V: | 90 - 160 - 220 | 70 - 140 - 190 | 100 - 130 - 220 | 15 - 35 - 50 | 0.3-4.0 | 0.06-0.18 [0.12] |
| Сплав | | | | | | |
| WM2025 | ● | ○ | ○ | | | |
| WM2420 | | ● | | ● | | |
| WM2425 | ● | ○ | ○ | | | |

● Первое применение ○ Второе применение ○ Допустимо

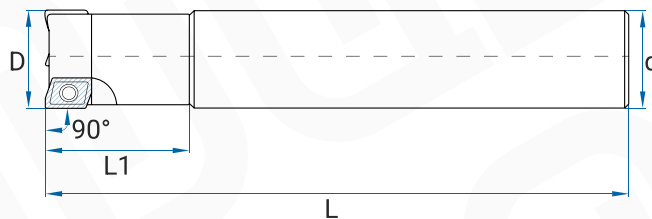
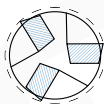
Фрезерование уступов и пазов

— Предназначены для обработки материалов групп:

P M K S

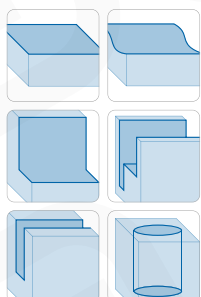
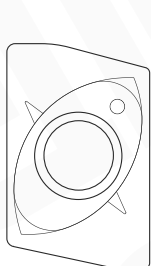
— Диаметр фрез от 8мм.

— Пластины с двумя позитивными режущими кромками



| Модель | Z | d | D | L1 | L | Пластина | Винт | Ключ |
|------------------------|---|----|----|----|-----|----------|-------|------|
| 1E90JD07-10-d08-17/100 | 1 | 10 | 08 | 17 | 100 | JDMT | SJD07 | T6 |
| 1E90JD07-10-d10-19/100 | 1 | 10 | 09 | 19 | 100 | | | |
| 2E90JD07-10-d10-22/100 | 2 | 10 | 10 | 22 | 100 | | | |
| 2E90JD07-10-d10-22/120 | 2 | 10 | 10 | 22 | 120 | | | |
| 2E90JD07-10-d11-11/100 | 2 | 10 | 11 | 11 | 100 | | | |
| 2E90JD07-10-d11-11/120 | 2 | 10 | 11 | 11 | 120 | | | |
| 3E90JD07-12-d12-26/80 | 3 | 12 | 12 | 26 | 80 | | | |
| 3E90JD07-12-d12-26/100 | 3 | 12 | 12 | 26 | 100 | | | |
| 3E90JD07-12-d12-26/120 | 3 | 12 | 12 | 26 | 120 | | | |
| 3E90JD07-12-d13-13/120 | 3 | 12 | 13 | 13 | 120 | | | |
| 3E90JD07-14-d14-30/100 | 3 | 14 | 14 | 30 | 100 | | | |
| 3E90JD07-12-d14-30/120 | 3 | 14 | 14 | 30 | 120 | | | |
| 3E90JD07-12-d14-30/160 | 3 | 14 | 14 | 30 | 160 | | | |
| 3E90JD07-14-d15-15/120 | 3 | 14 | 15 | 15 | 120 | | | |
| 3E90JD07-14-d15-15/160 | 3 | 14 | 15 | 15 | 160 | | | |
| 4E90JD07-16-d16-35/100 | 4 | 16 | 16 | 35 | 100 | | | |
| 4E90JD07-16-d16-35/120 | 4 | 16 | 16 | 35 | 120 | | | |
| 4E90JD07-16-d16-35/160 | 4 | 16 | 16 | 35 | 160 | | | |
| 4E90JD07-16-d17-17/120 | 4 | 16 | 17 | 17 | 120 | | | |
| 4E90JD07-16-d17-17/160 | 4 | 16 | 17 | 17 | 160 | | | |

JDMT



| Материал | <u>P</u> | <u>M</u> | <u>K</u> | <u>S</u> | Ap | Fz |
|----------|----------------|----------------|-----------------|--------------|---------|------------------|
| V: | 90 - 160 - 220 | 70 - 140 - 190 | 100 - 130 - 220 | 15 - 35 - 50 | 0.3-4.0 | 0.06-0.18 [0.12] |
| Сплав | | | | | | |
| WM2025 | ● | ○ | ○ | | | |
| WM2420 | | ● | | ● | | |
| WM2425 | ● | ○ | ○ | | | |

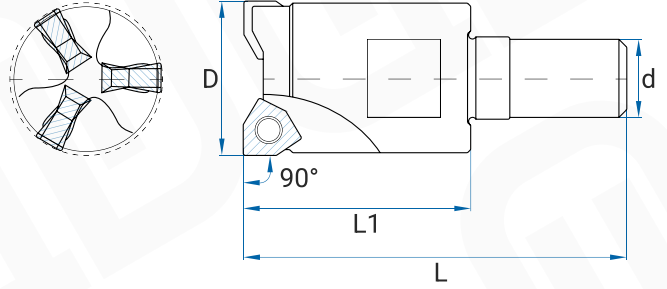
● Первое применение ○ Второе применение ○ Допустимо

Экономичное фрезерование уступов и пазов

– Предназначены для обработки материалов групп:

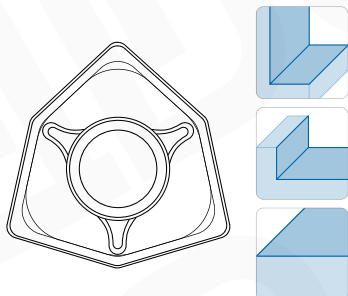
P M K S

– Пластины с шестью негативными режущими кромками



| Модель | Z | D | L1 | L | M | Пластина | Винт | Ключ |
|---------------------|---|----|----|----|----|-----------|-------|------|
| 2E90WN04-016-25/M08 | 2 | 16 | 25 | 43 | 08 | WNMU 0403 | SWN04 | T8 |
| 2E90WN04-017-25/M08 | 2 | 17 | 25 | 43 | 08 | | | |
| 3E90WN04-020-29/M10 | 3 | 20 | 29 | 49 | 10 | | | |
| 3E90WN04-021-29/M10 | 3 | 21 | 29 | 49 | 10 | | | |
| 3E90WN04-025-35/M12 | 3 | 25 | 35 | 57 | 12 | | | |
| 3E90WN04-026-35/M12 | 3 | 26 | 35 | 57 | 12 | | | |
| 4E90WN04-032-38/M16 | 4 | 32 | 38 | 63 | 16 | | | |
| 4E90WN04-033-38/M16 | 4 | 33 | 38 | 63 | 16 | | | |
| 5E90WN04-035-38/M16 | 5 | 35 | 38 | 63 | 16 | | | |
| Модель | Z | D | L1 | L | M | Пластина | Винт | Ключ |
| 2E90WN05-025-35/M12 | 2 | 25 | 35 | 57 | 12 | WNMU 0504 | SWN05 | T8 |
| 2E90WN05-026-35/M12 | 2 | 26 | 35 | 57 | 12 | | | |
| 2E90WN05-032-38/M16 | 2 | 32 | 38 | 63 | 16 | | | |
| 3E90WN05-033-38/M16 | 3 | 33 | 38 | 63 | 16 | | | |
| 4E90WN05-035-38/M16 | 4 | 35 | 38 | 63 | 16 | | | |

WNMU 0403/0504



| Материал | P | | | | M | | K | | S | | WNMU 0403 | | WNMU 0504 | | | | |
|----------|----------------|---|---|--|----------------|--|-----------------|--|--------------|--|-----------|----|-----------|------------------|---------|------------------|--|
| | 90 - 160 - 220 | | | | 70 - 140 - 190 | | 100 - 130 - 220 | | 15 - 35 - 50 | | Ap | Fz | Ap | Fz | | | |
| Сплав | | | | | | | | | | | | | 0.4-4.0 | 0.06-0.22 [0.14] | 0.6-5.0 | 0.08-0.26 [0.16] | |
| CU1125 | ● | ○ | ● | | | | | | | | | | | | | | |
| CU1125U | ● | ○ | ● | | | | | | | | | | | | | | |
| CU1215 | ● | ● | ○ | | | | | | | | | | | | | | |
| CU1225 | ● | ● | ○ | | | | | | | | | | | | | | |
| CM1225 | | ● | | | | | ○ | | | | | | | | | | |
| CS1125 | | ● | | | | | ● | | | | | | | | | | |

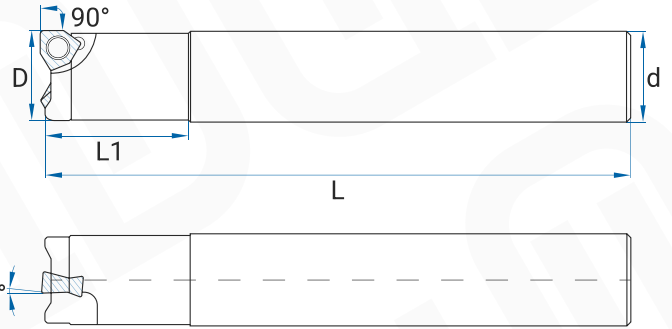
● Первое применение ○ Второе применение ○ Допустимо

Экономичное фрезерование уступов и пазов

— Предназначены для обработки материалов групп:

P M K S

— Пластины с шестью негативными режущими кромками



| Модель | Z | D | d | L1 | L | Пластина | Винт | Ключ |
|-------------------------|---|----|----|----|-----|--------------|-------|------|
| 2E90WN04-016-d16-35/120 | 2 | 16 | 16 | 35 | 120 | WNMU 0403 | SWN04 | T8 |
| 2E90WN04-016-d16-35/160 | 2 | 16 | 16 | 35 | 160 | | | |
| 2E90WN04-016-d16-35/200 | 2 | 16 | 16 | 35 | 200 | | | |
| 2E90WN04-017-d16-17/120 | 2 | 17 | 16 | 17 | 120 | | | |
| 2E90WN04-017-d16-17/160 | 2 | 17 | 16 | 17 | 160 | | | |
| 2E90WN04-017-d16-22/200 | 2 | 17 | 16 | 22 | 200 | | | |
| 3E90WN04-020-d20-44/120 | 3 | 20 | 20 | 44 | 120 | | | |
| 3E90WN04-020-d20-44/160 | 3 | 20 | 20 | 44 | 160 | | | |
| 3E90WN04-020-d20-44/200 | 3 | 20 | 20 | 44 | 200 | | | |
| 3E90WN04-021-d20-21/120 | 3 | 21 | 20 | 21 | 120 | | | |
| 3E90WN04-021-d20-21/160 | 3 | 21 | 20 | 21 | 160 | | | |
| 3E90WN04-021-d20-22/200 | 3 | 21 | 20 | 22 | 200 | | | |
| 3E90WN04-025-d25-55/120 | 3 | 25 | 25 | 55 | 120 | | | |
| 3E90WN04-025-d25-55/160 | 3 | 25 | 25 | 55 | 160 | | | |
| 3E90WN04-025-d25-55/200 | 3 | 25 | 25 | 55 | 200 | | | |
| 3E90WN04-026-d25-26/120 | 3 | 26 | 25 | 26 | 120 | | | |
| 3E90WN04-026-d25-26/160 | 3 | 26 | 25 | 26 | 160 | | | |
| 3E90WN04-026-d25-26/200 | 3 | 26 | 25 | 26 | 200 | | | |
| 4E90WN04-032-d32-64/120 | 4 | 32 | 32 | 64 | 120 | | | |
| 4E90WN04-032-d32-70/160 | 4 | 32 | 32 | 70 | 160 | | | |
| 4E90WN04-032-d32-70/200 | 4 | 32 | 32 | 70 | 200 | | | |
| 4E90WN04-033-d32-33/160 | 4 | 33 | 32 | 33 | 160 | | | |
| 4E90WN04-033-d32-33/200 | 4 | 33 | 32 | 33 | 200 | | | |

WNMU 0403



| Материал | P | M | K | S | Ap | Fz |
|----------|----------------|----------------|-----------------|--------------|---------|------------------|
| V: | 90 - 160 - 220 | 70 - 140 - 190 | 100 - 130 - 220 | 15 - 35 - 50 | 0.4-4.0 | 0.06-0.22 [0.14] |
| Сплав | | | | | | |
| CU1125 | ● | ○ | ● | | | |
| CU1125U | ● | ○ | ● | | | |
| CU1215 | ● | ● | ○ | | | |
| CU1225 | ● | ● | ○ | | | |
| CM1225 | | ● | | ○ | | |
| CS1125 | | ● | | ● | | |

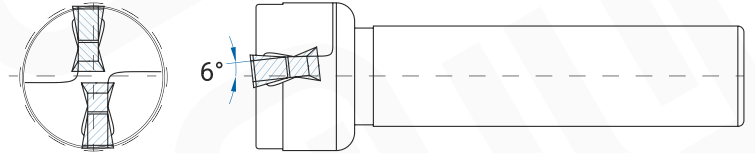
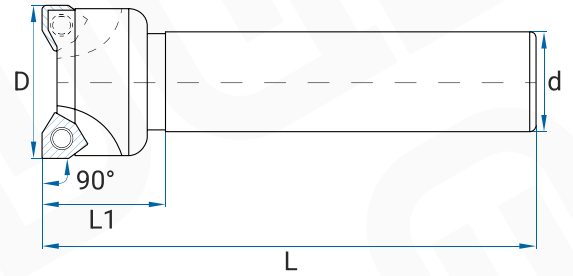
● Первое применение ○ Второе применение ○ Допустимо

Экономичное фрезерование уступов и пазов

— Предназначены для обработки материалов групп:

P **M** **K** **S**

— Пластины с шестью негативными режущими кромками



| Модель | Z | D | d | L1 | L | Пластина | Винт | Ключ |
|------------------------|---|----|----|----|----|--------------|-------|------|
| 2E90WN04-016-d16-20/80 | 2 | 16 | 16 | 20 | 80 | WNMU 0403 | SWN04 | T8 |
| 2E90WN04-017-d16-20/80 | 2 | 17 | 16 | 20 | 80 | | | |
| 2E90WN04-018-d16-20/80 | 2 | 18 | 16 | 20 | 80 | | | |
| 2E90WN04-019-d16-20/80 | 2 | 19 | 16 | 20 | 80 | | | |
| 3E90WN04-020-d16-20/80 | 3 | 20 | 16 | 20 | 80 | | | |
| 3E90WN04-021-d16-20/80 | 3 | 21 | 16 | 20 | 80 | | | |
| 3E90WN04-022-d16-20/80 | 3 | 22 | 16 | 20 | 80 | | | |
| 3E90WN04-023-d16-20/80 | 3 | 23 | 16 | 20 | 80 | | | |
| 3E90WN04-024-d16-20/80 | 3 | 24 | 16 | 20 | 80 | | | |
| 3E90WN04-025-d16-20/80 | 3 | 25 | 16 | 20 | 80 | | | |
| 3E90WN04-026-d16-20/80 | 3 | 26 | 16 | 20 | 80 | | | |
| 4E90WN04-028-d16-20/80 | 4 | 28 | 16 | 20 | 80 | | | |
| 4E90WN04-030-d16-20/80 | 4 | 30 | 16 | 20 | 80 | | | |
| 4E90WN04-032-d16-20/80 | 4 | 32 | 16 | 20 | 80 | | | |
| 5E90WN04-035-d16-20/80 | 5 | 35 | 16 | 20 | 80 | | | |
| 5E90WN04-040-d16-20/80 | 5 | 40 | 16 | 20 | 80 | | | |

WNMU 0403



| Материал | P | | | | M | | K | | S | | Ap | Fz |
|----------|----------------|--|--|--|----------------|--|-----------------|--|--------------|--|---------|------------------|
| | 90 - 160 - 220 | | | | 70 - 140 - 190 | | 100 - 130 - 220 | | 15 - 35 - 50 | | | |
| Сплав | | | | | | | | | | | | |
| CU1125 | ● | | | | ○ | | ● | | | | 0.4-4.0 | 0.06-0.22 [0.14] |
| CU1125U | ● | | | | ○ | | ● | | | | | |
| CU1215 | ● | | | | ● | | ○ | | | | | |
| CU1225 | ● | | | | ● | | ○ | | | | | |
| CM1225 | | | | | ● | | | | ○ | | | |
| CS1125 | | | | | ● | | | | ● | | | |

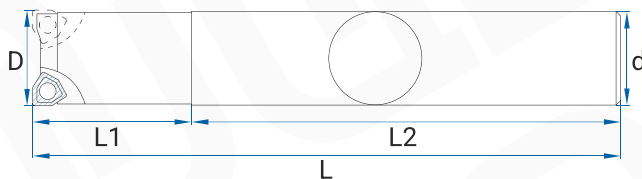
● Первое применение ○ Второе применение ○ Допустимо

Экономичное фрезерование уступов и пазов

— Предназначены для обработки материалов групп:

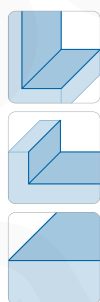
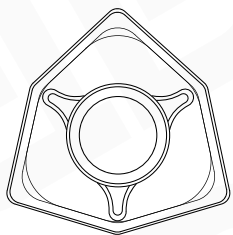
P M K S

— Пластины с шестью негативными режущими кромками



| Модель | Z | D | d | L | L1 | L2 | Пластина | Винт | Ключ |
|-------------------------|---|----|----|-----|----|-----|--------------|-------|------|
| 2E90WN05-025-d25-55/120 | 2 | 25 | 25 | 120 | 55 | 65 | WNMU 0504 | SWN05 | T8 |
| 2E90WN05-025-d25-55/160 | 2 | 25 | 25 | 160 | 55 | 105 | | | |
| 2E90WN05-026-d25-25/120 | 2 | 26 | 25 | 120 | 26 | 94 | | | |
| 2E90WN05-026-d25-26/160 | 2 | 26 | 25 | 160 | 26 | 134 | | | |
| 2E90WN05-026-d25-26/200 | 2 | 26 | 25 | 200 | 26 | 174 | | | |
| 3E90WN05-032-d32-70/160 | 3 | 32 | 32 | 160 | 70 | 90 | | | |
| 3E90WN05-032-d32-70/200 | 3 | 32 | 32 | 200 | 70 | 130 | | | |
| 3E90WN05-033-d32-33/160 | 3 | 33 | 32 | 160 | 33 | 127 | | | |
| 3E90WN05-033-d32-33/200 | 3 | 33 | 32 | 200 | 33 | 167 | | | |

WNMU 0504



| Материал | P | M | K | S | Ap | Fz |
|----------|----------------|----------------|-----------------|--------------|---------|------------------|
| V: | 90 - 160 - 220 | 70 - 140 - 190 | 100 - 130 - 220 | 15 - 35 - 50 | 0.6-5.0 | 0.08-0.26 [0.16] |
| Сплав | | | | | | |
| CU1125 | ● | ○ | ● | | | |
| CU1125U | ● | ○ | ● | | | |
| CU1215 | ● | ● | ○ | | | |
| CU1225 | ● | ● | ○ | | | |
| CM1225 | | ● | | ○ | | |
| CS1125 | | ● | | ● | | |

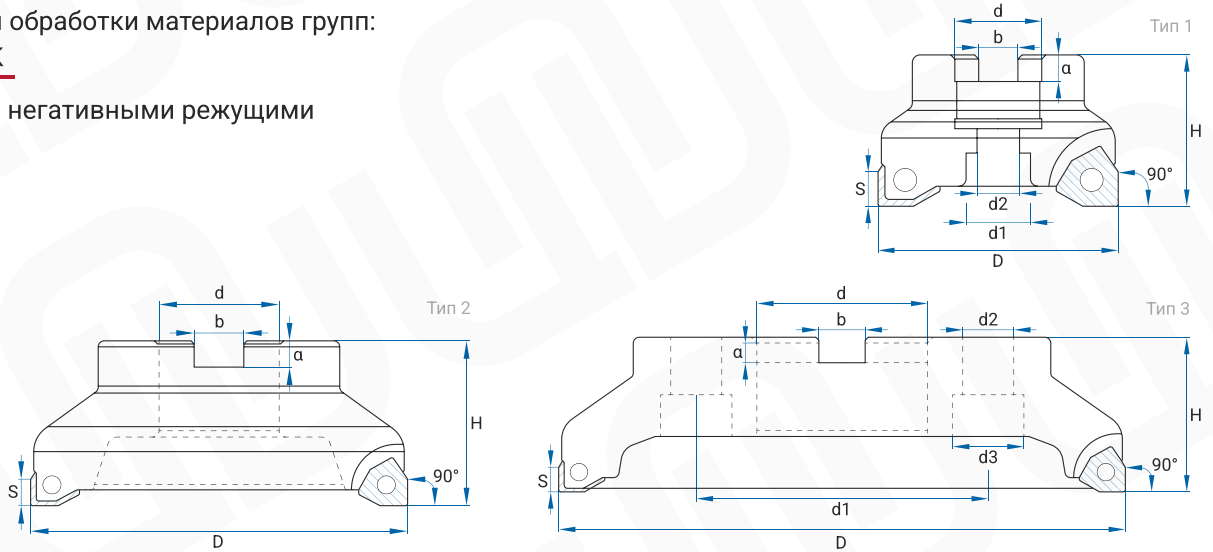
● Первое применение ○ Второе применение ○ Допустимо

Экономичное фрезерование уступов и пазов

— Предназначены для обработки материалов групп:

P M S H K

— Пластины с шестью негативными режущими кромками [3 типа]

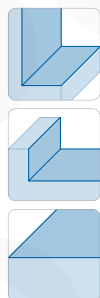
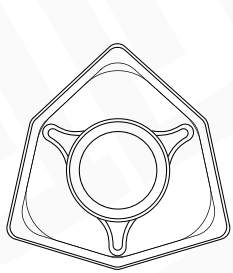


| Модель | Z | D | d | d1 | d2 | d3 | H | S | b | a | Тип | Пластина | Винт | Ключ |
|---------------------|---|----|----|----|----|----|----|---|------|---|-----|----------|-------|------|
| 4F90WN04 - 40 - d16 | 4 | 40 | 16 | 14 | 9 | - | 40 | 4 | 8.4 | 7 | 1 | WN0403 | SWN04 | T8 |
| 5F90WN04 - 50 - d22 | 5 | 50 | 22 | 17 | 11 | - | 40 | 4 | 10.4 | 7 | 1 | | | |
| 6F90WN04 - 63 - d22 | 6 | 63 | 22 | 17 | 11 | - | 40 | 4 | 10.4 | 7 | 1 | | | |
| 8F90WN04 - 80 - d27 | 8 | 80 | 27 | 34 | 13 | - | 40 | 4 | 12.4 | 7 | 1 | | | |

| Модель | Z | D | d | d1 | d2 | d3 | H | S | b | a | Тип | Пластина | Винт | Ключ |
|-----------------------|----|-----|----|-------|----|----|----|---|------|---|-----|----------|-------|------|
| 4F90WN08 - 50 - d22 | 4 | 50 | 22 | 17 | 11 | - | 40 | 8 | 10.4 | 7 | 1 | WN0806 | SWN08 | T8 |
| 5F90WN08 - 63 - d22 | 5 | 63 | 22 | 17 | 11 | - | 40 | 8 | 10.4 | 7 | 1 | | | |
| 6F90WN08 - 80 - d27 | 6 | 80 | 27 | 34 | 13 | - | 50 | 8 | 12.4 | 7 | 1 | | | |
| 7F90WN08 - 100 - d32 | 7 | 100 | 32 | 42 | 17 | - | 50 | 8 | 14.4 | 9 | 1 | | | |
| 8F90WN08 - 125 - d40 | 8 | 125 | 40 | - | - | - | 55 | 8 | 16.4 | 9 | 2 | | | |
| 10F90WN08 - 160 - d40 | 10 | 160 | 40 | - | - | - | 55 | 8 | 16.4 | 9 | 2 | | | |
| 12F90WN08 - 200 - d60 | 12 | 200 | 60 | 101.6 | 18 | 26 | 55 | 8 | 25.4 | 9 | 3 | | | |
| 14F90WN08 - 250 - d60 | 14 | 250 | 60 | 101.6 | 18 | 26 | 55 | 8 | 25.4 | 9 | 3 | | | |

| Модель | Z | D | d | d1 | d2 | d3 | H | S | b | a | Тип | Пластина | Винт | Ключ |
|---------------------|---|----|----|----|----|----|----|---|------|---|-----|----------|-------|------|
| 4F90WN05 - 40 - d16 | 4 | 40 | 16 | 14 | 9 | - | 40 | 5 | 8.4 | 7 | 1 | WN0504 | SWN05 | T8 |
| 5F90WN05 - 50 - d22 | 5 | 50 | 22 | 17 | 11 | - | 40 | 5 | 10.4 | 7 | 1 | | | |
| 6F90WN05 - 63 - d22 | 6 | 63 | 22 | 17 | 11 | - | 40 | 5 | 10.4 | 7 | 1 | | | |
| 8F90WN05 - 80 - d27 | 8 | 80 | 27 | 34 | 13 | - | 50 | 5 | 12.4 | 7 | 1 | | | |

WNMU 0403/0504/0806



| Материал | P | | M | | K | | S | | WN 0403 | WN 0504 | | WN 0806 | | |
|----------|----|----------------|----------------|-----------------|--------------|----|----|----|-----------------------------|-----------------------------|---------------------------|---------|--|--|
| | V: | 90 - 160 - 220 | 70 - 140 - 190 | 100 - 130 - 220 | 15 - 35 - 50 | Ap | Fz | Ap | Fz | Ap | Fz | | | |
| Сплав | | | | | | | | | | | | | | |
| CU1125 | ● | | ○ | | ● | | | | 0.4-4.0 0.06-0.22 [0.14] | | | | | |
| CU1125U | ● | | ○ | | ● | | | | | 0.6-5.0 0.08-0.26 [0.16] | | | | |
| CU1215 | ● | | ● | | ○ | | | | | | 0.8-8.0 0.1-0.3 [0.18] | | | |
| CU1225 | ● | | ● | | ○ | | | | | | | | | |
| CM1225 | | | ● | | | | ○ | | | | | | | |
| CS1125 | | | ● | | | | ● | | | | | | | |

● Первое применение ○ Второе применение ◉ Допустимо