



EJ Carbide Co.,Ltd

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Web: www.ejcarbide.com

# MILLING

## Indexable Milling Tools

### Face milling tools

Kr:75°

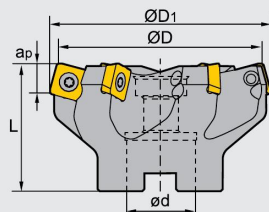


Face milling

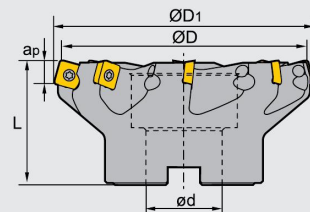
FME02 P M K



A-type coupling



B-type coupling



### Specification of tools

| Type         | Stock            | Basic dimensions(mm) |                 |     |    |       | Number of teeth Z | Type of coupling | Weight (kg) |
|--------------|------------------|----------------------|-----------------|-----|----|-------|-------------------|------------------|-------------|
|              |                  | ØD                   | ØD <sub>1</sub> | ød  | L  | apmax |                   |                  |             |
| <b>FME02</b> | -050-A22-SP12-04 | △                    | 50              | 54  | 22 | 40    | 6                 | A                | 0.3         |
|              | -063-A22-SP12-05 | △                    | 63              | 66  | 22 | 50    | 6                 | A                | 0.6         |
|              | -080-A27-SP12-06 | △                    | 80              | 83  | 27 | 50    | 6                 | A                | 0.9         |
|              | -100-B32-SP12-07 | △                    | 100             | 103 | 32 | 50    | 6                 | B                | 1.4         |
|              | -125-B40-SP12-08 | △                    | 125             | 128 | 40 | 63    | 6                 | B                | 2.5         |

▲Stock available

△Make-to-order

B

Indexable milling tools

Face milling tools

### Spare parts

| Diameter ØD | Insert screw | Wrench |
|-------------|--------------|--------|
| Ø50-Ø125    | I60M5×13.2   | WT20IS |
|             |              |        |
|             |              |        |





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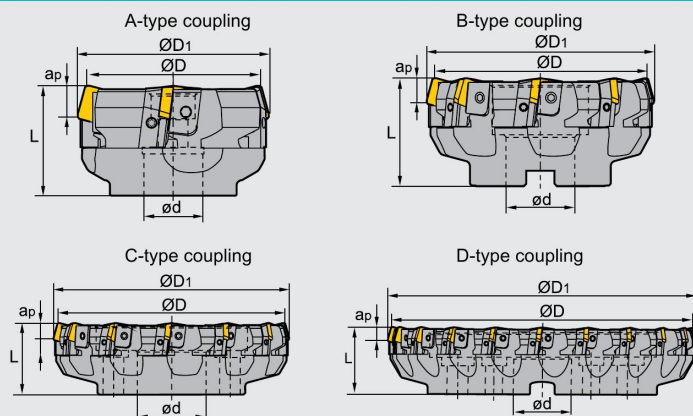
## Indexable Milling Tools

### Face milling tools

Kr:75°



FME03 P M K



### Specification of tools

| Type  |                  | Stock |   | Basic dimensions(mm) |                 |    |    |                   | Number of teeth<br>Z | Type of coupling | Weight<br>(kg) |
|-------|------------------|-------|---|----------------------|-----------------|----|----|-------------------|----------------------|------------------|----------------|
|       |                  | R     | L | ØD                   | ØD <sub>1</sub> | ød | L  | a <sub>pmax</sub> |                      |                  |                |
| FME03 | -080-A27-SP12-04 | ▲     | △ | 80                   | 84              | 27 | 50 | 6                 | 4                    | A                | 1.1            |
|       | -100-B32-SP12-06 | ▲     | △ | 100                  | 104             | 32 | 50 | 6                 | 6                    | B                | 1.9            |
|       | -125-B40-SP12-08 | ▲     | △ | 125                  | 129             | 40 | 63 | 6                 | 8                    | B                | 3.5            |
|       | -160-B40-SP12-10 | ▲     | △ | 160                  | 164             | 40 | 63 | 6                 | 10                   | B                | 5.7            |
|       | -200-C60-SP12-12 | ▲     | △ | 200                  | 203             | 60 | 63 | 6                 | 12                   | C                | 8.2            |
|       | -250-C60-SP12-16 | ▲     | △ | 250                  | 253             | 60 | 63 | 6                 | 16                   | C                | 13.8           |
|       | -315-D60-SP12-20 | ▲     | △ | 315                  | 318             | 60 | 70 | 6                 | 20                   | D                | 23.5           |
|       | -080-A27-SP15-04 | ▲     | △ | 80                   | 84              | 27 | 50 | 8                 | 4                    | A                | 1.0            |
|       | -100-B27-SP15-06 | ▲     | △ | 100                  | 104             | 27 | 50 | 8                 | 6                    | B                | 1.8            |
|       | -125-B40-SP15-08 | ▲     | ▲ | 125                  | 129             | 40 | 63 | 8                 | 8                    | B                | 3.3            |
|       | -160-B40-SP15-10 | ▲     | ▲ | 160                  | 164             | 40 | 63 | 8                 | 10                   | B                | 5.4            |
|       | -200-C60-SP15-12 | ▲     | ▲ | 200                  | 204             | 60 | 63 | 8                 | 12                   | C                | 7.9            |
|       | -250-C60-SP15-16 | ▲     | ▲ | 250                  | 253             | 60 | 63 | 8                 | 16                   | C                | 13.6           |
|       | -315-D60-SP15-20 | ▲     | ▲ | 315                  | 318             | 60 | 70 | 8                 | 20                   | D                | 23.1           |

▲Stock available △Make-to-order

### Spare parts

| Diameter<br>ØD | Inserts | Locator                                                                             | Wedge                                                                               | Wedge Screw                                                                         | Locator screw                                                                       | Wrench                                                                               |  |
|----------------|---------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                |         |  |  |  |  |  |                                                                                       |
| Ø80-Ø100       | SP12    | LSP12R/L                                                                            | W04R/L                                                                              | WM8×17                                                                              | LOM5×15.1                                                                           | WT20T<br>WT25T                                                                       |                                                                                       |
| Ø125-Ø315      |         |                                                                                     |                                                                                     | WM8×22                                                                              |                                                                                     |                                                                                      |                                                                                       |
| Ø80-Ø315       | SP15    | LSP15R/L                                                                            | W04R/L                                                                              | WM8×22                                                                              |                                                                                     |                                                                                      |                                                                                       |



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### Face milling tools

Kr:75°

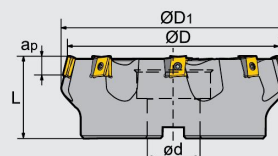


Face milling

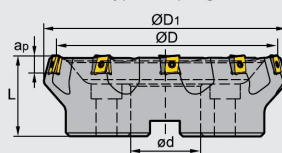
FME04 P M K



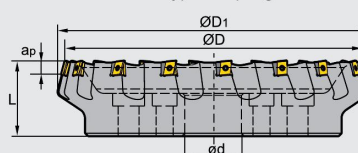
B-type coupling



C-type coupling



D-type coupling



### Specification of tools

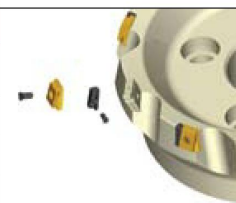
| type         | Stock            |   | ØD | ØD1 | ød  | L  | apmax | Number of teeth Z | Applicable inserts | Style of coupling | Weight (kg) |
|--------------|------------------|---|----|-----|-----|----|-------|-------------------|--------------------|-------------------|-------------|
|              | R                | L |    |     |     |    |       |                   |                    |                   |             |
| <b>FME04</b> | -125-B40-LN15-06 | ▲ | △  | 125 | 137 | 40 | 63    | 8                 | 6                  | B                 | 3.8         |
|              | -160-B40-LN15-08 | ▲ | △  | 160 | 170 | 40 | 63    | 8                 | 8                  | C                 | 6.6         |
|              | -200-C60-LN15-10 | ▲ | △  | 200 | 208 | 60 | 70    | 8                 | 10                 | C                 | 9.6         |
|              | -250-C60-LN15-12 | ▲ | △  | 250 | 257 | 60 | 70    | 8                 | 12                 | C                 | 13.4        |
|              | -315-D60-LN15-16 | ▲ | △  | 315 | 328 | 60 | 80    | 8                 | 16                 | D                 | 25.2        |

▲Stock available

△Make-to-order

### Spare parts

| Diameter ØD | Shim     | Shim screw | Insert screw | Wrench         |
|-------------|----------|------------|--------------|----------------|
| Ø125-Ø315   | LLN15-ZR | I60M3×7    | I60M4×12     | WT15IS, WT10IS |
|             |          |            |              |                |
|             |          |            |              |                |





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# MILLING

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### Face milling tools **Kr:90°**



Face milling

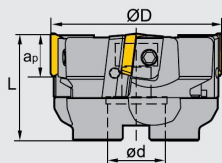


Step shoulder

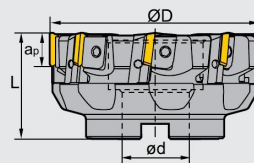
**FMP01** **P** **M** **K**



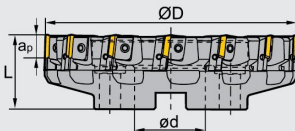
A-type coupling



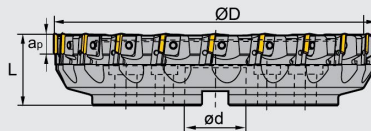
B-type coupling



C-type coupling



D-type coupling



### Specification of tools

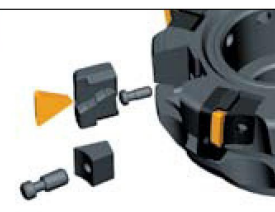
| Type                          | Stock |   | Basic dimensions(mm) |    |    |       | Number of teeth Z | Type of coupling | Weight (kg) |
|-------------------------------|-------|---|----------------------|----|----|-------|-------------------|------------------|-------------|
|                               | R     | L | ØD                   | ød | L  | apmax |                   |                  |             |
| <b>FMP01</b> -080-A27-TP22-04 | ▲     | △ | 80                   | 27 | 50 | 18    | 4                 | A                | 1.2         |
| -100-B32-TP22-06              | ▲     | △ | 100                  | 32 | 50 | 18    | 6                 | B                | 1.7         |
| -125-B40-TP22-08              | ▲     | △ | 125                  | 40 | 63 | 18    | 8                 | B                | 3.2         |
| -160-B40-TP22-10              | ▲     | △ | 160                  | 40 | 63 | 18    | 10                | B                | 5.1         |
| -200-C60-TP22-12              | ▲     | △ | 200                  | 60 | 63 | 18    | 12                | C                | 7.4         |
| -250-C60-TP22-16              | ▲     | △ | 250                  | 60 | 63 | 18    | 16                | C                | 12.3        |
| -315-D60-TP22-20              | ▲     | △ | 315                  | 60 | 70 | 18    | 20                | D                | 21.9        |

▲Stock available

△Make-to-order

### Spare parts

| Diameter ØD | Locator   | Wedge  | Wedge Screw | Locator screw | Wrench |
|-------------|-----------|--------|-------------|---------------|--------|
| Ø80 Ø100    | LTP4R1/L1 | W04R/L | WM8×17      | LOM5×15.1     | WT20T  |
| Ø125 ~ Ø315 | LTP4R/L   | W04R/L | WM8×22      | LOM5×15.1     | WT25T  |





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### Face milling tools

Kr:90°



Face milling

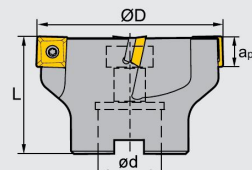


Step shoulder

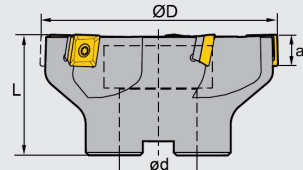
FMP02 P M K



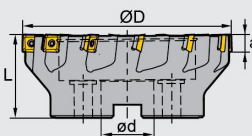
A-type coupling



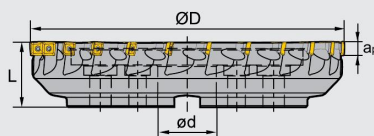
B-type coupling



C-type coupling



D-type coupling



### Specification of tools

| Type  |                  | Stock | Basic dimensions(mm) |    |    |                   | Number of<br>teeth<br>Z | Type of<br>coupling | Weight<br>(kg) |
|-------|------------------|-------|----------------------|----|----|-------------------|-------------------------|---------------------|----------------|
|       |                  |       | ØD                   | ød | L  | a <sub>pmax</sub> |                         |                     |                |
| FMP02 | -050-A22-SE09-05 | ▲     | 50                   | 22 | 40 | 6.7               | 5                       | A                   | 0.3            |
|       | -063-A22-SE09-06 | ▲     | 63                   | 22 | 40 | 6.7               | 6                       | A                   | 0.5            |
|       | -080-A27-SE09-08 | ▲     | 80                   | 27 | 50 | 6.7               | 8                       | A                   | 0.9            |
|       | -100-B32-SE09-08 | ▲     | 100                  | 32 | 50 | 6.7               | 8                       | B                   | 1.7            |
|       | -100-B32-SE09-10 | △     | 100                  | 32 | 50 | 6.7               | 10                      | B                   | 1.7            |
|       | -125-B40-SE09-12 | △     | 125                  | 40 | 63 | 6.7               | 12                      | B                   | 2.6            |

▲Stock available

△Make-to-order

B

Indexable milling tools

Face milling tools



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## Indexable Milling Tools

# MILLING

### Specification of tools

| Type  |                  | Stock | Basic dimensions(mm) |    |    |                   | Number of teeth Z | Type of coupling | Weight (kg) |
|-------|------------------|-------|----------------------|----|----|-------------------|-------------------|------------------|-------------|
|       |                  |       | ØD                   | ød | L  | a <sub>pmax</sub> |                   |                  |             |
| FMP02 | -050-A22-SE12-03 | ▲     | 50                   | 22 | 40 | 10.8              | 3                 | A                | 0.3         |
|       | -063-A22-SE12-04 | ▲     | 63                   | 22 | 40 | 10.8              | 4                 | A                | 0.4         |
|       | -080-A27-SE12-04 | ▲     | 80                   | 27 | 50 | 10.8              | 4                 | A                | 0.9         |
|       | -100-B32-SE12-05 | ▲     | 100                  | 32 | 50 | 10.8              | 5                 | B                | 1.2         |
|       | -125-B40-SE12-06 | ▲     | 125                  | 40 | 63 | 10.8              | 6                 | B                | 3.1         |
|       | -160-C40-SE12-08 | ▲     | 160                  | 40 | 63 | 10.8              | 8                 | C                | 4.1         |
|       | -250-C60-SE12-12 | ▲     | 250                  | 60 | 63 | 10.8              | 12                | C                | 11.1        |
|       | -050-A22-SE12-04 | ▲     | 50                   | 22 | 40 | 10.8              | 4                 | A                | 0.3         |
|       | -063-A22-SE12-05 | ▲     | 63                   | 22 | 40 | 10.8              | 5                 | A                | 0.4         |
|       | -080-A27-SE12-06 | ▲     | 80                   | 27 | 50 | 10.8              | 6                 | A                | 0.8         |
|       | -100-B32-SE12-07 | ▲     | 100                  | 32 | 50 | 10.8              | 7                 | B                | 1.2         |
|       | -125-B40-SE12-08 | ▲     | 125                  | 40 | 63 | 10.8              | 8                 | B                | 3.0         |
|       | -160-C40-SE12-12 | ▲     | 160                  | 40 | 63 | 10.8              | 12                | C                | 3.9         |
|       | -050-A22-SE12-05 | ▲     | 50                   | 22 | 40 | 10.8              | 5                 | A                | 0.2         |
|       | -063-A22-SE12-06 | ▲     | 63                   | 22 | 40 | 10.8              | 6                 | A                | 0.4         |
|       | -080-A27-SE12-08 | ▲     | 80                   | 27 | 50 | 10.8              | 8                 | A                | 0.8         |
|       | -100-B32-SE12-10 | ▲     | 100                  | 32 | 50 | 10.8              | 10                | B                | 1.2         |
|       | -125-B40-SE12-12 | ▲     | 125                  | 40 | 63 | 10.8              | 12                | B                | 2.9         |
|       | -200-C60-SE12-16 | ▲     | 200                  | 60 | 63 | 10.8              | 16                | C                | 6.1         |
|       | -250-C60-SE12-18 | ▲     | 250                  | 60 | 63 | 10.8              | 18                | C                | 10.9        |
|       | -315-D60-SE12-24 | ▲     | 315                  | 60 | 63 | 10.8              | 24                | D                | 21.6        |

▲ Stock available    △ Make-to-order

**B**  
Indexable  
milling tools  
Face milling tools

### Spare parts

| Diameter ØD | Inserts | Shim   | Insert screw | Shim screw | Wrench | Wrench |
|-------------|---------|--------|--------------|------------|--------|--------|
| Ø50 ~ Ø125  | SE09    | --     | I60M3×7      | --         | WT09IS | --     |
| Ø50         | SE12    | --     | I60M3.5×10   | --         | WT15IS | --     |
| Ø63 ~ Ø315  |         | S12BSX | I60M3.5×12   | SM5×7XA    |        | WH35L  |

Tools code key **B20-B21**

Grade selection guide **B15-B19**

Technical data **B168-B173**



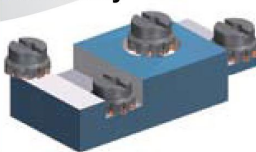
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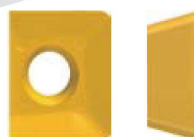
## Features of **FMP02** series milling cutters

### High economical efficiency



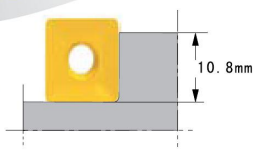
FMP02 series square shoulder milling cutters can carry out a variety of cutting operations including face milling, vertical square shoulder milling, slot milling, etc. Coarse pitch, close pitch and extra close pitch, each has its unique merit. Inserts' chipbreakers and grades have been applied and optimized over a long period of time. They can achieve high-efficiency machining under different conditions. Each insert has 4 cutting edges, which is highly economical.

### Low cutting force



Large positive rake angle makes cutting easy and fast.

### High productivity



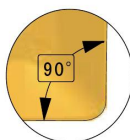
The major cutting edge is a  $\alpha$ -curve, therefore, the S type insert can obtain an ideal  $90^\circ$  approach angle while retaining a suitable minor angle, ensuring stable cutting operation. The maximum cutting depth can reach 10.8mm, and the maximum feed rate can reach 0.3mm/z.

### Easy and convenient use



Simple screw clamping, convenient insert displacement, large chip pocket of rake face for smooth chip removal.

### High precision



Special structure design of inserts and tools and proper production ensure high precision, greatly improving the workpiece precision and surface quality.

### High security



Precisely machined carbide shim is adopted to protect tool body and make it durable.



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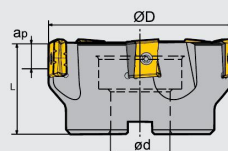
Kr:90°



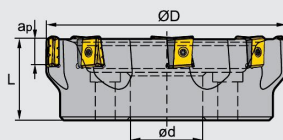
FMP03 P M K



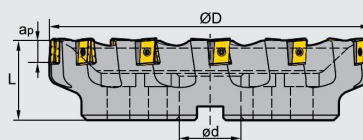
B-type coupling



C-type coupling



D-type coupling



### Specification of tools

| type  |                  | Stock |   | ØD  | Ød | L  | a <sub>pmax</sub> | Number of teeth Z | Applicable inserts | Style of coupling | Weight (kg) |
|-------|------------------|-------|---|-----|----|----|-------------------|-------------------|--------------------|-------------------|-------------|
|       |                  | R     | L |     |    |    |                   |                   |                    |                   |             |
| FMP03 | -125-B40-LN15-06 | ▲     | △ | 125 | 40 | 63 | 8                 | 6                 | LNKT1506EN-ZR      | B                 | 3.2         |
|       | -160-C40-LN15-08 | ▲     | △ | 160 | 40 | 63 | 8                 | 8                 |                    | C                 | 5.1         |
|       | -200-C60-LN15-10 | ▲     | △ | 200 | 60 | 70 | 8                 | 10                |                    | C                 | 7.5         |
|       | -250-C60-LN15-12 | ▲     | △ | 250 | 60 | 70 | 8                 | 12                |                    | C                 | 12.2        |
|       | -315-D60-LN15-16 | ▲     | △ | 315 | 60 | 80 | 8                 | 16                |                    | D                 | 23.7        |
|       | -125-B40-LN20-06 | ▲     | △ | 125 | 40 | 63 | 12                | 6                 | LNKT2007DN-ZR      | B                 | 3.3         |
|       | -160-C40-LN20-08 | ▲     | △ | 160 | 40 | 63 | 12                | 8                 |                    | C                 | 5.3         |
|       | -200-C60-LN20-10 | ▲     | △ | 200 | 60 | 70 | 12                | 10                |                    | C                 | 8.8         |
|       | -250-C60-LN20-12 | ▲     | △ | 250 | 60 | 70 | 12                | 12                |                    | C                 | 14.0        |
|       | -315-D60-LN20-15 | ▲     | △ | 315 | 60 | 80 | 12                | 15                |                    | D                 | 23.9        |
|       | -125-B40-LN25-05 | ▲     | △ | 125 | 40 | 63 | 15                | 5                 | LNKT2510-ZR        | B                 | 3.3         |
|       | -160-C40-LN25-06 | ▲     | △ | 160 | 40 | 63 | 15                | 6                 |                    | C                 | 5.1         |
|       | -200-C60-LN25-08 | ▲     | △ | 200 | 60 | 70 | 15                | 8                 |                    | C                 | 8.9         |
|       | -250-C60-LN25-10 | ▲     | △ | 250 | 60 | 70 | 15                | 10                |                    | C                 | 12.0        |
|       | -315-D60-LN25-12 | ▲     | △ | 315 | 60 | 80 | 15                | 12                |                    | D                 | 21.9        |

▲Stock available △Make-to-order

### Spare parts

| Inserts       | Shim      | Shim screw   | Insert screw | Wrench |        |
|---------------|-----------|--------------|--------------|--------|--------|
| LNKT1506EN-ZR | LLN15-ZR  | I60M3×7      | I60M4×12     | WT15IS | WT10IS |
| LNKT2007DN-ZR | LLN20R-ZR | I60M3×7      | I60M4×15     | WT15IS | WT10IS |
| LNKT2510-ZR   | LLN25R-ZR | I60M3.5×10.4 | I60M5×17     | WT20IT | WT15IS |





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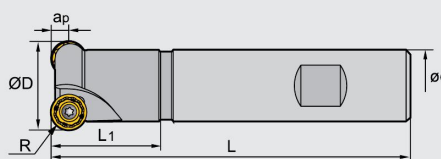
# MILLING

## Indexable Milling Tools

### Face milling tools



**FMR01** **P** **M** **K**



### Specification of tools

| Type                           | Stock | Basic dimensions(mm) |    |     |                |   |       | Number of teeth Z | Weight (kg) |
|--------------------------------|-------|----------------------|----|-----|----------------|---|-------|-------------------|-------------|
|                                |       | ØD                   | ød | L   | L <sub>1</sub> | R | apmax |                   |             |
| <b>FMR01</b> -025-XP20-RC10-02 | ▲     | 25                   | 20 | 100 | 30             | 5 | 5     | 2                 | 0.2         |
| -032-XP25-RC10-02              | ▲     | 32                   | 25 | 120 | 35             | 5 | 5     | 2                 | 0.5         |
| -040-XP32-RC12-03              | ▲     | 40                   | 32 | 120 | 40             | 6 | 6     | 3                 | 0.7         |
| -050-XP32-RC12-03              | ▲     | 50                   | 32 | 120 | 40             | 6 | 6     | 3                 | 0.8         |

▲ Stock available

△ Make-to-order

### Spare parts

| Diameter<br>ØD | Insert screw                                                                        | Wrench                                                                              |  |
|----------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                |  |  |                                                                                       |
| Ø25 -Ø32       | I60M4×8.4                                                                           | WT15S                                                                               |                                                                                       |
| Ø40 -Ø50       | I60M3.5×10                                                                          |                                                                                     |                                                                                       |
|                |                                                                                     |                                                                                     |                                                                                       |



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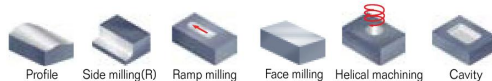
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## Indexable Milling Tools

# MILLING

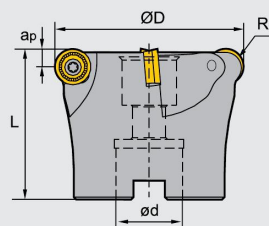
### Face milling tools



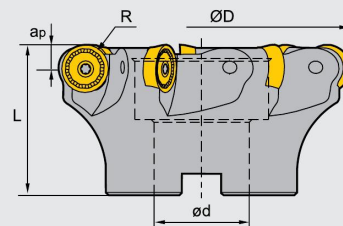
**FMR02** **P** **M** **K**



A-type coupling



B-type coupling



### Specification of tools

| Type                          | Stock | Basic dimensions(mm) |    |    |    |       | Number of teeth<br>Z | Type of coupling | Weight (kg) |
|-------------------------------|-------|----------------------|----|----|----|-------|----------------------|------------------|-------------|
|                               |       | ØD                   | ød | L  | R  | apmax |                      |                  |             |
| <b>FMR02</b> -063-A22-RC12-04 | ▲     | 63                   | 22 | 50 | 6  | 6     | 4                    | A                | 0.7         |
| -080-B27-RC16-05              | ▲     | 80                   | 27 | 50 | 8  | 8     | 5                    | B                | 0.7         |
| -100-B32-RC16-06              | ▲     | 100                  | 32 | 63 | 8  | 8     | 6                    | B                | 1.2         |
| -125-B40-RC20-07              | △     | 125                  | 40 | 63 | 10 | 10    | 7                    | B                | 2.2         |
| -160-B40-RC20-08              | △     | 160                  | 40 | 63 | 10 | 10    | 8                    | B                | 4.2         |

▲ Stock available

△ Make-to-order

**B**  
Indexable  
milling tools  
Face milling tools

### Spare parts

| Diameter<br>ØD | Insert screw | Wrench |        |
|----------------|--------------|--------|--------|
|                |              |        |        |
| Ø63            | I60M3.5×10   | WT15IS | --     |
| Ø80 -Ø100      | I60M5×13     | --     | WT20IT |
| Ø125 -Ø160     | I43M6×16     | --     | WT25IT |



Tools code key **B20-B21**

Grade selection guide **B15-B19**

Technical data **B168-B173**



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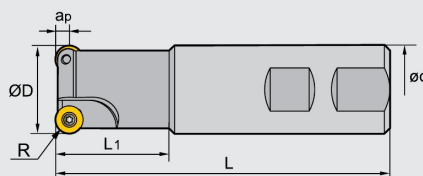
## Indexable Milling Tools

# MILLING

### Face milling tools



**FMR03** **P** **M** **K**



#### Specification of tools

| Type                           | Stock | Basic dimensions(mm) |    |     |                |   |       | Number of teeth Z | Weight (kg) |
|--------------------------------|-------|----------------------|----|-----|----------------|---|-------|-------------------|-------------|
|                                |       | ØD                   | ød | L   | L <sub>1</sub> | R | apmax |                   |             |
| <b>FMR03</b> -016-XP16-RD08-02 | ▲     | 16                   | 16 | 100 | 25             | 4 | 4     | 2                 | 0.1         |
| -025-XP25-RD08-02              | ▲     | 25                   | 25 | 100 | 30             | 4 | 4     | 2                 | 0.3         |
| -032-XP32-RD10-02              | ▲     | 32                   | 32 | 120 | 40             | 5 | 5     | 2                 | 0.7         |
| -040-XP32-RD12-03              | ▲     | 40                   | 32 | 120 | 40             | 6 | 6     | 3                 | 0.7         |
| -050-XP32-RD12-04              | ▲     | 50                   | 32 | 120 | 40             | 6 | 6     | 4                 | 0.8         |

▲Stock available

△Make-to-order

**B**  
Indexable  
milling tools  
Face milling tools

#### Spare parts

| Diameter<br>ØD | Insert screw                                                                        | Wrench                                                                              |  |
|----------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                |  |  |                                                                                       |
| Ø25            | I60M3×7                                                                             | WT09IP                                                                              |                                                                                       |
| Ø32-Ø50        | I60M4×10                                                                            | WT15IP                                                                              |                                                                                       |

Tools code key **B20-B21**

Grade selection guide **B15-B19**

Technical data **B168-B173**



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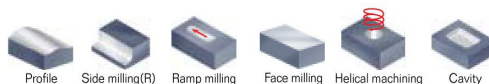
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## Indexable Milling Tools

# MILLING

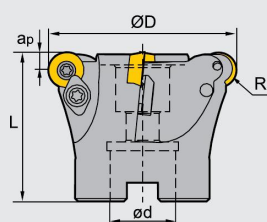
### Face milling tools



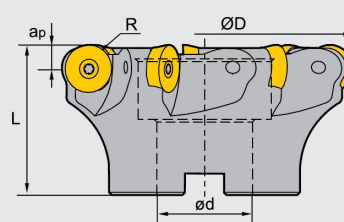
**FMR04** P M K



A-type coupling



B-type coupling



### Specification of tools

| Type  |                  | Stock | Basic dimensions(mm) |    |    |    |       | Number of<br>teeth<br>Z | Type of<br>coupling | Weight<br>(kg) |
|-------|------------------|-------|----------------------|----|----|----|-------|-------------------------|---------------------|----------------|
|       |                  |       | ØD                   | ød | L  | R  | apmax |                         |                     |                |
| FMR04 | -050-A22-RD12-03 | ▲     | 50                   | 22 | 40 | 6  | 6     | 3                       | A                   | 0.3            |
|       | -063-A22-RD12-04 | ▲     | 63                   | 22 | 50 | 6  | 6     | 4                       | A                   | 0.5            |
|       | -080-B27-RD16-05 | ▲     | 80                   | 27 | 50 | 8  | 8     | 5                       | B                   | 1.2            |
|       | -100-B32-RD16-06 | ▲     | 100                  | 32 | 50 | 8  | 8     | 6                       | B                   | 1.0            |
|       | -125-B40-RD20-06 | ▲     | 125                  | 40 | 63 | 10 | 10    | 6                       | B                   | 1.9            |
|       | -160-B40-RD20-07 | ▲     | 160                  | 40 | 63 | 10 | 10    | 7                       | B                   | 3.7            |

▲Stock available

△Make-to-order

### Spare parts

| Diameter ØD | Insert screw | Clamp  | Clamp screw | Wrench |        |
|-------------|--------------|--------|-------------|--------|--------|
| Ø50-Ø63     | I60M3.5×10   | WD-204 | I60M4×10    | WT15IP | --     |
| Ø80 -Ø100   | I60M5×13     | --     | --          | --     | WT20IT |
| Ø125 -Ø160  | I43M6×16     |        |             | --     | WT25IT |



Tools code key **B20-B21**

Grade selection guide **B15-B19**

Technical data **B168-B173**



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## Indexable Milling Tools

# MILLING

### Case for FMR04



- Tool type: FMR04-063-A22-RD12-04
- Insert type/grade: RDKW1204MO/ EY9525

Workpiece material: 42CrMo (HRC35)  
Cooling system: Dry cutting  
Machine: Vertical machining center  
Cutting parameters:  
 $V_c=200\text{m/min}$   
 $a_p=3\text{mm}$   
 $f_z=0.3\text{mm/z}$



### ● Abrasion comparison after 90 minutes cavity milling



Similar overseas products



**B**  
Indexable  
milling tools  
Face milling tools



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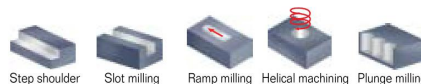
Web: www.ejcarbide.com

# MILLING

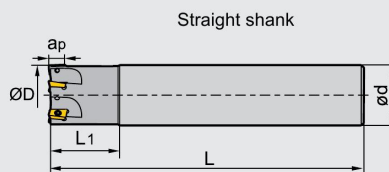
## Indexable Milling Tools

### Square shoulder milling tools

Kr:90°



EMP01 P M K N



### Specification of tools

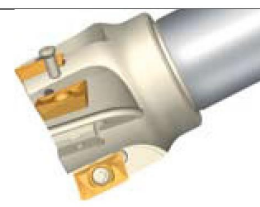
| Type                           |                  | Stock | Basic dimensions(mm) |    |     |    |       | Number of teeth<br>Z | Weight<br>(kg) |
|--------------------------------|------------------|-------|----------------------|----|-----|----|-------|----------------------|----------------|
|                                |                  |       | ØD                   | ød | L   | L1 | apmax |                      |                |
| <b>EMP01</b><br>Straight shank | -012-G16-AP11-01 | ▲     | 12                   | 16 | 85  | 25 | 10.5  | 1                    | 0.1            |
|                                | -016-G16-AP11-02 | ▲     | 16                   | 16 | 90  | 25 | 10.5  | 2                    | 0.1            |
|                                | -020-G20-AP11-02 | ▲     | 20                   | 20 | 100 | 30 | 10.5  | 2                    | 0.2            |
|                                | -025-G25-AP11-03 | ▲     | 25                   | 25 | 115 | 35 | 10.5  | 3                    | 0.4            |
|                                | -032-G32-AP11-04 | ▲     | 32                   | 32 | 125 | 40 | 10.5  | 4                    | 0.7            |
|                                | -025-G25-AP16-02 | ▲     | 25                   | 25 | 115 | 35 | 15.5  | 2                    | 0.4            |
|                                | -032-G32-AP16-03 | ▲     | 32                   | 32 | 125 | 40 | 15.5  | 3                    | 0.7            |
|                                | -040-G32-AP16-04 | ▲     | 40                   | 32 | 130 | 42 | 15.5  | 4                    | 0.8            |
|                                | -050-G32-AP16-05 | ▲     | 50                   | 32 | 135 | 45 | 15.5  | 5                    | 1.0            |
|                                | -063-G32-AP16-06 | ▲     | 63                   | 32 | 135 | 45 | 15.5  | 6                    | 1.4            |

▲Stock available

△Make-to-order

### Spare parts

| Diameter ØD | Inserts | Screw        | Wrench |        |
|-------------|---------|--------------|--------|--------|
|             |         |              |        |        |
| Ø12-Ø32     | AP11    | I60M2.5×6.5T | WT08IP | --     |
| Ø25-Ø63     | AP16    | I60M4×8.4    | --     | WT15IS |





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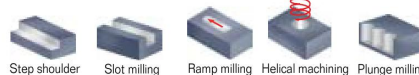
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## Indexable Milling Tools

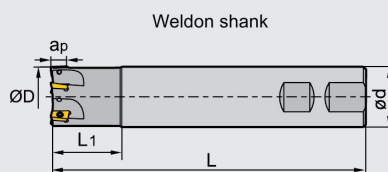
# MILLING

### Square shoulder milling tools

Kr:90°



EMP01 P M K N



#### Specification of tools

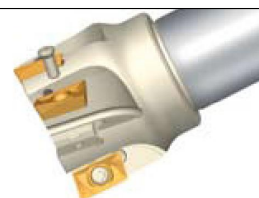
| Type                         |                   | Stock | Basic dimensions(mm) |    |     |                |       | Number of teeth<br>Z | Weight<br>(kg) |
|------------------------------|-------------------|-------|----------------------|----|-----|----------------|-------|----------------------|----------------|
|                              |                   |       | ØD                   | ød | L   | L <sub>1</sub> | apmax |                      |                |
| <b>EMP01</b><br>Weldon shank | -012-XP16-AP11-01 | ▲     | 12                   | 16 | 85  | 25             | 10.5  | 1                    | 0.1            |
|                              | -016-XP16-AP11-02 | ▲     | 16                   | 16 | 90  | 25             | 10.5  | 2                    | 0.1            |
|                              | -020-XP20-AP11-02 | ▲     | 20                   | 20 | 100 | 30             | 10.5  | 2                    | 0.2            |
|                              | -025-XP25-AP11-03 | ▲     | 25                   | 25 | 115 | 35             | 10.5  | 3                    | 0.4            |
|                              | -032-XP32-AP11-04 | ▲     | 32                   | 32 | 125 | 40             | 10.5  | 4                    | 0.7            |
|                              | -025-XP25-AP16-02 | ▲     | 25                   | 25 | 115 | 35             | 15.5  | 2                    | 0.4            |
|                              | -032-XP32-AP16-03 | ▲     | 32                   | 32 | 125 | 40             | 15.5  | 3                    | 0.7            |
|                              | -040-XP32-AP16-04 | ▲     | 40                   | 32 | 130 | 42             | 15.5  | 4                    | 0.8            |
|                              | -050-XP32-AP16-05 | ▲     | 50                   | 32 | 135 | 45             | 15.5  | 5                    | 1.0            |
|                              | -063-XP32-AP16-06 | ▲     | 63                   | 32 | 135 | 45             | 15.5  | 6                    | 1.4            |

▲Stock available

△Make-to-order

#### Spare parts

| Diameter ØD | Inserts | Screw        | Wrench |        |
|-------------|---------|--------------|--------|--------|
|             |         |              |        |        |
| Ø12-Ø32     | AP11    | I60M2.5×6.5T | WT08IP | --     |
| Ø25-Ø63     | AP16    | I60M4×8.4    | --     | WT15IS |



Tools code key B20-B21

Grade selection guide B15-B19

Technical data B168-B173

B  
Indexable  
milling tools

Square shoulder milling tools



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# MILLING

## Indexable Milling Tools

### Case for EMP01



Workpiece material: Cast Steel (HB220)

Cooling system: Dry cutting

Machine: Vertical machining center

Cutting parameters:

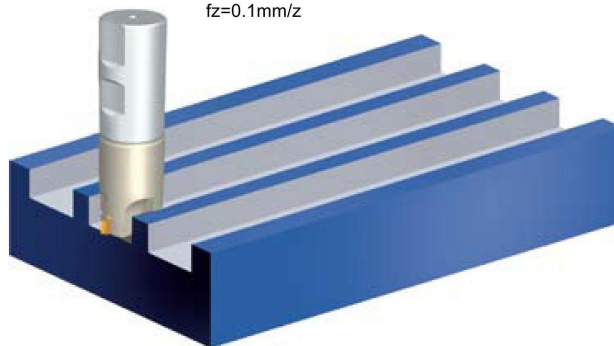
$V_c=180\text{m/min}$

$a_p=3\text{mm}$

$f_z=0.1\text{mm/z}$

■ Insert type/grade: APKT160408-PM/ EY328

■ Tool type: EMP01-040-XP32-AP16-04



**B**

Indexable  
milling tools

Square shoulder milling tools

### ● Abrasion comparison of inserts after milling curved face

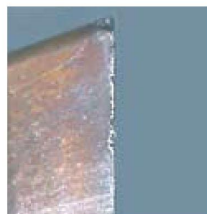
**EJ**

Other company product

15'



25'





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## Indexable Milling Tools

# MILLING

### Square shoulder milling tools

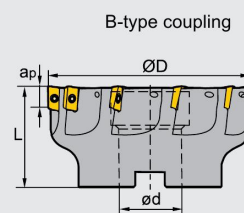
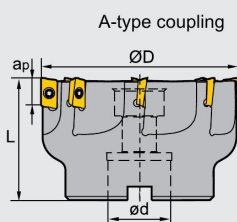
Kr:90°



Face milling

Step shoulder

EMP02 P M K N



#### Specification of tools

| Type  |                  | Stock | Basic dimensions(mm) |    |    |       | Number of<br>teeth<br>Z | Type of<br>coupling | Weight<br>(kg) |
|-------|------------------|-------|----------------------|----|----|-------|-------------------------|---------------------|----------------|
|       |                  |       | ØD                   | ød | L  | apmax |                         |                     |                |
| EMP02 | -050-A22-AP11-06 | ▲     | 50                   | 22 | 40 | 11    | 6                       | A                   | 0.3            |
|       | -063-A22-AP11-08 | ▲     | 63                   | 22 | 40 | 11    | 8                       | A                   | 0.6            |
|       | -080-A27-AP11-08 | ▲     | 80                   | 27 | 50 | 11    | 8                       | A                   | 1.2            |
|       | -100-B32-AP11-10 | ▲     | 100                  | 32 | 50 | 11    | 10                      | B                   | 1.7            |
|       | -050-A22-AP16-05 | ▲     | 50                   | 22 | 40 | 15.5  | 5                       | A                   | 0.3            |
|       | -063-A22-AP16-06 | ▲     | 63                   | 22 | 40 | 15.5  | 6                       | A                   | 0.5            |
|       | -080-A27-AP16-07 | ▲     | 80                   | 27 | 50 | 15.5  | 7                       | A                   | 1.1            |
|       | -100-B32-AP16-08 | ▲     | 100                  | 32 | 50 | 15.5  | 8                       | B                   | 1.6            |
|       | -125-B40-AP16-10 | ▲     | 125                  | 40 | 63 | 15.5  | 10                      | B                   | 3.2            |
|       | -160-B40-AP16-10 | ▲     | 160                  | 40 | 63 | 15.5  | 10                      | B                   | 6.3            |

▲ Stock available

△ Make-to-order

#### Spare parts

| Diameter ØD | Inserts | Screw        | Wrench |
|-------------|---------|--------------|--------|
|             |         |              |        |
| Ø50-Ø100    | AP11    | I60M2.5×6.5T | WT08IS |
| Ø50-Ø160    | AP16    | I60M4×10     | WT15IS |



Tools code key [B20-B21](#)

Grade selection guide [B15-B19](#)

Technical data [B168-B173](#)



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# MILLING

## Indexable Milling Tools

### Square shoulder milling tools

Kr:90°



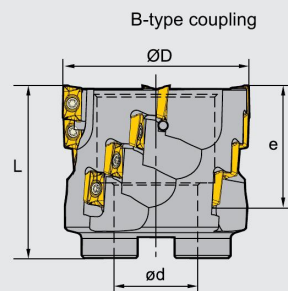
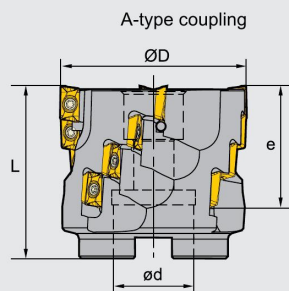
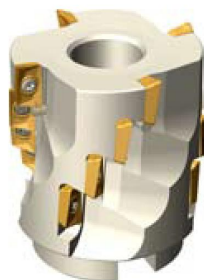
Step shoulder

Slot milling

Face milling

Side milling

EMP03 P M K N



#### Specification of tools

| Type  |                  | Stock | Basic dimensions(mm) |    |    |    | Number of<br>flute<br>z | Number of<br>inserts | Type of<br>coupling | Weight<br>(kg) |
|-------|------------------|-------|----------------------|----|----|----|-------------------------|----------------------|---------------------|----------------|
|       |                  |       | ØD                   | ød | L  | e  |                         |                      |                     |                |
| EMP03 | -050-A22-AP11-04 | ▲     | 50                   | 22 | 58 | 39 | 4                       | 16                   | A                   | 0.5            |
|       | -063-A27-AP11-04 | ▲     | 63                   | 27 | 58 | 39 | 4                       | 16                   | A                   | 0.9            |
|       | -080-B32-AP11-05 | ▲     | 80                   | 32 | 63 | 39 | 5                       | 20                   | B                   | 1.3            |
|       | -100-B40-AP11-06 | ▲     | 100                  | 40 | 63 | 39 | 6                       | 24                   | B                   | 2.0            |

▲ Stock available

△ Make-to-order

B

Indexable milling tools

Square shoulder milling tools

#### Spare parts

| Diameter<br>ØD | Screw        | Wrench |  |
|----------------|--------------|--------|--|
|                |              |        |  |
| Ø50-Ø100       | I60M2.5×6.5T | WT08IS |  |
|                |              |        |  |
|                |              |        |  |



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## Indexable Milling Tools

# MILLING

### Square shoulder milling tools

Kr:90°

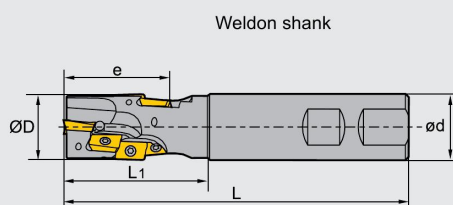


Step shoulder

Slot milling

Side milling

**EMP04** P M K N



#### Specification of tools

| Type                           | Stock | Basic dimensions(mm) |    |     |    |      | Number of flute<br>z | Number of inserts | Weight (kg) |
|--------------------------------|-------|----------------------|----|-----|----|------|----------------------|-------------------|-------------|
|                                |       | ØD                   | ød | L   | L1 | e    |                      |                   |             |
| <b>EMP04</b> -020-XP20-AP11-01 | ▲     | 20                   | 20 | 120 | 45 | 29.4 | 1                    | 3                 | 0.3         |
| -025-XP25-AP11-02              | ▲     | 25                   | 25 | 130 | 55 | 38.9 | 2                    | 8                 | 0.4         |
| -032-XP32-AP11-02              | ▲     | 32                   | 32 | 140 | 65 | 48.5 | 2                    | 10                | 0.7         |
| -040-XP40-AP11-02              | ▲     | 40                   | 40 | 150 | 75 | 58.0 | 2                    | 14                | 1.3         |

▲Stock available

△Make-to-order

#### Spare parts

| Diameter<br>ØD | Screw        | Wrench |  |
|----------------|--------------|--------|--|
|                |              |        |  |
| Ø20-Ø40        | I60M2.5x6.5T | WT081S |  |
|                |              |        |  |
|                |              |        |  |

Tools code key **B20-B21**

Grade selection guide **B15-B19**

Technical data **B168-B173**

**B**  
Indexable  
milling tools

Square shoulder milling tools



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## Indexable Milling Tools

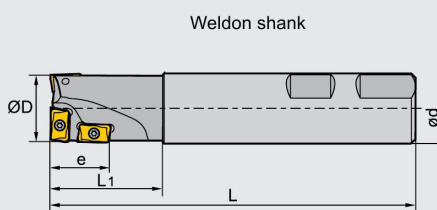
# MILLING

### Square shoulder milling tools

Kr:90°



**EMP05** P M K



#### Specification of tools

| Type                   | Stock | Basic dimensions(mm) |    |    |     |    |    | Number of inserts |        | Weight (kg) |
|------------------------|-------|----------------------|----|----|-----|----|----|-------------------|--------|-------------|
|                        |       | R                    | ØD | ød | L   | L1 | e  | APMT11            | APMT16 |             |
| <b>EMP05</b> -025-XP25 | ▲     |                      | 25 | 25 | 130 | 40 | 20 | 3                 | --     | 0.5         |
| -032-XP32              | ▲     |                      | 32 | 32 | 140 | 50 | 30 | --                | 3      | 0.8         |
| -040-XP32              | ▲     |                      | 40 | 32 | 150 | 60 | 40 | --                | 4      | 1.0         |

▲Stock available

△Make-to-order

#### Spare parts

| Diameter<br>ØD | Inserts | Screw        | Wrench |  |
|----------------|---------|--------------|--------|--|
|                |         |              |        |  |
| Ø25-Ø40        | APMT11  | I60M2.5×6.5T | WT08IP |  |
|                | APMT16  | I60M4×10     | WT15IP |  |

Tools code key **B20-B21**

Grade selection guide **B15-B19**

Technical data **B168-B173**

**B**

Indexable  
milling tools

Square shoulder milling tools



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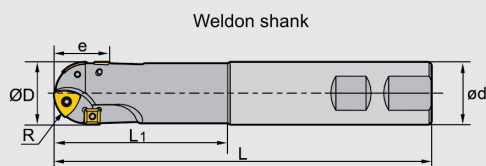
## Indexable Milling Tools

# MILLING

### Profile milling tools



**BMR01** **P** **M** **K**



### Specification of tools

| Type                     | Stock | Basic dimensions(mm) |    |    |    |     |     | Applicable inserts |          |            |          | Weight (kg) |
|--------------------------|-------|----------------------|----|----|----|-----|-----|--------------------|----------|------------|----------|-------------|
|                          |       | R                    | ØD | e  | ød | L   | L1  | Type               | Quantity | Type       | Quantity |             |
| <b>BMR01</b> -020-XP20-S | ▲     | 10                   | 20 | 20 | 20 | 125 | 50  | ZDET08T2CYR10      | 2        | SPMT060304 | 2        | 0.3         |
| -020-XP20-M              | ▲     | 10                   | 20 | 20 | 20 | 150 | 75  | ZDET08T2CYR10      | 2        | SPMT060304 | 2        | 0.3         |
| -020-XP20-L              | ▲     | 10                   | 20 | 20 | 20 | 200 | 100 | ZDET08T2CYR10      | 2        | SPMT060304 | 2        | 0.4         |
| -025-XP25-S              | ▲     | 12.5                 | 25 | 23 | 25 | 150 | 70  | ZDET1103CYR12.5    | 2        | SPMT060304 | 2        | 0.5         |
| -025-XP25-M              | ▲     | 12.5                 | 25 | 23 | 25 | 175 | 95  | ZDET1103CYR12.5    | 2        | SPMT060304 | 2        | 0.6         |
| -025-XP25-L              | ▲     | 12.5                 | 25 | 23 | 25 | 200 | 100 | ZDET1103CYR12.5    | 2        | SPMT060304 | 2        | 0.7         |
| -032-XP32-S              | ▲     | 16                   | 32 | 31 | 32 | 175 | 85  | ZDET13T3CYR16      | 2        | SDMT090308 | 2        | 0.9         |
| -032-XP32-M              | ▲     | 16                   | 32 | 31 | 32 | 200 | 100 | ZDET13T3CYR16      | 2        | SDMT090308 | 2        | 1.1         |
| -032-XP32-L              | ▲     | 16                   | 32 | 31 | 32 | 250 | 150 | ZDET13T3CYR16      | 2        | SDMT090308 | 2        | 1.4         |
| -040-XP40-S              | ▲     | 20                   | 40 | 41 | 40 | 175 | 85  | ZPNT2204CY(R20)    | 3        | SPMT120408 | 2        | 1.4         |
| -040-XP40-M              | ▲     | 20                   | 40 | 41 | 40 | 200 | 100 | ZPNT2204CY(R20)    | 3        | SPMT120408 | 2        | 1.7         |
| -040-XP40-L              | ▲     | 20                   | 40 | 41 | 40 | 250 | 150 | ZPNT2204CY(R20)    | 3        | SPMT120408 | 2        | 2.1         |
| -050-XP40-S              | ▲     | 25                   | 50 | 45 | 40 | 200 | 100 | ZPNT2204CY(R25)    | 3        | SPMT120408 | 2        | 1.8         |
| -050-XP40-M              | ▲     | 25                   | 50 | 45 | 40 | 300 | 100 | ZPNT2204CY(R25)    | 3        | SPMT120408 | 2        | 2.8         |
| -063-XP40-S              | ▲     | 31.5                 | 63 | 52 | 40 | 200 | 100 | ZPNT2204CY(R31)    | 4        | SPMT120408 | 2        | 3.0         |
| -063-XP40-M              | ▲     | 31.5                 | 63 | 52 | 40 | 300 | 100 | ZPNT2204CY(R31)    | 4        | SPMT120408 | 2        | 3.5         |

▲ Stock available △ Make-to-order

### Spare parts

| Diameter<br>ØD | Screw       | Wrench |        |
|----------------|-------------|--------|--------|
|                |             |        |        |
| Ø20-Ø25        | I43M2.5×5.7 | WT07IP | --     |
| Ø32            | I43M4×8     | --     | WT15IS |
| Ø40-Ø63        | I43M5×11    | --     | WT20IS |



Tools code key **B20-B21**

Grade selection guide **B15-B19**

Technical data **B168-B173**



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## Indexable Milling Tools

# MILLING

### Profile milling tools



**BMR02** P M K



#### Specification of tools

| Type                    | Stock | Basic dimensions(mm) |    |    |     |                | Weight (kg) |
|-------------------------|-------|----------------------|----|----|-----|----------------|-------------|
|                         |       | R                    | ØD | ød | L   | L <sub>1</sub> |             |
| <b>BMR02</b> -012-G16-S | ▲     | 6                    | 12 | 16 | 110 | 40             | 0.1         |
| -012-G16-M              | ▲     | 6                    | 12 | 16 | 130 | 50             | 0.2         |
| -012-G16-L              | ▲     | 6                    | 12 | 16 | 160 | 50             | 0.2         |
| -016-G20-S              | ▲     | 8                    | 16 | 20 | 140 | 45             | 0.3         |
| -016-G20-M              | ▲     | 8                    | 16 | 20 | 170 | 65             | 0.3         |
| -016-G20-L              | ▲     | 8                    | 16 | 20 | 200 | 65             | 0.4         |
| -020-G25-S              | ▲     | 10                   | 20 | 25 | 160 | 60             | 0.5         |
| -020-G25-M              | ▲     | 10                   | 20 | 25 | 200 | 80             | 0.6         |
| -020-G25-L              | ▲     | 10                   | 20 | 25 | 240 | 80             | 0.8         |

▲Stock available

△Make-to-order

B  
Indexable  
milling tools  
Profile milling tools

#### Spare parts

| Diameter<br>ØD | Screw        | Wrench |  |
|----------------|--------------|--------|--|
|                |              |        |  |
| Ø12            | I90M4×09TT   | WT10S  |  |
| Ø16            | I90M5×11TT   | WT15S  |  |
| Ø20            | I90M5×13.5TT | WT15S  |  |

Tools code key [B20-B21](#)

Grade selection guide [B15-B19](#)

Technical data [B168-B173](#)



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## Indexable Milling Tools

# MILLING

### Profile milling tools



**BMR03 P M K**

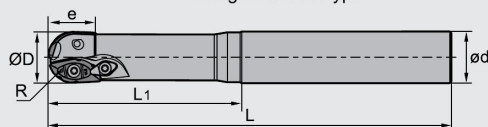
A type(Ø30-Ø40)



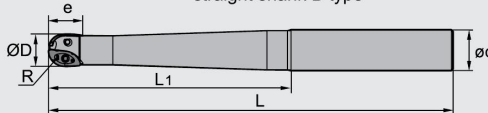
B type(Ø16-Ø25)



straight shank A type



straight shank B type



### Specification of tools

| Type                    | Stock | Basic dimensions(mm) |    |    |     |     |    | Number of teeth Z | Weight (kg) | Type | Clamp  |
|-------------------------|-------|----------------------|----|----|-----|-----|----|-------------------|-------------|------|--------|
|                         |       | R                    | ØD | ød | L   | L1  | e  |                   |             |      |        |
| <b>BMR03</b> -016-G20-S | ▲     | 8                    | 16 | 20 | 150 | 70  | 16 | 2                 | 0.3         | B    | WD-208 |
| -016-G20-M              | ▲     | 8                    | 16 | 20 | 180 | 80  | 16 | 2                 | 0.4         | B    |        |
| -020-G25-S              | ▲     | 10                   | 20 | 25 | 180 | 80  | 20 | 2                 | 0.5         | B    |        |
| -020-G25-M              | ▲     | 10                   | 20 | 25 | 200 | 100 | 20 | 2                 | 0.6         | B    |        |
| -020-G25-L              | ▲     | 10                   | 20 | 25 | 250 | 150 | 20 | 2                 | 0.7         | B    |        |
| -020-G25-XL             | ▲     | 10                   | 20 | 25 | 300 | 110 | 20 | 2                 | 1.0         | B    |        |
| -025-G25-S              | ▲     | 12.5                 | 25 | 25 | 180 | 80  | 25 | 2                 | 0.6         | B    |        |
| -025-G25-M              | ▲     | 12.5                 | 25 | 25 | 200 | 100 | 25 | 2                 | 0.7         | B    |        |
| -025-G25-L              | ▲     | 12.5                 | 25 | 25 | 250 | 110 | 25 | 2                 | 0.8         | B    |        |
| -025-G25-XL             | ▲     | 12.5                 | 25 | 25 | 300 | 120 | 25 | 2                 | 1.0         | B    |        |
| -030-G32-S              | △     | 15                   | 30 | 32 | 200 | 120 | 30 | 2                 | 1.0         | A    | WD-208 |
| -030-G32-M              | ▲     | 15                   | 30 | 32 | 250 | 150 | 30 | 2                 | 1.3         | A    |        |
| -030-G32-L              | ▲     | 15                   | 30 | 32 | 300 | 200 | 30 | 2                 | 1.6         | A    |        |
| -030-G32-XL             | △     | 15                   | 30 | 32 | 350 | 200 | 30 | 2                 | 1.9         | A    |        |
| -032-G32-S              | ▲     | 16                   | 32 | 32 | 200 | 120 | 32 | 2                 | 1.1         | A    |        |
| -032-G32-M              | ▲     | 16                   | 32 | 32 | 250 | 150 | 32 | 2                 | 1.4         | A    |        |
| -032-G32-L              | ▲     | 16                   | 32 | 32 | 300 | 200 | 32 | 2                 | 1.6         | A    |        |
| -032-G32-XL             | △     | 16                   | 32 | 32 | 350 | 200 | 32 | 2                 | 2.0         | A    |        |
| -040-G40-S              | △     | 20                   | 40 | 40 | 200 | 120 | 40 | 2                 | 1.6         | A    | CBH5R1 |
| -040-G40-M              | ▲     | 20                   | 40 | 40 | 250 | 150 | 40 | 2                 | 2.0         | A    |        |
| -040-G40-L              | ▲     | 20                   | 40 | 40 | 300 | 200 | 40 | 2                 | 2.5         | A    |        |
| -040-G40-XL             | △     | 20                   | 40 | 40 | 350 | 200 | 40 | 2                 | 3.0         | A    |        |

▲Stock available

△Make-to-order

Tools code key **B20-B21**

Grade selection guide **B15-B19**

Technical data **B168-B173**

**B**  
Indexable  
milling tools  
Profile milling tools



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# MILLING

## Indexable Milling Tools

### Profile milling tools



Profile

Side milling(R)

Slot milling

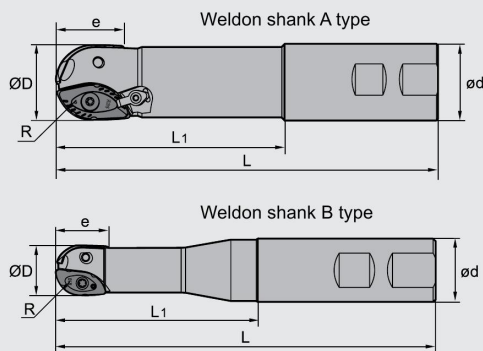
Helical machining

**BMR03 P M K**

A type(Ø30-Ø50)



B type(Ø16-Ø25)



### Specification of tools

| Type                     | Stock | Basic dimensions(mm) |    |    |     |     |    | Number of teeth Z | Weight (kg) | Type | Clamp  |
|--------------------------|-------|----------------------|----|----|-----|-----|----|-------------------|-------------|------|--------|
|                          |       | R                    | ØD | ød | L   | L1  | e  |                   |             |      |        |
| <b>BMR03</b> -016-XP20-M | ▲     | 8                    | 16 | 20 | 111 | 60  | 16 | 2                 | 0.2         | B    | WD-208 |
| -020-XP25-M              | ▲     | 10                   | 20 | 25 | 127 | 70  | 20 | 2                 | 0.3         | B    |        |
| -020-XP25-L              | ▲     | 10                   | 20 | 25 | 150 | 80  | 20 | 2                 | 0.4         | B    |        |
| -025-XP25-M              | ▲     | 12.5                 | 25 | 25 | 137 | 80  | 25 | 2                 | 0.4         | B    |        |
| -025-XP25-L              | ▲     | 12.5                 | 25 | 25 | 200 | 100 | 25 | 2                 | 0.6         | B    |        |
| -030-XP32-M              | ▲     | 15                   | 30 | 32 | 161 | 100 | 30 | 2                 | 0.8         | A    | WD-208 |
| -030-XP32-L              | ▲     | 15                   | 30 | 32 | 250 | 150 | 30 | 2                 | 1.3         | A    |        |
| -032-XP32-M              | ▲     | 16                   | 32 | 32 | 161 | 100 | 32 | 2                 | 0.8         | A    |        |
| -032-XP32-L              | ▲     | 16                   | 32 | 32 | 250 | 120 | 32 | 2                 | 1.3         | A    |        |
| -040-XP40-M              | ▲     | 20                   | 40 | 40 | 175 | 100 | 40 | 2                 | 1.3         | A    | CBH5R1 |
| -040-XP40-L              | ▲     | 20                   | 40 | 40 | 250 | 120 | 40 | 2                 | 2.0         | A    |        |
| -050-XP50-M              | ▲     | 25                   | 50 | 50 | 200 | 100 | 50 | 2                 | 2.5         | A    |        |
| -050-XP50-L              | ▲     | 25                   | 50 | 50 | 250 | 150 | 50 | 2                 | 3.1         | A    |        |

▲Stock available

△Make-to-order

B  
Indexable  
milling tools  
Profile milling tools



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## Indexable Milling Tools

# MILLING

### Profile milling tools



Profile

Side milling(R)

Slot milling

Helical machining

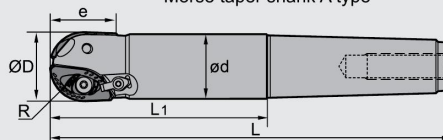
**BMR03** P M K

A type(Ø30-Ø50)

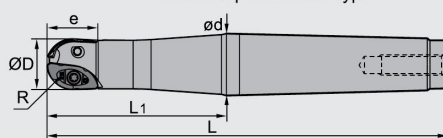


B type(Ø20-Ø25)

Morse taper shank A type



Morse taper shank B type



### Specification of tools

| Type                    | Stock | Basic dimensions(mm) |    |      |     |     |    | Number of teeth Z | Weight (kg) | Type | Clamp  |
|-------------------------|-------|----------------------|----|------|-----|-----|----|-------------------|-------------|------|--------|
|                         |       | R                    | ØD | ød   | L   | L1  | e  |                   |             |      |        |
| <b>BMR03</b> -020-MT3-M | ▲     | 10                   | 20 | 18.7 | 156 | 70  | 20 | 2                 | 0.4         | B    | WD-208 |
| -020-MT3-L              | △     | 10                   | 20 | 18.7 | 186 | 100 | 20 | 2                 | 0.4         | B    |        |
| -025-MT3-M              | ▲     | 12.5                 | 25 | 23.5 | 156 | 70  | 25 | 2                 | 0.4         | B    |        |
| -025-MT3-L              | △     | 12.5                 | 25 | 23.5 | 186 | 100 | 25 | 2                 | 0.4         | B    |        |
| -030-MT4-M              | ▲     | 15                   | 30 | 28.2 | 189 | 70  | 30 | 2                 | 0.8         | A    | WD-208 |
| -030-MT4-L              | △     | 15                   | 30 | 28.2 | 229 | 120 | 30 | 2                 | 1.0         | A    |        |
| -032-MT4-M              | ▲     | 16                   | 32 | 29.2 | 179 | 70  | 32 | 2                 | 0.9         | A    |        |
| -032-MT4-L              | △     | 16                   | 32 | 29.2 | 209 | 100 | 32 | 2                 | 0.9         | A    |        |
| -040-MT4-M              | ▲     | 20                   | 40 | 36.9 | 199 | 100 | 40 | 2                 | 1.0         | A    | CBH5R1 |
| -040-MT5-L              | ▲     | 20                   | 40 | 36.9 | 226 | 90  | 40 | 2                 | 1.8         | A    |        |
| -040-MT5-XL             | ▲     | 20                   | 40 | 36.9 | 256 | 120 | 40 | 2                 | 2.0         | A    |        |
| -050-MT5-M              | ▲     | 25                   | 50 | 46.8 | 236 | 100 | 50 | 2                 | 2.2         | A    |        |
| -050-MT5-L              | ▲     | 25                   | 50 | 46.8 | 286 | 150 | 50 | 2                 | 2.9         | A    |        |

▲ Stock available

△ Make-to-order

Tools code key B20-B21

Grade selection guide B15-B19

Technical data B168-B173



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# MILLING

## Indexable Milling Tools

### Profile milling tools



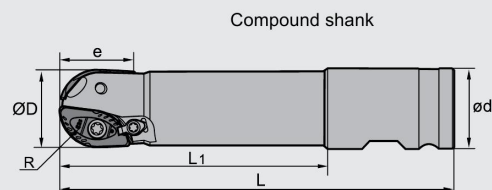
Profile

Side milling(R)

Slot milling

Helical machining

**BMR03** **P** **M** **K**



### Specification of tools

| Type  |             | Stock | Basic dimensions(mm) |    |      |     |                |    | Number of teeth<br>Z | Weight<br>(kg) | Clamp  |
|-------|-------------|-------|----------------------|----|------|-----|----------------|----|----------------------|----------------|--------|
|       |             |       | R                    | ØD | ød   | L   | L <sub>1</sub> | e  |                      |                |        |
| BMR03 | -040-XPX-M  | ▲     | 20                   | 40 | 50.8 | 250 | 170            | 40 | 2                    | 1.3            | CBH5R1 |
|       | -040-XPX-L  | ▲     | 20                   | 40 | 50.8 | 300 | 220            | 40 | 2                    | 3.1            |        |
|       | -040-XPX-XL | ▲     | 20                   | 40 | 50.8 | 350 | 270            | 40 | 2                    | 3.5            |        |
|       | -050-XPX-M  | ▲     | 25                   | 50 | 50.8 | 250 | 170            | 50 | 2                    | 3.1            |        |
|       | -050-XPX-L  | ▲     | 25                   | 50 | 50.8 | 300 | 200            | 50 | 2                    | 3.8            |        |
|       | -050-XPX-XL | ▲     | 25                   | 50 | 50.8 | 350 | 270            | 50 | 2                    | 4.4            |        |

▲Stock available

△Make-to-order

B

Indexable milling tools

Profile milling tools

### Spare parts

| Diameter<br>ØD | Clamp                                                                               | Screw                                                                               | Wrench                                                                              |                                                                                      |
|----------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|                |  |  |  |  |
| Φ16            | --                                                                                  | I60M2.5×6.5                                                                         | --                                                                                  | WT07P                                                                                |
| Φ20            | --                                                                                  | I60M3.5×08TT                                                                        |                                                                                     | WT10IP                                                                               |
| Φ25            | --                                                                                  | I60M4×10                                                                            |                                                                                     | WT15S                                                                                |
| Φ30            | WD-208                                                                              | I60M5×13                                                                            | WT20IT                                                                              | --                                                                                   |
| Φ32            | WD-208                                                                              | I60M5×13                                                                            |                                                                                     |                                                                                      |
| Φ40            | CBH5R1                                                                              | I43M6×16                                                                            | WT25IT                                                                              |                                                                                      |
| Φ50            | CBH5R1                                                                              | I43M8×21                                                                            | WT25IT                                                                              |                                                                                      |
|                |                                                                                     | I43M6×16                                                                            | WT30IT                                                                              |                                                                                      |





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## Indexable Milling Tools

# MILLING

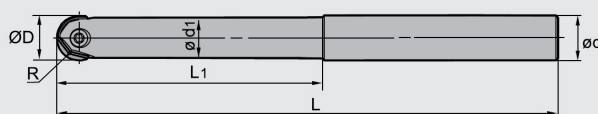
### Profile milling tools



**BMR04** P M K



Straight shank with straight neck



### Specification of tools

| Type  |            | Stock | Basic dimensions(mm) |    |    |                 |                |     | Weight (kg) |
|-------|------------|-------|----------------------|----|----|-----------------|----------------|-----|-------------|
|       |            |       | R                    | ØD | ød | ød <sub>1</sub> | L <sub>1</sub> | L   |             |
| BMR04 | -012-G12-M | ▲     | 6                    | 12 | 12 | 11              | 35             | 125 | 0.1         |
|       | -012-G12-L | △     | 6                    | 12 | 12 | 11              | 45             | 150 | 0.1         |
|       | -016-G16-M | ▲     | 8                    | 16 | 16 | 14              | 40             | 150 | 0.2         |
|       | -016-G16-L | △     | 8                    | 16 | 16 | 14              | 55             | 180 | 0.3         |
|       | -020-G20-M | ▲     | 10                   | 20 | 20 | 18              | 65             | 180 | 0.4         |
|       | -020-G20-L | △     | 10                   | 20 | 20 | 18              | 100            | 250 | 0.6         |
|       | -025-G25-M | ▲     | 12.5                 | 25 | 25 | 23              | 70             | 200 | 0.7         |
|       | -025-G25-L | △     | 12.5                 | 25 | 25 | 23              | 100            | 250 | 0.9         |
|       | -030-G32-M | ▲     | 15                   | 30 | 32 | 27              | 130            | 250 | 1.2         |
|       | -030-G32-L | △     | 15                   | 30 | 32 | 27              | 150            | 300 | 1.5         |
|       | -032-G32-M | ▲     | 16                   | 32 | 32 | 29              | 80             | 250 | 1.4         |
|       | -032-G32-L | △     | 16                   | 32 | 32 | 29              | 109            | 300 | 1.7         |

▲ Stock available △ Make-to-order

**B**  
Indexable  
milling tools  
Profile milling tools

Tools code key [B20-B21](#)

Grade selection guide [B15-B19](#)

Technical data [B168-B173](#)



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# MILLING

## Indexable Milling Tools

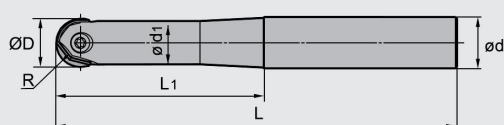
### Profile milling tools



**BMR04** P M K



Straight shank with taper neck



### Specification of tools

| Type                    | Stock | Basic dimensions(mm) |    |    |     |     |     | Weight (kg) |
|-------------------------|-------|----------------------|----|----|-----|-----|-----|-------------|
|                         |       | R                    | ØD | ød | ød1 | L1  | L   |             |
| <b>BMR04</b> -012-G16-M | ▲     | 6                    | 12 | 16 | 11  | 50  | 125 | 0.2         |
| -012-G16-L              | △     | 6                    | 12 | 16 | 11  | 60  | 150 | 0.2         |
| -016-G20-M              | ▲     | 8                    | 16 | 20 | 14  | 60  | 150 | 0.3         |
| -016-G20-L              | △     | 8                    | 16 | 20 | 14  | 80  | 180 | 0.3         |
| -020-G25-M              | ▲     | 10                   | 20 | 25 | 18  | 75  | 180 | 0.6         |
| -020-G25-L              | △     | 10                   | 20 | 25 | 18  | 85  | 200 | 0.6         |
| -025-G32-M              | ▲     | 12.5                 | 25 | 32 | 23  | 90  | 200 | 1.0         |
| -025-G32-L              | △     | 12.5                 | 25 | 32 | 23  | 110 | 250 | 1.3         |
| -030-G40-M              | ▲     | 15                   | 30 | 40 | 27  | 110 | 250 | 2.0         |
| -030-G40-L              | △     | 15                   | 30 | 40 | 27  | 125 | 300 | 2.4         |
| -032-G40-M              | ▲     | 16                   | 32 | 40 | 29  | 110 | 250 | 2.0         |
| -032-G40-L              | △     | 16                   | 32 | 40 | 29  | 125 | 300 | 2.4         |

▲ Stock available △ Make-to-order

B

Indexable milling tools

Profile milling tools



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## Indexable Milling Tools

# MILLING

### ■ Spare parts

| Diameter | Screw                                                                             | Wrench                                                                            |                                                                                   |
|----------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
|          |  |  |  |
| Ø12      | I90M4×10TT                                                                        | WT15P                                                                             | --                                                                                |
| Ø16      | I90M5×11TT                                                                        | WT20P                                                                             | --                                                                                |
| Ø20      | I90M5×13.5TT                                                                      | WT20P                                                                             | --                                                                                |
| Ø25      | I70M6×20TT                                                                        | WT20P                                                                             | --                                                                                |
| Ø30      | I70M8×25TT                                                                        | --                                                                                | WT30T                                                                             |
| Ø32      | I70M8×25TT                                                                        | --                                                                                | WT30T                                                                             |



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