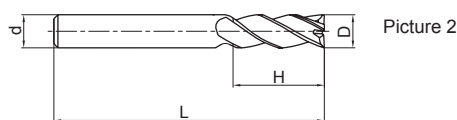
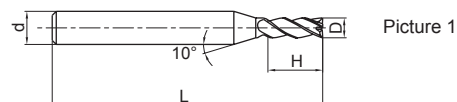
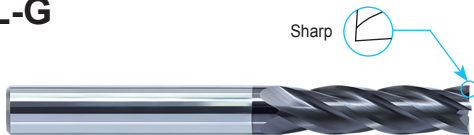


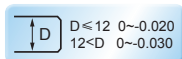
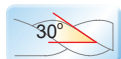
### 4-flute flattened end mills with straight shank and long cutting edge



#### PM-4FL-G



● PM-4F-G series with long cutting edge.



| Type           | Basic dimension(mm) |    |    |     | Number of teeth Z | Geometry  | Stock |
|----------------|---------------------|----|----|-----|-------------------|-----------|-------|
|                | D                   | d  | H  | L   |                   |           |       |
| PM-4FL-D3.0-G  | 3.0                 | 6  | 12 | 75  | 4                 | Picture 1 | ○     |
| PM-4FL-D4.0-G  | 4.0                 | 6  | 15 | 75  | 4                 | Picture 1 | ○     |
| PM-4FL-D5.0-G  | 5.0                 | 6  | 20 | 75  | 4                 | Picture 1 | ○     |
| PM-4FL-D6.0-G  | 6.0                 | 6  | 20 | 75  | 4                 | Picture 2 | ○     |
| PM-4FL-D8.0-G  | 8.0                 | 8  | 25 | 100 | 4                 | Picture 2 | ○     |
| PM-4FL-D10.0-G | 10.0                | 10 | 30 | 100 | 4                 | Picture 2 | ○     |
| PM-4FL-D12.0-G | 12.0                | 12 | 35 | 100 | 4                 | Picture 2 | ○     |
| PM-4FL-D14.0-G | 14.0                | 14 | 40 | 100 | 4                 | Picture 2 | ○     |
| PM-4FL-D16.0-G | 16.0                | 16 | 50 | 150 | 4                 | Picture 2 | ○     |
| PM-4FL-D20.0-G | 20.0                | 20 | 55 | 150 | 4                 | Picture 2 | ○     |

● Stock available ○ Make-to-order

Indexable milling tools

Solid carbide end mills

PM series

### ➤ Applicable workpiece material table ○ Very suitable ○ Suitable

| Workpiece material |             |                                    |        |        |        |                 |                              |              |                |                |                      |
|--------------------|-------------|------------------------------------|--------|--------|--------|-----------------|------------------------------|--------------|----------------|----------------|----------------------|
| Carbon steel       | Alloy steel | Pre-hardened steel, Hardened steel |        |        |        | Stainless steel | Cast iron, Nodular cast iron | Copper alloy | Aluminum alloy | Titanium alloy | Heat resistant alloy |
|                    |             | ~40HRC                             | ~50HRC | ~55HRC | ~68HRC |                 |                              |              |                |                |                      |
| ○                  | ○           | ○                                  | ○      | ○      |        | ○               | ○                            |              |                | ○              | ○                    |

Code key

B258

Graphics category and identification

B259

Cutting parameters

B481-B482

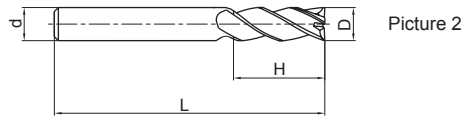
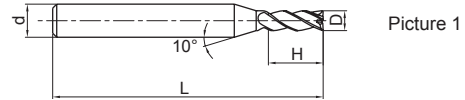
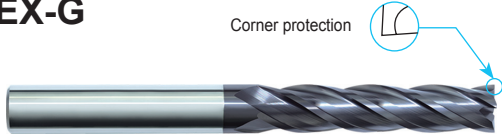
Non-standard customization

B570-B571

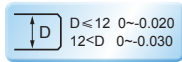
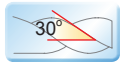
4-flute flattened end mills with straight shank and extra long cutting edge



PM-4EX-G



- Extra long cutting edge, for deep side wall machining.



| Type           | Basic dimension(mm) |    |    |     | Number of teeth Z | Geometry  | Stock |
|----------------|---------------------|----|----|-----|-------------------|-----------|-------|
|                | D                   | d  | H  | L   |                   |           |       |
| PM-4EX-D3.0-G  | 3.0                 | 6  | 20 | 75  | 4                 | Picture 1 | ○     |
| PM-4EX-D4.0-G  | 4.0                 | 6  | 25 | 75  | 4                 | Picture 1 | ○     |
| PM-4EX-D5.0-G  | 5.0                 | 6  | 30 | 75  | 4                 | Picture 1 | ○     |
| PM-4EX-D6.0-G  | 6.0                 | 6  | 30 | 75  | 4                 | Picture 2 | ○     |
| PM-4EX-D8.0-G  | 8.0                 | 8  | 40 | 100 | 4                 | Picture 2 | ○     |
| PM-4EX-D10.0-G | 10.0                | 10 | 50 | 110 | 4                 | Picture 2 | ○     |
| PM-4EX-D12.0-G | 12.0                | 12 | 50 | 110 | 4                 | Picture 2 | ○     |
| PM-4EX-D16.0-G | 16.0                | 16 | 70 | 150 | 4                 | Picture 2 | ○     |
| PM-4EX-D20.0-G | 20.0                | 20 | 75 | 150 | 4                 | Picture 2 | ○     |

● Stock available ○ Make-to-order

Indexable milling tools  
Solid carbide end mills  
PM series

Applicable workpiece material table ● Very suitable ○ Suitable

| Workpiece material |             |                                   |        |        |        |                 |                              |              |                |                |                      |
|--------------------|-------------|-----------------------------------|--------|--------|--------|-----------------|------------------------------|--------------|----------------|----------------|----------------------|
| Carbon steel       | Alloy steel | Pre-hardened steel、Hardened steel |        |        |        | Stainless steel | Cast iron, Nodular cast iron | Copper alloy | Aluminum alloy | Titanium alloy | Heat resistant alloy |
|                    |             | ~40HRC                            | ~50HRC | ~55HRC | ~68HRC |                 |                              |              |                |                |                      |
| ○                  | ○           | ○                                 | ○      | ○      | ○      | ○               |                              |              | ○              | ○              |                      |

