



PCD MILLING CUTTERS

PCD Tipped End Mill
PCD Tipped Ball-Nose End Mill
PCD Solid Nib End Mill
PCD Full Edge Helix Flutes End Mill
PCD Wood Working Milling Cutter
PCD Face Milling Cutter
Customizable PCD Milling Cutter

| | |
|-------------------------------------|-----------|
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| PCD Solid Nib End Mill | C17 |
| PCD Full Edge Helix Flutes End Mill | C18 |
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Overview

PCD milling cutters are highly productive tools with long tool life and high efficiency. They are ideal for cutting non-ferrous metals and non-metallic materials such as CFRP, GFRP, Glare, Copper, Brass, and Graphite. Sundi offers a range of PCD milling tools, including tipped-end mills, ball-nose mills, face mills with HSK/BT bodies, helical milling cutters, and micro-diameter tools, suitable for various applications and industries.

Sundi provides the right solution for your needs with its PCD milling tools, from solid top tools with a 1mm diameter to replaceable systems with a 300mm diameter. No matter if you need a small tool for intricate work or a large one for efficient cutting, Sundi has you covered.



Features & Advantages Of PCD Milling Cutters

- Improved tool life and surface finish compared to carbide.
- Optimal performance with higher cutting speeds and feed rates.
- Ideal for machining non-ferrous metals and non-metallic materials.
- Reduced tool changes for cost savings and improved efficiency.

Capacity And Main Devices

We use top-of-the-line equipment from world-renowned brands such as :

WALTER EDM device,

COBORN CNC Grinders,

Vollmer Wire Erosion Machines

ZOLLER measure machine

Schiitte grinding device

With these devices, we can deliver complex jobs with unparalleled quality and performance.

Generally, Our cutting-edge technology ensures a surface roughness of $RA \leq 0.4$ and a tolerance of $\leq \pm 0.002\text{mm}$.



PCD Milling Tools With HSK / BT Shank

Our HSK/BT body tools feature 5 to 6+ blades, customizable for your needs. Ideal for machining aluminum in the automotive industry, these tools excel in face, hole, shape milling, and more.



PCD Face Milling Cutter

For the best surfaces, we suggest choosing our face milling cutters with replaceable PCD cartridges. They are widely used in the automotive industry for machining aluminum, these cutters deliver outstanding results. The reliable milling insert tooling system has a proven track record in various applications.



PCD End Mill And Ball Nose End Mill

PCD-tipped tools are the most commonly used for cutting non-ferrous metals and non-metallic materials like CFRP, GFRP, Glare, Copper, Brass, and Graphite. These tools are known for their exceptional performance and long working life.



PCD Solid-Nib End Mill



Using a cylinder solid PCD material braze on the top of the tool body, then we will machine the tool body and the PCD area at one time, this kind of machining process makes them better consistent.

Unlike the traditional brazed process, the PCD solid-Nib end mill can reach a very small diameter of just 1mm. With the helix flute or not based on the customer's request.

PCD Wood Working Milling Cutter

High-performance helical cutters from Sundi offer efficient feeds, deep cuts, and high metal removal rates for contouring and profiling applications, making them a great choice for woodworking production.



Customizable PCD Milling Cutter

We are offering all kinds of PCD milling tools based on the customer's special request, such as helix flutes, very small diameters, long PCD blades, or with an internal coolant channel. We follow the customer's design or design by Sundi based on actual applications.



Rule of Order No.

M - TP E - S 2 S - 010

1

2

3

4

5

6

7

1

Product Series

M

PCD Milling Cutter

3*The Form of
Cutting blade**E**

End mill cutter

B

Ball nose milling cutter

Notice: This form only represent the pcd tipped milling cutter

2The Form of
PCD Milling Cutter**TP**End mill with braze PCD
blade**SN**

The solid Nib End Mill

SHBPCD Full Edge Helix Flutes
End Mill**HE**PCD Wood Working Milling
Cutter**SF**

Face Milling Cutter

Notice: This form only represent the pcd tipped milling cutter

4*The Form of
Cutting blade**S**

PCD With short blade 5~6mm

SOPCD short blade and one blade
over center**L**







PCD with long blade 10~15mm

LOPCD long blade and one blade
over center

Notice: This form only represent the pcd tipped milling cutter

M - TP E - S 2 S - 010

1 2 3 4 5 6 7

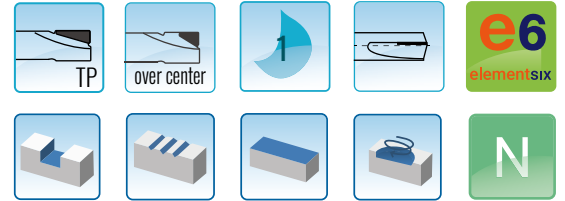
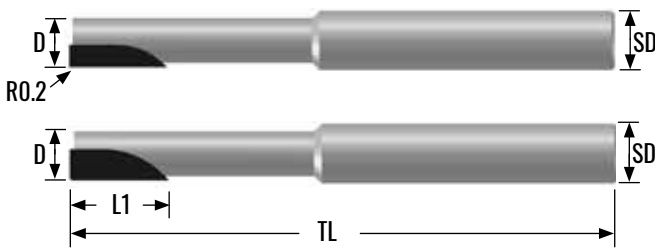
| 5* | 6* | 7* |
|--|---|--|
| Number of Flutes | Angle of Flutes | Diameter of Cutter |
| <p>1 </p> <p>2 </p> <p>4 </p> | <p>N  Axial negative angle</p> <p>P  Axial positive angle</p> <p>S  Axial straight angle</p> | <p style="font-size: 2em; font-weight: bold;">010 10mm</p> <p><small>Notice: This form only represent the pcd tipped milling cutter</small></p> |
| <small>Notice: This form only represent the pcd tipped milling cutter for other form can custom-made.</small> | <small>Notice: This form only represent the pcd tipped milling cutter</small> | |

Recommended Cutting Parameters

| Material | Cutting Speed VC(m/min) | Feed Rate (fz/mm/U) | Coolant |
|------------------------------|----------------------------|--|-------------------|
| | | ∅ 4~6 ∅ 7~11 ∅ 12~20 | |
| Al-Alloys Si < 1% | 150 - 6000 | 0.02 - 0.15 0.02 - 0.20 0.04 - 0.3 | Emulsion,MQL |
| Al-Alloys Si < 12% | 150 - 4000 | 0.02 - 0.15 0.02 - 0.20 0.04 - 0.3 | Emulsion,MQL |
| Al-Alloys Si > 12% | 150 - 2000 | 0.02 - 0.15 0.02 - 0.20 0.04 - 0.3 | Emulsion,MQL |
| Magnesium Alloys | 150 - 6000 | 0.02 - 0.15 0.02 - 0.20 0.04 - 0.3 | Emulsion,MQL |
| Copper Alloys | 150 - 5000 | 0.02 - 0.15 0.02 - 0.20 0.04 - 0.3 | Emulsion,MQL |
| Brass Alloys | 150 - 4000 | 0.02 - 0.15 0.02 - 0.20 0.04 - 0.3 | Emulsion,MQL |
| Ti-Alloys | 50 - 400 | 0.02 - 0.15 0.02 - 0.20 0.04 - 0.3 | Emulsion,MQL |
| Graphite | 150 - 3000 | 0.02 - 0.15 0.02 - 0.20 0.04 - 0.3 | Emulsion,MQL |
| GFRP glass fibre composites | 150 - 3000 | 0.02 - 0.15 0.02 - 0.20 0.04 - 0.3 | Dry, Air pressure |
| CFRP carbon fibre composites | 150 - 4000 | 0.02 - 0.15 0.02 - 0.20 0.04 - 0.3 | Dry, Air pressure |
| PTFE | 150 - 2000 | 0.02 - 0.15 0.02 - 0.20 0.04 - 0.3 | Dry, Air pressure |
| Acrylic | 150 - 1800 | 0.02 - 0.15 0.02 - 0.20 0.04 - 0.3 | Emulsion,MQL |
| Thermoplastics,Duroplastics | 150 - 1800 | 0.02 - 0.15 0.02 - 0.20 0.04 - 0.3 | Emulsion,MQL |

TPE-S/SO1S

PCD End Mill Single Flute



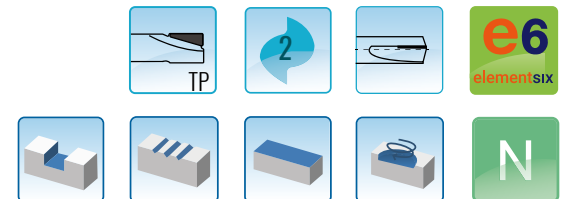
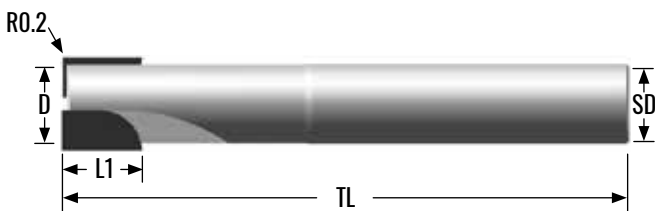
| Order No. | D [mm] | SD [mm] | L1 [mm] | TL [mm] | Z FLUTES |
|------------------|--------|---------|---------|---------|----------|
| M-TPE-S1S-003 | 3 | 4 | 4 | 60 | 1 |
| M-TPE-S1S-004 | 3 | 8 | 8 | 60 | 1 |
| M-TPE-S1S-004SD6 | 4 | 6 | 4 | 70 | 1 |

| Order No. | D [mm] | SD [mm] | L1 [mm] | TL [mm] | Z FLUTES |
|-------------------|--------|---------|---------|---------|----------|
| M-TPE-SO1S-003 | 3 | 4 | 4 | 60 | 1 |
| M-TPE-SO1S-004 | 3 | 8 | 8 | 60 | 1 |
| M-TPE-SO1S-004SD6 | 4 | 6 | 4 | 70 | 1 |

■ Blade over center

TPE-S2S

PCD End Mill Two Flutes Short Blade



| Order No. | D [mm] | SD [mm] | L1 [mm] | TL [mm] | Z FLUTES |
|---------------|--------|---------|---------|---------|----------|
| M-TPE-S2S-003 | 3 | 6 | 6 | 60 | 2 |
| M-TPE-S2S-004 | 4 | 6 | 6 | 60 | 2 |
| M-TPE-S2S-005 | 5 | 6 | 6 | 60 | 2 |
| M-TPE-S2S-006 | 6 | 6 | 7 | 60 | 2 |
| M-TPE-S2S-008 | 8 | 8 | 7 | 70 | 2 |
| M-TPE-S2S-010 | 10 | 10 | 7 | 80 | 2 |
| M-TPE-S2S-012 | 12 | 12 | 7 | 80 | 2 |

| Order No. | D [mm] | SD [mm] | L1 [mm] | TL [mm] | Z FLUTES |
|-----------------|--------|---------|---------|---------|----------|
| M-TPE-S2S-014 | 14 | 14 | 7 | 100 | 2 |
| M-TPE-S2S-016 | 16 | 16 | 7 | 100 | 2 |
| M-TPE-S2S-018 | 18 | 18 | 7 | 100 | 2 |
| M-TPE-S2S-020 ◊ | 20 | 20 | 7 | 110 | 2 |
| M-TPE-S2S-022 ◊ | 22 | 22 | 7 | 110 | 2 |
| M-TPE-S2S-024 ◊ | 24 | 24 | 7 | 110 | 2 |
| M-TPE-S2S-026 ◊ | 26 | 26 | 7 | 110 | 2 |

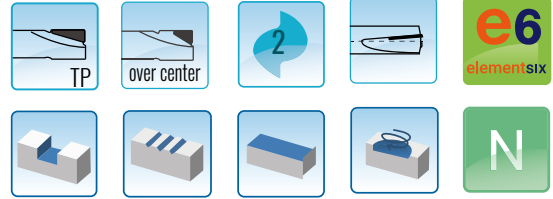
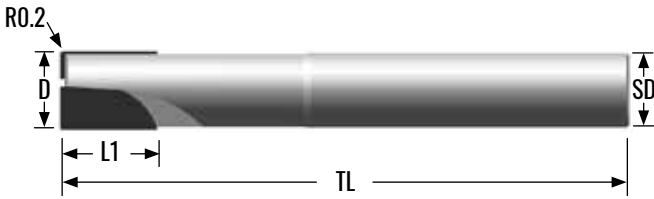
◊ The Shank Material Can Be HSS

Order Note

- Please refer to C 05/06 for the PCD End Mill Tools Code Key description.
- To place an order, please refer to the Designation code.
- For the item which is not on the list pls contact our sales to get the quote.

TPE-SO2S

PCD End Mill Two Flutes Short Blade One Blade Over Center



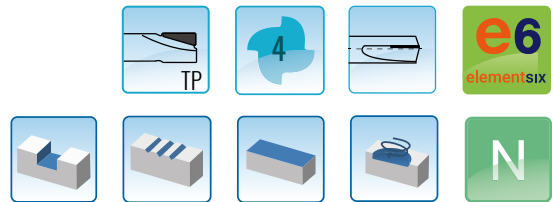
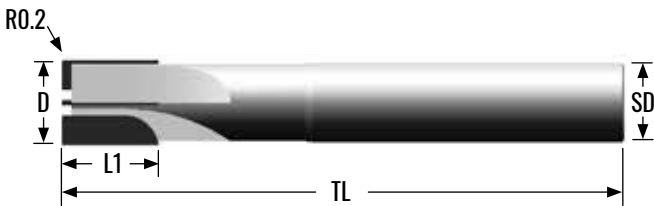
| Order No. | D [mm] | SD [mm] | L1 [mm] | TL [mm] | Z FLUTES |
|----------------|--------|---------|---------|---------|----------|
| M-TPE-SO2S-003 | 3 | 6 | 6 | 60 | 2 |
| M-TPE-SO2S-004 | 4 | 6 | 6 | 60 | 2 |
| M-TPE-SO2S-005 | 5 | 6 | 6 | 60 | 2 |
| M-TPE-SO2S-006 | 6 | 6 | 7 | 60 | 2 |
| M-TPE-SO2S-008 | 8 | 8 | 7 | 70 | 2 |
| M-TPE-SO2S-010 | 10 | 10 | 7 | 80 | 2 |
| M-TPE-SO2S-012 | 12 | 12 | 7 | 80 | 2 |

| Order No. | D [mm] | SD [mm] | L1 [mm] | TL [mm] | Z FLUTES |
|------------------|--------|---------|---------|---------|----------|
| M-TPE-SO2S-014 | 14 | 14 | 7 | 100 | 2 |
| M-TPE-SO2S-016 | 16 | 16 | 7 | 100 | 2 |
| M-TPE-SO2S-018 | 18 | 18 | 7 | 100 | 2 |
| M-TPE-SO2S-020 ◊ | 20 | 20 | 7 | 110 | 2 |
| M-TPE-SO2S-022 ◊ | 22 | 22 | 7 | 110 | 2 |
| M-TPE-SO2S-024 ◊ | 24 | 24 | 7 | 110 | 2 |
| M-TPE-SO2S-026 ◊ | 26 | 26 | 7 | 110 | 2 |

◊ The Shank Material Can Be HSS

TPE-S4S

PCD End Mill Four Flutes Short Blade



| Order No. | D [mm] | SD [mm] | L1 [mm] | TL [mm] | Z FLUTES |
|---------------------|--------|---------|---------|---------|----------|
| M-TPE-S4S-016 | 16 | 16 | 8 | 80 | 4 |
| M-TPE-S4S-016L105 | 16 | 16 | 8 | 105 | 4 |
| M-TPE-S4S-020 ◊ | 20 | 20 | 8 | 85 | 4 |
| M-TPE-S4S-020L105 ◊ | 20 | 20 | 8 | 105 | 4 |
| M-TPE-S4S-022 ◊ | 22 | 22 | 8 | 85 | 4 |
| M-TPE-S4S-022L105 ◊ | 22 | 22 | 8 | 105 | 4 |

| Order No. | D [mm] | SD [mm] | L1 [mm] | TL [mm] | Z FLUTES |
|---------------------|--------|---------|---------|---------|----------|
| M-TPE-S4S-024 ◊ | 24 | 24 | 8 | 85 | 4 |
| M-TPE-S4S-024L105 ◊ | 24 | 24 | 8 | 105 | 4 |
| M-TPE-S4S-026 ◊ | 26 | 26 | 8 | 105 | 4 |
| M-TPE-S4S-026L110 ◊ | 26 | 26 | 10 | 110 | 4 |
| M-TPE-S4S-030 ◊ | 30 | 30 | 10 | 105 | 4 |
| M-TPE-S4S-030L110 ◊ | 30 | 30 | 10 | 110 | 4 |

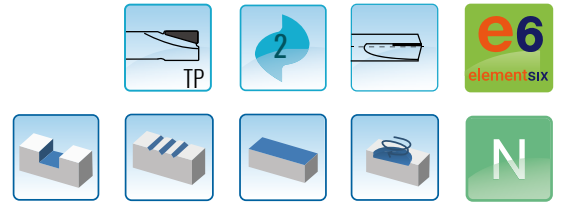
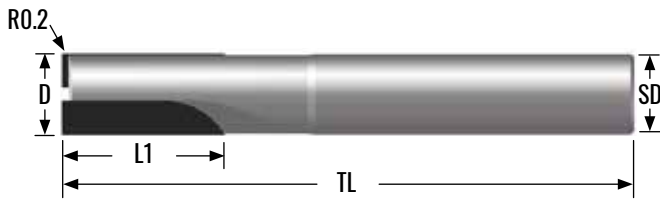
◊ The Shank Material Can Be HSS

Order Note

- Please refer to C 05/06 for the PCD End Mill Tools Code Key description.
- To place an order, please refer to the Designation code.
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TPE-L2S

PCD End Mill Two Flutes Long Blade



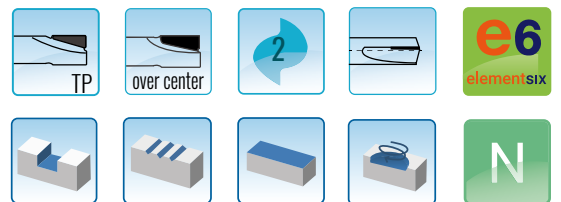
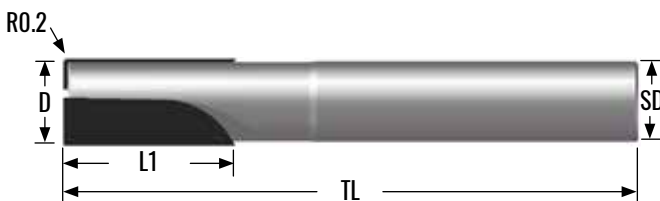
| Order No. | D [mm] | SD [mm] | L1 [mm] | TL [mm] | Z FLUTES |
|---------------|--------|---------|---------|---------|----------|
| M-TPE-L2S-003 | 3 | 6 | 12 | 60 | 2 |
| M-TPE-L2S-004 | 4 | 6 | 12 | 60 | 2 |
| M-TPE-L2S-005 | 5 | 6 | 12 | 60 | 2 |
| M-TPE-L2S-006 | 6 | 6 | 12 | 60 | 2 |
| M-TPE-L2S-008 | 8 | 8 | 12 | 70 | 2 |
| M-TPE-L2S-010 | 10 | 10 | 12 | 80 | 2 |
| M-TPE-L2S-012 | 12 | 12 | 12 | 80 | 2 |

| Order No. | D [mm] | SD [mm] | L1 [mm] | TL [mm] | Z FLUTES |
|-----------------|--------|---------|---------|---------|----------|
| M-TPE-L2S-014 | 14 | 14 | 12 | 100 | 2 |
| M-TPE-L2S-016 | 16 | 16 | 12 | 100 | 2 |
| M-TPE-L2S-018 | 18 | 18 | 12 | 100 | 2 |
| M-TPE-L2S-020 ◊ | 20 | 20 | 12 | 110 | 2 |
| M-TPE-L2S-022 ◊ | 22 | 22 | 12 | 110 | 2 |
| M-TPE-L2S-024 ◊ | 24 | 24 | 12 | 110 | 2 |
| M-TPE-L2S-026 ◊ | 26 | 26 | 12 | 110 | 2 |

◊ The Shank Material Can Be HSS

TPE-LO2S

PCD End Mill Two Flutes Long Blade One Blade Over Center



| Order No. | D [mm] | SD [mm] | L1 [mm] | TL [mm] | Z FLUTES |
|----------------|--------|---------|---------|---------|----------|
| M-TPE-LO2S-003 | 3 | 6 | 12 | 60 | 2 |
| M-TPE-LO2S-004 | 4 | 6 | 12 | 60 | 2 |
| M-TPE-LO2S-005 | 5 | 6 | 12 | 60 | 2 |
| M-TPE-LO2S-006 | 6 | 6 | 12 | 60 | 2 |
| M-TPE-LO2S-008 | 8 | 8 | 12 | 70 | 2 |
| M-TPE-LO2S-010 | 10 | 10 | 12 | 80 | 2 |
| M-TPE-LO2S-012 | 12 | 12 | 12 | 80 | 2 |

| Order No. | D [mm] | SD [mm] | L1 [mm] | TL [mm] | Z FLUTES |
|------------------|--------|---------|---------|---------|----------|
| M-TPE-LO2S-014 | 14 | 14 | 12 | 100 | 2 |
| M-TPE-LO2S-016 | 16 | 16 | 12 | 100 | 2 |
| M-TPE-LO2S-018 | 18 | 18 | 12 | 100 | 2 |
| M-TPE-LO2S-020 ◊ | 20 | 20 | 12 | 110 | 2 |
| M-TPE-LO2S-022 ◊ | 22 | 22 | 12 | 110 | 2 |
| M-TPE-LO2S-024 ◊ | 24 | 24 | 12 | 110 | 2 |
| M-TPE-LO2S-026 ◊ | 26 | 26 | 12 | 110 | 2 |

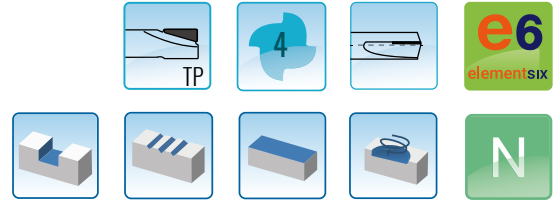
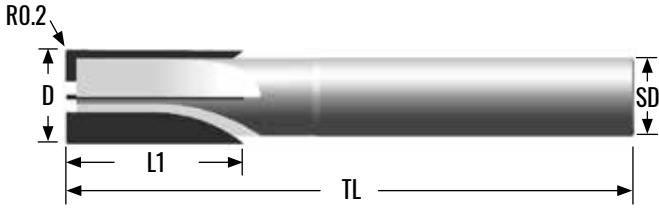
◊ The Shank Material Can Be HSS

Order Note

- Please refer to C 05/06 for the PCD End Mill Tools Code Key description.
- To place an order, please refer to the Designation code.
- For the item which is not on the list pls contact our sales to get the quote.

TPE-L4S

PCD End Mill Four Flutes Long Blade



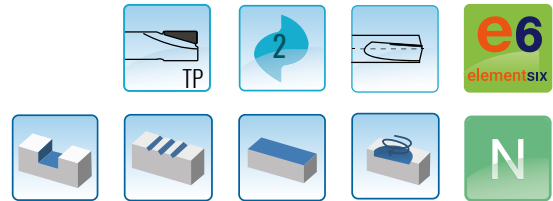
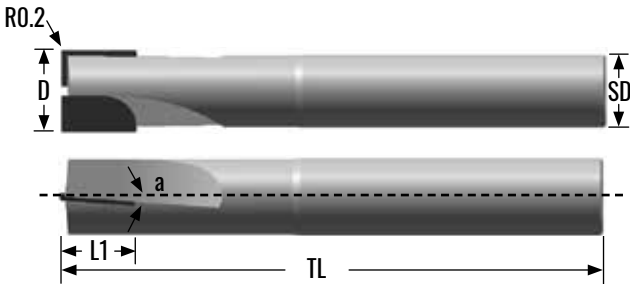
| Order No. | D [mm] | SD [mm] | L1 [mm] | TL [mm] | Z FLUTES |
|---------------------|--------|---------|---------|---------|----------|
| M-TPE-L4S-016 | 16 | 16 | 18 | 85 | 4 |
| M-TPE-L4S-016L105 | 16 | 16 | 20 | 105 | 4 |
| M-TPE-L4S-020 ◊ | 20 | 20 | 18 | 85 | 4 |
| M-TPE-L4S-020L105 ◊ | 20 | 20 | 20 | 105 | 4 |
| M-TPE-L4S-022 ◊ | 22 | 22 | 18 | 100 | 4 |
| M-TPE-L4S-022L110 ◊ | 22 | 22 | 20 | 110 | 4 |

| Order No. | D [mm] | SD [mm] | L1 [mm] | TL [mm] | Z FLUTES |
|---------------------|--------|---------|---------|---------|----------|
| M-TPE-L4S-024 ◊ | 24 | 24 | 18 | 100 | 4 |
| M-TPE-L4S-024L110 ◊ | 24 | 24 | 20 | 110 | 4 |
| M-TPE-L4S-026 ◊ | 26 | 26 | 18 | 100 | 4 |
| M-TPE-L4S-026L110 ◊ | 26 | 26 | 20 | 110 | 4 |
| M-TPE-L4S-030 ◊ | 30 | 30 | 18 | 100 | 4 |
| M-TPE-L4S-030L110 ◊ | 30 | 30 | 20 | 110 | 4 |

◊ The Shank Material Can Be HSS

TPE-S2P

PCD End Mill Two Flutes Short Blade With Positive Angle ¹



| Order No. | D [mm] | SD [mm] | L1 [mm] | TL [mm] | Z FLUTES | a ANGLE |
|---------------|--------|---------|---------|---------|----------|---------|
| M-TPE-S2P-003 | 3 | 6 | 6 | 60 | 2 | +3° |
| M-TPE-S2P-004 | 4 | 6 | 6 | 60 | 2 | +3° |
| M-TPE-S2P-005 | 5 | 6 | 6 | 60 | 2 | +3° |
| M-TPE-S2P-006 | 6 | 6 | 7 | 60 | 2 | +3° |
| M-TPE-S2P-008 | 8 | 8 | 7 | 70 | 2 | +4° |
| M-TPE-S2P-010 | 10 | 10 | 7 | 80 | 2 | +4° |
| M-TPE-S2P-012 | 12 | 12 | 7 | 80 | 2 | +4° |

| Order No. | D [mm] | SD [mm] | L1 [mm] | TL [mm] | Z FLUTES | a ANGLE |
|-----------------|--------|---------|---------|---------|----------|---------|
| M-TPE-S2P-014 | 14 | 14 | 7 | 100 | 2 | +4° |
| M-TPE-S2P-016 | 16 | 16 | 7 | 100 | 2 | +4° |
| M-TPE-S2P-018 | 18 | 18 | 7 | 100 | 2 | +4° |
| M-TPE-S2P-020 ◊ | 20 | 20 | 7 | 110 | 2 | +4° |
| M-TPE-S2P-022 ◊ | 22 | 22 | 7 | 110 | 2 | +4° |
| M-TPE-S2P-024 ◊ | 24 | 24 | 7 | 110 | 2 | +4° |
| M-TPE-S2P-026 ◊ | 26 | 26 | 7 | 110 | 2 | +4° |

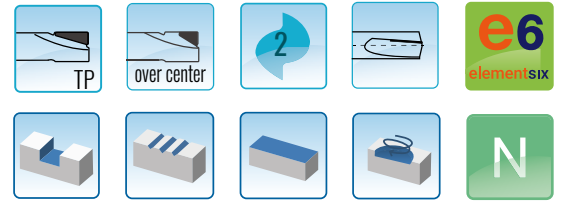
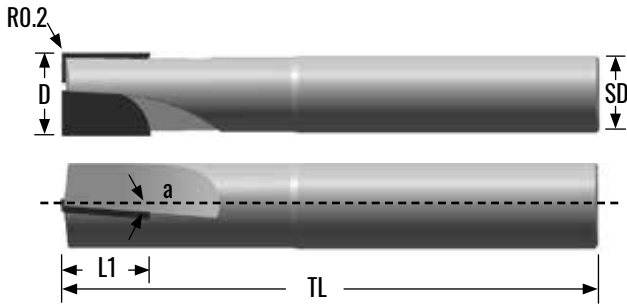
◊ The Shank Material Can Be HSS

Order Note

- Please refer to C 05/06 for the PCD End Mill Tools Code Key description.
- To place an order, please refer to the Designation code.
- For the item which is not on the list pls contact our sales to get the quote.
- 1 The Positive angle make the tools more cutting power.

TPE-SO2P

PCD End Mill Two Flutes Short Blade With Positive Angle ¹
One Blade Over Center



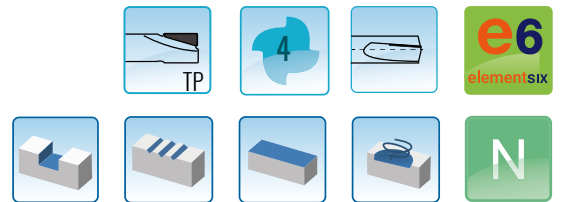
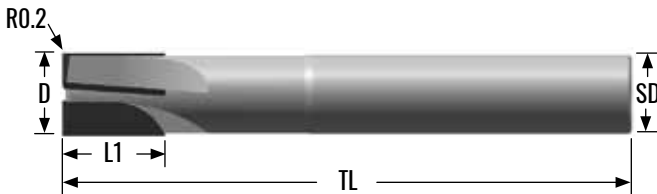
| Order No. | D [mm] | SD [mm] | L1 [mm] | TL [mm] | Z FLUTES | a ANGLE |
|----------------|--------|---------|---------|---------|----------|---------|
| M-TPE-SO2P-003 | 3 | 6 | 6 | 60 | 2 | +3° |
| M-TPE-SO2P-004 | 4 | 6 | 6 | 60 | 2 | +3° |
| M-TPE-SO2P-005 | 5 | 6 | 6 | 60 | 2 | +3° |
| M-TPE-SO2P-006 | 6 | 6 | 7 | 60 | 2 | +3° |
| M-TPE-SO2P-008 | 8 | 8 | 7 | 70 | 2 | +4° |
| M-TPE-SO2P-010 | 10 | 10 | 7 | 80 | 2 | +4° |
| M-TPE-SO2P-012 | 12 | 12 | 7 | 80 | 2 | +4° |

| Order No. | D [mm] | SD [mm] | L1 [mm] | TL [mm] | Z FLUTES | a ANGLE |
|------------------|--------|---------|---------|---------|----------|---------|
| M-TPE-SO2P-014 | 14 | 14 | 7 | 100 | 2 | +4° |
| M-TPE-SO2P-016 | 16 | 16 | 7 | 100 | 2 | +4° |
| M-TPE-SO2P-018 | 18 | 18 | 7 | 100 | 2 | +4° |
| M-TPE-SO2P-020 ◊ | 20 | 20 | 7 | 110 | 2 | +4° |
| M-TPE-SO2P-022 ◊ | 22 | 22 | 7 | 110 | 2 | +4° |
| M-TPE-SO2P-024 ◊ | 24 | 24 | 7 | 110 | 2 | +4° |
| M-TPE-SO2P-026 ◊ | 26 | 26 | 7 | 110 | 2 | +4° |

◊ The Shank Material Can Be HSS

TPE-S4P

PCD End Mill Four Flutes Short Blade With Positive Angle ¹



| Order No. | D [mm] | SD [mm] | L1 [mm] | TL [mm] | Z FLUTES | a ANGLE |
|---------------------|--------|---------|---------|---------|----------|---------|
| M-TPE-S4P-016 | 16 | 16 | 8 | 80 | 4 | +4° |
| M-TPE-S4P-016L105 | 16 | 16 | 8 | 105 | 4 | +4° |
| M-TPE-S4P-020 ◊ | 20 | 20 | 8 | 85 | 4 | +4° |
| M-TPE-S4P-020L105 ◊ | 20 | 20 | 8 | 105 | 4 | +4° |
| M-TPE-S4P-022 ◊ | 22 | 22 | 8 | 85 | 4 | +4° |
| M-TPE-S4P-022L105 ◊ | 22 | 22 | 8 | 105 | 4 | +4° |

| Order No. | D [mm] | SD [mm] | L1 [mm] | TL [mm] | Z FLUTES | a ANGLE |
|---------------------|--------|---------|---------|---------|----------|---------|
| M-TPE-S4P-024 ◊ | 24 | 24 | 8 | 85 | 4 | +4° |
| M-TPE-S4P-024L105 ◊ | 24 | 24 | 8 | 105 | 4 | +4° |
| M-TPE-S4P-026 ◊ | 26 | 26 | 8 | 105 | 4 | +4° |
| M-TPE-S4P-026L110 ◊ | 26 | 26 | 10 | 110 | 4 | +4° |
| M-TPE-S4P-030 ◊ | 30 | 30 | 10 | 105 | 4 | +4° |
| M-TPE-S4P-030L110 ◊ | 30 | 30 | 10 | 110 | 4 | +4° |

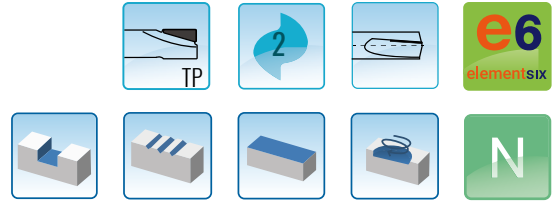
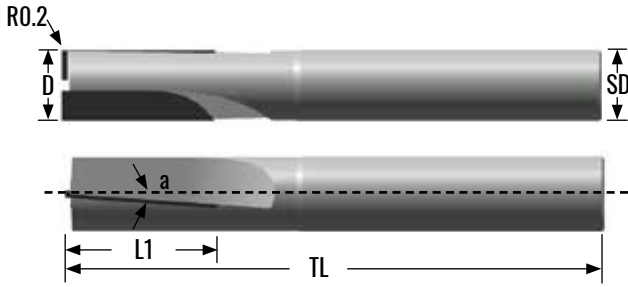
◊ The Shank Material Can Be HSS

Order Note

- Please refer to C 05/06 for the PCD End Mill Tools Code Key description.
- To place an order, please refer to the Designation code.
- For the item which is not on the list pls contact our sales to get the quote.
- 1 The Positive angle make the tools more cutting power

TPE-L2P

PCD End Mill Two Flutes Long Blade With Positive Angle ¹



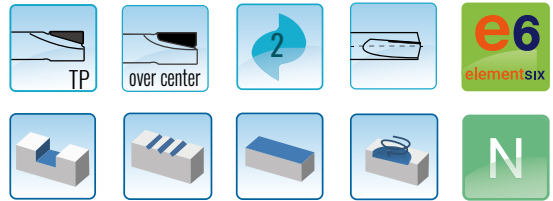
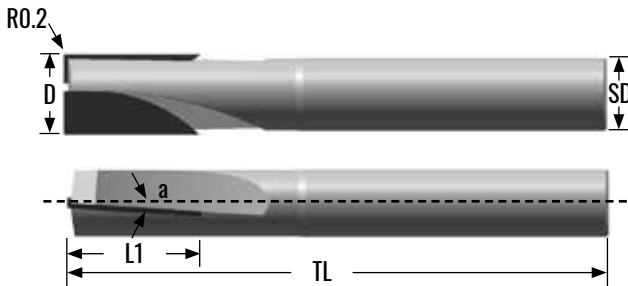
| Order No. | D [mm] | SD [mm] | L1 [mm] | TL [mm] | Z FLUTES | a ANGLE |
|---------------|--------|---------|---------|---------|----------|---------|
| M-TPE-L2P-003 | 3 | 6 | 12 | 60 | 2 | +3° |
| M-TPE-L2P-004 | 4 | 6 | 12 | 60 | 2 | +3° |
| M-TPE-L2P-005 | 5 | 6 | 12 | 60 | 2 | +3° |
| M-TPE-L2P-006 | 6 | 6 | 12 | 60 | 2 | +3° |
| M-TPE-L2P-008 | 8 | 8 | 12 | 70 | 2 | +4° |
| M-TPE-L2P-010 | 10 | 10 | 12 | 80 | 2 | +4° |
| M-TPE-L2P-012 | 12 | 12 | 12 | 80 | 2 | +4° |

| Order No. | D [mm] | SD [mm] | L1 [mm] | TL [mm] | Z FLUTES | a ANGLE |
|-----------------|--------|---------|---------|---------|----------|---------|
| M-TPE-L2P-014 | 14 | 14 | 12 | 100 | 2 | +4° |
| M-TPE-L2P-016 | 16 | 16 | 12 | 100 | 2 | +4° |
| M-TPE-L2P-018 | 18 | 18 | 12 | 100 | 2 | +4° |
| M-TPE-L2P-020 ◊ | 20 | 20 | 12 | 110 | 2 | +4° |
| M-TPE-L2P-022 ◊ | 22 | 22 | 12 | 110 | 2 | +4° |
| M-TPE-L2P-024 ◊ | 24 | 24 | 12 | 110 | 2 | +4° |
| M-TPE-L2P-026 ◊ | 26 | 26 | 12 | 110 | 2 | +4° |

◊ The Shank Material Can Be HSS

TPE-LO2P

PCD End Mill Two Flutes Long Blade With Positive Angle ¹
One Blade Over Center



| Order No. | D [mm] | SD [mm] | L1 [mm] | TL [mm] | Z FLUTES | a ANGLE |
|----------------|--------|---------|---------|---------|----------|---------|
| M-TPE-LO2P-003 | 3 | 6 | 12 | 60 | 2 | +3° |
| M-TPE-LO2P-004 | 4 | 6 | 12 | 60 | 2 | +3° |
| M-TPE-LO2P-005 | 5 | 6 | 12 | 60 | 2 | +3° |
| M-TPE-LO2P-006 | 6 | 6 | 12 | 60 | 2 | +3° |
| M-TPE-LO2P-008 | 8 | 8 | 12 | 70 | 2 | +4° |
| M-TPE-LO2P-010 | 10 | 10 | 12 | 80 | 2 | +4° |
| M-TPE-LO2P-012 | 12 | 12 | 12 | 80 | 2 | +4° |

| Order No. | D [mm] | SD [mm] | L1 [mm] | TL [mm] | Z FLUTES | a ANGLE |
|------------------|--------|---------|---------|---------|----------|---------|
| M-TPE-LO2P-014 | 14 | 14 | 12 | 100 | 2 | +4° |
| M-TPE-LO2P-016 | 16 | 16 | 12 | 100 | 2 | +4° |
| M-TPE-LO2P-018 | 18 | 18 | 12 | 100 | 2 | +4° |
| M-TPE-LO2P-020 ◊ | 20 | 20 | 12 | 110 | 2 | +4° |
| M-TPE-LO2P-022 ◊ | 22 | 22 | 12 | 110 | 2 | +4° |
| M-TPE-LO2P-024 ◊ | 24 | 24 | 12 | 110 | 2 | +4° |
| M-TPE-LO2P-026 ◊ | 26 | 26 | 12 | 110 | 2 | +4° |

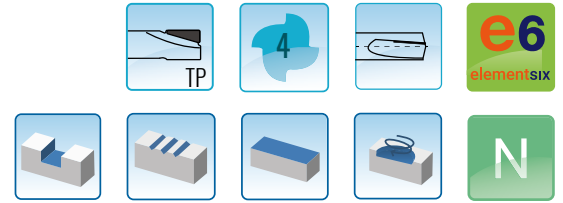
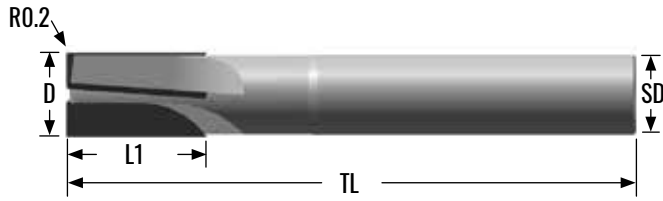
◊ The Shank Material Can Be HSS

Order Note

- Please refer to C 05/06 for the PCD End Mill Tools Code Key description.
- To place an order, please refer to the Designation code.
- For the item which is not on the list pls contact our sales to get the quote.
- 1 The Positive angle make the tools more cutting power

TPE-L4P

PCD End Mill Four Flutes Long Blade With Positive Angle ¹



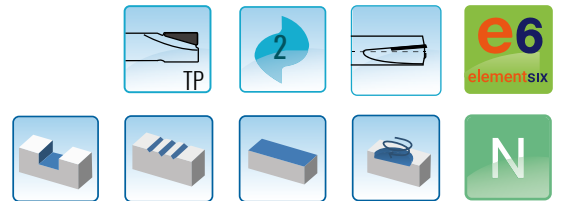
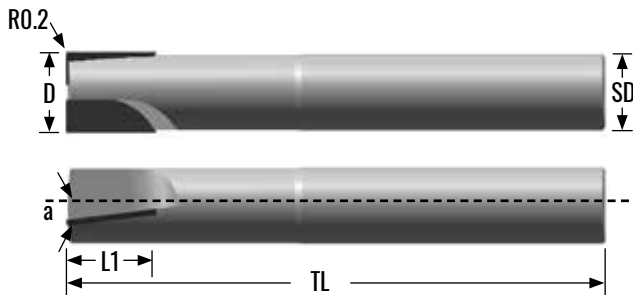
| Order No. | D [mm] | SD [mm] | L1 [mm] | TL [mm] | Z FLUTES | a ANGLE |
|---------------------|--------|---------|---------|---------|----------|---------|
| M-TPE-L4P-016 | 16 | 16 | 18 | 85 | 4 | +4° |
| M-TPE-L4P-016L105 | 16 | 16 | 20 | 105 | 4 | +4° |
| M-TPE-L4P-020 ◊ | 20 | 20 | 18 | 85 | 4 | +4° |
| M-TPE-L4P-020L105 ◊ | 20 | 20 | 20 | 105 | 4 | +4° |
| M-TPE-L4P-022 ◊ | 22 | 22 | 18 | 100 | 4 | +4° |
| M-TPE-L4P-022L110 ◊ | 22 | 22 | 20 | 110 | 4 | +4° |

| Order No. | D [mm] | SD [mm] | L1 [mm] | TL [mm] | Z FLUTES | a ANGLE |
|---------------------|--------|---------|---------|---------|----------|---------|
| M-TPE-L4P-024 ◊ | 24 | 24 | 18 | 100 | 4 | +4° |
| M-TPE-L4P-024L110 ◊ | 24 | 24 | 20 | 110 | 4 | +4° |
| M-TPE-L4P-026 ◊ | 26 | 26 | 18 | 100 | 4 | +4° |
| M-TPE-L4P-026L110 ◊ | 26 | 26 | 20 | 110 | 4 | +4° |
| M-TPE-L4P-030 ◊ | 30 | 30 | 18 | 100 | 4 | +4° |
| M-TPE-L4P-030L110 ◊ | 30 | 30 | 20 | 110 | 4 | +4° |

◊ The Shank Material Can Be HSS

TPE-S2N

PCD End Mill Four Flutes Short Blade With Negative Angle ²



| Order No. | D [mm] | SD [mm] | L1 [mm] | TL [mm] | Z FLUTES | a ANGLE |
|---------------|--------|---------|---------|---------|----------|---------|
| M-TPE-S2N-003 | 3 | 6 | 6 | 60 | 2 | -3° |
| M-TPE-S2N-004 | 4 | 6 | 6 | 60 | 2 | -3° |
| M-TPE-S2N-005 | 5 | 6 | 6 | 60 | 2 | -3° |
| M-TPE-S2N-006 | 6 | 6 | 7 | 60 | 2 | -3° |
| M-TPE-S2N-008 | 8 | 8 | 7 | 70 | 2 | -4° |
| M-TPE-S2N-010 | 10 | 10 | 7 | 80 | 2 | -4° |
| M-TPE-S2N-012 | 12 | 12 | 7 | 80 | 2 | -4° |

| Order No. | D [mm] | SD [mm] | L1 [mm] | TL [mm] | Z FLUTES | a ANGLE |
|-----------------|--------|---------|---------|---------|----------|---------|
| M-TPE-S2N-014 | 14 | 14 | 7 | 100 | 2 | -4° |
| M-TPE-S2N-016 | 16 | 16 | 7 | 100 | 2 | -4° |
| M-TPE-S2N-018 | 18 | 18 | 7 | 100 | 2 | -4° |
| M-TPE-S2N-020 ◊ | 20 | 20 | 7 | 110 | 2 | -4° |
| M-TPE-S2N-022 ◊ | 22 | 22 | 7 | 110 | 2 | -4° |
| M-TPE-S2N-024 ◊ | 24 | 24 | 7 | 110 | 2 | -4° |
| M-TPE-S2N-026 ◊ | 26 | 26 | 7 | 110 | 2 | -4° |

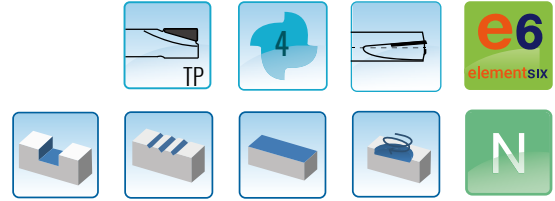
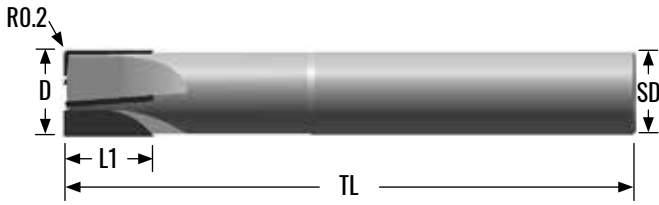
◊ The Shank Material Can Be HSS

Order Note

- Please refer to C 05/06 for the PCD End Mill Tools Code Key description.
- To place an order, please refer to the Designation code.
- For the item which is not on the list pls contact our sales to get the quote.
- 1 The Positive angle make the tools more cutting power.
- 2 The negative angle make the tools more wear resistance

TPE-S4N

PCD End Mill Four Flutes Short Blade With Negative Angle ²



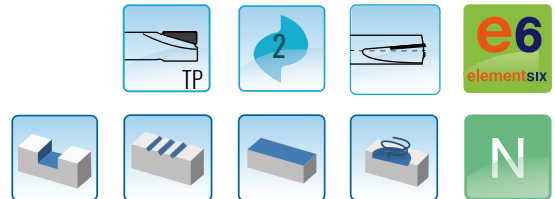
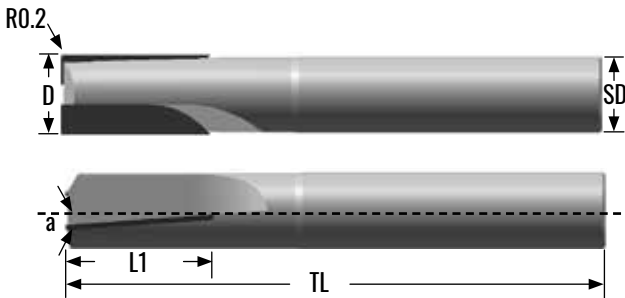
| Order No. | D [mm] | SD [mm] | L1 [mm] | TL [mm] | Z FLUTES | a ANGLE |
|---------------------|--------|---------|---------|---------|----------|---------|
| M-TPE-S4N-016 | 16 | 16 | 8 | 80 | 4 | -4° |
| M-TPE-S4N-016L105 | 16 | 16 | 8 | 105 | 4 | -4° |
| M-TPE-S4N-020 ◊ | 20 | 20 | 8 | 85 | 4 | -4° |
| M-TPE-S4N-020L105 ◊ | 20 | 20 | 8 | 105 | 4 | -4° |
| M-TPE-S4N-022 ◊ | 22 | 22 | 8 | 85 | 4 | -4° |
| M-TPE-S4N-022L105 ◊ | 22 | 22 | 8 | 105 | 4 | -4° |

| Order No. | D [mm] | SD [mm] | L1 [mm] | TL [mm] | Z FLUTES | a ANGLE |
|---------------------|--------|---------|---------|---------|----------|---------|
| M-TPE-S4N-024 ◊ | 24 | 24 | 8 | 85 | 4 | -4° |
| M-TPE-S4N-024L105 ◊ | 24 | 24 | 8 | 105 | 4 | -4° |
| M-TPE-S4N-026 ◊ | 26 | 26 | 8 | 105 | 4 | -4° |
| M-TPE-S4N-026L110 ◊ | 26 | 26 | 10 | 110 | 4 | -4° |
| M-TPE-S4N-030 ◊ | 30 | 30 | 10 | 105 | 4 | -4° |
| M-TPE-S4N-030L110 ◊ | 30 | 30 | 10 | 110 | 4 | -4° |

◊ The Shank Material Can Be HSS

TPE-L2N

PCD End Mill Two Flutes Long Blade With Negative Angle ²



| Order No. | D [mm] | SD [mm] | L1 [mm] | TL [mm] | Z FLUTES | a ANGLE |
|---------------|--------|---------|---------|---------|----------|---------|
| M-TPE-L2N-003 | 3 | 6 | 12 | 60 | 2 | -3° |
| M-TPE-L2N-004 | 4 | 6 | 12 | 60 | 2 | -3° |
| M-TPE-L2N-005 | 5 | 6 | 12 | 60 | 2 | -3° |
| M-TPE-L2N-006 | 6 | 6 | 12 | 60 | 2 | -3° |
| M-TPE-L2N-008 | 8 | 8 | 12 | 70 | 2 | -4° |
| M-TPE-L2N-010 | 10 | 10 | 12 | 80 | 2 | -4° |
| M-TPE-L2N-012 | 12 | 12 | 12 | 80 | 2 | -4° |

| Order No. | D [mm] | SD [mm] | L1 [mm] | TL [mm] | Z FLUTES | a ANGLE |
|-----------------|--------|---------|---------|---------|----------|---------|
| M-TPE-L2N-014 | 14 | 14 | 12 | 100 | 2 | -4° |
| M-TPE-L2N-016 | 16 | 16 | 12 | 100 | 2 | -4° |
| M-TPE-L2N-018 | 18 | 18 | 12 | 100 | 2 | -4° |
| M-TPE-L2N-020 ◊ | 20 | 20 | 12 | 110 | 2 | -4° |
| M-TPE-L2N-022 ◊ | 22 | 22 | 12 | 110 | 2 | -4° |
| M-TPE-L2N-024 ◊ | 24 | 24 | 12 | 110 | 2 | -4° |
| M-TPE-L2N-026 ◊ | 26 | 26 | 12 | 110 | 2 | -4° |

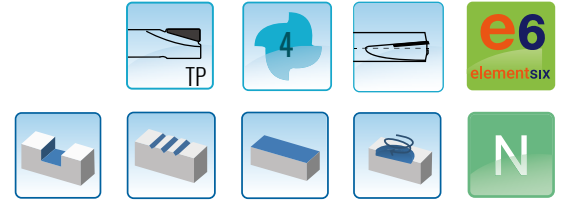
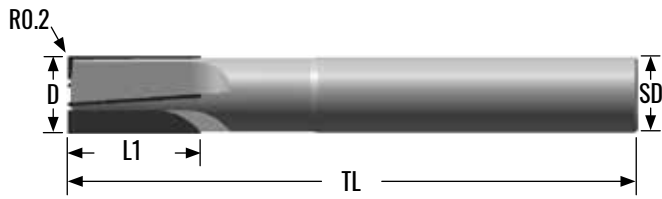
◊ The Shank Material Can Be HSS

Order Note

- Please refer to C 05/06 for the PCD End Mill Tools Code Key description.
- To place an order, please refer to the Designation code.
- For the item which is not on the list pls contact our sales to get the quote.
- 2 The negative angle make the tools more wear resistance

TPE-L4N

PCD End Mill Four Flutes Long Blade With Negative Angle ²



| Order No. | D [mm] | SD [mm] | L1 [mm] | TL [mm] | Z FLUTES | a ANGLE |
|---------------------|--------|---------|---------|---------|----------|---------|
| M-TPE-L4N-016 | 16 | 16 | 18 | 85 | 4 | -4° |
| M-TPE-L4N-016L105 | 16 | 16 | 20 | 105 | 4 | -4° |
| M-TPE-L4N-020 ◊ | 20 | 20 | 18 | 85 | 4 | -4° |
| M-TPE-L4N-020L105 ◊ | 20 | 20 | 20 | 105 | 4 | -4° |
| M-TPE-L4N-022 ◊ | 22 | 22 | 18 | 100 | 4 | -4° |
| M-TPE-S4N-022L110 ◊ | 22 | 22 | 20 | 110 | 4 | -4° |

| Order No. | D [mm] | SD [mm] | L1 [mm] | TL [mm] | Z FLUTES | a ANGLE |
|---------------------|--------|---------|---------|---------|----------|---------|
| M-TPE-L4N-024 ◊ | 24 | 24 | 18 | 100 | 4 | -4° |
| M-TPE-L4N-024L110 ◊ | 24 | 24 | 20 | 110 | 4 | -4° |
| M-TPE-L4N-026 ◊ | 26 | 26 | 18 | 100 | 4 | -4° |
| M-TPE-L4N-026L110 ◊ | 26 | 26 | 20 | 110 | 4 | -4° |
| M-TPE-L4N-030 ◊ | 30 | 30 | 18 | 100 | 4 | -4° |
| M-TPE-L4N-030L110 ◊ | 30 | 30 | 20 | 110 | 4 | -4° |

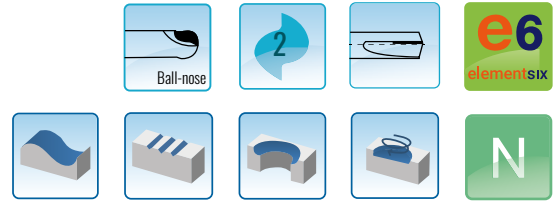
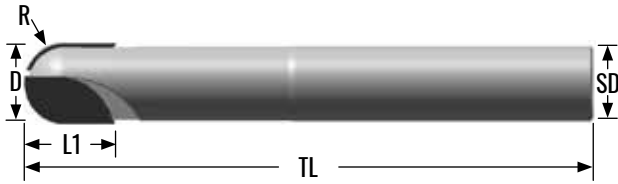
◊ The Shank Material Can Be HSS

Order Note

- Please refer to C 05/06 for the PCD End Mill Tools Code Key description.
- To place an order, please refer to the Designation code.
- For the item which is not on the list pls contact our sales to get the quote.
- 2 The negative angle make the tools more wear resistance.

TPB-S/L2S

PCD Ball-nose Milling Cutter



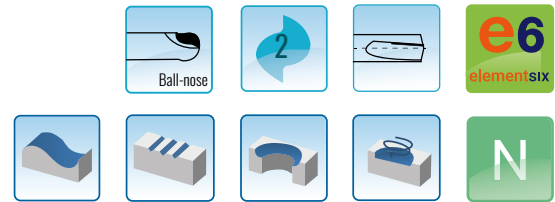
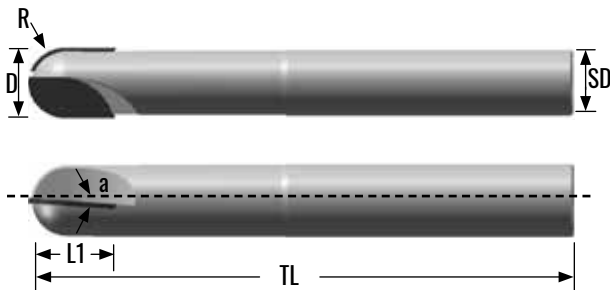
| Order No. | D [mm] | R [mm] | SD [mm] | L1 [mm] | TL [mm] | Z FLUTES |
|---------------|--------|--------|---------|---------|---------|----------|
| M-TPB-S2S-004 | 4 | 2 | 6 | 2 | 60 | 2 |
| M-TPB-S2S-006 | 6 | 3 | 6 | 3 | 60 | 2 |
| M-TPB-S2S-008 | 8 | 4 | 8 | 4 | 70 | 2 |
| M-TPB-S2S-010 | 10 | 5 | 10 | 5 | 80 | 2 |
| M-TPB-S2S-012 | 12 | 6 | 12 | 6 | 80 | 2 |
| M-TPB-S2S-014 | 14 | 7 | 14 | 7 | 100 | 2 |

| Order No. | D [mm] | R [mm] | SD [mm] | L1 [mm] | TL [mm] | Z FLUTES |
|-----------------|--------|--------|---------|---------|---------|----------|
| M-TPB-S2S-015 | 15 | 7.5 | 16 | 7.5 | 100 | 2 |
| M-TPB-S2S-016 | 16 | 8 | 16 | 8 | 100 | 2 |
| M-TPB-S2S-018 | 18 | 9 | 18 | 9 | 100 | 2 |
| M-TPB-S2S-020 ◊ | 20 | 10 | 20 | 10 | 110 | 2 |
| M-TPB-L2S-022 ◊ | 22 | 11 | 22 | 11 | 110 | 2 |
| M-TPB-L2S-024 ◊ | 24 | 12 | 24 | 12 | 110 | 2 |

◊ The Shank Material Can Be HSS

TPB-S/L2P

PCD Ball-nose Milling Cutter With Positive Angle ¹



| Order No. | D [mm] | R [mm] | SD [mm] | L1 [mm] | TL [mm] | Z FLUTES | a ANGLE |
|---------------|--------|--------|---------|---------|---------|----------|---------|
| M-TPB-S2P-004 | 4 | 2 | 6 | 2 | 60 | 2 | +3° |
| M-TPB-S2P-006 | 6 | 3 | 6 | 3 | 60 | 2 | +3° |
| M-TPB-S2P-008 | 8 | 4 | 8 | 4 | 70 | 2 | +4° |
| M-TPB-S2P-010 | 10 | 5 | 10 | 5 | 80 | 2 | +4° |
| M-TPB-S2P-012 | 12 | 6 | 12 | 6 | 80 | 2 | +4° |
| M-TPB-S2P-014 | 14 | 7 | 14 | 7 | 100 | 2 | +4° |

| Order No. | D [mm] | R [mm] | SD [mm] | L1 [mm] | TL [mm] | Z FLUTES | a ANGLE |
|-----------------|--------|--------|---------|---------|---------|----------|---------|
| M-TPB-S2P-015 | 15 | 7.5 | 16 | 7.5 | 100 | 2 | +4° |
| M-TPB-S2P-016 | 16 | 8 | 16 | 8 | 100 | 2 | +4° |
| M-TPB-S2P-018 | 18 | 9 | 18 | 9 | 100 | 2 | +4° |
| M-TPB-S2P-020 ◊ | 20 | 10 | 20 | 10 | 110 | 2 | +4° |
| M-TPB-L2P-022 ◊ | 22 | 11 | 22 | 11 | 110 | 2 | +4° |
| M-TPB-L2P-024 ◊ | 24 | 12 | 24 | 12 | 110 | 2 | +4° |

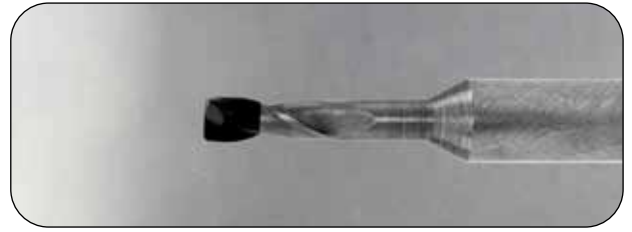
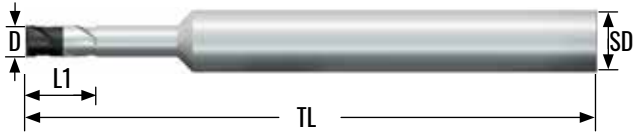
◊ The Shank Material Can Be HSS

Order Note

- Please refer to C 05/06 for the PCD End Mill Tools Code Key description.
- To place an order, please refer to the Designation code.
- For the item which is not on the list pls contact our sales to get the quote.
- 1 The Positive angle make the tools more cutting power

M-SN

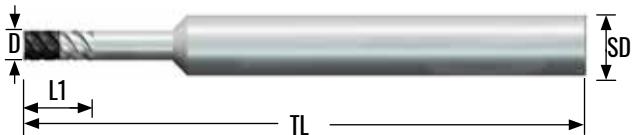
PCD Solid Nib Helix Two Flutes End Mill



| Order No. | D [mm] | SD [mm] | L1 [mm] | TL [mm] | Z FLUTES |
|-----------|--------|---------|---------|---------|----------|
| M-SN-010 | 1 | 6 | 6 | 50 | 2 |
| M-SN-015 | 1.5 | 6 | 6 | 50 | 2 |
| M-SN-020 | 2 | 6 | 6 | 50 | 2 |
| M-SN-025 | 2.5 | 6 | 6 | 50 | 2 |
| M-SN-030 | 3 | 6 | 8 | 50 | 2 |
| M-SN-035 | 3.5 | 6 | 8 | 50 | 2 |
| M-SN-040 | 4 | 6 | 8 | 50 | 2 |

M-SN

PCD Solid Nib Helix Four Flutes End Mill



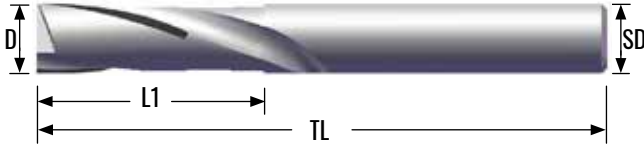
| Order No. | D [mm] | SD [mm] | L1 [mm] | TL [mm] | Z FLUTES |
|------------|--------|---------|---------|---------|----------|
| M-SN-030Z4 | 3 | 6 | 8 | 50 | 4 |
| M-SN-035Z4 | 3.5 | 6 | 8 | 50 | 4 |
| M-SN-040Z4 | 4 | 6 | 8 | 50 | 4 |
| M-SN-045Z4 | 4.5 | 6 | 8 | 50 | 4 |
| M-SN-050Z4 | 5 | 6 | 10 | 50 | 4 |
| M-SN-055Z4 | 5.5 | 6 | 10 | 50 | 4 |
| M-SN-060Z4 | 6 | 6 | 10 | 60 | 4 |

Order Note

- Please refer to C 05/06 for the PCD End Mill Tools Code Key description.
- To place an order, please refer to the Designation code.
- For the item which is not on the list pls contact our sales to get the quote.

M-SHB

PCD Full Edge End Mill Helix Two Flutes



| Order No. | D [mm] | SD [mm] | L1 [mm] | TL [mm] | Z FLUTES |
|-----------|--------|---------|---------|---------|----------|
| M-SHB-040 | 4 | 6 | 6 | 50 | 2 |
| M-SHB-045 | 4.5 | 6 | 6 | 50 | 2 |
| M-SHB-050 | 5 | 6 | 6 | 50 | 2 |
| M-SHB-055 | 5.5 | 6 | 8 | 50 | 2 |
| M-SHB-060 | 6 | 6 | 8 | 60 | 2 |

| Order No. | D [mm] | SD [mm] | L1 [mm] | TL [mm] | Z FLUTES |
|-----------|--------|---------|---------|---------|----------|
| M-SHB-065 | 6.5 | 8 | 8 | 60 | 2 |
| M-SHB-070 | 7 | 8 | 8 | 60 | 2 |
| M-SHB-075 | 7.5 | 8 | 8 | 60 | 2 |
| M-SHB-080 | 8 | 8 | 8 | 60 | 2 |

M-SN

PCD Full Edge End Mill Helix Four flutes



| Order No. | D [mm] | SD [mm] | L1 [mm] | TL [mm] | Z FLUTES |
|-------------|--------|---------|---------|---------|----------|
| M-SHB-080Z4 | 8 | 8 | 10 | 80 | 4 |
| M-SHB-090Z4 | 9 | 10 | 10 | 80 | 4 |
| M-SHB-100Z4 | 10 | 10 | 15 | 80 | 4 |
| M-SHB-110Z4 | 11 | 12 | 15 | 80 | 4 |
| M-SHB-112Z4 | 12 | 12 | 15 | 80 | 4 |
| M-SHB-113Z4 | 13 | 14 | 15 | 80 | 4 |
| M-SHB-114Z4 | 14 | 14 | 20 | 100 | 4 |

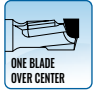
| Order No. | D [mm] | SD [mm] | L1 [mm] | TL [mm] | Z FLUTES |
|-------------|--------|---------|---------|---------|----------|
| M-SHB-115Z4 | 15 | 16 | 20 | 100 | 4 |
| M-SHB-116Z4 | 16 | 16 | 20 | 100 | 4 |
| M-SHB-117Z4 | 17 | 18 | 20 | 100 | 4 |
| M-SHB-118Z4 | 18 | 18 | 20 | 120 | 4 |
| M-SHB-119Z4 | 19 | 20 | 20 | 120 | 4 |
| M-SHB-200Z4 | 20 | 20 | 20 | 120 | 4 |

Order Note

- Please refer to C 05/06 for the PCD End Mill Tools Code Key description.
- To place an order, please refer to the Designation code.
- For the item which is not on the list pls contact our sales to get the quote.

M-HE 1+1

Z1+1 PCD Wood Working Milling Cutter With HSS Shank Body PCD H2.5mm



- Strong wear resistance: PCD is an extremely hard material that is even harder than cemented carbide.
- High cutting efficiency: excellent thermal conductivity and low friction coefficient can reduce thermal deformation and tool adhesion during processing.
- High machining accuracy: the products produced have a good surface finish and are less prone to defects such as burrs and cracks.



| Order No. | D [mm] | FL [mm] | TL [mm] | SD [mm] |
|--------------|--------|---------|---------|---------|
| M-HE-1-0622 | 6 | 22 | 68 | 8 |
| M-HE-1-0822 | 8 | 22 | 70 | 12.7 |
| M-HE-1-1022 | 10 | 22 | 70 | 12.7 |
| M-HE-1-1027 | 10 | 27 | 75 | 12.7 |
| M-HE-1-1227 | 12 | 27 | 75 | 12 |
| M-HE-1-1225 | 12 | 25.4 | 75 | 12 |
| M-HE-1-1230 | 12 | 30 | 80 | 12 |
| M-HE-1-1235 | 12 | 35 | 85 | 12 |
| M-HE-1-D1225 | 12.7 | 25 | 70 | 12.7 |
| M-HE-1-D1230 | 12.7 | 30 | 75 | 12.7 |
| M-HE-1-1625 | 16 | 25 | 85 | 16 |
| M-HE-1-1630 | 16 | 30 | 90 | 16 |

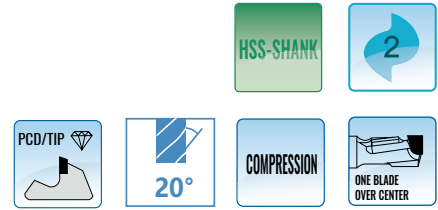
| Order No. | D [mm] | FL [mm] | TL [mm] | SD [mm] |
|----------------|--------|---------|---------|---------|
| M-HE-1-1635(1) | 16 | 35 | 95 | 20 |
| M-HE-1-1635 | 16 | 35 | 95 | 16 |
| M-HE-1-1643 | 16 | 43 | 100 | 16 |
| M-HE-1-1645 | 16 | 45 | 100 | 16 |
| M-HE-1-1643(1) | 16 | 43 | 103 | 20 |
| M-HE-1-1625(1) | 16 | 25 | 110 | 20 |
| M-HE-1-1825 | 18 | 25 | 95 | 20 |
| M-HE-1-1835 | 18 | 35 | 105 | 20 |
| M-HE-1-1835(1) | 18 | 35 | 100 | 16 |
| M-HE-1-1845 | 18 | 45 | 100 | 16 |
| M-HE-1-1865 | 18 | 65 | 100 | 16 |
| M-HE-1-1843 | 18 | 43 | 115 | 20 |

Order Note

- To place an order, please refer to the Designation code.
- For the item which is not on the list pls contact our sales to get the quote.
- Avoid excessive impact: PCD material is relatively brittle and is prone to fracture or delamination.
- It is necessary to regularly clean and apply tool rust inhibitor to extend the tool life.

M-HE 2+2

Z2+2 PCD Wood Working Milling Cutter With HSS Shank Body PCD H2.5mm



- Strong wear resistance: PCD is an extremely hard material that is even harder than cemented carbide.
- High cutting efficiency: excellent thermal conductivity and low friction coefficient can reduce thermal deformation and tool adhesion during processing.
- High machining accuracy: the products produced have a good surface finish and are less prone to defects such as burrs and cracks.



| Order No. | D [mm] | FL [mm] | TL [mm] | SD [mm] |
|-----------------|--------|---------|---------|---------|
| M-HE-2-1025 | 10 | 25 | 75 | 12 |
| M-HE-2-1225 | 12 | 25 | 75 | 12 |
| M-HE-2-1230 | 12 | 30 | 80 | 12 |
| M-HE-2-1625 | 16 | 25 | 85 | 16 |
| M-HE-2-1630 | 16 | 30 | 90 | 16 |
| M-HE-2-1635 | 16 | 35 | 90 | 16 |
| M-HE-2-1638 | 16 | 38 | 90 | 16 |
| M-HE-2-1638 S25 | 16 | 38 | 100 | 25 |

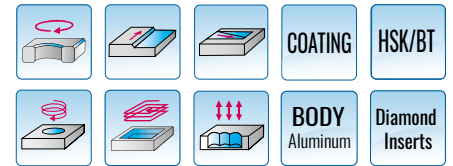
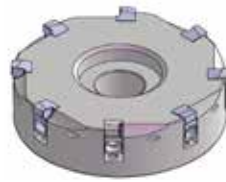
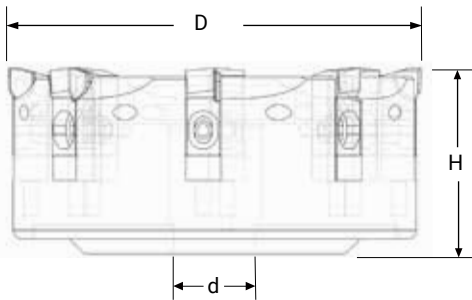
| Order No. | D [mm] | FL [mm] | TL [mm] | SD [mm] |
|-------------|--------|---------|---------|---------|
| M-HE-2-1838 | 18 | 38 | 90 | 16 |
| M-HE-2-2028 | 20 | 28 | 90 | 20 |
| M-HE-2-2035 | 20 | 35 | 105 | 20 |
| M-HE-2-2043 | 20 | 43 | 105 | 20 |
| M-HE-2-2030 | 20 | 30 | 100 | 25 |
| M-HE-2-2038 | 20 | 38 | 105 | 25 |
| M-HE-2-2535 | 25 | 35 | 110 | 25 |
| M-HE-2-2548 | 25 | 48 | 115 | 25 |

Order Note

- To place an order, please refer to the Designation code.
- For the item which is not on the list pls contact our sales to get the quote.
- Avoid excessive impact: PCD material is relatively brittle and is prone to fracture or delamination.
- It is necessary to regularly clean and apply tool rust inhibitor to extend the tool life.

M-SFT-90°

Adjustable Face Milling Cutter With Diamond Inserts



- Increased efficiency: The adjustable design allows for optimized cutting parameters.
- Enhanced surface finish: The adjustable inserts can be adjusted to provide a better surface finish.
- Easy maintenance: The ability to replace inserts simplifies maintenance and reduces downtime.

| | |
|----------------------------|-----------------------------|
| Applicable Inserts: | APKT / TCGT / TE / TEHW/ SE |
| Screw | M4*10 |
| Wrench | T15 |

| Order No. | D [mm] | d [mm] | H [mm] | Z FLUTES |
|----------------|--------|--------|--------|----------|
| SFT-63-22-4T | 63 | 22 | 60 | 4 |
| SFT-73-22-4T | 73 | 22 | 60 | 4 |
| SFT-81-22-4T | 81 | 22 | 60 | 4 |
| SFT-80-27-4T | 80 | 27 | 60 | 4 |
| SFT-90-27-4T | 90 | 27 | 60 | 4 |
| SFT-98-27-4T | 98 | 27 | 60 | 4 |
| SFT-100-32-6T | 100 | 32 | 60 | 6 |
| SFT-110-32-6T | 110 | 32 | 60 | 6 |
| SFT-118-32-6T | 118 | 32 | 60 | 6 |
| SFT-125-40-8T | 125 | 40 | 60 | 8 |
| SFT-135-40-8T | 135 | 40 | 60 | 8 |
| SFT-143-40-8T | 143 | 40 | 60 | 8 |
| SFT-160-40-10T | 160 | 40 | 60 | 10 |
| SFT-170-40-10T | 170 | 40 | 60 | 10 |
| SFT-178-40-10T | 178 | 40 | 60 | 10 |
| SFT-200-40-12T | 200 | 40 | 60 | 12 |
| SFT-210-40-12T | 210 | 40 | 60 | 12 |
| SFT-218-40-12T | 218 | 40 | 60 | 12 |
| SFT-250-40-12T | 250 | 40 | 60 | 12 |
| SFT-260-40-12T | 260 | 40 | 60 | 12 |

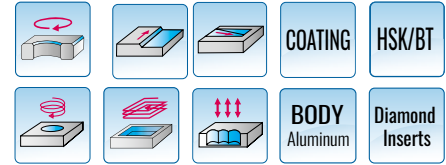
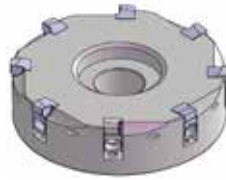
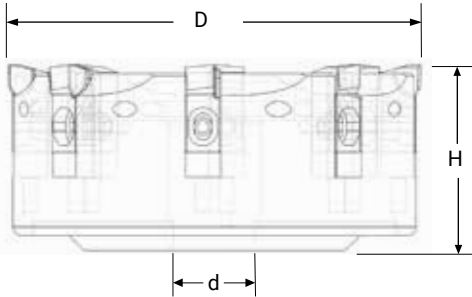
| Order No. | D [mm] | d [mm] | H [mm] | Z FLUTES |
|----------------|--------|--------|--------|----------|
| SFT-268-40-12T | 268 | 40 | 60 | 12 |
| SFT-320-40-20T | 320 | 40 | 60 | 20 |
| SFT-330-40-20T | 330 | 40 | 60 | 20 |
| SFT-335-40-20T | 335 | 40 | 60 | 20 |
| SFT-125-4T | 125 | 40 | 60 | 4 |
| SFT-135-4T | 135 | 40 | 60 | 4 |
| SFT-143-4T | 143 | 40 | 60 | 4 |
| SFT-160-4T | 160 | 40 | 60 | 4 |
| SFT-170-4T | 170 | 40 | 60 | 4 |
| SFT-178-4T | 178 | 40 | 60 | 4 |
| SFT-200-6T | 200 | 40 | 60 | 6 |
| SFT-210-6T | 210 | 40 | 60 | 6 |
| SFT-218-6T | 218 | 40 | 60 | 6 |
| SFT-250-6T | 250 | 40 | 60 | 6 |
| SFT-260-6T | 260 | 40 | 60 | 6 |
| SFT-278-6T | 278 | 40 | 60 | 6 |
| SFT-320-6T | 320 | 40 | 60 | 6 |
| SFT-330-6T | 330 | 40 | 60 | 6 |
| SFT-338-6T | 338 | 40 | 60 | 6 |

Order Note

- To place an order, please refer to the Designation code.
- For the item which is not on the list pls contact our sales to get the quote.
- Diamond Inserts are not included in the offer.
- Different processing materials and processing forms need to choose different types of cutting tools, cutting edge shapes.

M-SFT-45°

Adjustable Face Milling Cutter With Diamond Inserts



- Increased efficiency: The adjustable design allows for optimized cutting parameters.
- Enhanced surface finish: The adjustable inserts can be adjusted to provide a better surface finish.
- Easy maintenance: The ability to replace inserts simplifies maintenance and reduces downtime.

| | |
|----------------------------|-----------------------------|
| Applicable Inserts: | APKT / TCGT / TE / TEHW/ SE |
| Screw | M4*10 |
| Wrench | T15 |

| Order No. | D [mm] | d [mm] | H [mm] | Z FLUTES |
|------------------|--------|--------|--------|----------|
| SFT12-63-22-4T | 63 | 22 | 60 | 4 |
| SFT12-73-22-4T | 73 | 22 | 60 | 4 |
| SFT12-81-22-4T | 81 | 22 | 60 | 4 |
| SFT12-80-27-4T | 80 | 27 | 60 | 4 |
| SFT12-90-27-4T | 90 | 27 | 60 | 4 |
| SFT12-98-27-4T | 98 | 27 | 60 | 4 |
| SFT12-100-32-6T | 100 | 32 | 60 | 6 |
| SFT12-110-32-6T | 110 | 32 | 60 | 6 |
| SFT12-118-32-6T | 118 | 32 | 60 | 6 |
| SFT12-125-40-8T | 125 | 40 | 60 | 8 |
| SFT12-135-40-8T | 135 | 40 | 60 | 8 |
| SFT12-143-40-8T | 143 | 40 | 60 | 8 |
| SFT12-160-40-10T | 160 | 40 | 60 | 10 |
| SFT12-170-40-10T | 170 | 40 | 60 | 10 |
| SFT12-178-40-10T | 178 | 40 | 60 | 10 |
| SFT12-200-40-12T | 200 | 40 | 60 | 12 |
| SFT12-210-40-12T | 210 | 40 | 60 | 12 |
| SFT12-218-40-12T | 218 | 40 | 60 | 12 |
| SFT12-250-40-12T | 250 | 40 | 60 | 12 |
| SFT12-260-40-12T | 260 | 40 | 60 | 12 |

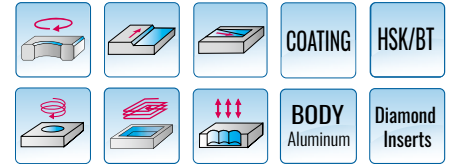
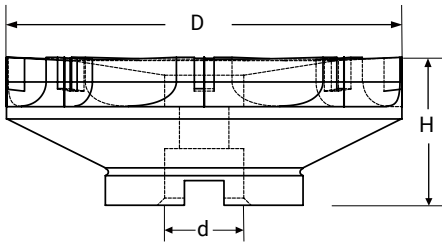
| Order No. | D [mm] | d [mm] | H [mm] | Z FLUTES |
|------------------|--------|--------|--------|----------|
| SFT12-268-40-12T | 268 | 40 | 60 | 12 |
| SFT12-320-40-20T | 320 | 40 | 60 | 20 |
| SFT12-330-40-20T | 330 | 40 | 60 | 20 |
| SFT12-338-40-20T | 338 | 40 | 60 | 20 |
| SFT125-4T | 125 | 40 | 60 | 4 |
| SFT135-4T | 135 | 40 | 60 | 4 |
| SFT143-4T | 143 | 40 | 60 | 4 |
| SFT160-4T | 160 | 40 | 60 | 4 |
| SFT170-4T | 170 | 40 | 60 | 4 |
| SFT178-4T | 178 | 40 | 60 | 4 |
| SFT200-6T | 200 | 40 | 60 | 6 |
| SFT210-6T | 210 | 40 | 60 | 6 |
| SFT218-6T | 218 | 40 | 60 | 6 |
| SFT250-6T | 250 | 40 | 60 | 6 |
| SFT260-6T | 260 | 40 | 60 | 6 |
| SFT278-6T | 278 | 40 | 60 | 6 |
| SFT320-6T | 320 | 40 | 60 | 6 |
| SFT330-6T | 330 | 40 | 60 | 6 |
| SFT338-6T | 338 | 40 | 60 | 6 |

Order Note

- To place an order, please refer to the Designation code.
- For the item which is not on the list pls contact our sales to get the quote.
- Diamond Inserts are not included in the offer.
- Different processing materials and processing forms need to choose different types of cutting tools, cutting edge shapes.

M-SF-400R

Fixed Face Milling Cutter with Diamond Inserts



- Face mills often have a larger diameter than the width of the workpiece being faced, so that the surface can be processed in one pass.
- Simplicity: The fixed design makes them easier to use and maintain, as there is no need to adjust or change inserts or cartridges.

| | |
|----------------------------|-------|
| Applicable Inserts: | APKT |
| Screw | M4*10 |
| Wrench | T15 |

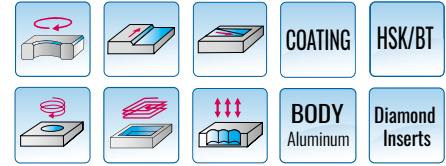
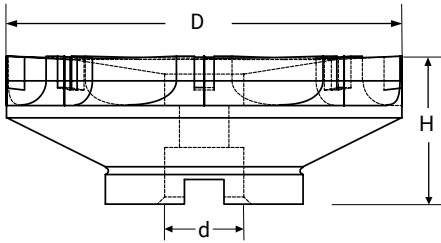
| Order No. | D [mm] | d [mm] | Height [mm] | Z FLUTES |
|--------------------|--------|--------|-------------|----------|
| SF 400R 40-22-4T | 40 | 22 | 40 | 4 |
| SF 400R 50-22-4T | 50 | 22 | 45 | 4 |
| SF 400R 63-22-4T | 63 | 22 | 50 | 4 |
| SF 400R 80-22-6T | 80 | 22 | 50 | 6 |
| SF 400R 80-27-6T | 80 | 27 | 50 | 6 |
| SF 400R 100-22-6T | 100 | 22 | 50 | 6 |
| SF 400R 100-27-6T | 100 | 27 | 50 | 6 |
| SF 400R 100-32-6T | 100 | 32 | 50 | 6 |
| SF 400R 125-27-7T | 125 | 27 | 54 | 7 |
| SF 400R 125-32-7T | 125 | 32 | 60 | 7 |
| SF 400R 125-40-7T | 125 | 40 | 60 | 7 |
| SF 400R 160-27-8T | 160 | 27 | 60 | 8 |
| SF 400R 160-32-8T | 160 | 32 | 60 | 8 |
| SF 400R 160-40-8T | 160 | 40 | 63 | 8 |
| SF 400R 200-32-10T | 200 | 32 | 60 | 10 |
| SF 400R 200-40-10T | 200 | 40 | 63 | 10 |
| SF 400R 250-40-12T | 250 | 40 | 69 | 12 |

Order Note

- To place an order, please refer to the Designation code.
- For the item which is not on the list pls contact our sales to get the quote.
- Diamond Inserts are not included in the offer.
- Different processing materials and processing forms need to choose different types of cutting tools, cutting edge shapes.

M-SF-12

Fixed Face Milling Cutter with Diamond Inserts



- Face mills often have a larger diameter than the width of the workpiece being faced, so that the surface can be processed in one pass.
- Simplicity: The fixed design makes them easier to use and maintain, as there is no need to adjust or change inserts or cartridges.

| | |
|----------------------------|-------|
| Applicable Inserts: | APKT |
| Screw | M4*10 |
| Wrench | T15 |

| Order No. | D [mm] | d [mm] | Height [mm] | Z FLUTES |
|-----------------|-----------|-----------|----------------|-------------|
| SF12 40-22-4T | 40 | 22 | 40 | 4 |
| SF12 50-22-4T | 50 | 22 | 45 | 4 |
| SF12 63-22-4T | 63 | 22 | 50 | 4 |
| SF12 80-22-6T | 80 | 22 | 50 | 6 |
| SF12 80-27-6T | 80 | 27 | 50 | 6 |
| SF12 100-22-6T | 100 | 22 | 50 | 6 |
| SF12 100-27-6T | 100 | 27 | 50 | 6 |
| SF12 100-32-6T | 100 | 32 | 50 | 6 |
| SF12 125-27-7T | 125 | 27 | 54 | 7 |
| SF12 125-32-7T | 125 | 32 | 60 | 7 |
| SF12 125-40-7T | 125 | 40 | 60 | 7 |
| SF12 160-27-8T | 160 | 27 | 60 | 8 |
| SF12 160-32-8T | 160 | 32 | 60 | 8 |
| SF12 160-40-8T | 160 | 40 | 63 | 8 |
| SF12 200-32-10T | 200 | 32 | 60 | 10 |
| SF12 200-40-10T | 200 | 40 | 63 | 10 |
| SF12 250-40-12T | 250 | 40 | 69 | 12 |

Order Note

- To place an order, please refer to the Designation code.
- For the item which is not on the list pls contact our sales to get the quote.
- Diamond Inserts are not included in the offer.
- Different processing materials and processing forms need to choose different types of cutting tools, cutting edge shapes.



1. PCD Tip Milling Tools With HSK/BT Shank

- Precision PCD milling cutter for ADC 12 aluminum, ideal for engine blocks and cylinder head surfaces.
- Innovative cutting-edge design reduces vibrations, leading to smoother operations and improved workpiece quality.
- Exceptional durability, promoting long-lasting performance and customer satisfaction.

| | |
|--------------------|---|
| Application | Face Milling , Shoulder Milling |
| Workpiece Material | Cast Aluminum, Aluminum-Silicon Alloy, Aluminum |
| Tolerance | 0.01-0.02mm |



2. PCD Corn Cob End Mill With BT/HSK Shank

- Staggered-tooth PCD cutter, BT/HSK shank, and coolant for efficient roughing and material removal.
- Extended edges, large depths, and axial spiral ensure reduced resistance and higher productivity.
- Overlapping connections protect surfaces, with customizable profiles for precision and versatility.

| | |
|--------------------|---|
| Process | Roughing, Slot Milling, Side Milling, and Profile Milling |
| Suitable Materials | Aluminum, Graphite, Cast Aluminum, Carbon Fiber, etc |
| Customizable | Yes |



3. PCD Custom-made Milling Cutter

- PCD custom-made milling cutter offers superior helix angle and end face clearance for precise, efficient cutting.
- Unified cutting edge enhances stability and performance in the spherical bottom holes and complex contour machining.
- Excelling with graphite, high-hardness composites, and pre-sintered ceramics, ensuring reduced tool changes and improved productivity.

| | |
|--------------------|---|
| Process | Ball Socket Forming, Profile Milling |
| Suitable Materials | Graphite, High-Hardness Composites, Pre-Sintered Ceramics |
| Specifications | D3-D10 |
| Customizable | Yes |

Order Note

- Customized PCD milling cutters for non-standard applications.
- Contact us to discuss your specific requirements.
- Flexible and tailored solutions to meet your unique needs.



4. PCD Tipped T-slot

- Customizable PCD T-slot cutter with 2, 4, 6, or 8 teeth, tailored to individual client requirements for groove processing.
- Versatile tooth profile options, ideal for internal slot machining, with alloy or high-speed steel shank options.
- Perfect for machining aluminum and cast aluminum, ensuring precision and efficiency in various applications.

| | |
|--------------------|---|
| Application | Internal and External Slot Milling, Form Milling |
| Suitable Materials | Aluminum, Aluminum-Silicon Alloy, Copper, Graphite, and other non-ferrous materials |
| Tolerance | 0.005-0.01mm |



5. Customizable PCD T-slot Milling Cutter

- Customizable PCD T-slot cutter with long cutting edge and axial helix angle for efficient slot milling.
- Unique tooth design prevents scratching and damage and internal cooling optimizes chip evacuation and tool life.
- Tailored contour profile, ideal for roughing and heavy-duty cutting, providing high precision and consistency.

| | |
|--------------------|---|
| Application | Internal and External Slot Milling, Form Milling |
| Suitable Materials | Aluminum, Aluminum-Silicon Alloy, Copper, Graphite, and other non-ferrous materials |
| Tolerance | 0.005-0.01mm |



6. PCD Thread Milling Cutter

- Customizable PCD thread milling cutter for tough materials and fast-wearing carbide.
- Exceptional wear resistance and consistent thread shape for smooth, efficient cutting.
- Precision-engineered with solid PCD welding to produce sharp, accurate threads.

| | |
|--------------------|--------------------------------------|
| Application | Thread Milling |
| Suitable Materials | Graphite, Pre-Sintered Ceramics, Sic |
| Tolerance | 0.005-0.01mm |

Order Note

- Customized PCD milling cutters for non-standard applications.
- Contact us to discuss your specific requirements.
- Flexible and tailored solutions to meet your unique needs.