

Solid carbide drills and end mills Innovations 2023



OptiMill®-Inox-HPC

Highly productive machining of stainless steel

The OptiMill-Inox-HPC four-edge shoulder milling cutter is a versatile tool. The end milling cutter made of solid carbide can be used for roughing as well as finishing. The special cutting edge preparation creates optimal surfaces.



Features

Dimensions:

- Number of cutting edges: 4
- Shank form: HB
- Preferred series in stock:

- ø range: 3 mm to 20 mm

Available on request:

- Diameter: 14 mm and 18 mm

Configurable features:

- Shank form: HA

Tool life [m]



OptiMill[®]-Tro-Inox

Highly Productive Milling in Stainless Steel

The OptiMill-Tro-Inox impresses through an optimal ratio between the number of cutting edges, chip breakers and a new type of flute shape. The modern multilayer coating is another key advantage of the six-flute solid carbide trochoidal milling cutter. This counteracts adhesive wear and, combined with the carbide matched to the application, ensures optimum results.



Features

Dimensions:

- Number of cutting edges: 6
- Shank form: HB
- Design: 2xD to 5xD

Preferred series in stock:

- ø range: 4 mm to 20 mm

Available on request:

- Diameter: 14 mm, 18 mm and 25 mm

Configurable features:

- Shank form: HA

Maximum cutting volume up to end of tool life [I]



OptiMill®-Titan-HPC

Versatile roughing and finishing

The OptiMill-Titan-HPC four-edge shoulder milling cutter is a versatile tool. The end milling cutter made of solid carbide can be used for roughing as well as finishing. The special cutting edge preparation creates optimal surfaces.



Features

Dimensions:

- Number of cutting edges: 4
- Shank form: HB
- Long design with neck

Preferred series in stock:

- ø range: 6 mm to 25 mm

Available on request:

- Various corner radius designs

Configurable features:

- Shank form: HA

Tool life [m]



OptiMill®-Tro-Titan

Five-edge trochoidal milling cutter for milling titanium workpiece material

The five-edge shoulder milling cutter OptiMill-Tro-Titan offers maximum material removal rate while providing an excellent surface finish at the same time. The unequal spacing and gradient prevents vibration, which results in quiet cutting behaviour. It is designed for trochoidal milling in part-contact cutting, trimming and for cutting depths up to 3xD.



Features

Dimensions:

- Number of cutting edges: 5
- Shank form: HB
- Design: 3xD

Preferred series in stock:

- ø range: 6 mm to 20 mm

Available on request:

- Diameter: 5 mm,14 mm, 18 mm and 25 mm

Configurable features:

- Shank form: HA

Cutting volumes [dm³] *



MEGA-Speed-Drill-Titan

Cost-efficient and productive

The double edge high-speed drill is equipped with four margin lands for optimum roundness. To bring the maximum coolant flow to the main cutting edge, the coolant is directed backwards along the shell surface. In this way, the margin lands experience maximum cooling, dissipating the generated heat effectively. The convex main cutting edge ensures high stability and long tool life.



Features

Dimensions:

- Number of cutting edges: 2
- Shank form: HA
- 5xD with internal coolant

Preferred series in stock:

- ø range: 3 mm to 16 mm

Configurable features:

- ø range: 3 mm to 20 mm
- Shank form: HB, HE

Tool life [m]



Tritan-Drill-Alu

The high-feed drilling specialist for aluminium applications

MILLER has developed the Tritan-Drill-Alu especially for the high-feed machining of aluminium. The solid carbide drill with three cutting edges has a matched, precision-ground groove profile. Large chip spaces and a special, sharp cutting-edge finish guarantee optimum chip formation, reduce heat build-up and ensure reliable chip removal.



Features

Dimensions:

- Number of cutting edges: 3
- Shank form: HA
- 5xD with internal coolant

Preferred series in stock:

- ø range: 4 mm to 16 mm

Configurable features:

- ø range: 4 mm to 20 mm
- Shank form: HB, HE
- Coating: DLC coating

Processing time in AlSi1MgMn [Sec.]





Your specialist for solid carbide drills and end mills

Solid carbide drills for steel, aluminium, stainless steel and hardened materials

High performance drills with more cutting edges and additional guiding chamfers

Replaceable head drill TTD

Solid carbide end mill range for steel, aluminium, stainless steel and hardened materials

High performance end mills for high machining volumes

Tool product line for machining modern materials and super alloys



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