

# Auto Tools



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## Industries Utilizing Auto Tools



### Medical & Dental

The field that requires a highest precision and high added value. Using biocompatible materials such as titanium and stainless steel, it processes fine threads and complex shapes.

Representative  
components

Dental implant fixtures, abutments, bone screws for osteosynthesis, and surgical instrument parts



### Automotive

Both electric vehicles and internal combustion engine vehicles require precise sensors and hydraulic control components. These parts demand mass production capabilities with high repeatability and precision.

Representative  
components

Injector parts, valve pistons for ABS systems, various sensor housings, and fine shafts for engines and transmissions



### Aerospace & Defense

Parts centered on heat-resistant alloy machining and guaranteed durability in extreme environments.

Representative  
components

Aircraft hydraulic system fittings, ultra-precision fasteners, gyroscope parts, and miniature actuator shafts



### Electronics & Connectors

Manufacturing key connectors that are used in miniaturized mobile devices and communication equipment.

Representative  
components

Connector pins for 5G/6G communications, probe pins, fine shafts for smartphone camera modules, and switch toggles



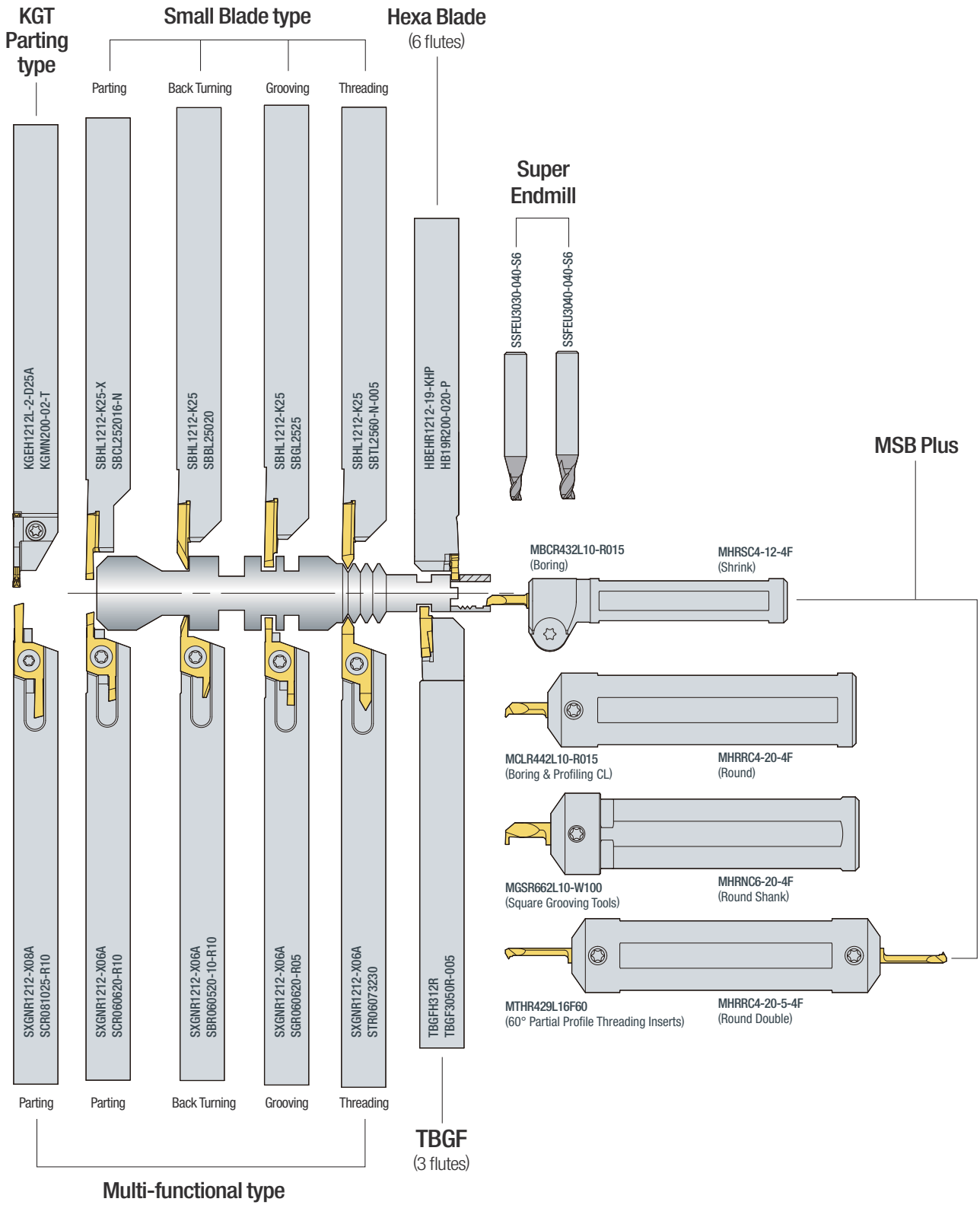
## Automatic Lathe Equipment Overview



The Swiss Type Lathe is a high-precision, high-efficiency machine optimized for mass production of small parts. Its most distinctive features are the sliding headstock and guide bushing structure.

This high-precision automatic machining equipment is characterized by the sliding headstock and guide bushing design. Originally developed to manufacture Swiss watch components with high precision, it is now widely used for mass production of small, precise, and complex-shaped parts in the medical, aerospace, automotive, and electronics industries.

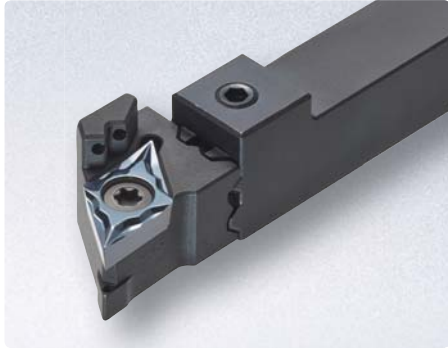






## Features

### Modular Adapter



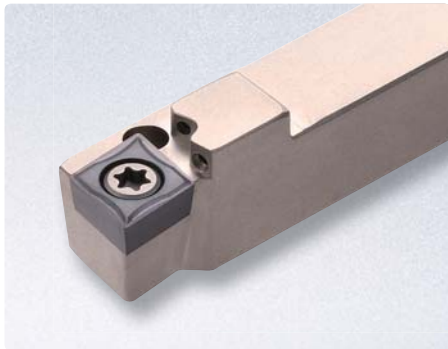
- Quick change head holders for automatic lathes, AGM and APM series
- Excellent repeatability in head changes, enabling reduced tool change time
- Robust clamping system and internal coolant supply for superior machining quality
- Application of various heads on a single shank, maximizing work efficiency and allowing mass production of diverse products

### ISO type(FS/MS)



- Precision R shape using minus tolerance for the nose radius
- Tolerance grade requiring no tool adjustment due to accurate cutting edge height
- Sharp cutting edge for excellent chip control and surface finish with low cutting forces
- High-precision tools for electrical, electronic, and medical devices

### KHP Coolant Holder



- High-pressure coolant holder for high-quality, high-productivity precision parts in automatic lathes
- Double coolant spray structure enhancing cooling performance and chip evacuation
- Quick adapter for easy attachment and detachment, improving productivity

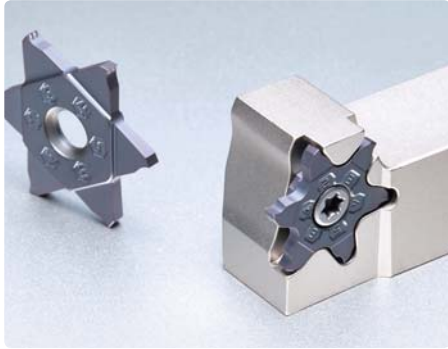
### Small Blade



- Various outer diameter machining for high-precision small parts
- Four types of inserts: SBB (back-turning), SBG (grooving), SBT (threading), SBC (cutting-off)
- All inserts applicable on a single holder for high convenience



## Hexa Blade 19



- Precision grade 6-corner grooving/cutting tool with high cost efficiency
- Excellent dimensional accuracy between corners ensured by precision manufacturing technology, guaranteeing uniform machining quality
- Robust clamping system with wide clamping surface and three-sided constraint, providing high machining stability
- Sharp cutting edge for outstanding surface finish

## Multi-functional type



- For outer diameter machining of small precision parts
- Five insert types: SB(back-turning), SG(grooving), ST(threading), SC(cutting-off), SGB(grooving & back)
- All inserts applicable on a single holder for convenience
- ISO type holders, all sizes with zero offset

## KGT



- Dedicated holders for automatic lathes
- Cost-effective due to use of double-edged inserts
- Stable machining and precision ensured by robust clamping system
- Chip breaker selection adapted to various cutting conditions, from low to high feed rates and continuous to intermittent cutting

## MGT Plus



- Versatile 2-corner grooving, cutting, and turning tool
- Various chip breakers with excellent chip evacuation
- Uniform cutting edge preparation enhancing tool life and workpiece surface finish



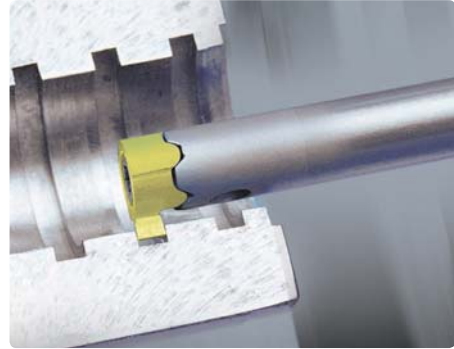
## Features

### MSB Plus



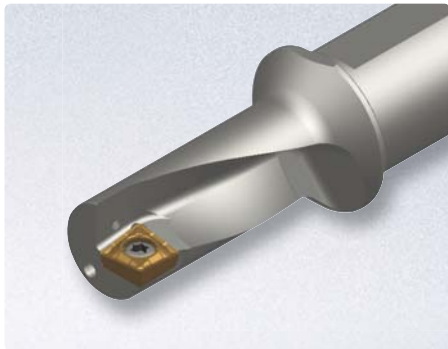
- Premium solid boring tool applicable to various machining areas including boring, grooving, and threading
- Internal coolant enabling stable machining even in small-diameter boring
- Improved clamping method enhancing precision and work efficiency

### New Fine Tools



- Insert shape suitable for small-diameter machining with high-rigidity clamping structure
- Compatibility of six types of inserts mounted on a single Type-1 holder, enabling versatile machining
- Optimal tool life ensured by various combinations of carbide grades and thin-film coatings
- High-precision machining realized using precision ground inserts

### Multi Turn



- Indexable drill for lathe
- Design based on FEM analysis to minimize stress concentration and suppress vibration and breakage
- Double coolant and optimized flute geometry for smooth chip evacuation and extended tool life
- Innovative stepped cutting edge reducing cutting resistance and ensuring stable machining quality

### W-Star Drill



- Versatile carbide drill stably applicable to various workpiece materials
- Optimized design for smooth chip evacuation and excellent cooling efficiency
- High wear-resistant coating applied for long tool life and stable machining performance



### Super Endmill for HD



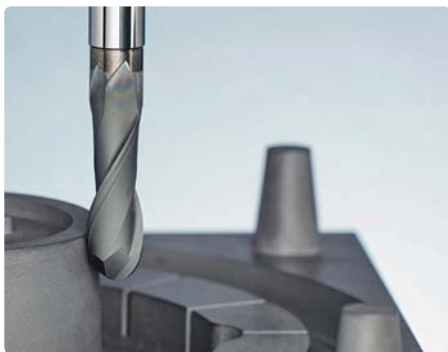
- High-efficiency, medium cutting machining for materials with H<sub>r</sub>C 52 or less
- Application of new UE coating (AlCrN-based) providing excellent tool life across various materials
- Optimized design balancing rigidity and chip evacuation for high-efficiency, medium cutting machining

### T Endmill



- End mill optimized for dental prosthetic materials such as zirconia, titanium, Co-Cr alloy, and PMMA
- Exceptional cutting performance achieved through optimized grades and dedicated geometries for each material
- Improved wear resistance and surface finish thanks to precise cutting edge and ball shape design

### D Endmill



- Robust cutting geometry and high-quality diamond coating providing excellent wear life and stability
- One-pass machining method applied, delivering superior surface finish and tool strength
- Available in 2-flute and 4-flute options
- Optimized center-marker geometry for precise point formation and excellent performance on high-hardness materials

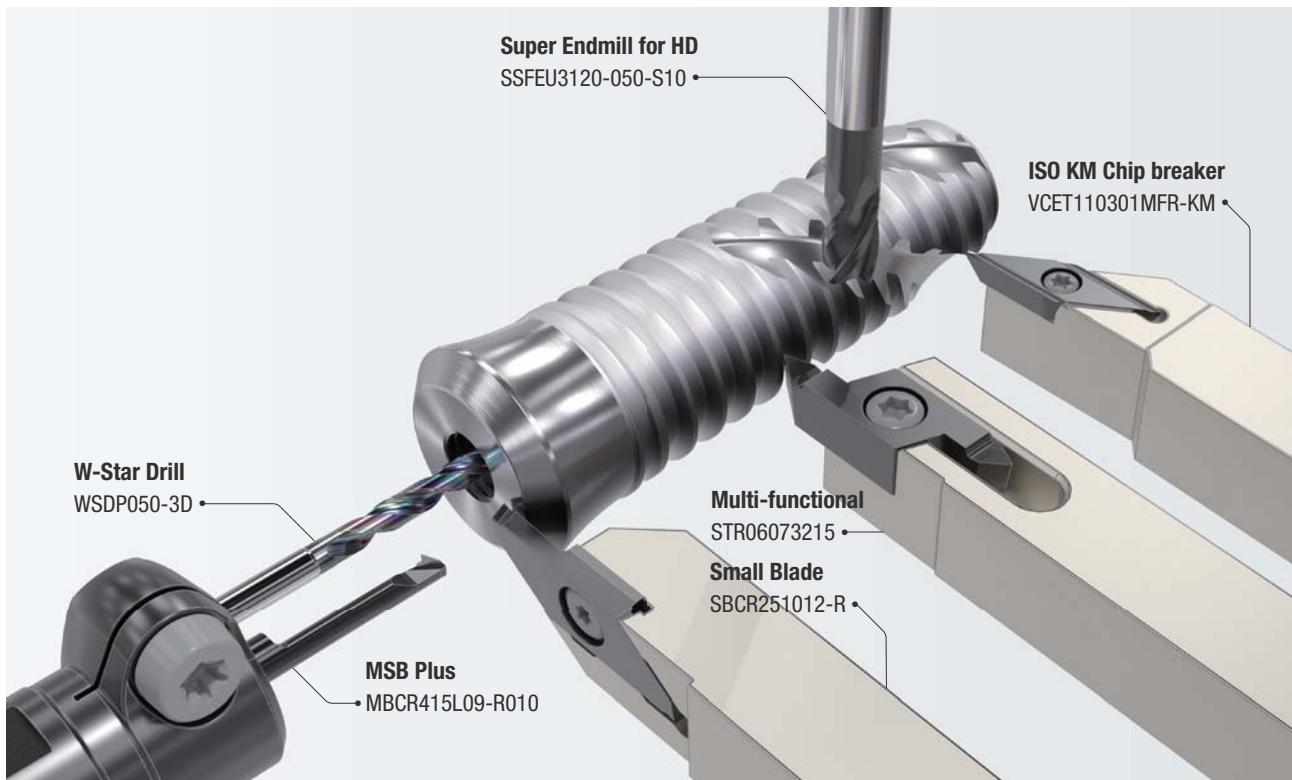
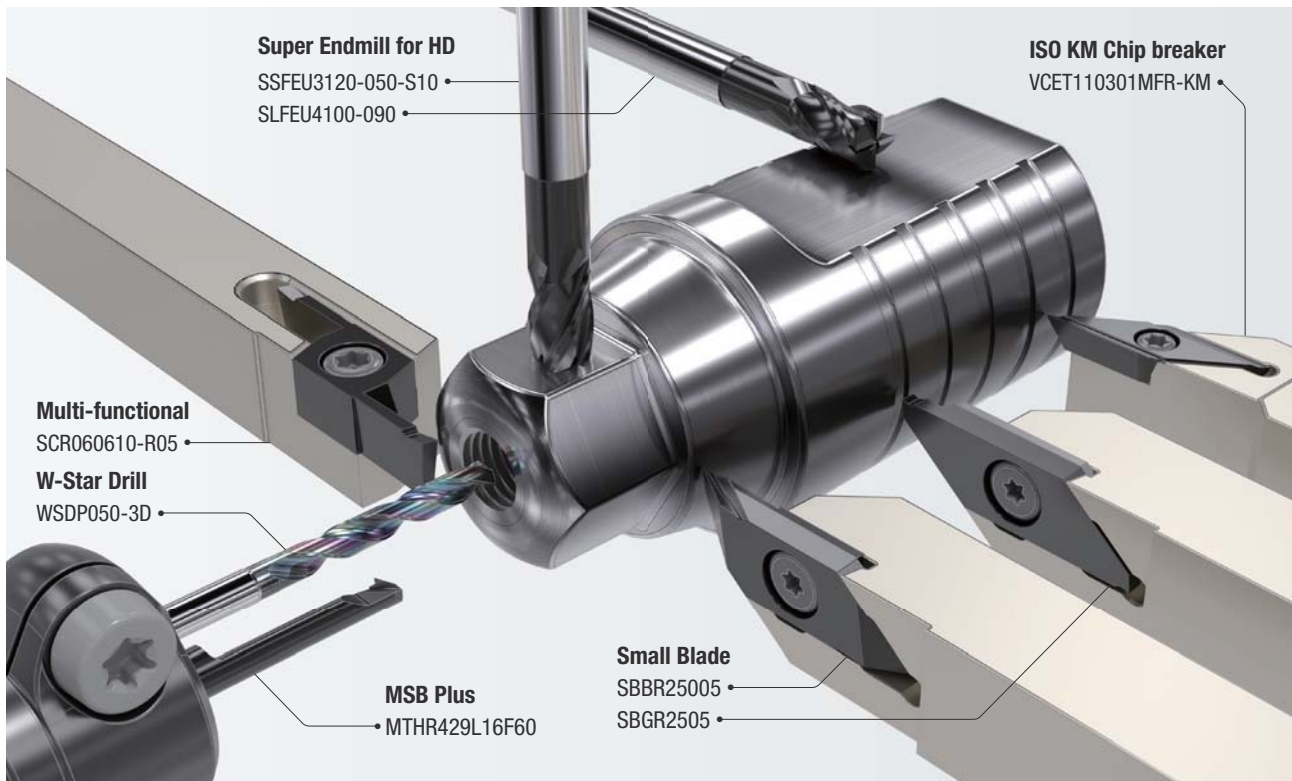
### Tap-Star



- Tap-Star with high toughness high-speed steel and optimized geometry design enhancing chipping resistance and machining performance for various workpiece materials
- TiAlN coating applied for improved wear resistance and heat resistance, enabling stable threading
- Optimized geometry improving chip evacuation and increasing machining reliability



## Recommended Cutting Tools



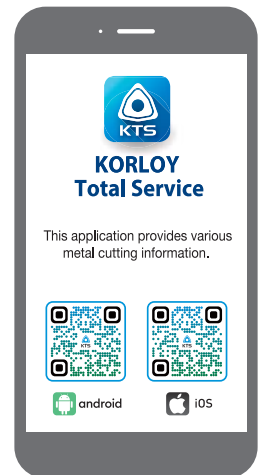
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## ⚠ For the safe metalcutting

- Use safety supplies such as protective gloves to prevent possible injury while touching the edge of tools.
- Use safety glasses or safety cover to hedge possible dangers. Inappropriate usage or excessive cutting condition may lead tool's breakage or even the fragment's scattering.
- Clamp the workpiece tightly enough to prevent its movement while its machining.
- Properly manage the tool change phase because the inordinately used tool can be easily broken under the excessive cutting load or severe wear, and it may threat the operator's safety.
- Use safety cover because chips evacuated during cutting are hot and sharp and may cause burns and cuts. To remove chips safely, stop machining, put on protective gloves, and use a hook or other tools.
- Prepare for fire prevention measures as the use of the non-water soluble cutting oil may cause fire.
- Use safety cover and other safety supplies because the spare parts or the tools can be pulled out due to centrifugal force while high speed machining.



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