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Aerospace industry tooling solutions



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Company Profile

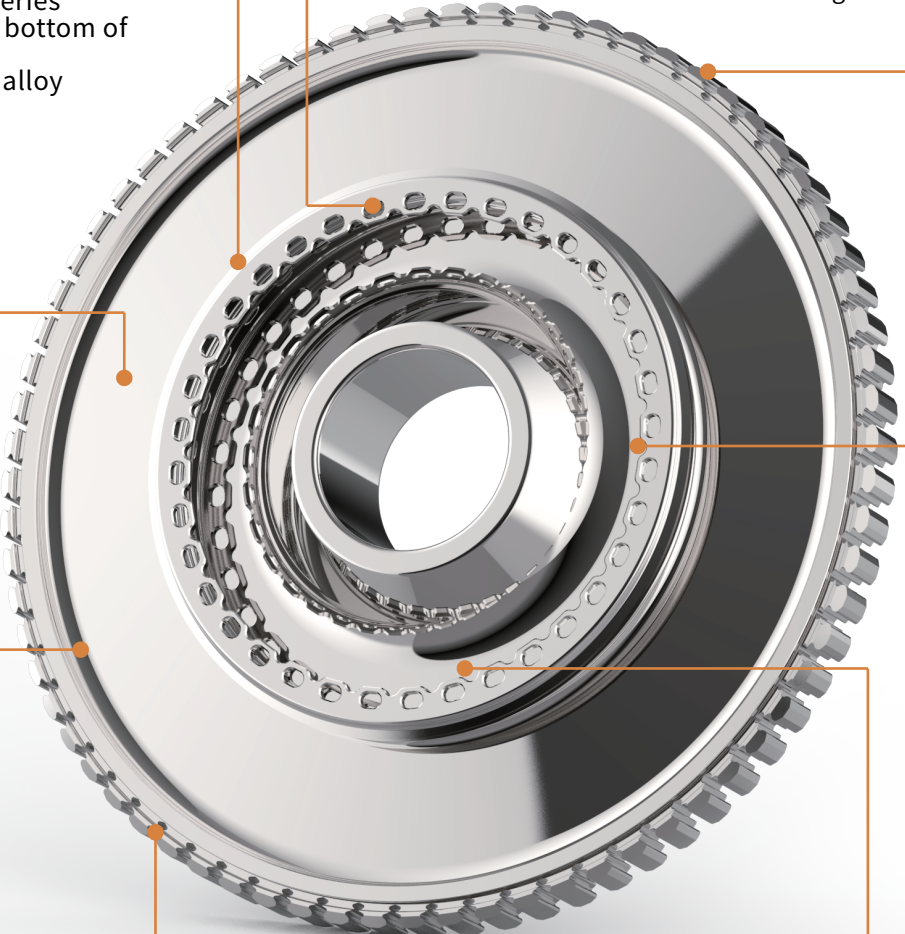
Ganzhou Achteck Tool Technology Co., Ltd. is a wholly-owned subsidiary of Chongyi Zhangyuan Tungsten Co., Ltd. (Listed Company with stock code 002378). The registered capital of Achteck is 1.66 billion USD with 800 employees. The main products include: Coated Carbide Inserts, Carbide Rod and supporting tool holders. Achteck is known for its outstanding R&D competence, production & testing equipment and its coated carbide insert production technology. Achteck produces inserts for Turning, Grooving, Milling and Drilling that are widely applied in automotive, energy, die & mold, general machinery, aerospace and other industries. Achteck Tool is technology oriented, owns a strong research team that keeps on innovating. Having "Benefits from Resources, Reliance on Technologies, Devotion to Humanity and Top with Trust" as the operating philosophy and "Safety, Harmony, Efficiency and Innovation" as the target, Achteck aims to become a well-known brand in the world and a first-class cemented carbide manufacturer in China.



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• Turbine disc
Material: Superalloy



Application: External Grooving
Solution: Achteck external grooving series

- V-shaped positioning design at the bottom of insert provided reliable clamping
- The tool holder used high strength alloy steel, with longer tool life
- High pressure internal coolant tool holder is available for the most difficult-to-machine materials

Application: Internal turning and grooving
Solution: Internal grooving shank with high pressure internal cooling

- Special high rigidity inserts for narrow grooving
- Precision ground insert, equipped with high pressure internal cooling plate
- AP130S the first choice for semi-finishing and finishing

Application: High-productivity turning for superalloy
Solution: Achteck HPC turning toolholder series

Application: Face grooving
Solution: Achteck face grooving series

- V-shaped positioning design at the bottom of insert provided reliable clamping
- The tool holder used high strength alloy steel, with longer tool life
- High pressure internal coolant tool holder is available for the most difficult-to-machine materials

Application: Weight reduction slot turning
Solution: Achteck custom grooving tools

- Stocked semi-finished blanks for fast delivery
- Precision-ground cutting edges with high dimensional accuracy
- Grade and coating optimized for superalloys

Application: Dovetail slot milling
Solution: Achteck custom milling cutter

- Complete integrated solution from roughing to finishing
- Profile accuracy guaranteed by high-precision multi-axis grinding
- Multiple substrate & coating options for various difficult-to-machine materials

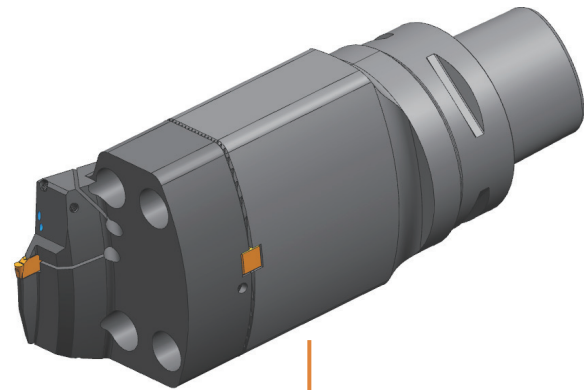
Application: Boss hole drilling
Solution: Achteck D106 series solid drill with internal-cooling

- Composite nano-coating, extremely high wear resistance and toughness
- 3D, 5D available

Application: Profile milling
Solution: Achteck M160 series solid end mill

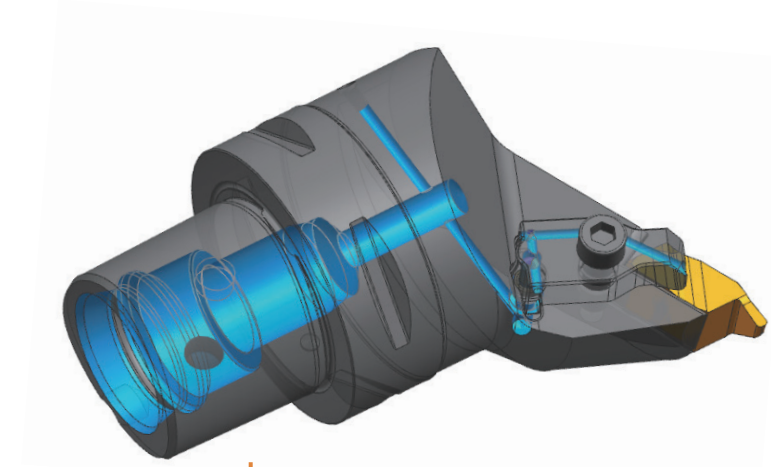
- Suitable for ISO material groups P, M & S
- Capable of side milling, slotting, cavity milling, helical interpolation milling and dynamic milling

- Disc and ring parts
Material: Heat resistant alloy



Application: Face turning and grooving disc and ring parts
Solution: Modular face grooving shank with high pressure internal cooling

- The enhanced groove insert for better clamping
- Precision ground insert with good profile
- 1st grade choice AP130S for semi-finishing, finishing

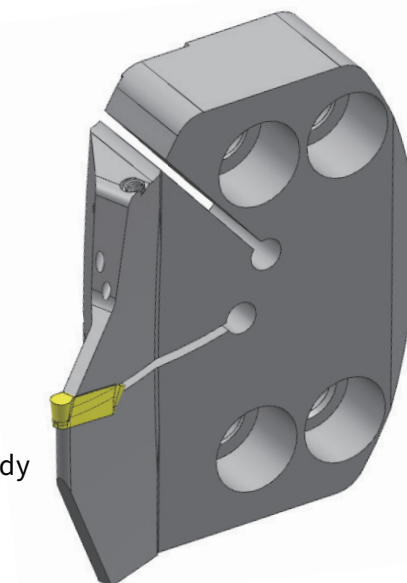


Application: Internal turning and grooving disc and ring parts
Solution: Internal grooving shank with high pressure internal cooling

- Special high rigidity insert for narrow grooving
- Precision ground insert, equipped with high pressure internal cooling plate
- 1st grade choice AP130S for semi-finishing, finishing

Application: External turning disc and ring parts
Solution: Modular face grooving shank with high pressure internal cooling

- The enhanced grooving insert for better clamping
- High hardness tool to enhance the rigidity of the tool body
- Precision ground insert with good profile
- 1st grade choice AP130S for semi-finishing, finishing



- Landing gear master cylinder
Material: Heat resistant alloy or Titanium alloy



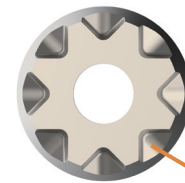
Application: Master cylinder deep hole drilling
Solution: Achteck deep hole drilling series

- Diameter range: D25-D65 mm
- With grade AP403S for difficult-to-machine materials
- The insert grade covers ISO P, M, S materials

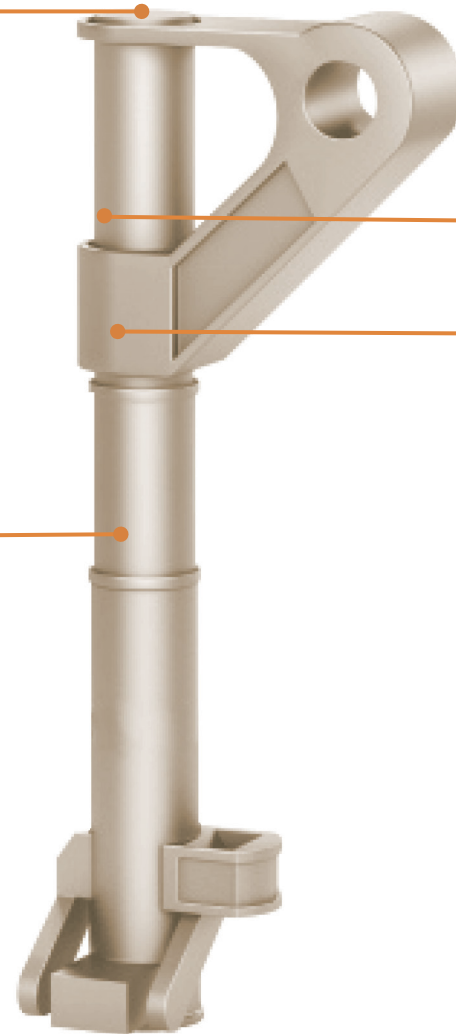


Application: 5-axis profile milling
Solution: Achteck profile milling cutter APM00-RO10/12/16

- Round inserts with anti-rotation slots
- With grade AP403M and AP403S for difficult-to-machine materials

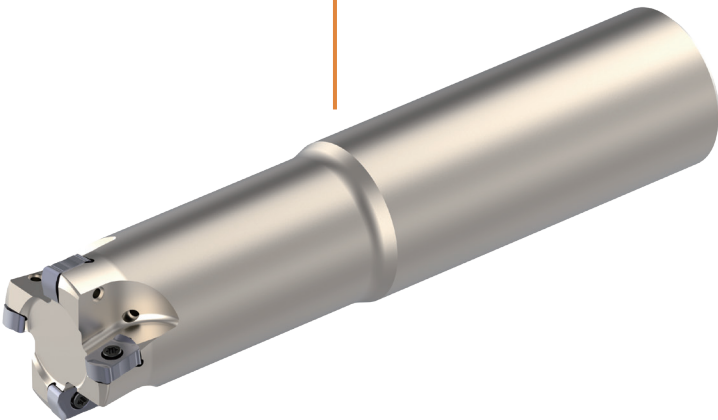


Anti-rotation slot



Application: Transition round corner rough and semi-finish machining
Solution: Achteck ballnose milling cutter APM00-RPM08/10

- The bottom of the insert has an anti-rotation slot to avoid under or over cutting
- Universal geometry with spiral cutting edge design provides low cutting forces
- Peripheral and center cutting edges



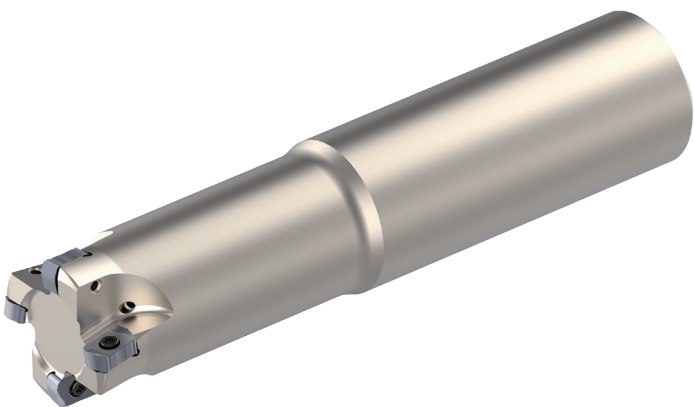
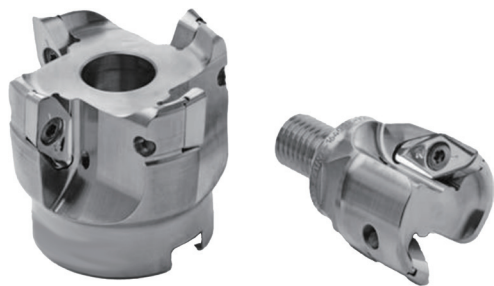
Application: semi-finish
Solution: Achteck LN06 high feed mill

- 20° lead angle
- Negative double-sided insert with 4 usable cutting edges
- Rectangular insert design provides stable and secure clamping

• Structural part of wings
Material: Titanium alloy/
Aluminium alloy

Application: Milling
Solution: Achteck efficient machining

- High precision dimensions
- Special insert positioning method
- In the face milling and pocket milling of aluminum alloy structural parts, it provides efficient machining solutions



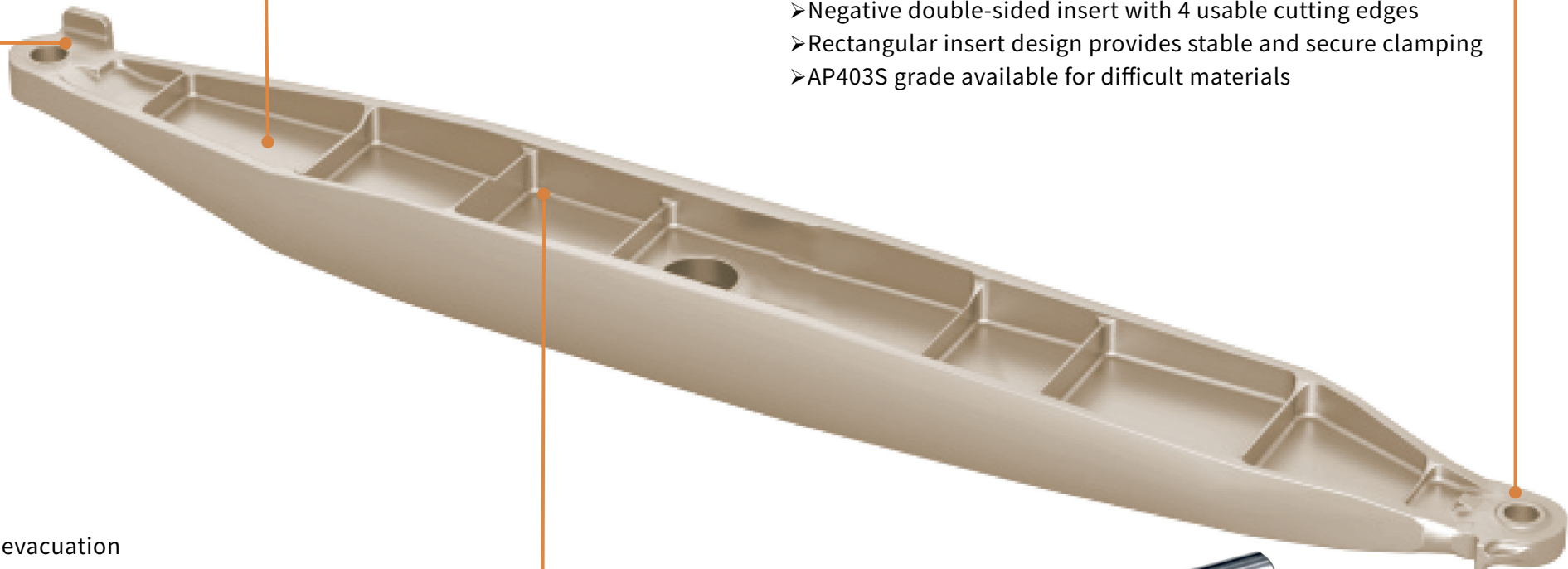
Application: Roughing
Solution: High feed milling

- 20° lead angle, Minimum diameter 16mm cutter
- Negative double-sided insert with 4 usable cutting edges
- Rectangular insert design provides stable and secure clamping
- AP403S grade available for difficult materials



Application: Hole drilling
Solution: Achteck short hole drills

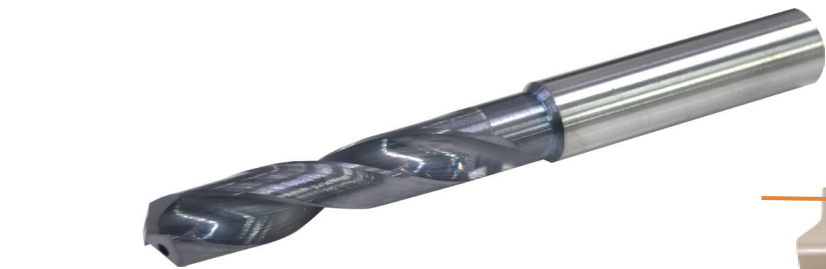
- Universal insert is suitable for P, M, S materials
- Hole drilling from 1xD to 3xD
- Double internal coolant holes for good cooling and chip evacuation



Application: Slot milling
Solution: Achteck solid carbide end mill M150 series

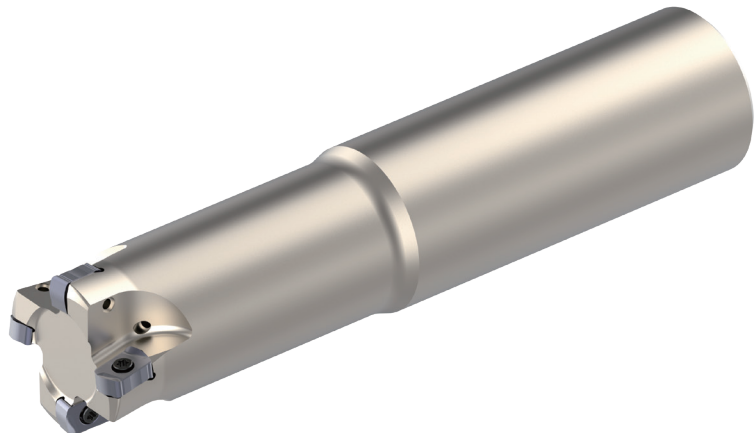
- New substrate grade AK12E with excellent impact resistance and heat resistance
- Differential pitch and profile design, effectively eliminate the vibration, with excellent chip removal

• Flap guide rail
Material: Titanium alloy, stainless steel



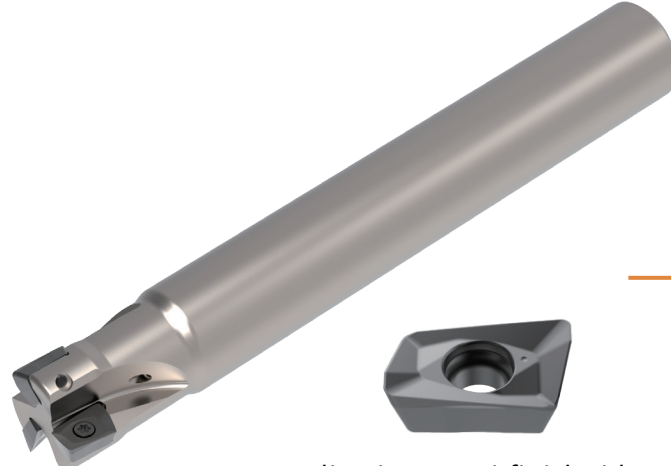
Application: Drilling
Solution: Solid carbide drill D151 series with internal coolant

- Sharp edge to ensure efficient drilling
- The contour design and polishing technology for the chip flute, ensure smooth chip removal



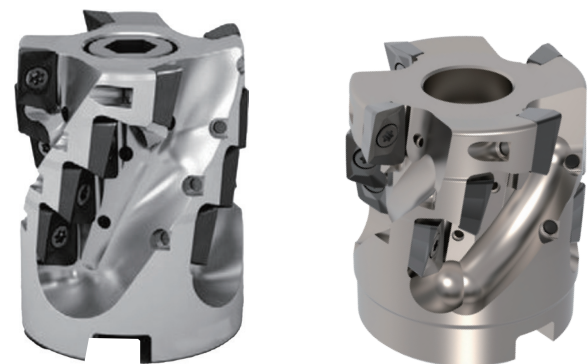
Application: Roughing
Solution: High feed milling

- 20° lead angle, Minimum diameter 16mm cutter
- Negative double-sided insert with 4 usable cutting edges
- Rectangular insert design provides stable and secure clamping
- AP403S grade available for difficult materials



Application: Semi-finish side milling & finish bottom milling
Solution: Achteck AO series square shoulder milling cutter

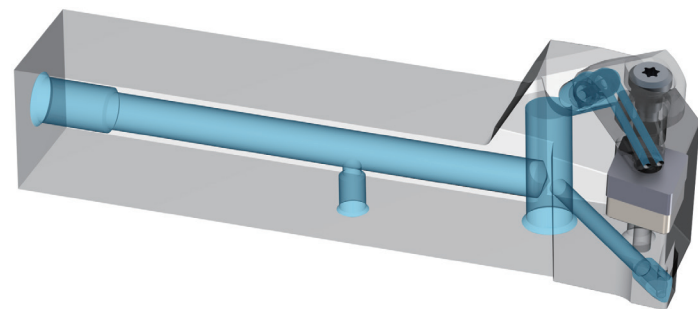
- Corner radii ranging from R0.4 to 4.0 for extensive selection
- Threaded edge insert design ensures low resistance, light cutting & high versatility
- Multiple connection options to meet diverse application requirements



Application: Pocket rough machining
Solution: Achteck porcupine milling tool APE90-AO12
Multi-tooth porcupine milling

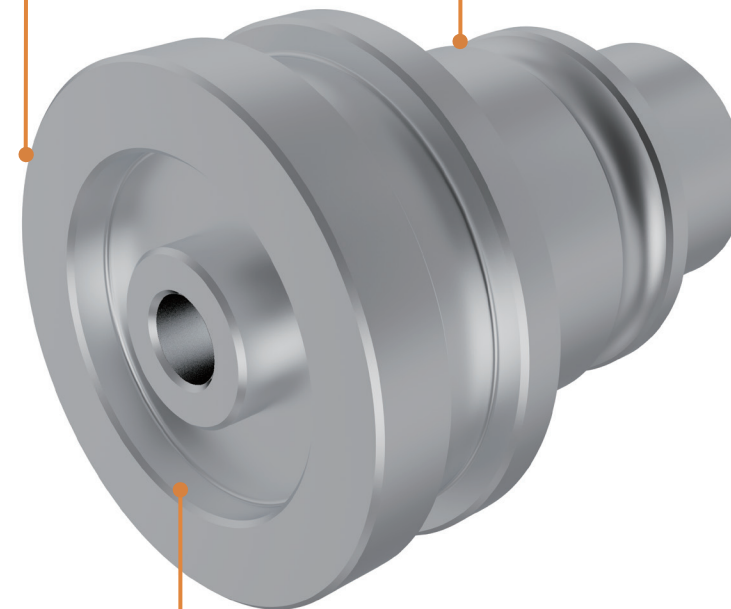
- Accurate internal coolant towards each insert
- Tangential insert design provides a stronger and more reliable cutting edge
- Grade AP403S for the difficult-to-machine materials

- Shaft turning
Material: Titanium alloy or stainless steel



Application: ISO external turning, face turning and internal turning
Solution: Achteck ISO turning holder series

- Including Positive and Negative inserts: C, D, W, V, T, R, S etc.
- Various chip breaker designs for ISO P, M, S materials
- A high-pressure internal coolant tool holder is available for the most difficult-to-machine materials



Application: External grooving
Solution: Achteck external grooving series

- V-shaped positioning design at the bottom of insert provides reliable clamping
- The tool holder used high strength alloy steel, with long tool life
- High pressure internal coolant tool holder is available for the most difficult-to-machine materials



Application: Face grooving
Solution: Achteck face grooving series

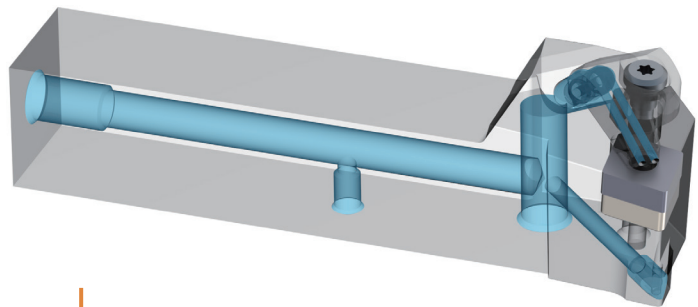
- V-shaped positioning design at the bottom of insert provides reliable clamping
- The high strength alloy steel tool holder, with long durability
- High pressure internal coolant tool holder is available for the most difficult to machine materials

- Aeroengine case
Material: Titanium alloy or Heat resistant alloy



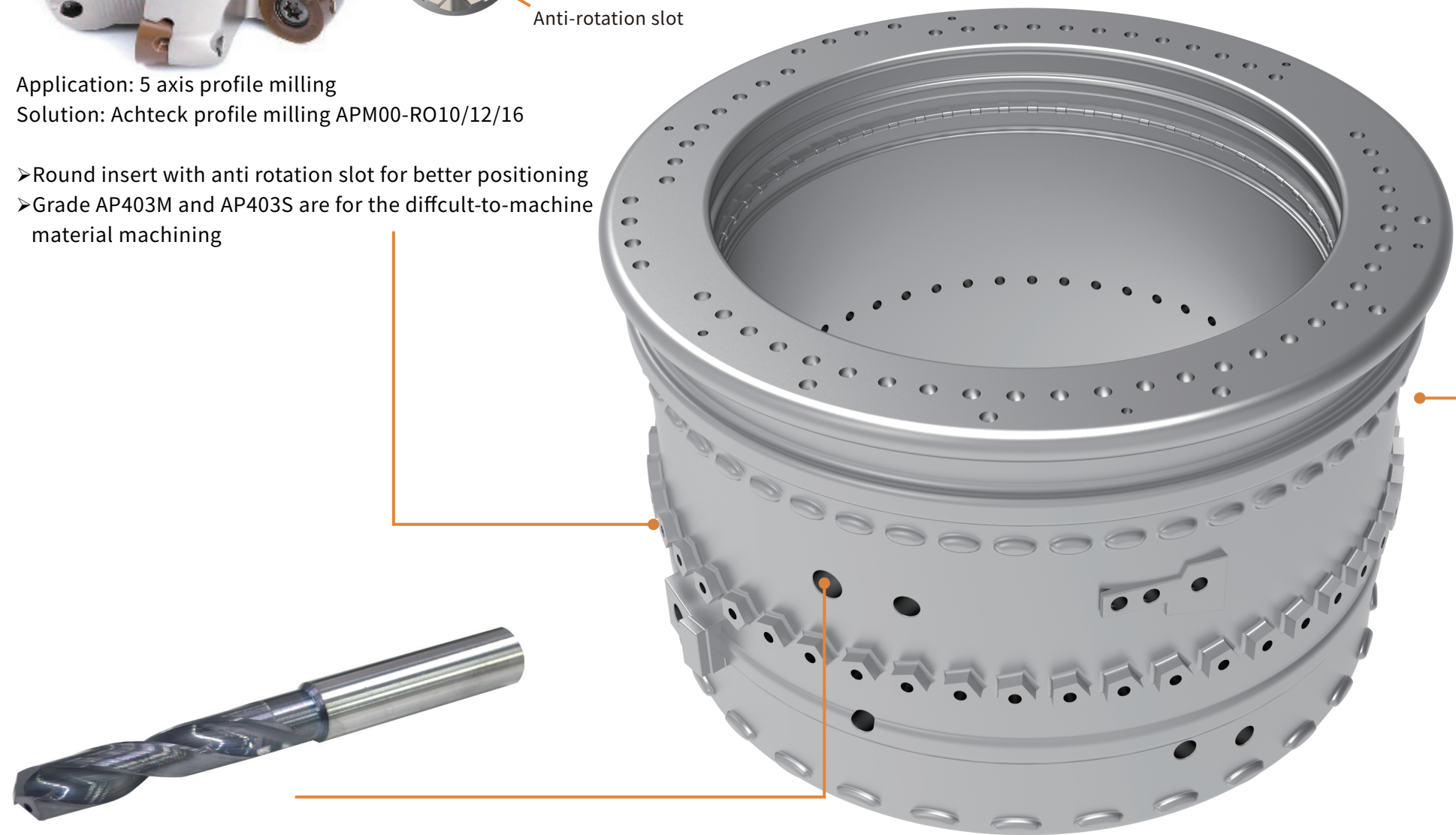
Application: 5 axis profile milling
Solution: Achteck profile milling APM00-RO10/12/16

- Round insert with anti rotation slot for better positioning
- Grade AP403M and AP403S are for the difficult-to-machine material machining



Application: ISO turning products
Solution: PVD coating turning grade-AP100S

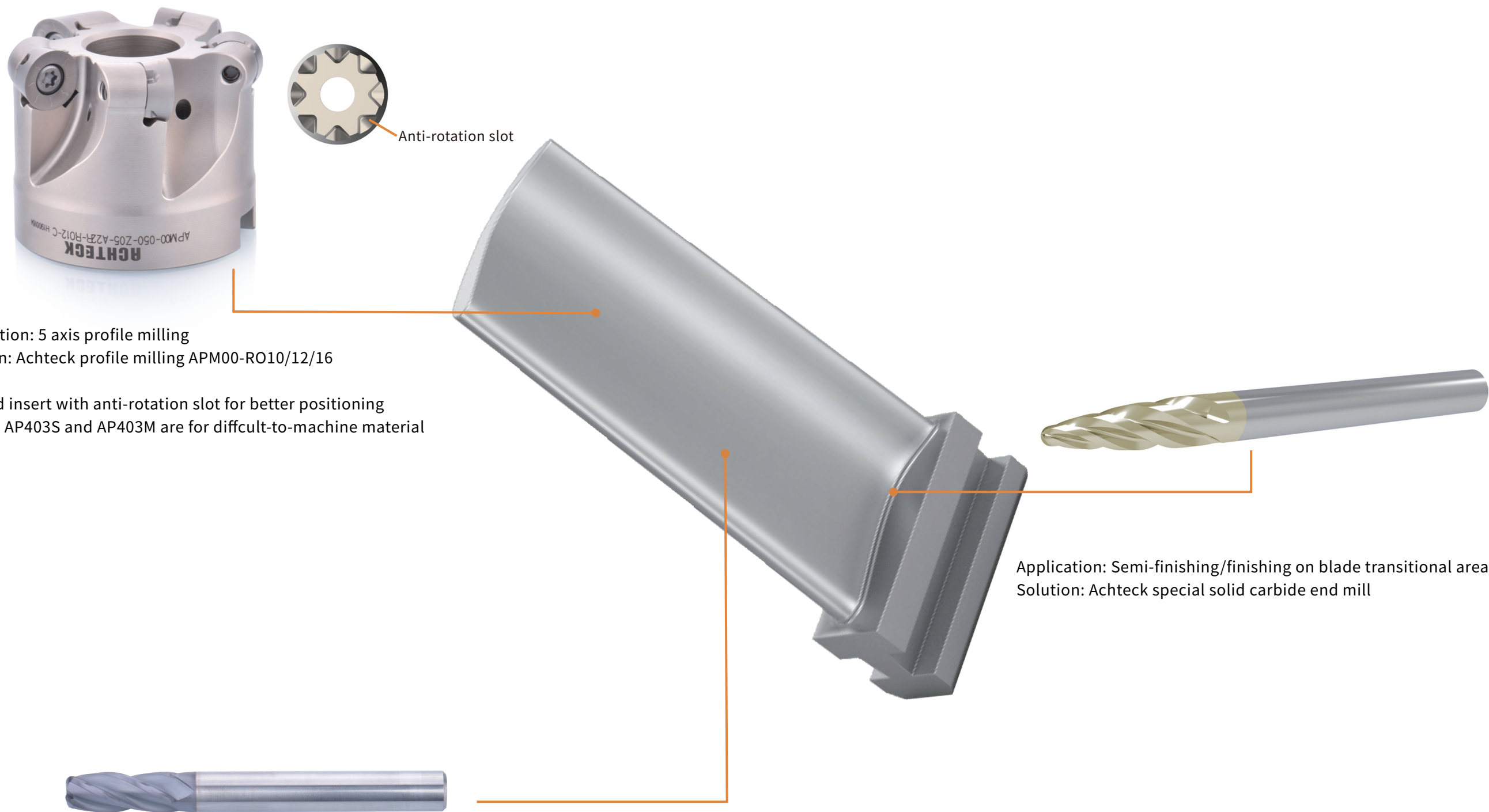
- Nano PVD coating with high hardness provides superior performance for heat resistant alloys and stainless steel
- Smooth coating surface reduces cutting forces, and improves wear resistance



Application: Drilling
Solution: Achteck solid carbide drill D151 series with internal coolant

- Sharp cutting edge ensures efficient drilling
- The profile design and polishing technology of the chip flute ensures smooth chip removal

- Blade
Material: Heat resistant alloy /Stainless steel/Titanium alloy



Application: 5 axis profile milling
Solution: Achteck profile milling APM00-RO10/12/16

- Round insert with anti-rotation slot for better positioning
- Grade AP403S and AP403M are for difficult-to-machine material

Application: Semi-finishing/finishing on blade transitional area
Solution: Achteck special solid carbide end mill

Application: Airfoil semi-finishing milling
Solution: Achteck solid carbide end mills

- PVD coating with high hardness and good oxidation resistance
- Achteck self-developed high strength carbide rods