GANZHOU ACHTECK TOOL TECHNOLOGY CO.,LTD.

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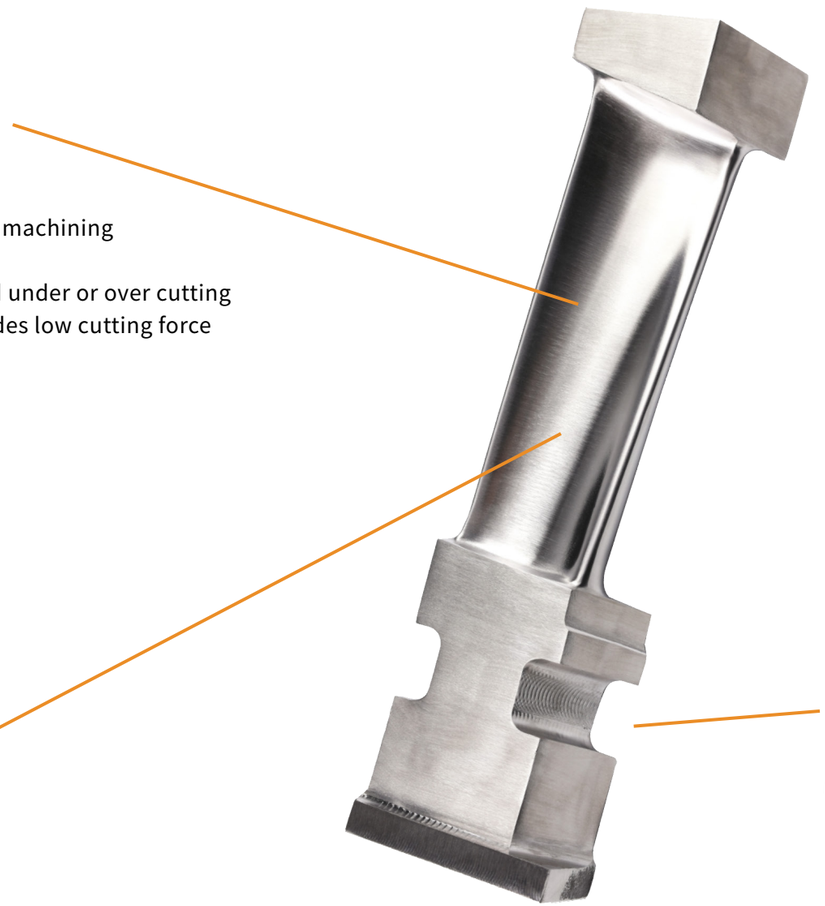
ACHTECK

Energy industry tooling solutions

Energy industry tooling solutions

Turbine blade
Materials: Stainless steel, heat resistant ally/Titanium alloy

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 sprial cutting edge design provides low cutting force
➢Peripheral and center cutting edges

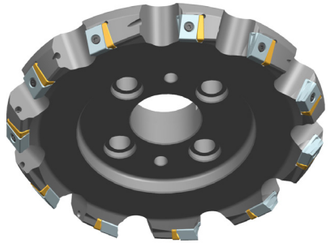


Application: Profile milling
Solution: Achteck profile milling APM00-RO10/12/16
➢Round insert with anti rotation slot for better positioning
➢Grade AP403M and AP403S are for the diffcult-to-machine material

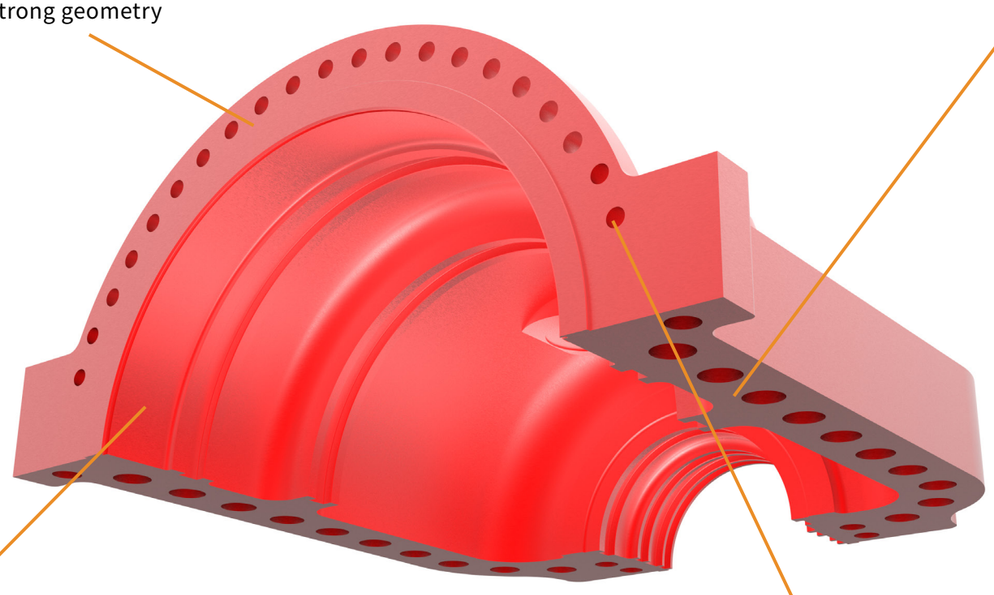
Application: Rough, semifinish milling blade root and shroud
Solution: Achteck APKT1003/TDMT1505 series
Diameter range: D16-D32 mm
➢Versatile grade is suitable for ISO P, M and S materials
➢Grades AP403M and AP403S are for difficult-to-machine material machining

Energy industry tooling solutions

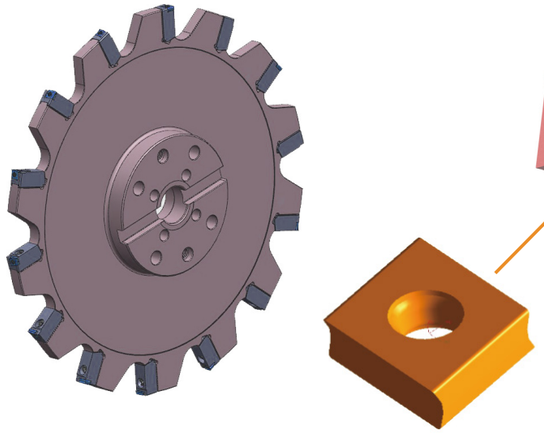
Turbine case
Materials: Alloyed steel/Cast iron



Application: Face rough milling
Solution: Achteck LNMU 221012R heavy rough milling
➢Diameter range: D80-D315 mm
➢First insert choice for heavy cutting, strong geometry



Application: Face finish milling vapor-tight surface
Solution: Achteck AFF45-ON05
➢Economic negative inserts with 16 cutting edges
➢Inserts have a hard nano-structured PVD coating

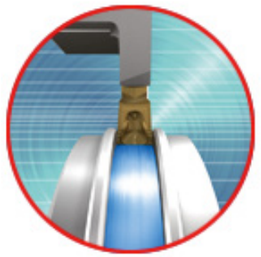


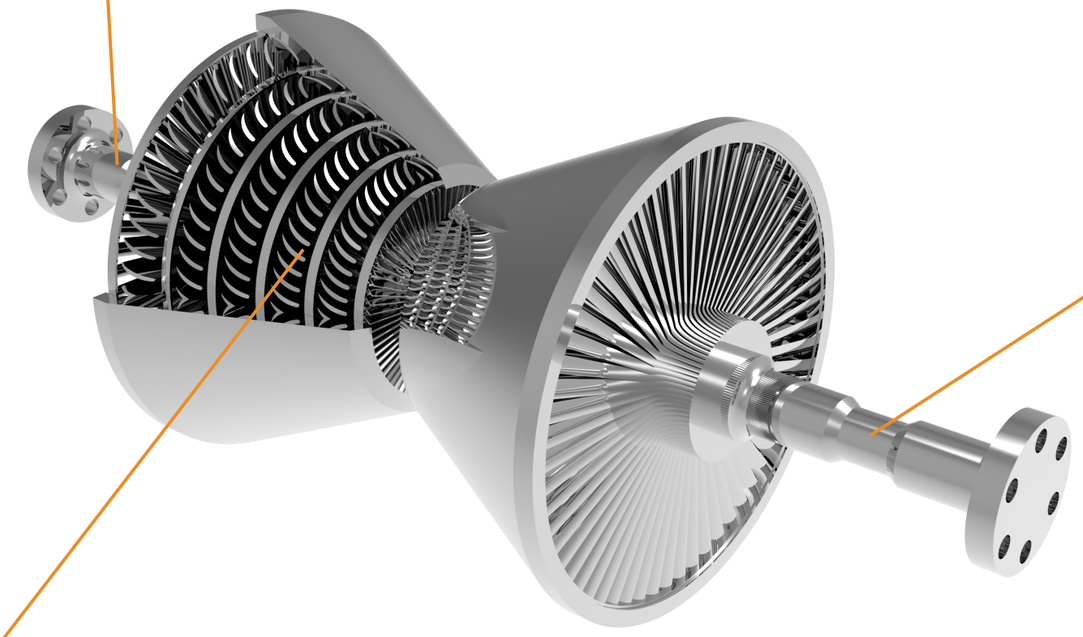
Application: Slot milling
Solution: Achteck LXHX 120308N
➢Diameter range: D80-D315 mm
➢First choice for heavy cutting, strong geometry

Application: Hole drilling
Solution: Achteck Short hole drills
➢Versatile grade is suitable for P, M, S
➢Suitable for drilling from 1xDc to 5XD

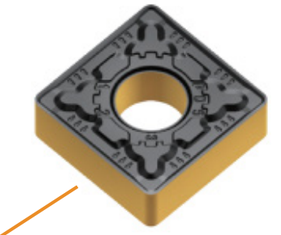
Turbine rotor
Materials: Alloyed steel

Application: Grooving
Solution: Achteck grooving insert ACD202/302
- ➢V-type locating design at the bottom of insert offered reliable postioning
- ➢High strength alloy steel holder has a long tool life
- ➢Special tools can be ordered





Application: Rough milling blade root slot
Solution: AOMT12/APMT17
- ➢Tool diameter range: D25-D63 mm
- ➢Recommended insert grade: AP403M



Application: External turning
Solution: Achteck ISO turning tools

Energy industry tooling solutions

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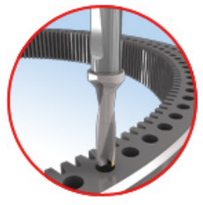
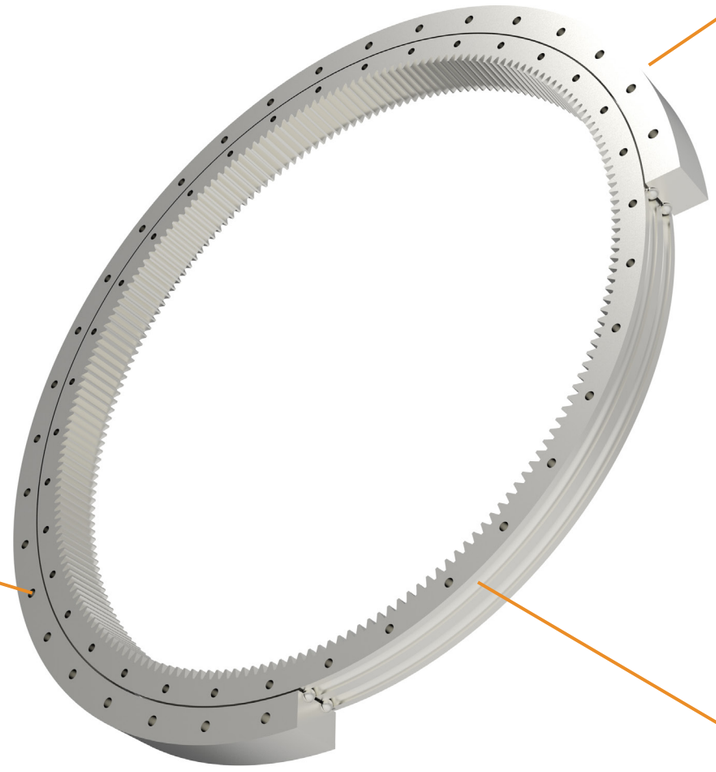
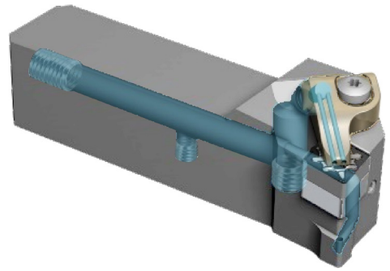
Slewing bearing machining
Materials: alloy steel



Application: drilling
Solution: Achteck standard indexable drill
Drilling depth upto 5XD



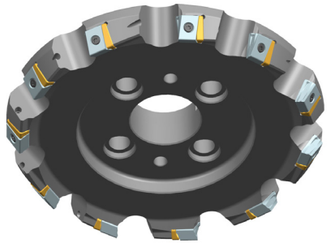


Application: Face, internal and external turning
Solution: New CVD coating grade: AP252P
➢Optimized M-Al2O3 coating is suitable for higher cutting speed application

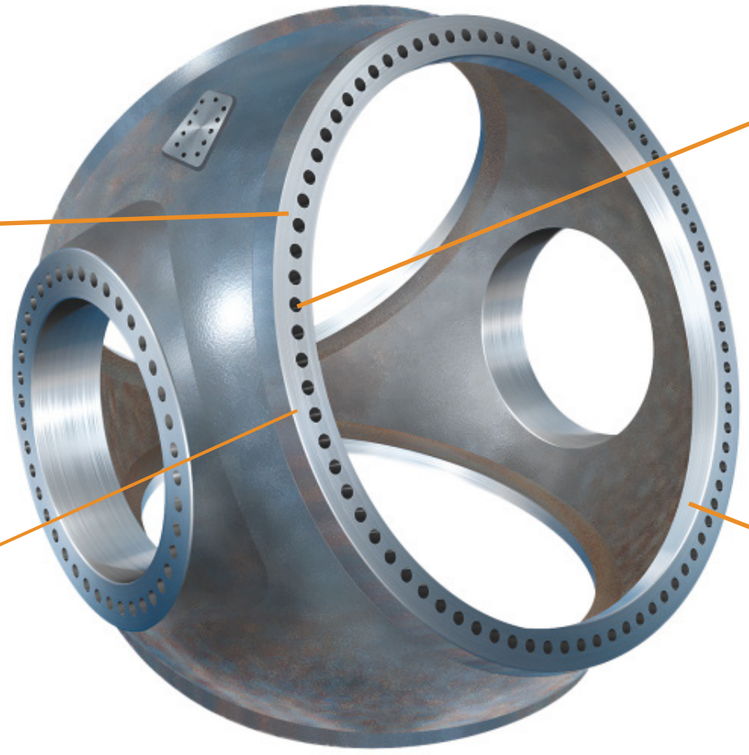
Application: Sealing slot
Solution: Grooving insert ACD202/302
➢V-type locating design at the bottom of insert offered reliable positioning
➢High strength alloy steel holder has a long tool life

Energy industry tooling solutions

Turbine hub
Materials: Nodular cast iron



Application: Face rough milling
Solution: Achteck LNMU221012R
➢High strength heavy milling insert
➢Versatile grade is suitable for P, M, S

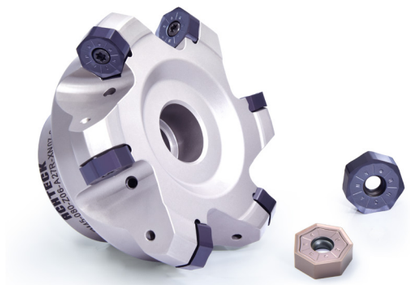


Application: Hole drilling
Solution: Achteck short hole drills
➢Universal insert is suitable for P, M, S machining
➢Hole drilling from 1×D to 3×D
➢Two coolant holes for good cooling and chip evacuation

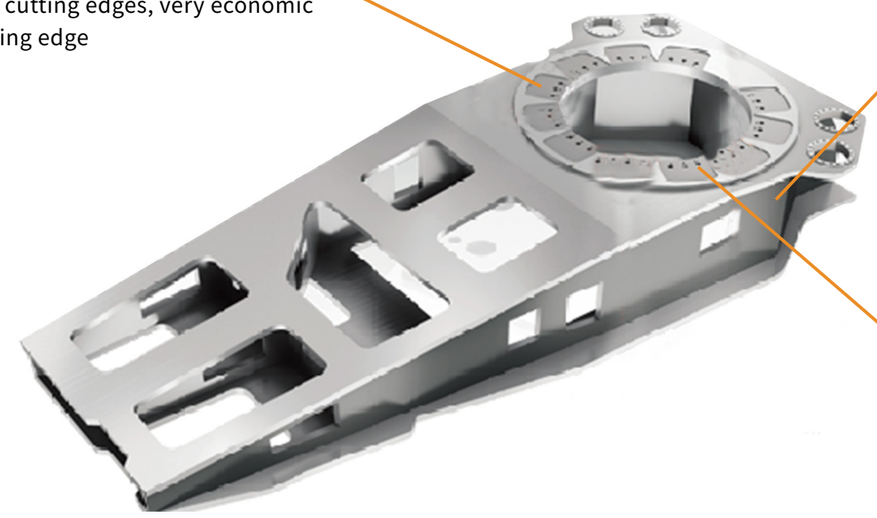
Application: Face finish milling
Solution: Achteck AFM40-ON05
➢Negative inserts with 16 cutting edges, very economic
➢Hard nano-structured PVD coating
➢Smooth coating surface reduced cutting force and improved wear resistance

Application: Profile/main hole rough milling
Solution: Achteck porcupine milling cutter APE90-LB09-13
➢Full tooth porcupine milling cutter
➢Internal coolant towards each insert edge accurately
➢Tangential tooth design, high security

Machine base
materials: nodular cast iron



Application: Rough face milling
Solution: Achteck XNMU 07/09 series
➢Negative heptagonal milling insert, with 14 cutting edges, very economic
➢Accurate internal cooling towards each cutting edge



Energy industry tooling solutions

Application: Hole drilling
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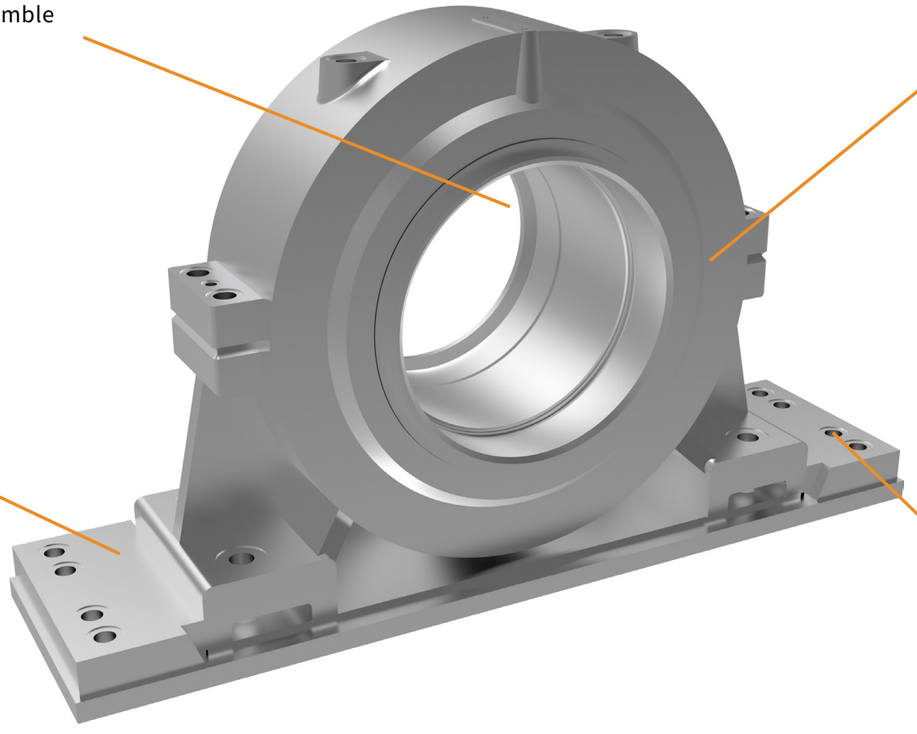
Application: Pocket rough milling
Solution: Achteck TDMT 1505 series
➢Positive 90°shoulder milling insert with three cutting edges
➢Positive rake angle and spiral angle design for light cutting
➢Grade M and Grade H of inserts, suitable for rough,
semi-finish and finish milling

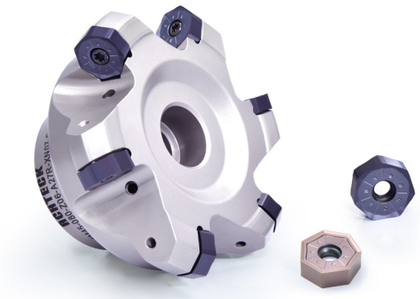
Energy industry tooling solutions

Bearing seat
Materials: Alloyed steel

Application: Main hole rough, fine boring
Solution: Achteck MLR/MLF large size boring tool
➢With steel and aluminuim boring bridges, for different tool weight limitations
➢Modular design, flexible and easy to assemble
➢Boring diameter range: D150-850 mm



Application: Main hole rough milling
solution: Porcupine cutter
APE90-LN09
➢Full-tooth porcupine milling cutter
➢Accurate internal cooling towards each cutting edge
➢Tangential tooth design, high security



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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 260 million USD with 600 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.