GANZHOU ACHTECK TOOL TECHNOLOGY CO.,LTD.

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2024V01

ACHTECK

2024

Medical instrument machining solutions

www.achteckamerica.com

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.

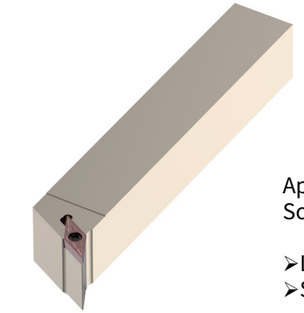
Achteck produces inserts for Turning, Grooving, Milling and Drilling that are widely applied in automotive, energy, die & mold, general machinery, aerospace and other industries. Achteck Tool is technology oriented, owns a strong research team that keeps on innovating. Having "Benefits from Resources, 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.

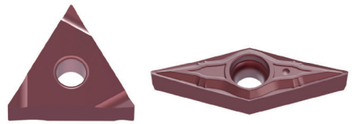
Medical instrument machining solutions

Contents:

Medical instrument machining solutions

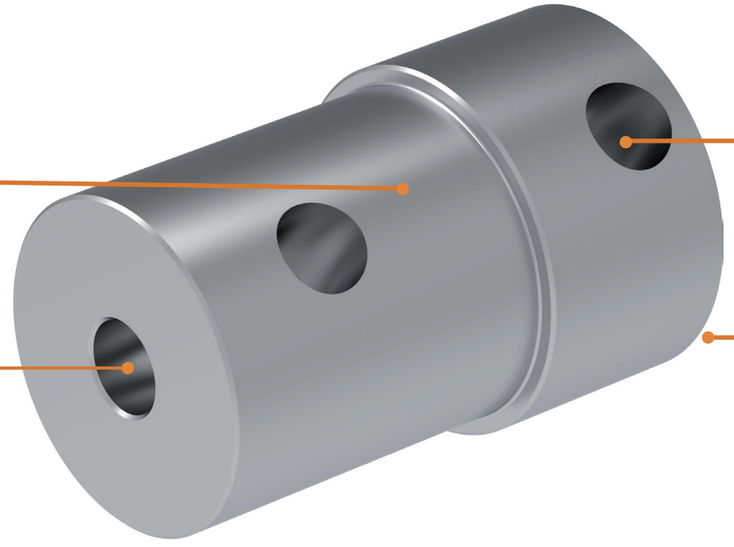
Pacemaker accessories
Material: Stainless steel, Titanium alloy

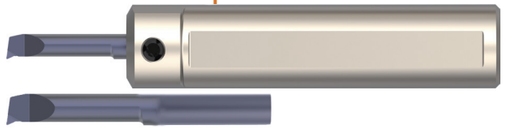




Application: Face and external finish/rough turning
Solution: Achteck fully ground geometry; universal geometry UF

➢Large rake angle
➢Sharp cutting edge for better surface finish



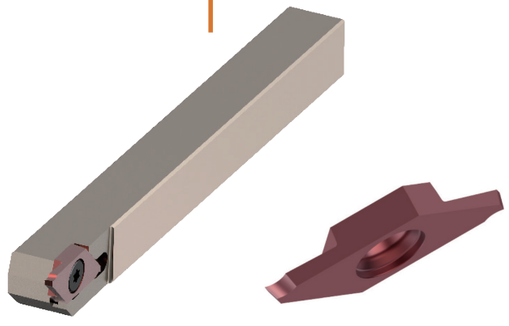


Application: Small diameter boring
Solution: Achteck solid ASI tool series

➢Minimum machining diameter: 0.3mm
➢Oval-shaped body design for better rigidity

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

➢Sharp edge to ensure efficient drilling
➢The design profile and polished chip work together for excellent chip removal



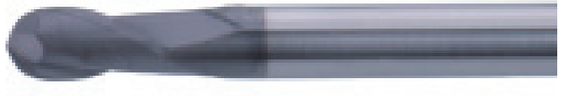
Application: Parting off
Solution：Achteck parting off insert ASWP 09/10...

➢Max. diameter for parting off: 16mm
➢Fully ground profile for higher positioning precision

- Orthopedic-traumas-bone plate
  Material: Titanium alloy

Application: Slope milling and chamfer milling
Solution: Solid carbide ball-nose mill M210 series

➢The new substrate grade AK12U for good versatility



Application: Hole chamfering milling
Solid carbide ball-nose end mill M210 series

➢The new substrate grade AK12U for good machining versatility

Application: Drilling
Solid carbide drill D151 series with internal coolant

➢Sharp edge to ensure efficient drilling
➢The design profile and polished chip flute work together for excellent chip removal

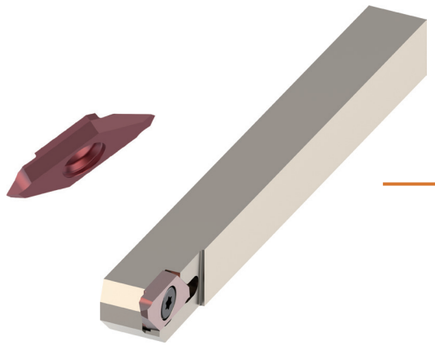
Application: Hole and slot milling rough and finish
Solid carbide end mill M150 series for titanium alloy milling

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

Medical instrument machining solutions

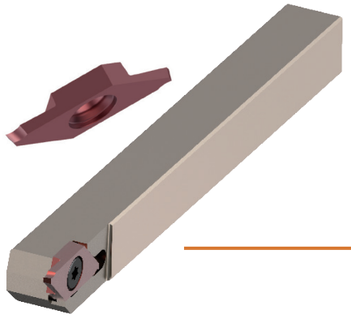
Medical instrument machining solutions

- Orthopedic-traumas-bone screw
  Material: Titanium alloy

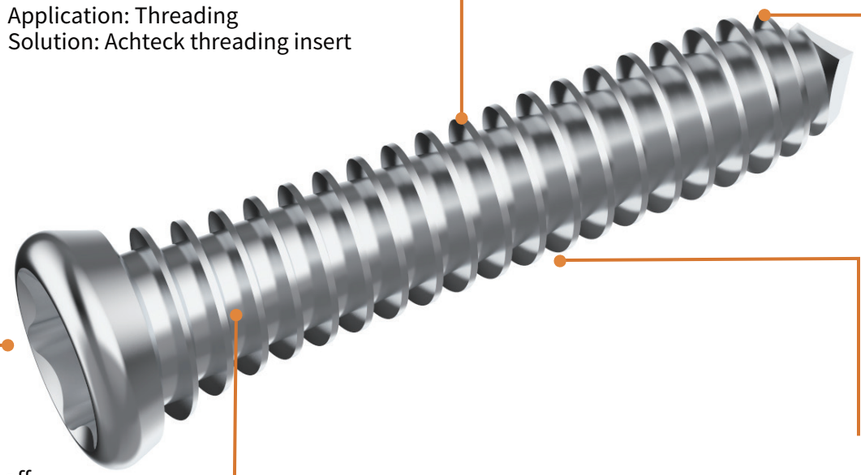


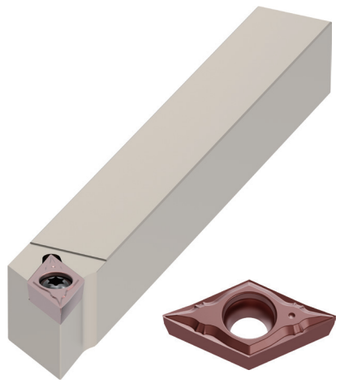
Application: Threading
Solution: Achteck threading insert

Application: Slot milling
Solution: Solid carbide end mill M150 series for titanium alloy milling
- ➢New substrate grade AK12E with excellent impact resistance and heat resistance
- ➢Differential pitch and profile design, effectively eliminates the vibration, with excellent chip removal

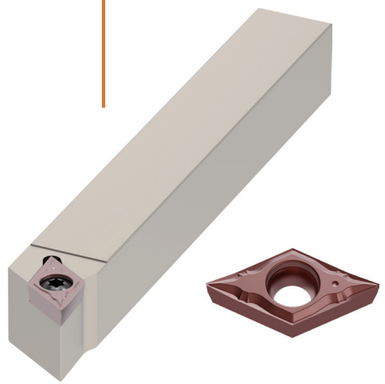


Application: Parting off
Solution: ASWP series inserts for small part parting off





Application: External turning
Solution: Achteck DCGT series
With grade AP100S for difficult to machine materials



Application: External turning
Solution: Achteck DCGT series
With grade AP100S for difficult to machine materials

Medical instrument machining solutions

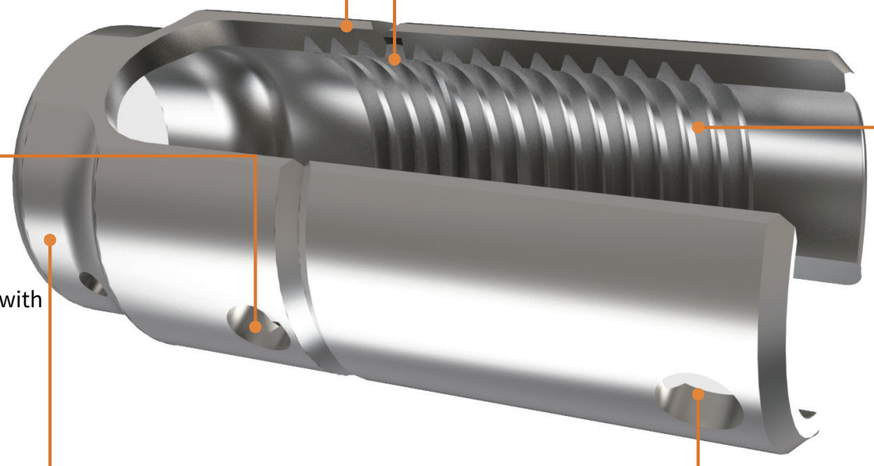
- Orthopedic-cervical vertebra-pedicle screw dovetail head
  Material: Titanium alloy

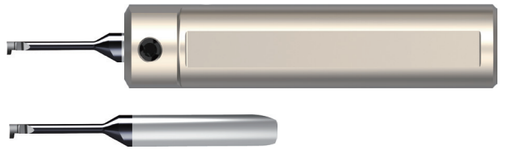
Application: Slot milling
Solution: Solid carbide end mill M150 series for titanium alloy milling

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

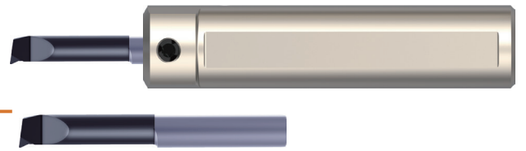
Application:Side hole milling
Solution: Solid carbide end mill M150 series for titanium alloy milling

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

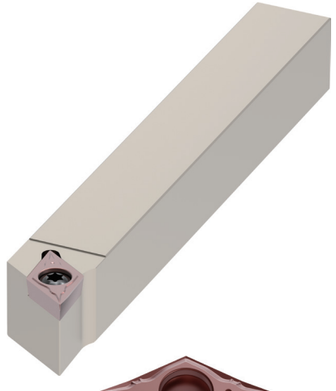




Application: Internal grooving
Solution: Achteck solid internal grooving tool



Application: Internal grooving and threading
Solution: Achteck solid internal boring tool, solid threading tool



Application: External turning
Solution: Achteck DCGT series
With grade AP100S for difficult to machine materials

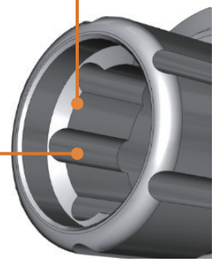
Application: centre hole drilling
Solution： Solid carbide drill D151 series with internal coolant

- Sharp edge to ensure efficient drilling
- The design profile and polished chip flute work together for excellent chip removal

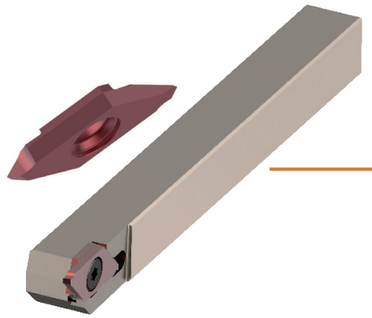
Medical instrument machining solutions

- Orthopedic-cervical vertebrae-nut
  Material: Titanium alloy

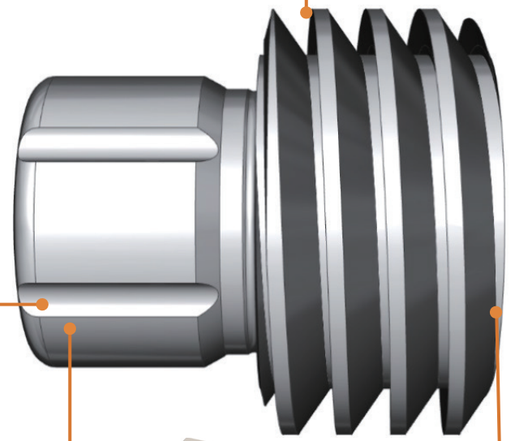
Application: Center hole drilling
Solution: Achteck special step drill

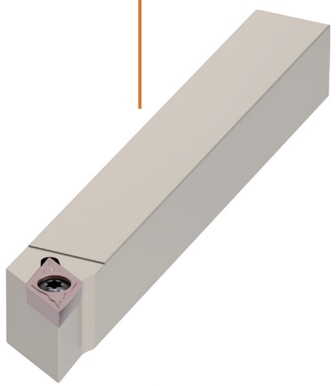


Application: Internal and external plum slot milling
Solution: Achteck cobalt-chromium-molybdenum end mill



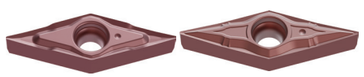
Application: Threading
Solution: Achteck threading insert

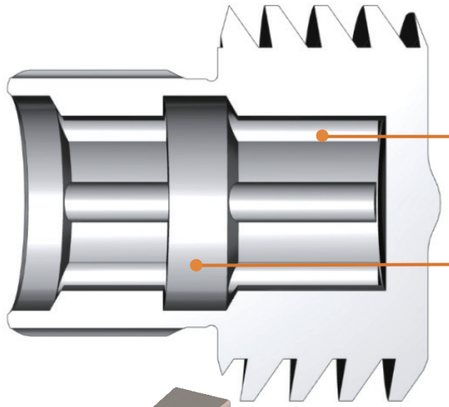


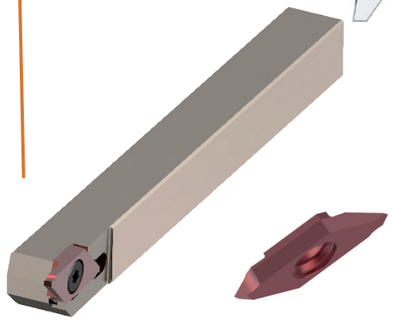


Application: External turning
Solution: Achteck DC, VC series

➢With grade AP100S for difficult to machine materials

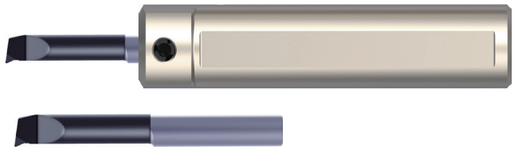




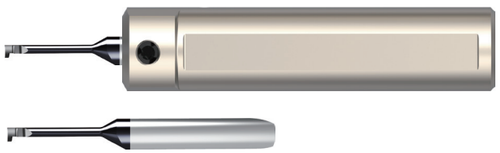


Application: Parting off
Solution：Achteck parting off insert ASWP 09/10...

➢Max. diameter for parting off: 16mm
➢Fully ground profile for higher positioning presicion



Application: Boring
Solution: Achteck solid boring tool



Application: Internal grooving
Solution: Achteck solid internal grooving tool

Medical instrument machining solutions

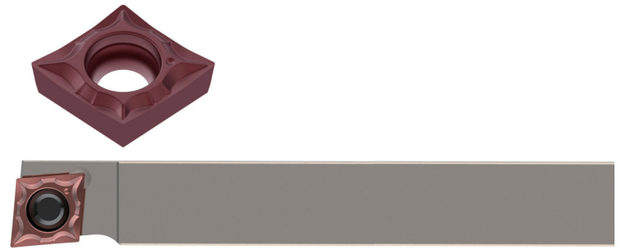
- Orthopedic-joint-acetabular cup
  Material: Titanium alloy

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

➢Sharp edge to ensure efficient drilling
➢The design profile and polished chip flute work together for excellent chip removal

Application: Tapping
Solution: Achteck tap

➢High efficiency, quality and stability in tapping
➢Suitable for P, K, M, S materials



Application: External rough turnning
Solution: Achteck C-shaped insert

➢With grade AP100S for difficult to machine materials
➢Various geometries for P, M, S materials

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

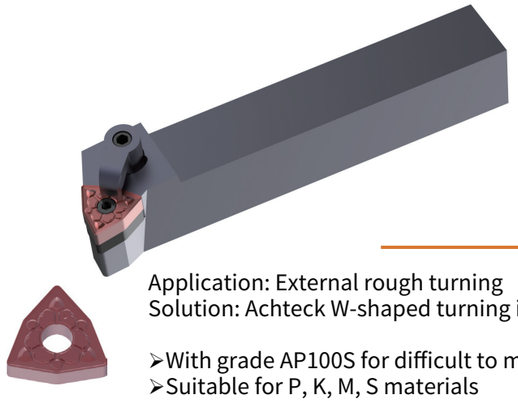
➢Sharp edge to ensure efficient drilling
➢The profile design and polished chip flute work together for excellent chip removal

Application: Profile milling
Solution: Achteck solid carbide ball-nose mill M210 series

➢The new substrate grade AK12U for good versatility

Medical instrument machining solutions

Orthopedic-joint-femoral cap
Material: Titanium alloy

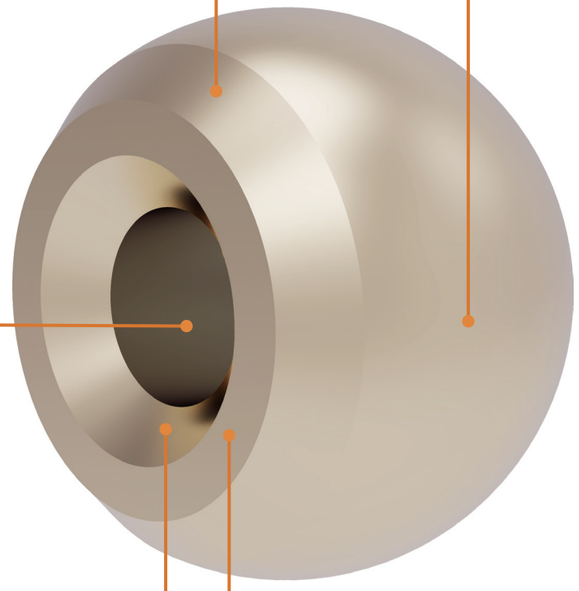


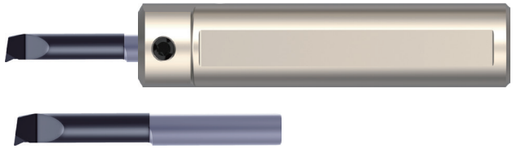
Application: External rough turning
Solution: Achteck W-shaped turning insert

➢With grade AP100S for difficult to machine materials
➢Suitable for P, K, M, S materials

Application: slot milling
Solution: Solid carbide end mill M150 series for titanium alloy milling

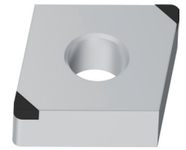
➢New substrate grade AK12E with excellent impact resistance and heat resistance
➢Differential pitch and profile design, effectively eliminates the vibration, with excellent chip removal





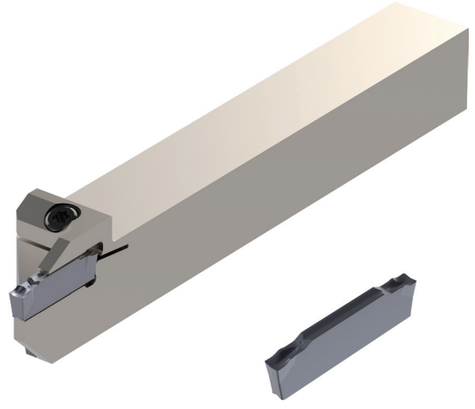
Application: Small diameter boring tool
Solution: Achteck ASI series solid tool

➢Min. machining diameter: 0.3mm
➢Oval-shaped body design for better rigidity



Application: External finish turning
Solution: Achteck CBN turning insert

➢High hardness and wear resistance, with high thermal stability
➢Good chemical stability and thermal conductivity, low friction coefficient

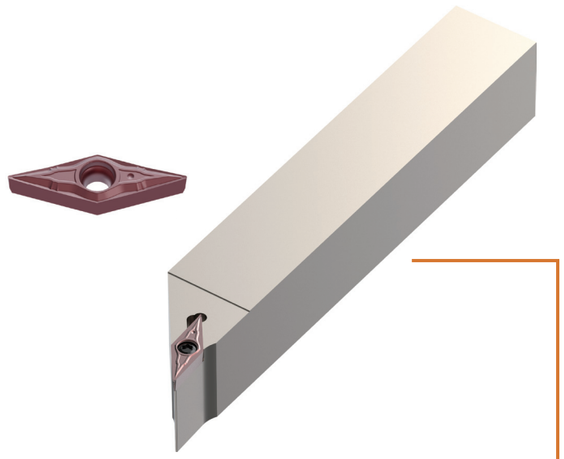


Application: Parting off
Solution: Achteck parting off insert ACD series

➢High versatility, suitable for P, M, K materials
➢PVD coating with high wear resistance and strength

Medical instrument machining solutions

Orthopedic-joint-femoral stem
Material: Titanium alloy



Application: External finish turning
Solution: Achteck V shaped turning insert in G class

➢With grade AP100S for difficult to machine materials
➢Turning insert in G class for high precision

Application: Profile milling
Solution: Achteck solid carbide ball-nose mill M210 series

➢The new substrate grade AK12U for good versatility

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

➢Sharp edge to ensure efficient drilling
➢The design profile and polished chip flute work together for excellent chip removal

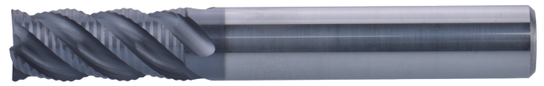
Application: Tapping
Solution: Achteck Tap

➢High efficiency, quality and stability in tapping
➢Suitable for P, K, M, S materials

Medical instrument machining solutions

- Orthopedic-joint-femoral parts
  Material: Titanium alloy

Application: Internal finish machining
Solution: Achteck special tapered ball nose end mill



Application: Profile rough milling
Solution: Achteck solid carbide end mill with high performance

➢Waved-edge geometry, good chip breaking effect, for large cutting depth

Application: External profile milling
Solution: Achteck solid carbide end mill M205 series

➢The new substrate grade AK12U for good versatility
➢Large spiral angle and multi-tooth design, for semi-finish and finish milling

Application: profile milling
Solution: Solid carbide ball-nose mill M210 series

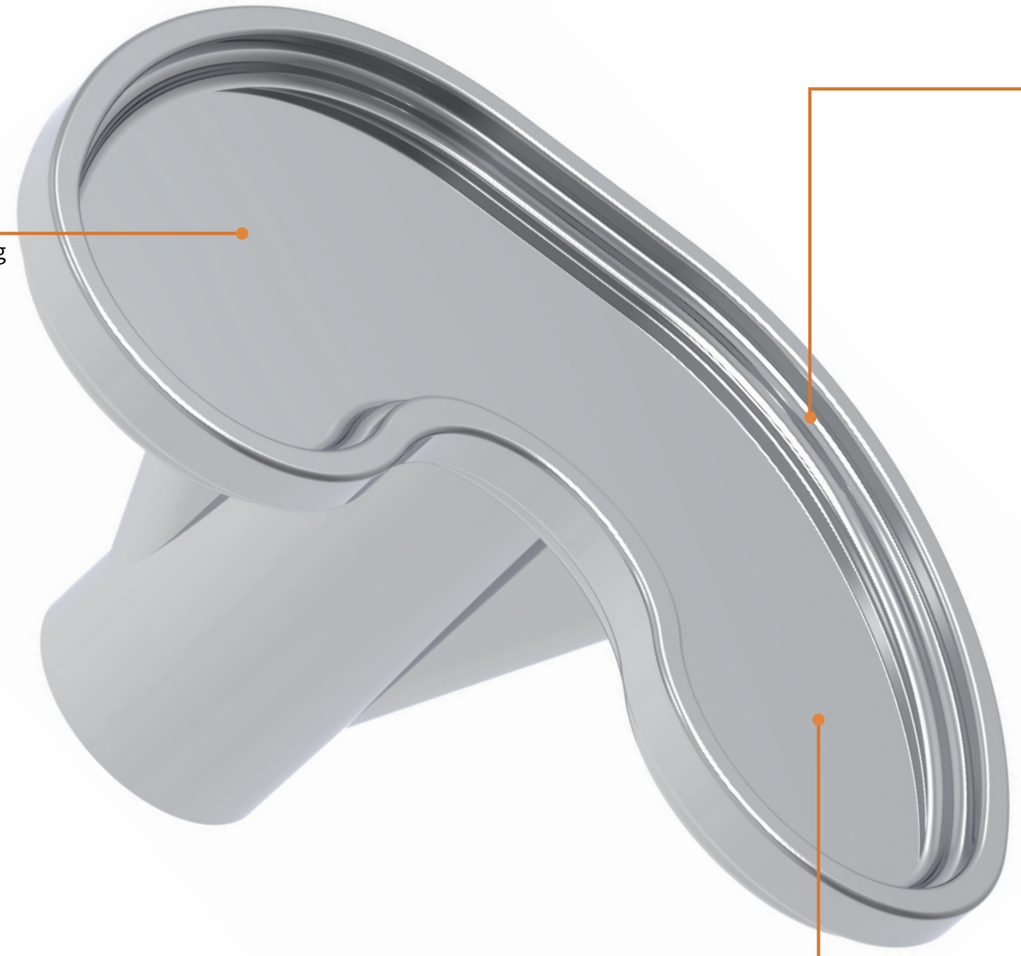
➢The new substrate grade AK12U for good versatility

Medical instrument machining solutions

Orthopedic-joint-tibial bracket
Material: Titanium alloy

Application: Bottom face rough milling
Solution: Solid carbide end mill M150 series for titanium alloy milling

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



Aplpication: chamfer milling
Solution: Solid carbide chamfer mill M180 series

- ➢Optional two chamfering angles of 90 ° and 120 °
- ➢For various chamfering applications

Application: finish milling
Solution: Solid carbide end mill M150 series for titanium alloy milling

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