GANZHOU ACHTECK TOOL TECHNOLOGY CO.,LTD.

Add：Ganzhou Economic Development Area, Jiangxi, China
Tel：400-9150-887 Fax：0086-797-8166100 E-mail：marketing@achtecktool.com

ACHTECK AMERICA, INC.

Add：1928 Star Batt Drive, Ste C, Rochester Hills, MI 48309
Tel：+1(947)208-7289 E-mail：zyaacs@achtecktool.com Website：www.achteckamerica.com

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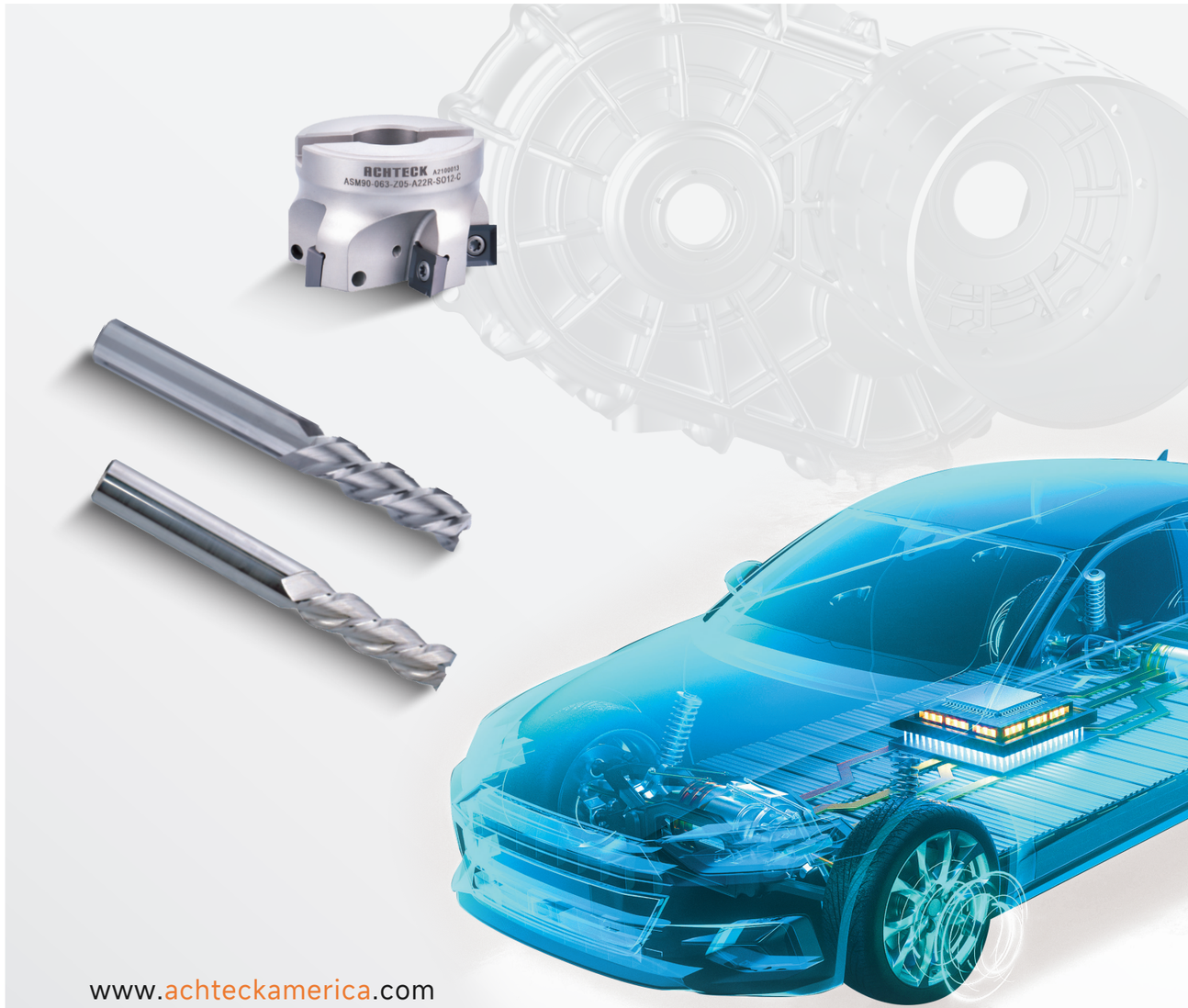
Electric vehicle tooling solutions



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.

Electric vehicle tooling solutions

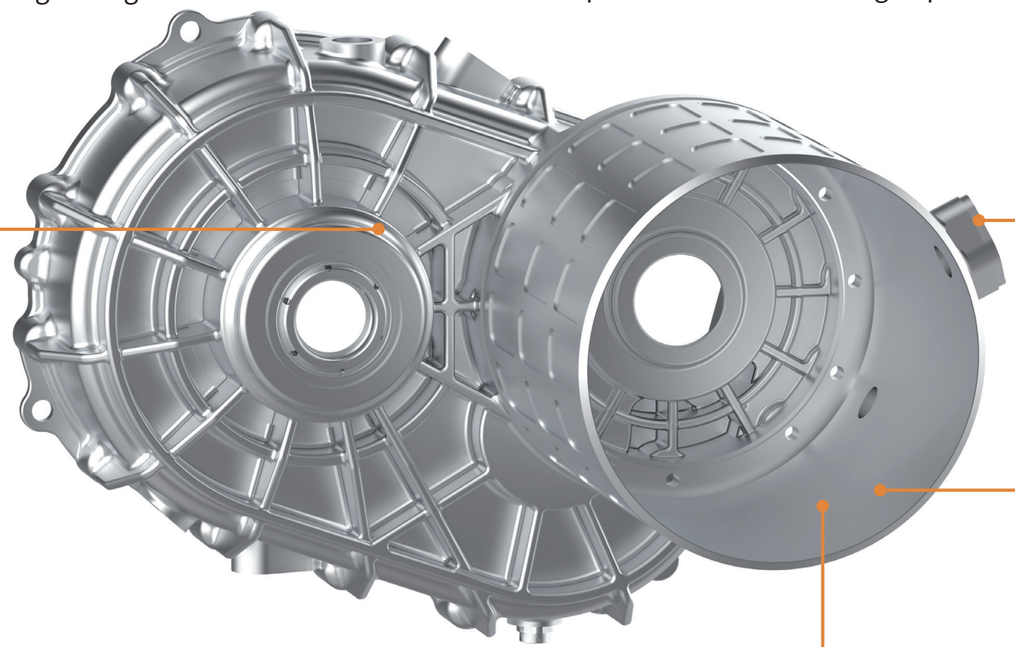
Contents:

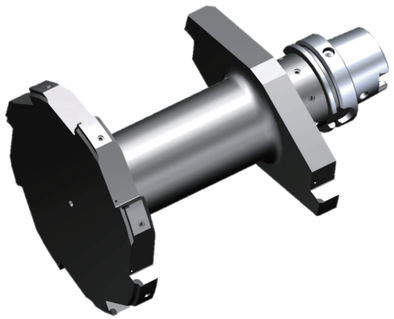
Electric vehicle tooling solutions

Motor housing
Material: Aluminum alloy

Application: Stator hole roughing
Solution：Achteck brazed PCD porcupine milling cutter

- Provide special design
- Cross-tooth design, more efficient
- Eliminated vibration and high stability in thin-walled machining, with sharp cutting edge and grade PD10



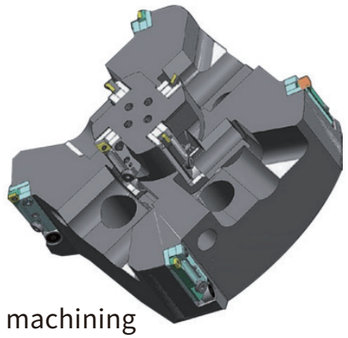


Application：Stator hole machining
Solution：Achteck brazed PCD tool

- Provide special design
- High stability and compact structure design ensure the rigidity of the tool while minimizing the weight of the tool
- Easy to handle, no need to adjust

Application : Installation surface machining
Solution: M245 Solid carbide end mill

- Tool diameter: 3~20mm
- Variable helix angle and differential pitch design
- Excellent vibration resistance performance for high surface quality
- Optional diamond coating improves wear resistance



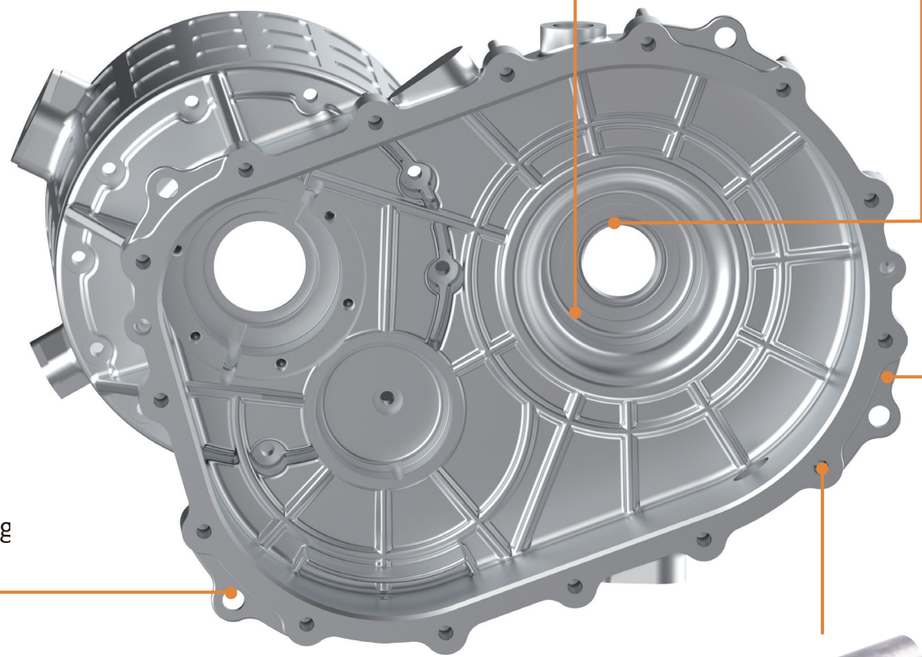
Application：Stator hole machining
Solution：Boring tool

- Provide special design
- The stator hole and bearing hole are machined at the same time with higher precision
- Light weight design
- Adjustable cartridges for easy handling

- Motor housing
  Material: Aluminum alloy

Application: Bearing hole rough boring
Solution：Special tool

➢Provide special design
➢ISO standard insert for reduced cost
➢Easy to adjust and index



Application：Pin hole and positioning hole reaming
Solution：PCD reamer

➢Tool diameter 4~20mm，cutting edges 2~6
➢Used carbide bar to ensure the rigidity of the tool
➢Balanced wear resistance and toughness for long tool life with PD20 grade and special cutting edge design

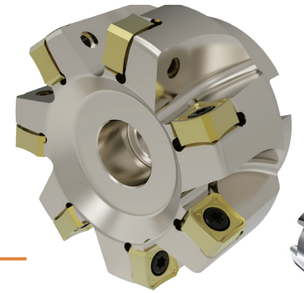
Application: thread hole drilling
Solution：Step drilling

➢Provide special design
➢Option: solid carbide and brazed PCD
➢Used self-developed precision rod
➢High wear resistance for better tool life

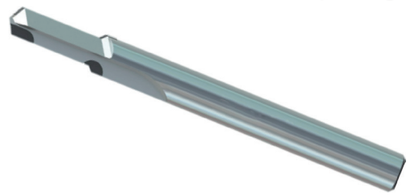
Electric vehicle tooling solutions

Application: Bearing hole finish boring
Solution：Finishing boring bar

➢High stability and compact structure design ensure the rigidity of the tool while minimizing the weight of the tool
➢With precision adjustment to realize the rapid adjustment of dimension
➢Balanced wear resistance and toughness, excellent precision of PCD inserts



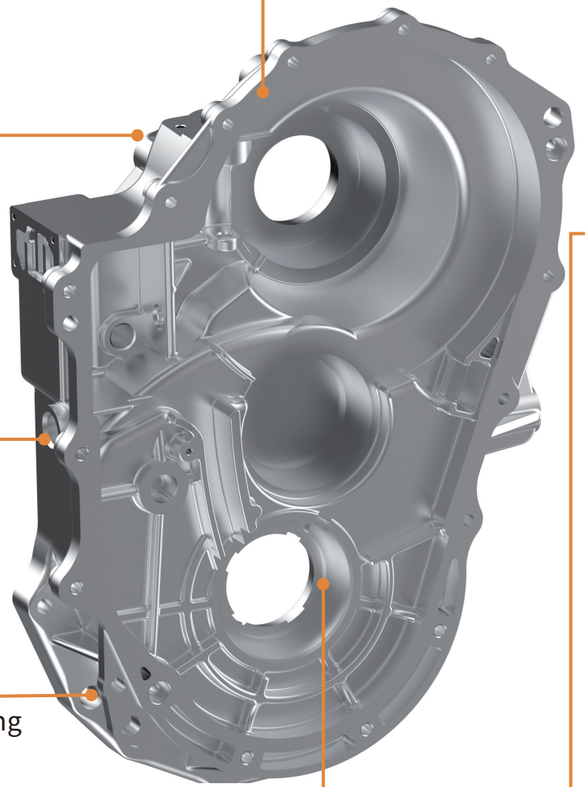
Application: Joint surface milling
Solution：Indexable carbide or PCD face milling cutter
➢Provide special design for brazed PCD face milling cutter
➢Provide grinding services to ensure product quality, highly economical
➢S-type insert with eight cutting edges, with grade AW100K for aluminum alloys, high efficiency and low cost

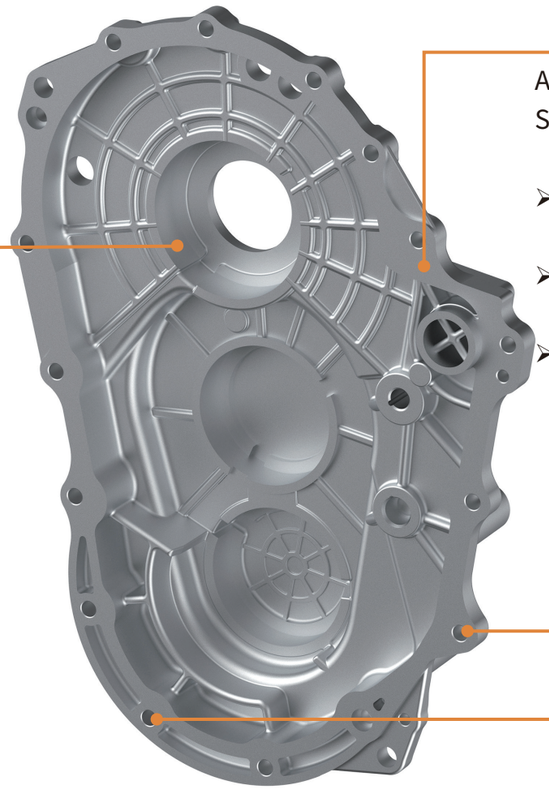


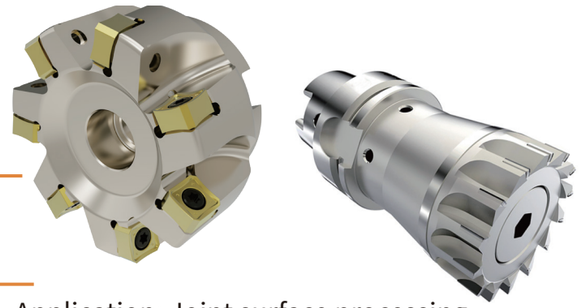
Electric vehicle tooling solutions

- Decelator housing
  Material: Aluminum alloy

Application：Face milling
Solution：AHM15 high feed milling cutter series
➢Cutter diameter: 32mm-125mm
➢Double positive rake angle design, light cutting
➢Highly economical: 4 cutting edges
➢High feed, more than 5 times of the common milling cutter, for higher efficiency
➢With large arc edge, smooth and light cutting







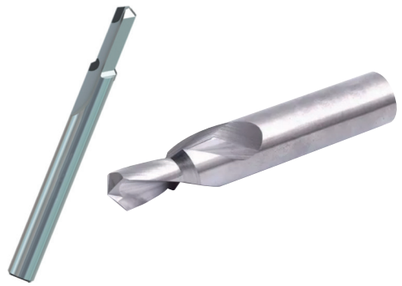
Application: Joint surface processing
Solution：Indexable carbide or PCD face milling cutter

➢Provide special design for brazed PCD face milling cutter
➢Provide grinding services to ensure product quality; highly economical
➢S-type insert, with 8 cutting edges, with grade AW100K for aluminum alloys, high efficiency and low cost

Application：Pin hole and positioning hole machining
Solution：PCD reamer

➢Tool diameter 4~20mm，cutting edges 2~6
➢The carbide shank ensures the tool rigidity
➢Balanced wear resistance and toughness for long tool life with PD20 grade and special cutting edges design

Application: Bearing hole boring
Solution：Boring bar
➢High stability and compact structure design ensures the tool rigidity and reduces the weight of the tool
➢Adjustable cartridges，standard insert design, good versatility and low cost



Application：Peripheral hole drilling
Solution：Step drilling

➢Provide special design
➢Option: solid carbide and brazed PCD
➢Used self-developed precision rod
➢High wear resistance for long tool life

Electric vehicle tooling solutions

- Vortex part
  Material: Aluminum alloy

M245 Solid carbide end mills

➢Tool diameter: 3~20mm
➢Variable helix angle and differential pitch design
➢Excellent vibration resistance for good surface quality

Step drilling

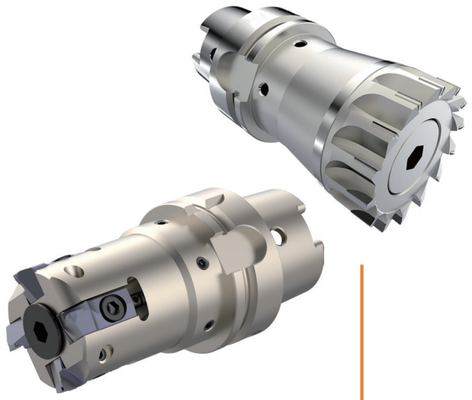
➢Provide special size design
➢Option: solid carbide and brazed PCD
➢Used self-developed precision rod
➢High wear resistance for long tool life

PCD milling cutter

➢Provide special design
➢Coarse or close pitch for different conditions
➢Low vibration and high stability in milling thin-walled workpiece , with sharp cutting edge and grade PD10

Electric vehicle tooling solutions

- Battery chassis
  Material: Aluminum alloy

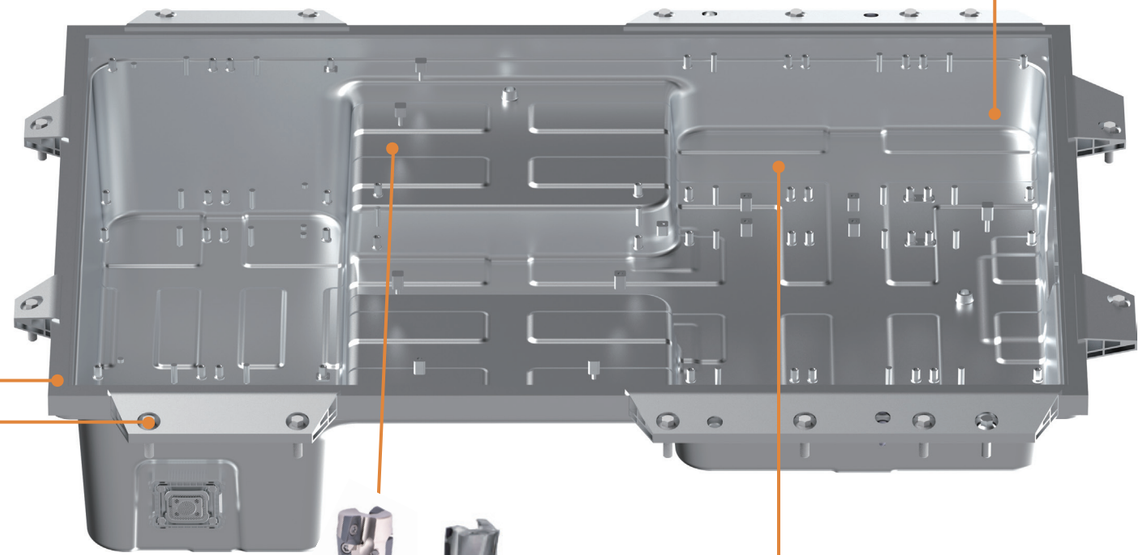


Application: Housing surface milling
Solution: Brazed PCD and indexable PCD milling cutter

➢Provide special design
➢Close pitch design, high efficiency and good surface quality
➢Multi-functional face milling cutter for various applications
➢Provide grinding services to ensure product quality , highly economical

Application：Side wall finishing
Solution：M245 Solid carbide end mills

➢Tool diameter: 3~20mm
➢Variable helix angle and differential pitch design
➢Excellent vibration resistance for good surface finish
➢Optional diamond coating improves wear resistance



Application：Hole machining
Solution：Step drilling
➢Provide special design
➢Option: solid carbide and brazed PCD
➢Used self-developed precision rod
➢High wear resistance for long tool life

Application：Side wall rough milling
Solution：porcupine milling cutter
➢Option: APE90 porcupine milling cutter series and brazed PCD cutter
➢AW100K for aluminum alloy, high efficiency and low cost
➢Low vibration and high stability in milling thin-walled workpiece , with sharp cutting edge and grade PD10

Application：Side wall finishing
Solution：PCD milling cutter

➢Provide special size design
➢Coarse or close pitch for different applications
➢Low vibration and high stability in milling thin-walled workpieces, with sharp cutting edges and grade PD10

Electric vehicle tooling solutions

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