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ACHTECK

2024

Rail way industry tooling solutions

www.achteckamerica.com

Company Profile

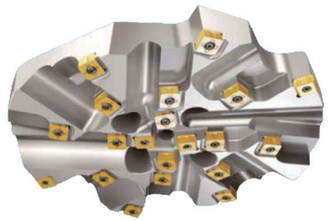
Ganzhou Achteck Tool Technology Co., Ltd. is a wholly-owned subsidiary of Chongyi Zhangyuan Tungsten Co., Ltd. (Listed Company with stock code 002378). The registered capital of Achteck is 1.66 billion USD with 800 employees. The main products include: Coated Carbide Inserts, Carbide Rod and supporting 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.

Railway industry tooling solutions

Contents:

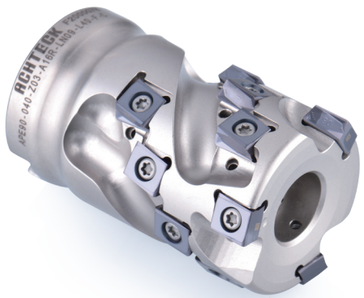
Railway industry tooling solutions

Turnout crossing
Material: High manganese steel



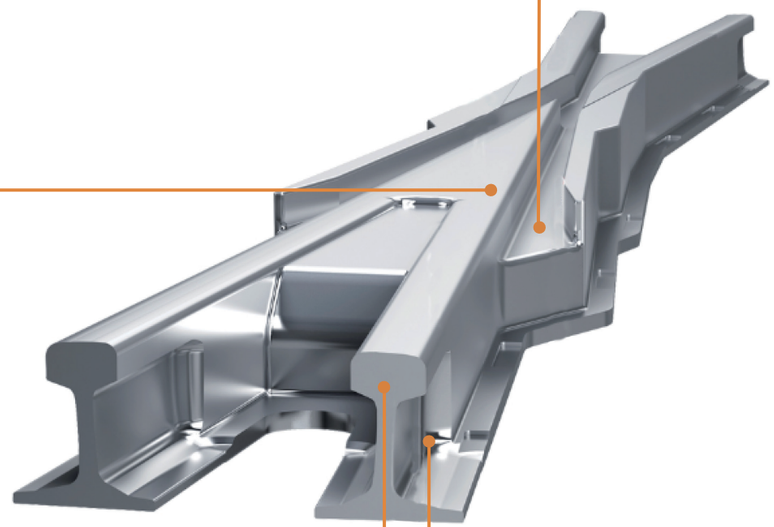
Profile milling

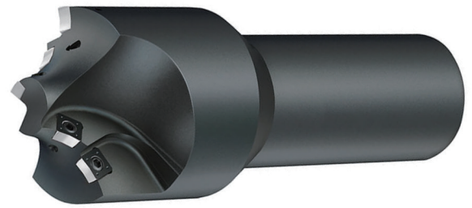
- ➢Face and side milling solutions are suitable for different types of machines
- ➢The grind of the cutting edges further improves the surface quality
- ➢Appropriate insert arrangement for smoother cutting
- ➢Rake angle and cutting edge combined precisely for lighter and faster cutting
- ➢Wear-resistant PVD coating, sharp cutting edge, good performance in both wear resistance and impact resistance



APE90-A012 Porcupine milling

- ➢Appropriate insert arrangement for smoother cutting
- ➢Modular front cutting head design, highly economical
- ➢Spiral side edge design for lighter milling
- ➢Wear-resistant PVD coating, sharp cutting edge, good performance in both wear resistance and impact resistance





Slot milling

- ➢The special curved edge ensures the profile and surface quality
- ➢Appropriate insert arrangement for smoother milling
- ➢Wear-resistant PVD coating, sharp cutting edge, good performance in both wear resistance and impact resistance

Side & face profile milling cutter

- ➢The ground cutting edge further improves the surface quality
- ➢Appropriate insert arrangement for smoother milling
- ➢Rake angle and cutting edge combined precisely for lighter and faster milling
- ➢Wear-resistant PVD coating, sharp cutting edge, good performance in both wear resistance and impact resistance

Tongue rail
Material: High-carbon steel

Profile milling

- ➢The ground cutting edge further improves the surface quality
- ➢Rake angle and cutting edge combined precisely for lighter and faster cutting
- ➢Wear-resistant PVD coating, sharp cutting edge, good performance in both wear resistance and impact resistance

Railway industry tooling solutions

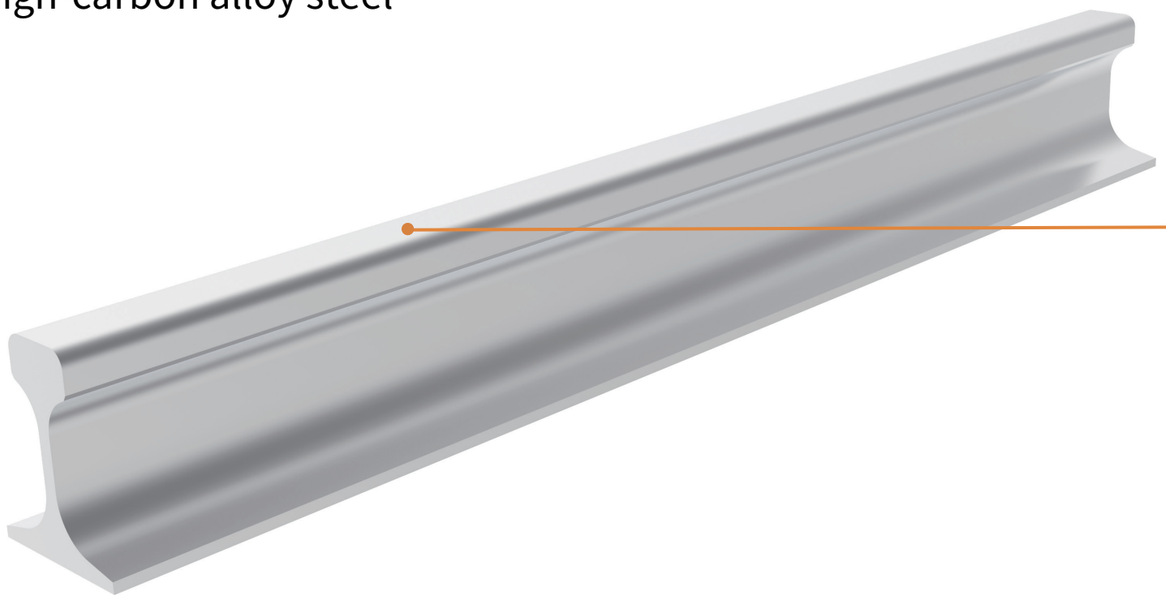
Side & face profile milling cutter

- ➢Rake angle and the T land combined for stronger cutting edge
- ➢Wear-resistant PVD coating, sharp cutting edge, good performance in both wear resistance and impact resistance

Profile milling

- ➢The ground cutting edge further improves the surface quality
- ➢Appropriate insert arrangement for smoother milling
- ➢Rake angle and the cutting edge combined precisely for lighter and faster milling
- ➢Wear-resistant PVD coating, sharp cutting edge, good performance in both wear resistance and impact resistance

- Rail re-shaping
  Material: High-carbon alloy steel



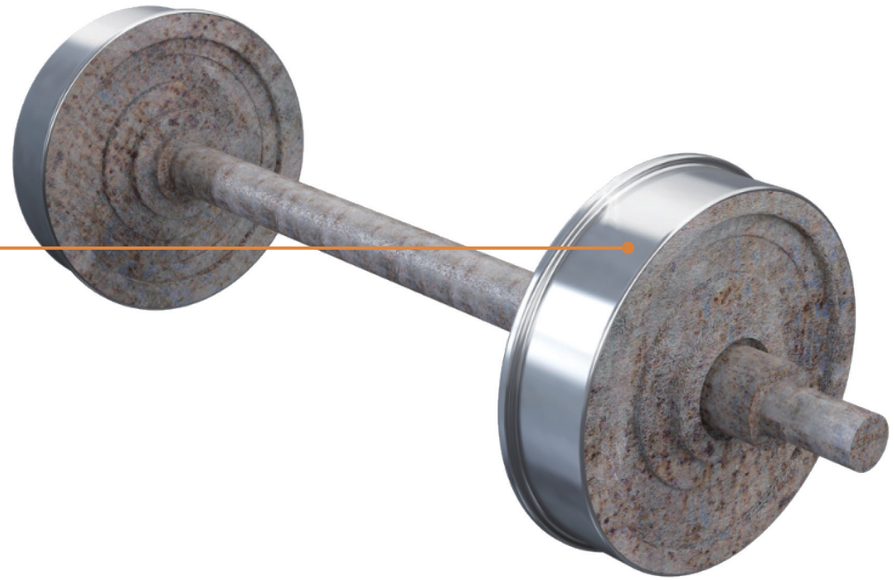
Profile milling for rail re-shaping

➢Quick change and vibration reduction coupling improves the stability of milling
➢The ground cutting edge further improves the surface quality
➢Appropriate insert arrangement for smoother cutting
➢Rake angle and the cutting edge combined precisely for lighter and faster cutting
➢Wear-resistant PVD coating, sharp cutting edge, good performance in both wear resistance and impact resistance

- Wheel re-turning
  Material: Alloy steel

Wheel re-turning insert:
LN..19/301940 two standard insert sizes and other special sizes
Various geometries and grades, wide applications
Geometries: -X, -AF-AM, -AG,-AR, -AS
Grades: AC052P/AC152P/AC252P/AC100K/AC102K

➢P05-P25 substrate and K05/K10 substrate meet the requirements of wear resistance and toughness
➢Thick CVD coating improves the heat resistance of the coating under long time dry cutting conditions and prolongs the tool life



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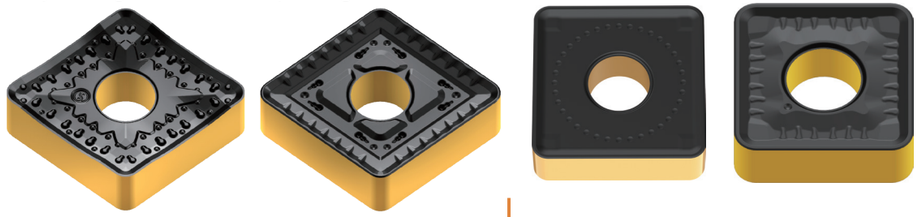
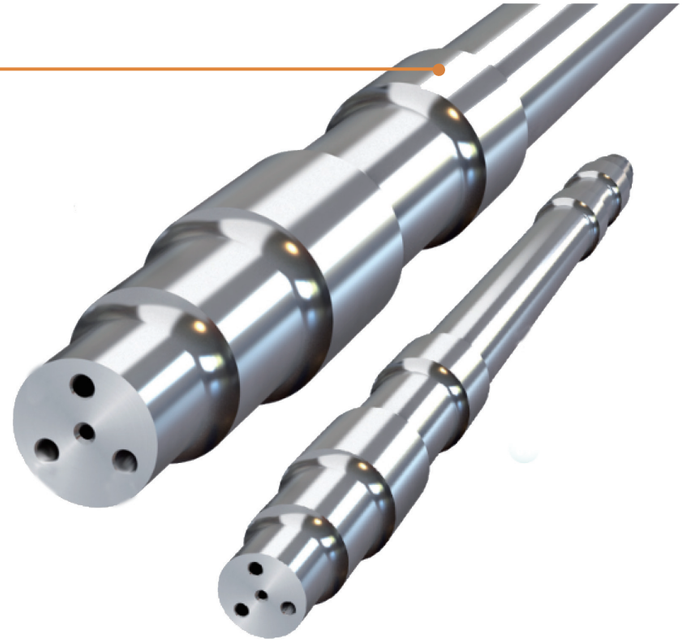
New wheel and axle turning
Material: Alloy steel

Internal rough boring wheel, rough turning axle--SNMM25 heavy roughing insert
Various geometries and grades, meet different requirements
Geometries: -PD8, -PC9, -PD9, -MR
Grades: ACO52P/AC152P/AC252P

- ➢The P05-P25 substrate with Cobalt enriched layer meets the requirements of wear resistance and toughness
- ➢Thick CVD coating improves the heat resistance of the coating under long time dry cutting conditions and prolongs the tool life





Profile turning--RCMX20/25/32 Round insert
Various geometries and grades, meet different requirements
Geometries: -PD8, -PC9
Grades: AC052P/AC152P/AC252P/AC100K/AC102K

- ➢P05-P25 substrate and K05 / K10 substrate meet the requirements of wear resistance and toughness
- ➢Thick CVD coating improves the heat resistance of the coating under long time dry cutting conditions and prolongs the tool life