

NEAR-NET PRECISION-FORGED GEARS



Near-Net Forged Gear Teeth

Meritor is a global leader in the design and manufacture of precision-forged gears. These near-net shaped gear teeth offer significant advantages over conventional cut-tooth gears such as:

- Increased strength, providing longer life and improved power density
- Reduced manufacturing costs
- Reduced raw material costs

Meritor's precision-forged gears are used in the majority of Class 5 through Class 8 commercial vehicles manufactured in North America and worldwide for a wide range of demanding applications, including:

- On-highway linehaul
- Bus and coach
- Logging
- Fire and emergency
- Military
- Construction, agricultural, mining and many more vocational applications
- Automotive, SUVs and pick-up trucks

With more than 100 years of industrial and commercial vehicle axle manufacturing expertise, Meritor is a proven gear solutions provider. By partnering with Meritor, your company will enjoy economies of scale, proven process design methodology and flexibility to accommodate your application needs.

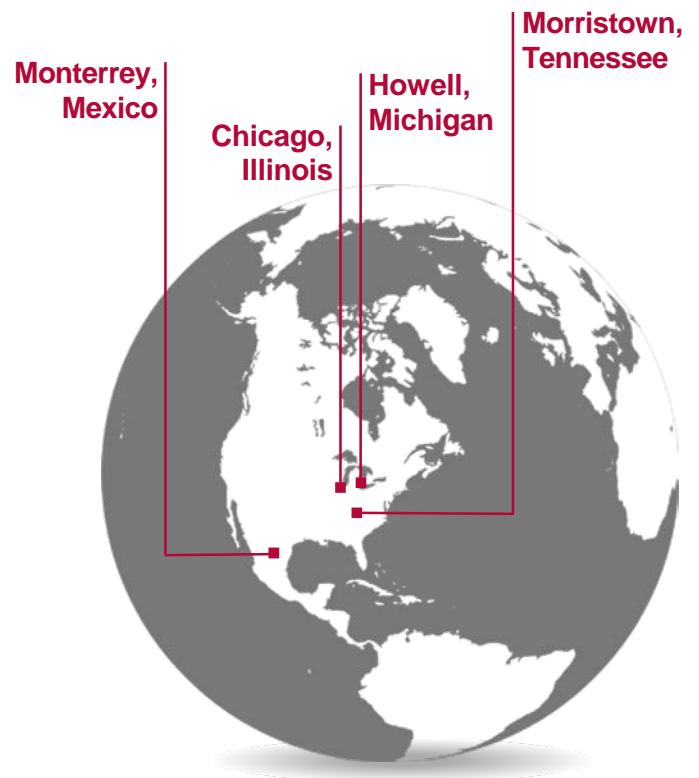
Features and Benefits

- Hot-forged controlled grain flow resulting in increased impact strength and longer life
- Increased tool life
- Reduced machine cycle time
- Increased cutting machine capacity
- Reduced raw material cost
- Customized for your specific application needs



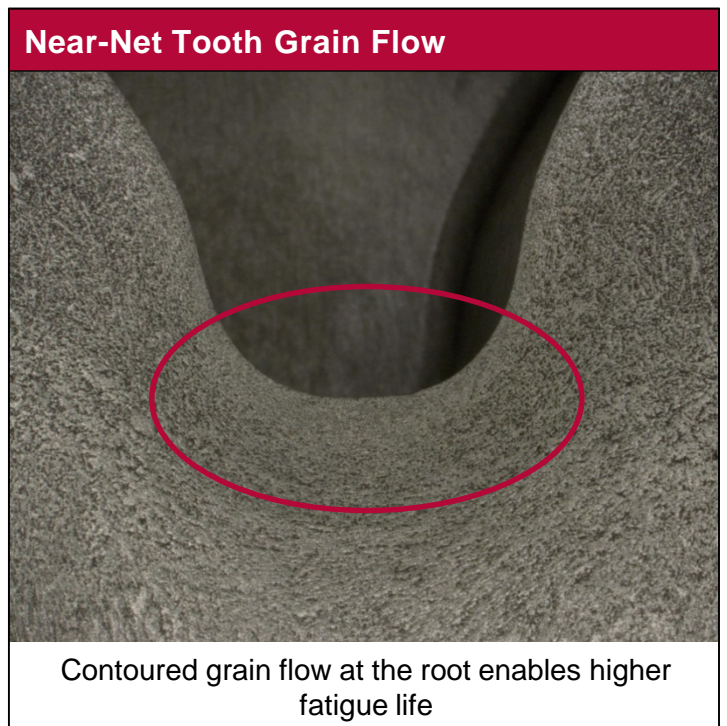
Manufacturing Capabilities

- Leverage high-volume purchases of bar material cut to precision billet length
- State-of-the-art CNC controls on induction heating equipment
- Mechanical and hydraulic forging presses
 - Press size range: 1,000 tons to 4,400 tons
- Fully internal and on-site heat treat
 - Carburize, quench and temper
- Machining
 - Full CNC turning, broaching, shaping, hobbing, honing, and hard turning in cellular and traditional layouts
 - Automation, including in-cell robotic deburring
- Tooling
 - Designed and manufactured in-house
 - EDM and 5 Axis CNC Die Milling
 - Forging process simulation
- Materials
 - SBQ: 4140, 4120, 4184 and many others
- Automated in-line inspection



Manufacturing Facilities

Product Sizes	
Bevel Gears	Straight or spiral/hypoid
Cylindrical Gears	Spur or helical
Sizes	<ul style="list-style-type: none"> ■ 1"-10" OD ■ Up to 13" in length ■ Up to 50 lbs.
Near-Net Forged Gear Quality	<ul style="list-style-type: none"> ■ AGMA classes 8-9 ■ DIN classes 8-9
Features	<ul style="list-style-type: none"> ■ Weight saving pockets ■ Splines: internal or external ■ Driver dogs
Tooth Profile	Unrestricted



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