

High-Accuracy Gears



Socare® USA manufactures a complete line of precision gearing designed to fit each customer application.

Dimension Range

- Machining capabilities up to 3700M

Module Range

- From M 1.5 to M 50 (DP 0.5 ~ DP 17)

Tooth Profile

- Straight Tooth
- Helical Tooth
- Wormwheel Tooth
- Herringbone Tooth
- Bevel Tooth

Accuracy Grade Available

- External Gear: 3-ISO 1328/97
- Internal Gear: 4-ISO 1328/97

Heat Treatment

- Includes nitriding, hardening and tempering—all done per specified ranges

Materials

- Carbon steel
- Alloy steel
- Stainless steel
- Aluminum alloy
- Zinc alloy
- Brass
- Gray iron
- Nodular cast iron
- Ductile iron specified (20CrMnTi, 20Cr, 40Cr, ZG45, etc.)

Standards

- ASTM
- AISI
- BS
- DIN
- JIS
- NF



socareusa.net

Socare International USA
2650 Bobmeyer Rd.
Hamilton, OH 45015
Phone 1-888-734-5690

High-Accuracy Gears



Processing Equipment

- CNC Spiral Bevel Gear Grinding Machine; PHOENIX® 27G/800G, Gleason, USA
- CNC Gear Grinding Center; VX55; VX59 Kappa, Germany
- Horizontal Five Axis Machining Center, GA 550, Graub, Germany
- Straight Bevel Gear Grinding Machine, KS-42, MAG, Switzerland
- CNC Gear Forming and Grinding Machine, ZE800, ZE400, KAPP Niles, Germany
- CNC Worm Wheel Grinding Machine, YKZ7250, Qin Chuan, China
- High Precision CNC Internal and External Cylindrical Grinding Machine, S33, Stuttgart, Switzerland, Ha Ting, USA
- Controllable Atmosphere Multi-Purpose Furnace Production Line RTQF-17-ERM, Ipsen, USA
- Germany (Epson) Controlled Atmosphere Multi Purpose Furnace Heat Treatment Production Line



Test Equipment

- Gear Measurement Center, M.Mx1500, Gleason, USA
- Gear Measurement Center, 3906, Ha Liang, China
- Three Coordinate Bearing Machine, 900* 1200* 800mm, Zeiss, Germany
- Horizontal Hard Support Balancing Machine, HM10BK, Schenk, Germany
- Fully Automatic Burn Detection Line
- Klingelnberg Gear Test Machine

Applications

- High-end CNC Tools
- Mining
- Cement and Mineral Processing
- Power Generation
- Steel Production
- Sugar, Chemical, Fertilizer, and Paper Industries
- Marine and Wind Power
- Robotics and Automation
- Machine Tools and CNC Machining
- Industrial Gearboxes



socareusa.net

Socare International USA
2650 Bobmeyer Rd.
Hamilton, OH 45015
Phone 1-888-734-5690