



GEAR CAPABILITIES

GEAR TYPES	Min. Diameter (inch)	Max. Diameter (inch)	DP / Mod Range	Max. Helix Angle	Face Width Max. (inch)	Machines Used
HELICAL (GROUND)						
External	0.5	27.5	1.7 - 48 / 14.94 - .53	45	12.9	Gear Grinders
HELICAL (CUT)						
External	0.5	72	1.5 - 120 / 16.93 - .21	45	24	Hobbers, Shapers
Internal	0.5	10	4 - 120 / 6.35 - .21	30	4	Shapers
SPUR (GROUND)						
External	0.5	27.5	1.7 - 48 / 14.94 - .53		12.9	Gear Grinders
SPUR (CUT)						
External	0.5	72	1.0 - 120 / 16.93 - .21		24	Hobbers, Shapers
Internal	0.5	36	3 - 120 / 8.47 - .21		6	Shapers, Broaches

GEAR TYPES	Min. Diameter (inch)	Max. Diameter (inch)	DP / Mod Range	Max. Helix Angle	Face Width Max. (inch)	Machines Used
SPLINES						
External	0.5	36	3 / 6 - 48 / 96		24	Hobbers, Shapers
Internal	0.5	36	3 / 6 - 48 / 96		6	Shapers, Broaches
STRAIGHT BEVELS	0.5	36	1.25 - 96 / 20.32 - .265		4.5	Gleason Bevel Generators
WORMS*	0.5	9.5	2 - 48 / 6.35 - .53			
WORM GEARS	0.5	36	2 - 48 / 6.35 - .53			Hobbers
SPROCKETS	0.5	72	0.125" - 3"			Hobbers, Shapers

*Typically outsource the thread milling and grinding



GEAR MACHINES

GEAR GRINDERS

- (1) Reishauer RZ400 with Robotic Loading
- (3) Reishauer RZ300E
- (1) Kapp Kx300p with Auto Load
- (1) Höfler Helix 400K CNC
- (1) Höfler Helix 700 CNC
- (2) Gleason Tag 400 CNC
- (1) Gleason 245 TWG CNC
- (1) Reishauer RZ260 with integrated robotic part loading
- (1) Reishauer RZ550 with integrated robotic part loading (Q1 2020)

HOBBERS

- (1) Liebherr LC 380
- (1) Gleason 782 G-Tech 6 Axis
- (1) Mitsubishi GC20
- (1) Mitsubishi GD20
- (1) Mitsubishi GE15A
- (1) Koepfer 200 with Automation
- (1) 16" Pfauter P400
- (1) 24" Pfauter P630
- (1) 36" Pfauter P900
- (1) 72" G&E
- (1) 60S G&E Gasher
- (2) Richardson R200 CNC
- (6) Barber Coleman from 6" to 16"
- (1) Gleason Genesis 400H
- (1) Wolf GH20-11D

SHAPERS

- (1) Fellows No. 4AGS
- (2) Fellows No. 36

BROACHES / KEYSEATERS

- (1) Ohio Horizontal Broach Model 10-60, 10-Ton
- (1) Mini-Broach Model A, 1-Ton
- (1) Colonial Horizontal Broach Model HAS-15-72, 15-Ton
- (1) Davis Keyseater
- (2) Mitts & Merrill Keyseater: 3A, 6HFR-KS
- (1) Oil Gear 20-Ton, 64" Stroke Horizontal Broach
- (1) Mini-Broach 20-Ton, 64" Stroke Horizontal Broach

BEVEL GEAR GENERATORS

- (1) Gleason #24A Coniflex Bevel Generators
- (2) Gleason #14 Coniflex Bevel Generators
- (1) Gleason #2A Coniflex Bevel Generators
- (2) Gleason #104 Coniflex Bevel Generators

OTHER CAPABILITIES

Turning, Milling, Honing, Deburring, Assembly, Laser Marking
 – Including an Almco 48", 2-Spindle, Semi-Automatic Spindle
 Deburring System

GRINDING (ID, OD, SURFACE)

- (1) SNI – CNC 2-Axis, Bore and Face
- (1) Tripet TST 100 2R CNC
- (1) Bryant Twin Spindle Bore and Face
- (1) Kellenberger URS 175/1000 Universal, CNC 2-Axis, ID/OD
 Anglehead Grinder: 12.5" dia. x 40" long
- (2) Toyoda GL4A, CNC 2-Axis, 30° Anglehead Grinder:
 12" dia. x 20" long
- (1) Toyoda GL4A, CNC 2-Axis, 30° Anglehead Grinder:
 12" dia. x 40" long
- (1) Cincinnati 215, CNC 2-Axis, 30° Anglehead Grinder:
 14" dia. x 48" long
- (1) Norton 6 x 30 CTU Cylindrical
- (1) Cincinnati 6R-18L Cylindrical
- (2) Myford High Precision O.D.
- (1) Elgin 36" Rotary Surface
- (2) Heald No. 361 Rotary Surface
- (1) Blanchard No. 18 Surface
- (1) Heald 271 Slide-Bar, Twin-Spindle Bore and Face
- (4) Heald ID Bore: Model 171, 271, 273A, 274
- (1) Studer S121 2-Spindle Universal Cylindrical ID and Face
 Grinder

GEAR INSPECTION

- (1) Wenzel GearTec WGT350 CNC Analyzer
- (1) Höfler ZME 402 Gear Analyzer
- (1) Höfler EMZ 402 Gear Inspection and CMM System
- (1) Klingelberg PSFU1200 with Tri-check® Computer Analysis
- (1) Klingelberg PNC 60 CNC Gear Inspection Machine
- (1) Höfler EMZ 632 Gear Analyzer

OTHER INSPECTION

- (1) Helmel Microstar 325-202 DCC CMM
- (1) Brown & Sharpe Global Class 555 SCAN CMM
- (2) United Tool 8600 Unite-A-Matic Gear Size Checkers
- (2) Fellows 12M Involute Instrument
- (1) Fellows 12H Lead Instrument
- (1) Profile Engineering PC-20 Composite Gear Analyzer
- (1) Brown & Sharpe Gage 2000 CMM



The logo for China Gear Motions Inc. features a stylized red gear shape above the company name. The gear is composed of several curved segments, with the top and bottom segments being larger and more prominent, creating a semi-circular arc.

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