



Rexnord Gear Manufacturing Services Capabilities

Rexnord manufactures high-quality, custom precision spur and helical gearing and gearboxes serving the mining, oilfield, wind, transit and other industrial markets. Our technical skills and integrated production capabilities enable us to develop cost-effective solutions for the most demanding applications. Below are specifications for our range of capabilities. For more information, call 844-410-GEAR (4327).

Large Gear Inspection Capabilities

DCC Coordinate Measuring	Inches (in)	Metric (mm)	C Coordinate Measurement	Inches (in)	Metric (mm)
Y - axis	24	600	W - axis	39	1000
Y - axis	26	650	X - axis	22	550
Z - axis	20	500	Y - axis	59	1500
Part Size (X,Z)	32.7 x 21.2	830 x 540	Z - axis	47	1200
Maximum Part Weight	2500 Lbs.	1136 Kg	Part Size (X,Z)	118	3000
			Maximum Part Weight	42,900 Lbs.	19.5 Metric Tons
CNC Gear Measuring	Inches (in)	Metric (mm)			
Pitch	50.8 - 1.27 DP	20 -.5 MOD			
Maximum Diameter	25	630			
Maximum Measuring Height	30	750			
Maximum Table Loading	770 Lbs.	349 KG			
CNC Gear Measuring (On Board)	Inches (in)	Metric (mm)			
Maximum Diameter	63	1600			
Maximum Part Weight	10,000 Lbs.	4536 Kg			

In house Heat Treatment Capabilities

Process	Equipment	Dimensions (In)	Degrees Fahrenheit (F)	Pounds
Gas Carburizing and Hardening	4 Furnaces	30H x 30W x48L	1800	900
Tempering	9 Ovens	39H x 30W x 48L	1300	900
Annealing	4 Ovens	30H x 30W x48L	1400	900
Annealing Protective Gas	3 Furnaces	30H x 30W x48L	1800	900
Stress-Free Annealing Protective Gas	3 Furnaces	30H x 30W x48L	1800	900
Nitriding	Furnace	36 Dia. x 42 Deep	700	1000
Straightening	Pres	60 Long 150 Ton	NA	NA
Induction Hardening	2 Inductions	42L x 12 Dia.	NA	200
CNC Tooth by Tooth	Induction	16 Dia x 12 Long	NA	50
Face Width	1625	64		

Large Capacity Heat Treatment Capabilities

Process	Equipment	Dimensions (in)	Degrees Fahrenheit (F)	Pounds
Gas Carburizing and Hardening	3 Furnaces	90 Dia. X 72 Deep	1500 - 1800	28,000
Tempering	2 Ovens	91 Dia. X 72 Deep	350-1200	28,000
Quench Tanks	2 Tanks	91 Dia. X 72 Deep	80 - 250	28,000
HPC - Typhoon Turntable Washer	1 Turntable Washer	Turntable Diameter - 100, Max Height 72	160	30,000
Blaster	1 Blast Cabinet	96 Deep x 60 High		20,000

Super Finishing Vibratory Capabilities

Machine	CU/FT Capacity	Horse Power	Speed Control	Work Chamber	Inches (in)
CTT-15 Vibratory	10 CU/FT	7.3 HP Direct Drive	Variable Speed	24W x 24D x 48L	39
CTT-12 Vibratory	15 CU/FT	7.3 HP Direct Drive	Variable Speed	24W x 24D x 60L	22

CNC Grinding Capabilities

Cylindrical Grinding (OD Grinding)	Inches (in)	Metric (mm)
Grinding Diameter	17	432
Grinding Length	48	1219
Internal Grinding	Inches (in)	Metric (mm)
Grinding Diameter (Swing Diameter)	60	1524
Grinding Diameter (Max Bore Size)	50	1270
Face Width	12	305
OD Grinding	Inches (in)	Metric (mm)
Grinding Diameter (Swing Diameter)	12.6 x 39.4	320 x 1000
Grinding Diameter (Max Bore Size)	20 X 4.7	508 x 119
Face Width	64	1625
Surface Grinding	Inches (in)	Metric (mm)
Large Grinding Diameter	60	1524
Large Work Piece Height	10	250

Gearing Capabilities

Gear Tooth Grinding	Inches (in)	Metric (mm)
OD Diameter	138	3500
Face Width	64	1625
Module/DP	.75 DP	34 MOD
Internal - Gear Tooth Grinding	Inches (in)	Metric (mm)
ID Diameter	79	2000
Face Width	39	1000
Module/DP	.75 DP	34 MOD
Gear Hobbing	Inches (in)	Metric (mm)
Diameter	79	2000
Face Width	64	1625
Module/DP	1.15	22 MOD
Gear Shaping	Inches (in)	Metric (mm)
Diameter (Internal)	36	914.4
Diameter (External)	40	1016
Face Width	6	152.4
Module/DP	3 DP	8 MOD

Milling Capabilities

Vertical	Inches (in)	Metric (mm)
Table Dimensions	68.5 x 25.4	1740 x 647
Table Loading	500 lbs.	230 Kg
X-axis	59	1500
Y-axis	26	650
Z-axis	24	600

Balancing Capabilities

Process	Balancing Speed	Inches (in)	Metric (mm)	Inches (in)	Pounds
Single Plane Balancing	60 - 900 RPM	28	700	39	350 Lbs.
Two Plane Dynamic Balancing Capability	Infinitely Variable	63	1600	22	6,600 Lbs.

Horizontal Machining Center Milling Capabilities

Vertical	Inches (in)	Metric (mm)
Table Dimensions	64 x 32	1626 x 813
Table Loading	10,000 Lbs.	4536 Kg
A-axis	30 - 5° Axis	762 - 5° Axis
X-axis	64	1626
Y-axis	40	1026
Z-axis	40	1026

Broaching/Key Seating

Horizontal Broaching	Inches (in)	Metric (mm)
Pull Capacity	37.5 Tons	34 Metric Tons
Pull Length	72	1828.8
CN Key Seating	Inches (in)	Metric (mm)
Maximum Key Width	3	76.2
Face Width	24	609.6

Turning Capabilities

CNC Turning		Inches (in)	Metric (mm)
Chuck Parts	MAX. O. D.	59	1498.6
Shaft Parts	Swing	33	845
Shaft Parts	Turning Length	80	2025
Y-axis	650		26
Z-axis	600		24