

**Gearing Capabilities**

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

**CNC Grinding Capabilities**

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

**Broaching/Key Seating**

Horizontal Broaching		
Metric (MM)	English (Inches)	
Pull Capacity	34 Metric Tons	37.5 Tons
Pull Length	1828.8	72

**CN Key Seating**

Metric (MM)	English (Inches)	
Maximum Key Width	76.2	3
Face Width	609.6	24

**Milling Capabilities**

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

**Horizontal Machining Center - Milling Capabilities**

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

**Heat Treatment Capabilities**

Process	Equipment	Dimensions Inches	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	Press	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

**Large Capacity - Heat Treatment Capabilities**

Process	Equipment	Dimensions Inches	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
Process	Equipment	Dimensions Inches	F°	Pounds
HPC - Typhoon Turntable Washer	1 Turntable Washer	Turn Table Diameter - 100", Max Height 72"	160	30,000
Blaster	1 Blast Cabinet	96 Deep x 60 High		20,000

**Turning Capabilities**

CNC Turning		Metric (MM)	English (Inches)
Chuck Parts	MAX. O. D.	1498.6	59
Shaft Parts	Swing	845	33
Shaft Parts	Turning Length	2025	80

**Inspection Capabilities**

DCC Coordinate Measuring			Large Gear - Inspection Capabilities		
Metric (MM)	English (Inches)	Coordinate Meas	Metric (MM)	English (Inches)	
Y - axis	600	24	W - axis	1000	39
Y - axis	650	26	X - axis	550	22
Z - axis	500	20	Y - axis	1500	59
Part Size (X,Z)	830 mm x 540 mm	32.7 x 21.2	Z - axis	1200	47
Maximum Part Weight	1136 Kg	2500 Lbs.	Part Size (X,Z)	3000	118

**CNC Gear Measuring**

Metric (MM)	English (Inches)	Maximum Part Wei
Pitch	20 -.5 MOD	50.8 - 1.27 DP
Maximum Diameter	630	25
Maximum Measuring Height	750	30
Maximum Table Loading	349 KG	770 Lbs.
CNC Gear Measuring (On Board)	Metric (MM)	English (Inches)
Maximum Diameter	1600	63
Maximum Part Weight	4536 Kg	10,000 Lbs.

**Balancing Capabilities**

Process	Balancing Speed	Metric (MM)	English (Inches)	Pounds
Single Plane Balancing	60 - 900 RPM	700	28	350 Lbs.
Two Plane Dynamic Balancing Capability	Infinitely Variable	1600	63	6600 Lbs.

**Super Finishing - Vibratory Capabilities**

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