



**NORWEST
PRECISION LTD.**

MACHINING | FABRICATION | ASSEMBLY

Equipment Envelope



Equipment Envelope – Boring Mills

CNC Boring Mills						
Machine Name	Description	X	Y	Z	Capacity	Other Features
Pama	CNC Floor Type HBM	900 in.	200 in.	80 in.	80 t	NC Boring/Facing Head
Toshiba	CNC Floor Type HBM	800 in.	175 in.	60 in.	40 t	12 ft x 12 ft Rotary Table
San Rocco	CNC Floor Type HBM	750 in.	160 in.	48 in.	40 t	NC Boring/Facing Head
San Rocco	Twin Rotary Table CNC HBM	400 in.	94 in.	60 in.	20 t	2 Rotary Tables
CORREA SUPRA	5 AXIS CNC HBM	396 in.	144 in.	180 in.		12 ft x 12 ft Rotary Table
CORREA AXIA	5 AXIS CNC HBM	396 in.	144 in.	156 in.		12 ft x 12 ft Rotary Table
Alesamonti MMC	4 Axis CNC Floor Type HBM	336 in.	168 in.	36 in.		360 Degree Rotary Table
OMV	CNC Universal Milling Center	335 in.	102 in.	63 in.	30 t	
San Rocco	Twin Rotary Table CNC HBM	315 in.	74 in.	60 in.	10 t	2 Rotary Tables
Mecof CS-500	4 Axis Bed Type Boring Mill	236 in.	68 in.	49 in.		Indexable Head
TOS	CNC T-type Horizontal Boring Mill	160 in.	100 in.	60 in.	20 t	100 in. x 71 in. rotary table
FPT SIRIO M TYPE	CNC Floor Type HBM	157 in.	47 in.	78 in.		196 in. x 118 in. rotary table

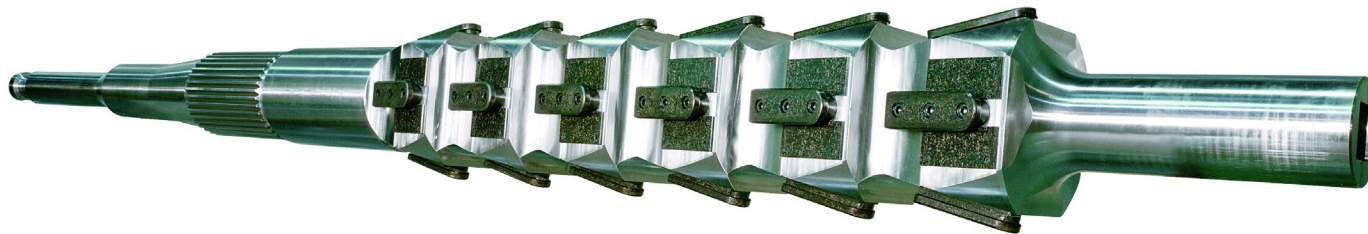


Equipment Envelope – Boring Mills

CNC Boring Mills						
Machine Name	Description	X	Y	Z	Capacity	Other Features
Alesamonti At127	4 Axis CNC Table Type HBM	140 in.	70 in.	70 in.		360 Degree Rotary Table
Alesamonti AT127	4 Axis CNC Type HBM	140 in.	70 in.	70 in.		360 Degree Rotary Table
SNK Nissin	5 Axis CNC HBM	137 in.	98 in.	62 in.		
SNK IKEGAI	NB130PE HBM w/ ATC	137 in.	98 in.	62 in.		62 in. x 86 in. Rotable Table
Olympia	5 Axis CNC HBM	118 in.	59 in.	45 in.		
CORREA	CNC Universal Milling Center	100 in.	30 in.	30 in.		Indexable Head
Mecof CR-15	4 Axis Bed Type Boring Mill	98 in.	39.3 in.	47 in.		Indexable Head
Alesamonti MCS100	4 Axis CNC Table Type HBM	80 in.	80 in.	40 in.		360 Degree Rotary Table
Alesamonti MCS100	4 Axis CNC Table Type HBM	80 in.	80 in.	40 in.		360 Degree Rotary Table
PFG	CNC Table Type HBM	100 in.	100 in.	60 in.	7 t	71" x 49" Rotary Table
San Rocco	CNC Table Type HBM	78 in.	59 in.	39 in.	3 t	51" x 43" Rotary Table

Equipment Envelope – CNC Lathes

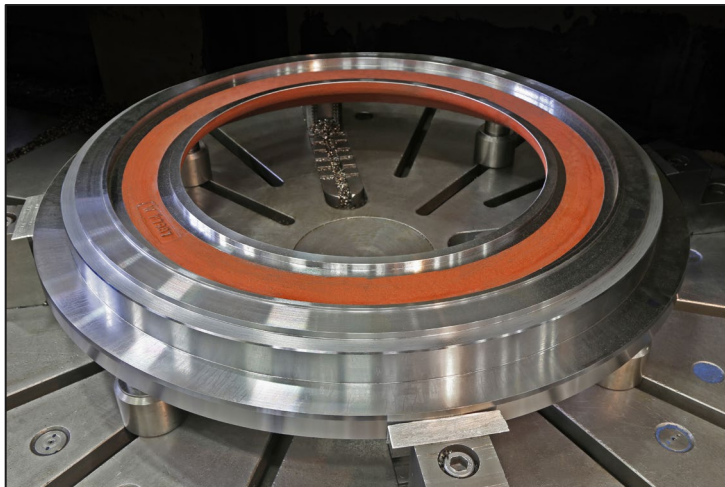
CNC Lathes						
Machine Name	Description	X	Y	Z	Capacity	Other Features
Giuseppe Giana – GGH1700CNC	7-Axis CNC Lathe with Live Tools	103 in.		157 in.	30 t	
Giuseppe Giana – GGH1700CNC	7-Axis CNC Lathe with Live Tools	79 in.		472 in.	30 t	
Giana Spa	CNC Lathe	63 in.		236 in.	20 t	
Giana Fratelli – GFB14CNC	CNC Lathe	56 in.		173 in.		
Giana Spa – GfSC12CNC	7-Axis CNC Lathe	55 in.		550 in.		
VDF 1000	CNC Lathe	39 in.		120 in.	3 t	
VDF 315	5 Axis CNC Lathe with live tools.	22 in.		80 in.	1 t	
VDF 560	CNC Lathe	22 in.		80 in.	1 t	
Ecoca – MT415MC CNC LATHE	5-Axis CNC Lathe with Live Tools	16 in.		78 in.		Off-Centre Y-axis Machining
Ecoca – MT3YS CNC LATHE	5-Axis CNC Lathe with Live Tools	14 in.		29 in.		Live Tool -Y-axis Machining





Equipment Envelope – CNC VBMs

CNC Vertical Boring Mills (VBMs)						
Machine Name	Description	X	Y	Z	Capacity	Other Features
O-M	CNC VBM w/ ATC	158 in.		87 in.	22 t	
Staveley – Craven Swift	Double Column VBM	154 in.		96 in.	30 t	
CARNAGHI VBM	4 AXIS CNC VBM with Live Tools	118 in.		75 in.	30 t	
CENTURY VBM	CNC VBM w/ ATC	104 in.		72 in.	22 t	
CENTURY VBM	CNC VBM w/ ATC	93 in.		70 in.	20 t	
TITAN VBM	4 AXIS CNC VBM with Live Tools	73 in.		72 in.	20 t	

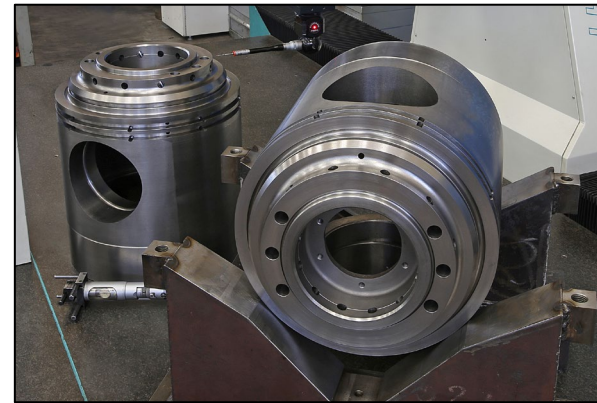




Equipment Envelope – CNC VMCs

CNC Milling - VMCs (all with Tool-Changers)

Machine Name	Description	X	Y	Z	Capacity	Other Features
Caser	3 AXIS CNC Milling Machine	80 in.	42 in.	32 in.	4 t	
KITAMURA MYCENTER 7X	3 AXIS	60.3 in.	25.5 in.	35 in.	4 t	
ENSHU VMC 650V	3 AXIS	52 in.	26 in.	22 in.	4 t	
HERMLE 1200 U	5 AXIS CNC Milling Machine	47 in.	31.5 in.	19.6 in.		
HERMLE 1200 V	3 AXIS CNC Milling Machine	47 in.	35 in.	19.6 in.		
KITAMURA MYCENTER 4	3 AXIS	44.5 in.	22.3 in.	29 in.		
Quantity of 3 ENSHU VMC 550V	3 AXIS	42 in.	22 in.	22 in.		
AWEA AF1000 3 AXIS VMC	3 AXIS	40 in.	22 in.	25 in.		Laser Measuring
HERMLE UWF 851 H	3 AXIS	23.5 in.	17.3 in.	45 in.		





Equipment Envelope – CMMs

Coordinate Measuring Machines (CMMs) & Quality

Machine Name	Description	X	Y	Z	Capacity	Other Features
DEA	Bridge Type	128 in.	54 in.	54 in.	7 t	
Wenzel	Bridge Type	75 in.	40 in.	36 in.	2 t	Indexing Probe
Zeiss	Bridge Type	55 in.	66 in.	36 in.	3 t	Indexing Probe

