

TOSHULIN

Vertical Turning Center

POWERTURN 1600-3

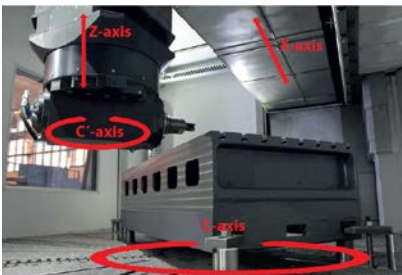
Features:

- Compact Floor Plan
- Full Contouring C axis with Live Spindle
- Heavy Duty Box Way Design
- 6 Position Cross Rail with M code programming
- Flat Floor Foundation, Clean and Easy Installation
- Full Enclosure with Easy Operator Access Through the Ram Flood Coolant
- 12.59 x 12.59 RAM for Efficient and Rugged Machining
- Blum MicroCompact Tool Measuring System
- Blum TC60 Workpiece Probe

Tooling Adaptors Included:

- Vertical Motorized Milling Adaptor 8,000 rpm HSK63A
- Horizontal Motorized Milling Adaptor 8,000 rpm HSK63A
- Horizontal C-axis Milling Adaptor (Y-axis) HSK 63A
- Vertical Milling Adaptor HSK 63A
- Square Tooling Adaptor
- Horizontal Left Turning Adaptor Sandvik C6
- Vertical Left Turning Adaptor Sandvik C6

BASE MACHINE		unit	POWERTURN 1600
Table Size		inch	62.9
Maximum Part Swing		inch	78.7
Maximum Part Height		inch	55.1
Chuck		4 Jaw Hydraulic Chuck – Self Centering	
Axis Travel	X right	inch	53.1
	X left	inch	41.3
	Z - Ram	inch	50.4
	Rail	6 positions	3.93 each / 31.5
Table Speed		rpm	400
Table Power		hp	100
Live Spindle		rpm	4,500
Live Spindle Power		hp	38
Table C axis		Continuous	
Table	Capacity	Lbs.	35,200
Coolant System		PSI	1,000
ATC		Chain	59 tools holders and 7 adaptors
Control		Type	Siemens 840 D



C-Axis Adaptor Pictured



POWERTURN 1600-3

December 2017 shipment from the Factory



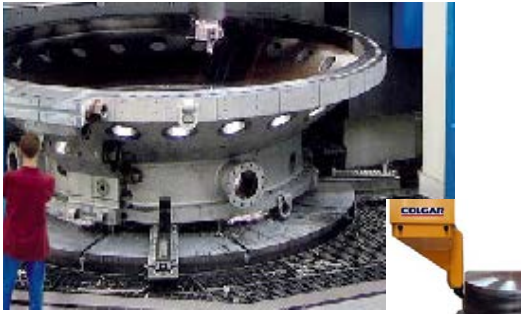
COLGAR **FVG 60 M**

Traveling Gantry – Movable Rail

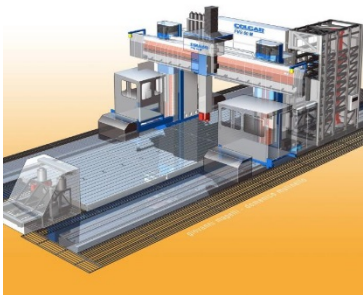
Features:

- Heavy Duty Hydrostatic Box Way Design
- 16.5" x 16.5" RAM for Efficient and Rugged Machining
- Automatic Head Changing
- Infinite Positioning Cross Rail (W axis)
- Three (3) Position Head Storage Rack
- Two (2) Chip Conveyors with Elevator Discharge
- Through the Ram Flood Coolant – 60 PSI / 26 GPM
- Through the Tool Coolant – 217 PSI / 8 GPM
- Wide Variety of Optional Milling Heads
- Higher Pressure Coolant Options Available
- Optional Tool and Part Probes Available
- Optional X travel can be added for longer travel

BASE MACHINE	unit	FVG 60 M
Floor Plate Size	inch	472 x 196 x 12
Distance Between Columns	inch	244
Maximum Part Height *floor plates at floor level	inch	126*
Axis Travel	X	inch 393
	Y	inch 287
	Z - Ram	inch 70.8
	W Cross Rail	inch 78.7
Spindle Speed	rpm	3000
Spindle Power	hp	120
Spindle Torque	ft-lbs.	2560
Ram Size	inch	16.5 x 16.5
Axis Rapid Rates	inch	984 ipm
Spindle Taper		ISO 50
ATC	Chain	90 positions
Control	Type	Siemens 840 D



The available 118", 241 HP - 220 RPM turning table can be added to the machine.



FVG 60 M – Movable Rail

6 month shipment from the COLGAR Factory

Reiden

RX 12 T Mill/Turn APC

High Performance 5 -Axis Machining Center

Features:

- Compact Floor Plan
- DCM Collision Monitoring
- Micro-Epsilon Spindle Growth System
- Rigid /Thermal Friendly Hydropol Design
- Full Enclosure with Easy Operator Access
- REIDEN 12,000 rpm/ 100 HP spindle
- REIDEN 400 rpm 50 HP turning table
- 2 position APC (automatic pallet changer)
- High Pressure Chip/Coolant System with Mist Collector
- 1,160 PSI Coolant Through the Spindle
- RotoClear Viewing Window
- Air Blast Through the Spindle
- Camera and Remote Control
- Blum Novotest NT-H-3D tool laser
- Blum TC60 Part Probe with auto kinematicOpt

BASE MACHINE		unit	RX 12 T APC
Table Size		inch	47.2 Round
Tool Clamp (Base Spindle)		HSK	100 A
Axis Travel	X	inch	51.2
	Y	inch	57.1
	Z	inch	39.3
	A	degrees	-1 to +90 cont.
	C	degrees	360 cont.
Spindle RPM		rpm	12,000
High Torque Spindle Motor		hp	100 HP S1
Rapid/Feed Rates	X,Y,Z	ipm	1,968
	C	rpm	1-400 rpm turning
	C	rpm	0-30 rpm milling
	A	dpm	10,800 dpm
Table	Swing	inch	59.0 with APC
	Capacity	Lbs.	4,400
	Drive	Type	Direct
	Power	hp	50
Coolant System		PSI	1,160
ATC		#	191
Control		Type	Heidenhain TNC640



Immediate shipment from the Reiden Factory