

## STANDARD FEATURES

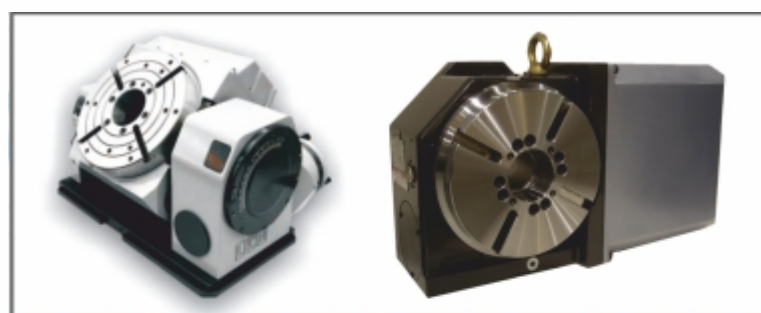
- Alarm Light
- Flexible Cover
- Mistubishi M80 Controller
- Full Enclosure
- BT40 Spindle
- Rigid Tapping
- Heat Exchanger
- Operating Manual
- Level Adjusting Bolt and Pads
- Rail Auto Lube System
- Remote MPG

## OPTIONAL FEATURES

- Transformer
- Spindle (direct type) (DDS)
- 4th / 5th Axis Rotary Table Tailstock and Chuck
- Chip Conveyor / Chip Screw
- Auto Power off System
- Spindle Auto Air Blast Device
- Coolant thru Spindle
- Flood Coolant
- A.T.C. (Arm Type) 24 Tools
- Spindle Oil Cooler



SPINDLE SPLASH RING



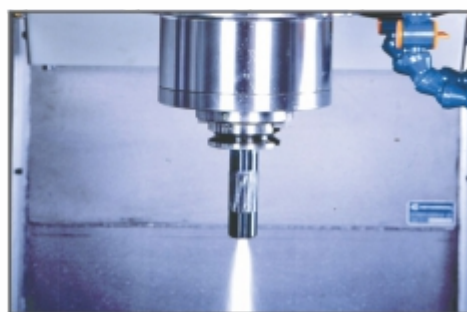
4th & 5th AXIS ROTARY TABLE



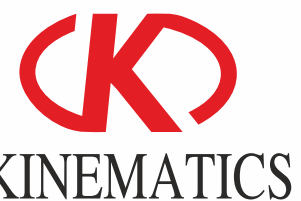
CHIP AUGER



SPINDLE OIL COOLER



COOLANT TROUGH SPINDLE (CTS)



## VERTICAL MACHINING CENTER

THE RISING STAR IN MACHINING INDUSTRY



### KINEMATICS MACHINES PVT. LTD.

Mumbai Office : 610, Nirmal Buisness Centre, Near Nirmal Lifestyle Mall, LBS Road, Mulund (W), Mumbai

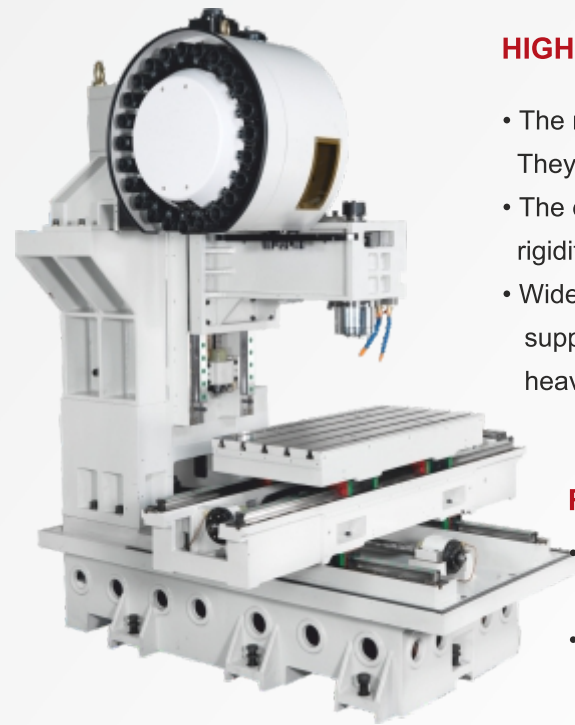
Nashik Office : 105, Space Star, Near MICO Circle, Tidke Colony, Nashik - 422002

Factory : K-38, MIDC, Ambad, Nashik -422010

+91 253 2312172 +91 94222 62857 sales@kinematicsmachines.com

www.kinematicsmachines.com

- Meehanite Casting
- Roller Guideways
- High Rigidity
- Small Foot Print

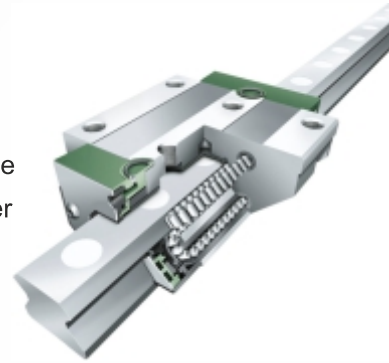


### HIGH RIGIDITY, HIGH ACCURACY CONSTRUCTION DESIGN

- The major construction parts are based on Mehanite cast iron. They are stable and precision-proved in structure
- The enhanced ribs in major construction parts provide the super rigidity for heavy duty cutting or for high speed cutting
- Wide base, box-shaped column, enhanced saddle and full supported workpiece structure all contribute to the ability for heavy duty machining

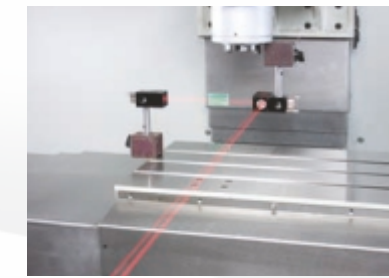
### ROLLER GUIDE WAYS

- Roller guide ways have high load carrying capacity.
- Vibration damping is better because roller guide ways deflect less under varying loads.



### HIGH SPEED AND HIGH ACCURACY SPINDLE

- We use top brand Taiwanese spindle.
- The spindle adopts super precision angular contact ball bearings.
- The four jaws collet provides reliable tool holding force, large contact area, low wear and long service life.
- The advanced high strength timing belt is applied to ensure high torque transmission, no slip and low rotation noise



### LASER INSPECTION



### STABLE AND RELIABLE ATC

- We provide Taiwanese ATC with 24 tools.
- The fast, simple and long-life automatic tool changer provides stable and reliable tool change.

	Model	Unit	VM 710	VM 850	VM 1060	VM 1270	VM 1370	
Table	X-axis	mm	650 (710)	850	1030	1200	1300	
	Y-axis	mm	450	600	600	700	700	
	Z-axis	mm	460	560(650)	560 (650)	650	650/700	
Distance	Spindle center to column	mm	514	598	598	730	730	
	Spindle nose to table surface	mm	150-600	150-700	150-700	150-800	150-800	
Table	Table work area (L×W)	mm	760 × 420	1000 × 600	1100 × 600	1350 × 600 (700)	1450 × 700	
	Max. table load	Kg	500	700	1000	1200	1500	
	T-slot dimensions	mm	3 × 18 × 100	5 × 18 × 100	5 × 18 × 100	5 × 18 × 100	5 × 18 × 100	
Rapid feed rate	X / Y / Z - axis	M/min	36 / 36 / 32	36 / 36 / 32	36 / 36 / 32	30 / 30 / 25	25 / 25 / 25	
Controller	Mitsubishi / ( Fanuc / Heidenhain)							
Spindle	Spindle taper	BT 40						
	Spindle motor	KW	5.5/7.5 (7.5/11)	5.5/7.5 (7.5/11)	7.5/11 (11/15)	7.5/11 (11/15)	11/15 (15/18.5)	
	Belt-drive BT-40	rpm	10000	8000(10000/12000)				
	Direct drive BT-40 (opt.)	rpm	10000/12000/15000					
	Belt-drive BT-50	rpm	N/A			6000/8000		
	Direct-drive BT-50 (opt.)	rpm	N/A			8000/10000		
ATC	Arm type		20/24					
Miscellaneous	Power consumption	KVA	30	35	35	35	45	
	Pneumatic supplier	Kg/sq.cm	6	6	6	6	6	
	Coolant tank capacity	litre	240	275	340	475	490	
	Machine weight	Kg	4800	6500	6800	7800	9000	
	Floor space (L×W)	mm	2180 × 2040	2620 × 2090	2900 × 2090	3398 × 2221	3650 × 2220	
	Packaging size (L×W×H)	mm	2460×2290×2560	2460×2290×2560	3180 × 2310 × 2560	3500 × 2310 × 2560	3800 × 2310 × 2560	

\* Specifications and design characteristics are subject to change without prior notice