



Your Total Molds Solution
VERTICAL MACHINING CENTERS

VMC-1370L

A New Direction in
High Speed Machining from PROMPT

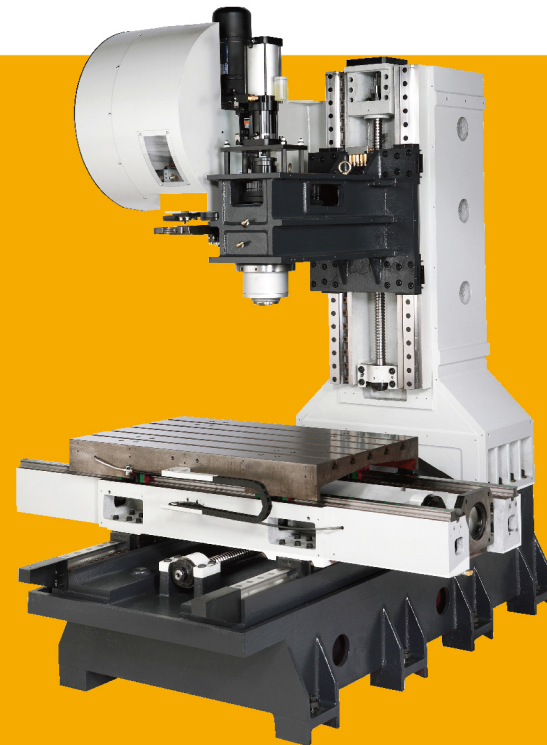


PROMPT INTEGRATED TECHNOLOGY LTD

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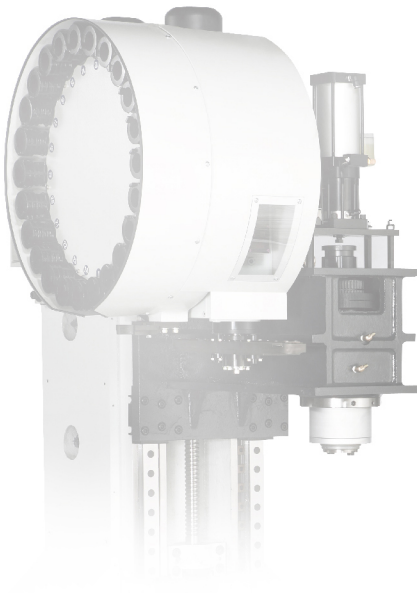
**DESIGNED FOR HIGH
PRODUCTIVITY MACHINING
X/Y/Z: LINEAR GUIDE WAY**

L Series



SPECIFICATIONS

	VMC-500L	VMC-700L	VMC-860L	VMC-1160L
Travel				
X axis travel	500 mm	700 mm	800 mm	1100 mm
Y axis travel	400 mm	500 mm	600 mm	600 mm
Z axis travel	500 mm	500 mm	600 mm	600 mm
Spindle nose to table	125~625 mm	130~630 mm	150~750 mm	150~750 mm
Spindle center to column front	500 mm	500 mm	600 mm	600 mm
Work Table				
Work table size	600*400 mm	800*500 mm	1000*600 mm	1200*600 mm
Max. loading	400 kg	400 kg	800 kg	1000 kg
T-slot pitch / width / no.	100 x 14 mm x 3T	100 x 18 mm x 5T	100 x 18 mm x 5T	100 x 18 mm x 5T
Feedrate				
X / Y / Z rapid feedrate	36 / 36 / 24 m/min	36 / 36 / 24 m/min (opt: 48 / 48 / 48)	36 / 36 / 24 m/min (opt: 48 / 48 / 48)	36 / 36 / 24 m/min (opt: 48 / 48 / 48)
Cutting speed	10 / 10 / 10 m/min	10 / 10 / 10 m/min	10 / 10 / 10 m/min	10 / 10 / 10 m/min
Headstock				
Spindle motor cont./30min	7.5 / 11 kw	7.5 / 11KW	7.5 / 11KW	7.5/11KW
Spindle taper	BT40	BT40	BT40	BT40
Spindle speed	10,000 rpm (opt:1,2000/15,000)	10,000 rpm (opt:1,2000/15,000)	10,000 rpm (opt:1,2000/15,000)	10,000 rpm (opt: 1,2000/15,000)
ATC				
Tool no & type	20 Arm	24 Arm	24 Arm	24 Arm
Max. tool diameter x length	Ø75 x 250 mm	Ø80 x 300 mm	Ø80 x 300 mm	Ø80 x 300 mm
Max. tool weight	7 kg	7 kg	7 kg	7 kg
General information				
Air pressure	6 kg / cm ²	6 kg / cm ²	6 kg / cm ²	6 kg / cm ²
Coolant tank capacity	150L	150L	300L	300L
Machine weight	3400 kg	4200 kg	5500 kg	6200 kg
Gross weight	3700 kg	5500 kg	5800 kg	6500 kg
Floor space (L x W x H)	175*230*198 cm	210*228*235 cm	300*219*246 cm	300*219*246 cm
Packing size (L x W x H)	285*228*255 cm	240*228*245 cm	345*228*250 cm	345*228*250 cm
Positioning	0.005 mm/ 300 mm	0.005 mm/ 300 mm	0.005 mm/ 300 mm	0.005 mm/ 300 mm
Repeatability	+/-0.003mm	+/-0.003mm	+/-0.003mm	+/-0.003mm



	VMC-1270L	VMC-1370L	VMC-1570L
Travel			
X axis travel	1200 mm	1300 mm	1500 mm
Y axis travel	700 mm	700 mm	700 mm
Z axis travel	700 mm	700 mm	700 mm
Spindle nose to table	150~850 mm	150~850 mm	150~850 mm
Spindle center to column front	700 mm	700 mm	700 mm
Work Table			
Work table size	1500*700 mm	1500*700 mm	1650*700 mm
Max. loading	1200 kg	1200 kg	1500 kg
T-slot pitch / width / no.	100 x 18 mm x 7T	100 x 18 mm x 7T	100 x 18 mm x 7T
Feedrate			
X / Y / Z rapid feedrate	36 / 36 / 24 m/min (opt: 48 / 48 / 48)	36 / 36 / 24 m/min (opt: 48 / 48 / 48)	36 / 36 / 24 m/min (opt: 48 / 48 / 48)
Cutting speed	10 / 10 / 10 m/min	10 / 10 / 10 m/min	10 / 10 / 10 m/min
Headstock			
Spindle motor cont./30min	11/15KW	11/15KW	11 / 15 kw
Spindle taper	BT40/BT50	BT40/BT50	BT40/BT50
Spindle speed	10,000/6,000 rpm (opt:1,2000/15,000)	10,000/6,000 rpm (opt:1,2000/15,000)	10,000/6,000 rpm (opt:1,2000/15,000)
ATC			
Tool no & type	24/30 Arm	24/30 Arm	24/30 Arm
Max. tool diameter x length	Ø80 x 300 mm Ø100 x 300 mm	Ø80 x 300 mm Ø100 x 300 mm	Ø80 x 300 mm Ø100 x 300 mm
Max. tool weight	7/15 kg	7/15 kg	7/15 KG
General information			
Air pressure	6 kg / cm ²	6 kg / cm ²	7 kg / cm ²
Coolant tank capacity	300L	300L	350L
Machine weight	8500 kg	8500 kg	11000kg
Gross weight	9000 kg	9000 kg	11500 kg
Floor space (L x W x H)	300*219*246 cm	300*219*246 cm	370*330*260 cm
Packing size (L x W x H)	385*310*315 cm	385*310*315 cm	400*232*256 cm
Positioning	0.005 mm/ 300 mm	0.005 mm/ 300 mm	0.005 mm/ 300 mm
Repeatability	+/-0.003mm	+/-0.003mm	+/-0.003mm

*The above specifications subject to change without prior notice.

STANDARD ACCESSORIES

- Mitsubishi M70-2A controller
- Coolant system
- Auto lubrication system
- Working & warning lamps
- Spindle air blast (M code)
- Toolbox and tools
- Fully enclosed splash guard
- RS-232 interface
- Rigid tapping
- Auto power off
- Heat exchanger for electric box
- M.P.G
- leveling bolts and pads
- Power transformer
- Manuals, quality check report and warranty note

OPTIONAL ACCESSORIES

- Mitsubishi M80/M720/M730 controller
- 12000/15000 rpm spindle (BT, CAT, DIN)
- Fanuc Oi-MF controller
- Siemens 828D/840D controller
- 4th/5th axes CNC rotary or indexing table
- Chip conveyor with basket
- Coolant through spindle
- Tool measurement system
- Workpiece measurement system
- Oil skimmer
- Spindle chiller
- 3 axes linear scales

**DESIGNED FOR ECONOMIC
EFFICIENCY MACHINING
X/Y/Z: BOX WAY**

H Series



SPECIFICATIONS

	VMC-650H	VMC-800H	VMC-1055H	VMC-1160H
Travel				
X axis travel	650 mm	800 mm	1000 mm	1100 mm
Y axis travel	500 mm	500 mm	550 mm	600 mm
Z axis travel	500 mm	500 mm	550 mm	610 mm
Spindle nose to table	150~650 mm	150~650 mm	150~700 mm	150~760 mm
Spindle center to column front	520 mm	520 mm	600 mm	650 mm
Work Table				
Work table size	800*450 mm	950*450 mm	1000*500 mm	1200*600 mm
Max. loading	500 kg	600 kg	800 kg	1000 kg
T-slot pitch / width / no.	100 x 18 mm x 4T	100 x 18 mm x 4T	100 x 18 mm x 5T	100 x 18 mm x 5T
Feedrate				
X / Y / Z rapid feedrate	20 / 20 / 20 m/min	20 / 20 / 20 m/min	20 / 20 / 20 m/min	20 / 20 / 20 m/min
Cutting speed	10 / 10 / 10 m/min	10 / 10 / 10 m/min	10 / 10 / 10 m/min	10 / 10 / 10 m/min
Headstock				
Spindle motor cont./30min	7.5 / 11 kw	7.5 / 11 kw	7.5 / 11 kw	7.5/11 kw
Spindle taper	BT40	BT40	BT40	BT40
Spindle speed	10,000 rpm (opt:1,2000/15,000)	10,000 rpm (opt:1,2000/15,000)	10,000 rpm (opt:1,2000/15,000)	10,000 rpm (opt: 1,2000/15,000)
ATC				
Tool no & type	24 Arm	24 Arm	24 Arm	24 Arm
Max. tool diameter x length	Ø100 x 250 mm	Ø80 x 300 mm	Ø80 x 300 mm	Ø80 x 300 mm
Max. tool weight	7 kg	7 kg	7 kg	7 kg
General information				
Air pressure	6 kg / cm ²	6 kg / cm ²	6 kg / cm ²	6 kg / cm ²
Coolant tank capacity	150L	150L	250L	380L
Machine weight	3500 kg	4500 kg	7000 kg	8000 kg
Gross weight	4000 kg	5000 kg	7300 kg	8300 kg
Floor space (L x W x H)	210*218*260 cm	241*202*280 cm	261*210*235 cm	300*219*246 cm
Packing size (L x W x H)	235*228*255 cm	287*228*255 cm	265*228*245 cm	310*228*250cm
Positioning	0.005 mm/ 300 mm	0.005 mm/ 300 mm	0.005 mm/ 300 mm	0.005 mm/ 302 mm
Repeatability	+/-0.003mm	+/-0.003mm	+/-0.003mm	+/-0.003mm

	VMC-1270H	VMC-1370H	VMC-1570H
Travel			
X axis travel	1200 mm	1300 mm	1500 mm
Y axis travel	700 mm	700 mm	700 mm
Z axis travel	700 mm	700 mm	700 mm
Spindle nose to table	150~850 mm	150~850 mm	150~850 mm
Spindle center to column front	760 mm	760 mm	760 mm
Work Table			
Work table size	1400*700 mm	1400*700 mm	1650 x 700 mm
Max. loading	1200 kg	1200 kg	1500 kg
T-slot pitch / width / no.	125 x 18 mm x 5T	125 x 18 mm x 5T	115 x 18 mm x 5T
Feedrate			
X / Y / Z rapid feedrate	20 / 20 / 15 m/min	20 / 20 / 15 m/min	20 / 20 / 15 m/min
Cutting speed	10 / 10 / 10 m/min	10 / 10 / 10 m/min	10 / 10 / 10 m/min
Headstock			
Spindle motor cont./30min	11/15 kw	11/15 kw	11 / 15 kw
Spindle taper	BT40 / BT50	BT40 / BT50	BT40 / BT50
Spindle speed	10,000/6,000 rpm (opt:1,2000/15,000)	10,000/6,000 rpm (opt:1,2000/15,000)	10,000/6,000 rpm (opt:1,2000/15,000)
ATC			
Tool no & type	24 / 30Arm	24 / 30 Arm	24 / 30 Arm
Max. tool diameter x length	Ø80 x 300 mm Ø100 x 300 mm	Ø80 x 300 mm Ø100 x 300 mm	Ø80 x 300 mm Ø100 x 300 mm
Max. tool weight	7/15 kg	7/15 kg	7/15 kg
General information			
Air pressure	6 kg / cm ²	6 kg / cm ²	7 kg / cm ²
Coolant tank capacity	450L	450L	450L
Machine weight	10400 kg	10400 kg	11500 kg
Gross weight	11000 kg	11000 kg	12000 kg
Floor space (L x W x H)	340*248*280cm	340*248*280cm	400*230*280 cm
Packing size (L x W x H)	385*310*315cm	385*310*315cm	440*232*256 cm
Positioning	0.005 mm/ 300 mm	0.005 mm/ 300 mm	0.005 mm/ 300 mm
Repeatability	+/-0.003mm	+/-0.003mm	+/-0.003mm

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STANDARD ACCESSORIES

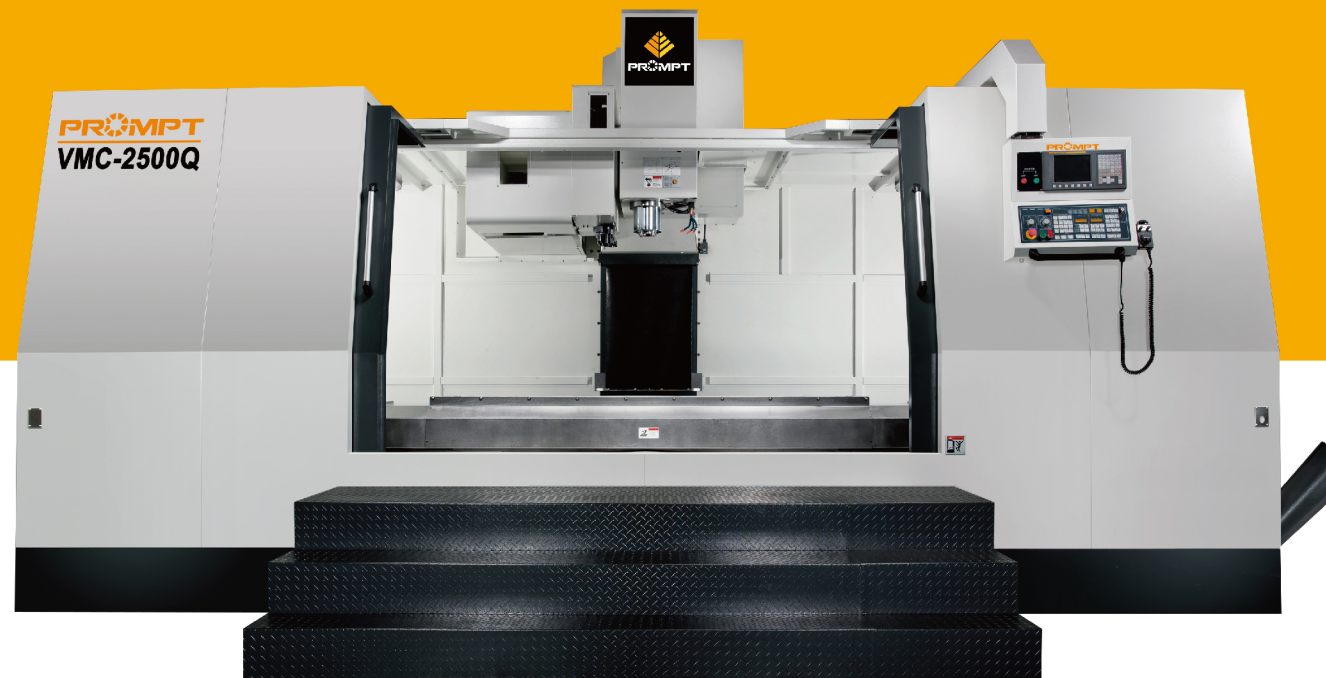
- Mitsubishi M70-2A controller
- Coolant system
- Auto lubrication system
- Working & warning lamps
- Spindle air blast (M code)
- Toolbox and tools
- Fully enclosed splash guard
- RS-232 interface
- Rigid tapping
- Auto power off
- Heat exchanger for electric box
- M.P.G
- leveling bolts and pads
- Power transformer
- Manuals, quality check report and warranty note

OPTIONAL ACCESSORIES

- Mitsubishi M80/M720/M730 controller
- 12000/15000 rpm spindle (BT, CAT, DIN)
- Fanuc 0i-MF controller
- Siemens 828D/840D controller
- 4th/5th axes CNC rotary or indexing table
- Chip conveyor with basket
- Coolant through spindle
- Tool measurement system
- Workpiece measurement system
- Oil skimmer
- Spindle chiller
- 3 axes linear scales

Q Series

DESIGNED FOR
SUPER HEAVY-DUTY CUTTING
X/Y/Z: BOX WAY



SPECIFICATIONS

	VMC-1690Q	VMC-1890Q	VMC-2000Q
Travel			
X axis travel	1600 mm	1800 mm	2000 mm
Y axis travel	900 mm	900 mm	900 (1000)mm
Z axis travel	800 mm	800 mm	900 (1000)mm
Spindle nose to table	150~950 mm	150~950 mm	250~1150 mm
Spindle center to column front	880 mm	880 mm	1000 mm
Work Table			
Work table size	1800*810 mm	2200*810 mm	2400*1000 mm
Max. loading	2000 kg	2200 kg	2800 kg
T-slot pitch / width / no.	125 x 18 mm x 7T	125 x 18 mm x 7T	150 x 22 mm x 6T
Feedrate			
X / Y / Z rapid feedrate	20 / 20 / 15 m/min	20 / 20 / 15 m/min	15 / 10 / 10 m/min
Cutting speed	10 / 10 / 10 m/min	10 / 10 / 10 m/min	5 / 5 / 5 m/min
Headstock			
Spindle motor cont./30min	15 / 18.5 kw	15 / 18.5 kw	15 / 18.5 kw
Spindle taper	BT40/BT50	BT40/BT50	BT40/BT50
Spindle speed	10,000/6,000 rpm (opt:1,2000/15,000)	10,000/6,000 rpm (opt:1,2000/15,000)	10,000/6,000 rpm (opt:1,2000/15,000)
ATC			
Tool no & type	24 / 30 Arm	24 / 30 Arm	24 / 30 Arm
Max. tool diameter x length	Ø110 x 300 mm	Ø110 x 300 mm	Ø110 x 300 mm
Max. tool weight	15 kg	15 kg	15 kg
General information			
Air pressure	7 kg / cm ²	7 kg / cm ²	7 kg / cm ²
Coolant tank capacity	520L	520L	520L
Machine weight	18000 kg	18200 kg	20500 kg
Gross weight	18500 kg	18700 kg	22800 kg
Floor space (L x W x H)	420*270*320 cm	420*270*320 cm	408*554*342 cm
Packing size (L x W x H)	538*391*375 cm	570*391*375 cm	485*415*380+ 543*230*167 cm
Positioning	0.005 mm/ 300 mm	0.005 mm/ 300 mm	0.005 mm/ 300 mm
Repeatability	+/-0.003mm	+/-0.003mm	+/-0.003mm

	VMC-2200Q	VMC-2500Q
Travel		
X axis travel	2200 mm	2500 mm
Y axis travel	900(1000) mm	1100 mm
Z axis travel	900 (1000) mm	900 mm
Spindle nose to table	250~1150 mm	250~1150 mm
Spindle center to column front	1000 mm	1050 mm
Work Table		
Work table size	2400*1000 mm	2700*1000 mm
Max. loading	3000 kg	3500 kg
T-slot pitch / width / no	150 x 22 mm x 6T	160 x 22 mm x 6T
Feedrate		
X / Y / Z rapid feedrate	15 / 10 / 10 m/min	12 / 10 / 10 m/min
Cutting speed	5 / 5 / 5 m/min	5 / 5 / 5 m/min
Headstock		
Spindle motor cont./30min	15 / 18.5 kw	18.5/22 kw
Spindle taper	BT40/BT50	BT50
Spindle speed	10,000/6,000 rpm (opt:1,2000/15,000)	6000 rpm
ATC		
Tool no & type	24 / 30 Arm	24 / 30 Arm
Max. tool diameter x length	Ø110 x 300 mm	Ø127 x 300 mm
Max. tool weight	15 kg	15 kg
General information		
Air pressure	7 kg / cm ²	7 kg / cm ²
Coolant tank capacity	520L	560L
Machine weight	21000 kg	26500 kg
Gross weight	23500 kg	28500 kg
Floor space (L x W x H)	408*572*342 cm	660*507*393 cm
Packing size (L x W x H)	500*394*388+ 573*230*195 cm	600*228*250+550*228*245+ 320*339*126+300*260*287+ 300*230*287 cm
Positioning	0.005 mm/ 300 mm	0.005 mm/ 300 mm
Repeatability	+/-0.003mm	+/-0.003mm

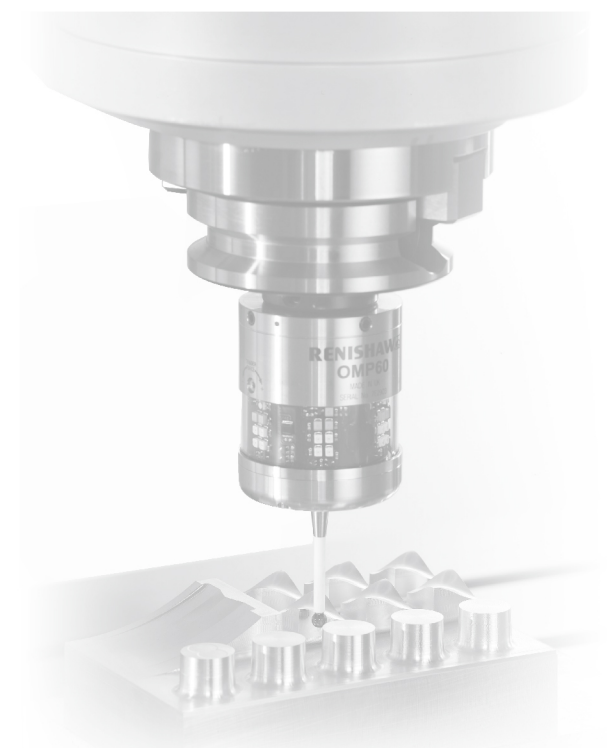
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STANDARD ACCESSORIES

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HIGH-PERFORMANCE...



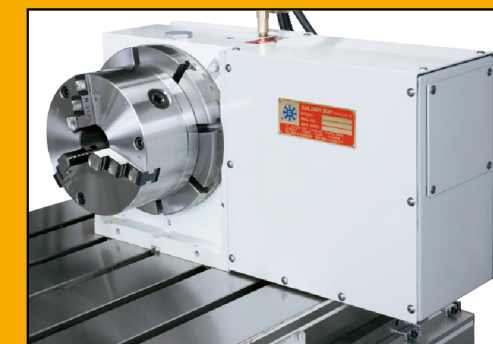
High precision, High Rigidity Spindle

- The advanced spindle is designed for durability and easy maintenance, providing high axial thrust capacity, generating, minimum thermal growth.
- P4 class angular contact high precision spindle bearings with standard spindle speed up to 8000r.p.m.
- Powerful spindle is driven by high torque slip-free timing belt.
- Spindle designed labyrinth circuit and spindle nose combined with air blow to prevent coolant or chips contamination. This also ensures spindle accuracy and service life.
- Spindle assy balancing-by MITUTOYO Japan.



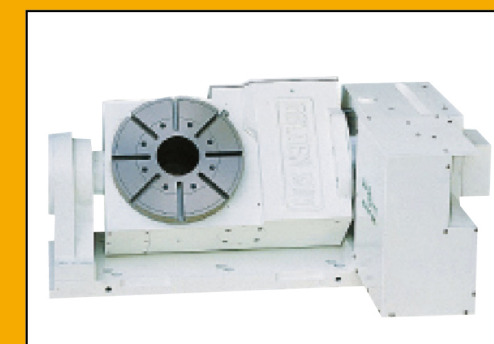
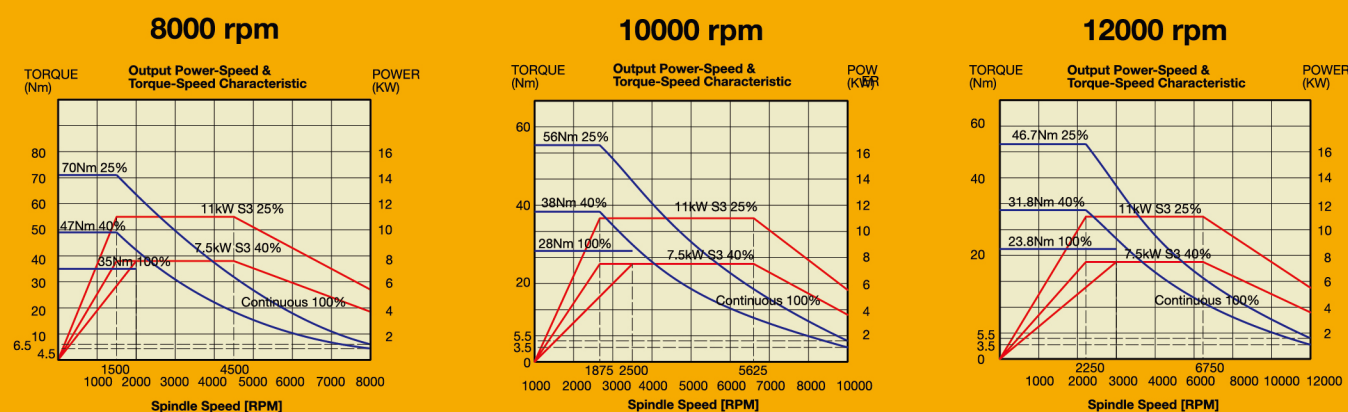
Coolant Through Spindle (Optional)

The special designed coolant through spindle device ensures constant temperature on the spindle and tool thereby increasing machining accuracy.



4th Axis Rotary Table (Optional)

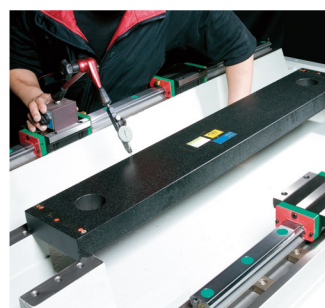
SPINDLE SPEED OUTPUT CHART



4th and 5th Axis Rotary Table (Optional)



4th and 5th Axis Rotary Table (Optional)



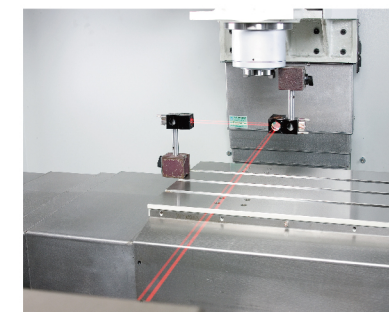
Inspecting parallelism of ballcrew straightness



Inspecting parallelism of linear guide way

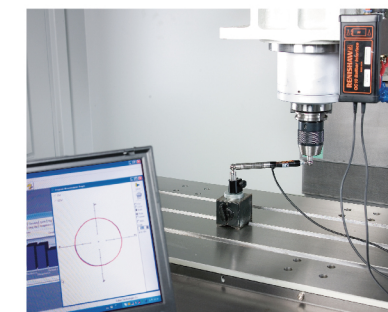


Spindle Dynamic Balancing Testing



Inspection by laser unit

The advanced laser unit employed to inspect the linear accuracy, ensuring superior positioning and repeatability accuracy.



Circular inspection

Each machine is subject to rigorous ball bar or grid encoder testing that ensuring linear accuracy and squareness.



Squareness testing of head movement and table

HIGH-PERFORMANCE...



Top Quality Gears

- The gear boxes are from Japan Hamada JIS O-series, which are hardened and precision ground for smooth and quiet operation.
- The gear boxes are lubricated by a pressurized circulated lubrication system.



Heavy Duty Gear Box

- The spindle transmission is designed with heavy duty gears, providing high/low speed ranges.
- The high speed range is designed for high speed cutting requirements and creates fine surface quality.
- The low speed range offers greater torque output, making the machine ideal for heavy cutting.



Optical Linear Scale (Optional)

It measures the position of linear axes without additional mechanical transfer elements.



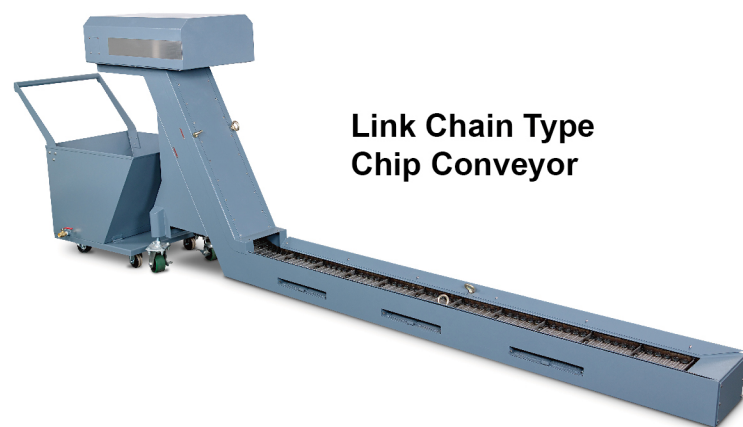
Direct Drive Spindle



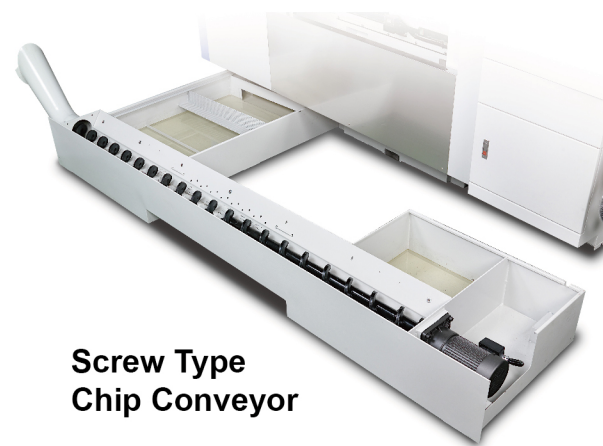
Transformer



Built-in Coolant Nozzles



Link Chain Type Chip Conveyor

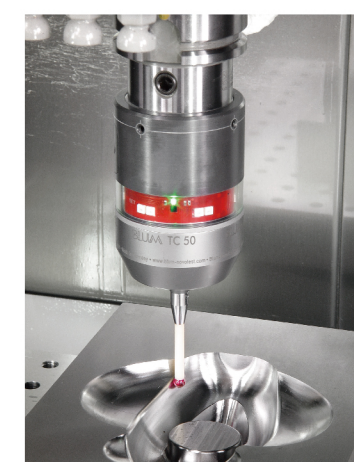


Screw Type Chip Conveyor

Your Total Molds Solution VERTICAL MACHINING CENTERS



RENISHAW Workpiece Measuring System



BLUM Workpiece Measuring System



HEIDENHAIN Workpiece Measuring System



BLUM Tool Measuring System



HEIDENHAIN Tool Measuring System



Automatic Tool Measurement Device TS-27R (Optional)



Oil/Fluid Separation Device



HEIDENHAIN Optical Encoder