

VERTICAL MACHINING CENTERS



QVM-610A+APC

Automatic Pallet Changer VMC

"610" denotes X axis stroke.

Features

- Spindle Bearing protection, uses maze type mechanical seal and air blow to prohibit coolant entry.
- High transmission power timing belt is used to transmit majority of the spindle motor power to the spindle and reduces the motor thermal conductivity and hence the expansion of the spindle.
- Frontal cover coolant supply nozzle x (6+2) pieces provides good chip flushing and heat removal from the work piece. This assures high precision cutting on the work piece.
- Automatic Pallet Changer provides hydraulic supply system to the jig and fixture to reduce the loading and unloading time.
- 3 - axis moving column design optimizes the cutting area and strokes to handle different part sizes.
- Reinforced pull stud mechanism - The stud pull force is 1000kg. The stud release force is only 250kg. This design could lengthen the lifespan of the spindle bearing.
- Arm type ATC - 24 pieces.

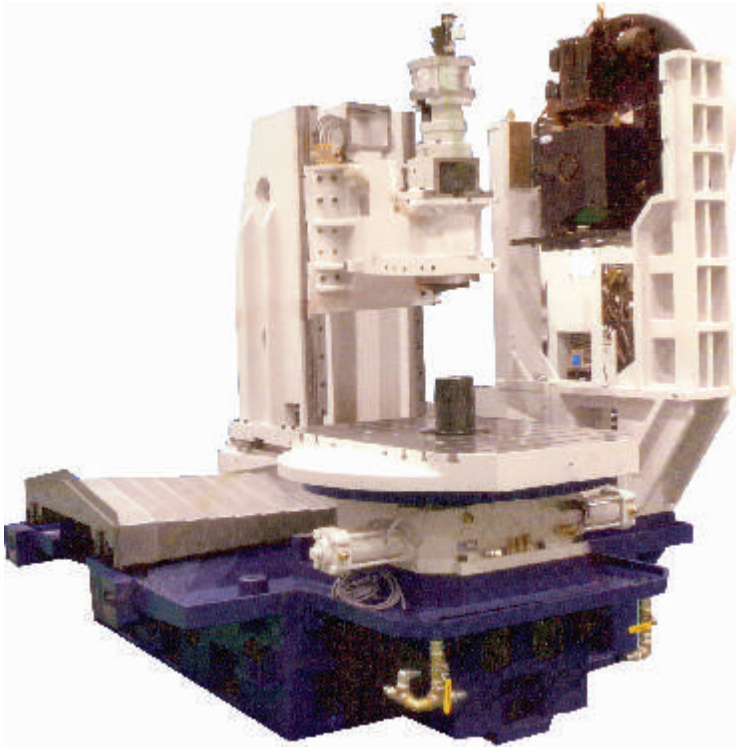
High Speed

Rapid Traverse (X.Y.Z)	30m/min
Cutting feedrate (MAX.)	10m/min
ATC(C-C)	4.2sec
ATC(T-T)	3.4sec
APC	4.9sec

Cutting Capabilities

	Face Milling ø80	End Milling ø40	Drilling ø30	Tapping
Cutting capacity (cc/min)	219	24	-	M24x3.0
Cutting Width x Depth (mm)	65x4.5	30x20	-	
Spindle speed (min ⁻¹)	750	200	265	265
Cutting Feedrate (mm/min)	750	40	0.2mm/rev	-

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Standard Equipment

- Air Blow Unit
- Hydraulic Unit
- 24 Tools ATC (BT40)
- Spindle Speed 8000RPM(7.5/5.5 kw)
- APC Pallet
- Portable Manual Pulse Generator
- Tool Kits and Tool Box
- Workpiece Counter
- Spindle Load Meter
- Warning Light
- Chip Conveyor
- Chip Trolley
- Work Light
- Leveling Pads
- Coolant Unit
- Call Buzzer

Specification

Item	Specification	Unit	QVM-610A+APC
TABLE	Working Area (LxW)	mm	700x410
	Max. Table Load	kg	400x2
	Table Height	mm	950
	T-Slot	mm	(18x4)x2
SPINDLE	Spindle Nose		7/24 Taper No.40
	Spindle speed	rpm	8000(OPT 10000)
TRAVEL	X/Y/Z Stroke	mm	610/410/460
	Spindle Nose to Table	mm	180-640
FEED	Rapid Traverse	m/min	30/30/30
	Cutting Feed	mm/min	10000
ATC	Tool Shank		MAS-BT40
	Pull Stud		MAS-P40T-1(45°)
	Tool Capacity	pc	24
	Max. Tool Dim	mm	ø89
	Max tool Dim.(W/O Adjacent tool)	mm	ø125
	Max. Tool Length	mm	250
	Max.Tool Weight	kg	7
MOTOR	Spindle Motor(50%ED)	kW	7.5/5.5(OPT 9/7.5)
	X/Y/Z Motor	kW	3.0/3.0/4.0
	Coolant Motor	kW	0.375/0.55
DIMENSION	LxWxH	mm	2360x4355x2878
	Weight	kg	7500

Optional Equipment

- Liner Scale (HEIDENHAIN)
- Spindle Speed 10000RPM
- High Torque of Spindle Motor (9/7.5kw, 15/11kw)
- Coolant Through Spindle (A Type/B Type)
- Electrical Cabinet with Air Conditioner
- Magnetic Type chip conveyor
- Automatic Power Off
- Automatic Tool Life Management
- Automatic Tool Length Detector
- Automatic Tool Breakage Detector
- 3-Color Warning Light
- Scraper Type Chip Conveyor
- CE
- EMC
- Spare M Code(8 Codes)
- Sub Operation Box
- Oil Skimmer
- Oil Mist Collector
- Transformer
- Voltage Stabilizer