



AJAX HIGH PRECISION VERTICAL MACHINING CENTERS

AJVMC 540V - 2290V



Machine Tool Exporters to the World since 1940

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BUILT FOR SPEED. ENGINEERED FOR QUALITY.

The Ajax V-Series high precision vertical machining centres are built to exacting standards, using only the highest quality components to ensure performance, reliability, and durability.

The “V” stands for Velocity—because in modern manufacturing, speed matters. These machines are designed to deliver fast, precise machining that meets the demands of today’s high-output production environments.

Whether you’re handling complex components or high-volume runs, the Ajax V-Series delivers the performance, speed, and consistency your workshop needs.



AJVMC 1260V



AJVMC 1680V

All Ajax machines are high-precision calibrated using the Renishaw XL-80 laser system, ensuring exceptional accuracy across the entire working envelope.

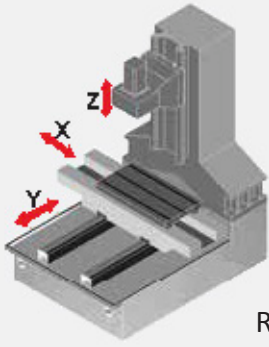
To verify this calibration and ensure perfect geometric alignment, we then use the Renishaw Ballbar system, which monitors machine performance during a circular interpolation movement across two axes.

This dual-stage verification process guarantees that every machine we supply meets the highest standards of precision and repeatability—delivering consistent results you can trust.

TRAVEL X axis	mm	500	760	800	1050
Y axis	mm	400	425	510	625
Z axis	mm	450	470	500	600
Dist. from Spindle face to table top	mm	110 - 560	120 - 590	100 - 600	140 - 740
Table size	mm	750 x 400	900 x 400	1000 x 510	1200 x 630
Max. load on Table	kg	400	800	400	800
Table Height from floor	mm	855	905	920	997
T-slot dimension (n x w x p)	mm	3 x 14 x 125	3 x 14 x 125	5 x 18 x 100	5 x 18 x 100
Spindle Tool shank type		BT - 40	BT - 40	BT - 40	BT - 40
Spindle speed Std.	rpm	6000	10000	6000	6000
Spindle speed Opt.	rpm	Upto 12000	Upto 12000	Upto 15000	Upto 15000
Spindle power Std.	kW	7.5 / 5.5	9 / 7.5	11 / 7.5	11 / 7.5
Cutting feed	mm/min	1 - 10000	1 - 10000	1 - 10000	1 - 10000
Rapid traverse	m/min	40 / 40 / 40	24 / 24 / 24	36 / 36 / 36	32 / 32 / 24
Automatic Tool Changer					
No. of tools Std./Opt.		24	24 / 30	24 / 30	24 / 30 / 40
Tool diameter		80 / 155	80 / 155	80 / 155	80 / 155
Tool weight Max.	mm	8	8	8	8
Tool length Max.	kg	250	250	250	250
Tool change system	mm	Twin Arm	Twin Arm	Twin Arm	Twin Arm
Pull stud type		MAS - 403	MAS - 403	MAS - 403	MAS - 403
Accuracy (As per ISO 230-2)					
Positioning accuracy	mm	0.010	0.010	0.010	0.010
Repeatability	mm	±0.003	±0.003	±0.003	±0.003
CNC System		Fanuc / Siemens / Mitsubishi			
Machine weight – Net	kgf	3200	3600	5500	7500
Machine Width	mm	1700	2100	2200	3110
Depth	mm	2800	2410	2450	2800
Height	mm	2500	2600	2800	2800

		VM	VMC	VMC	VMC	VMC
Travels X axis	mm	1250	1300	1600	1630	2200
Y axis	mm	600	700	800	910	910
Z axis	mm	600	700	700	810	810
Dist. from Spindle face to Table top	mm	100 - 700	130 - 830	110 - 810	150 - 960	150 - 960
Table size	mm	1400 x 630	1450 x 700	1700 x 700	1800 x 800	2400 x 810
Max. load on Table	kg	1250	1500	2000	2000	2500
Table Height from floor	mm	1050	1030	1050	1050	1000
T-slot dimension (n x w x p)	mm	5 x 18 x 100	6 x 18 x 100	6 x 18 x 100	6 x 18 x 125	6 x 18 x 125
Spindl Tool shank type		BT - 40	BT - 40	BT - 40	BT - 40	BT - 40
Spindle speed Std.	rpm	6000	6000	6000	6000	5000
Spindle speed Opt.	rpm	Upto 15000	Upto 15000	Upto 10000	Upto 10000	Upto 10000
Spindle power Std.	kW	11 / 7.5	15 / 11	15 / 11	15 / 11	18.5 / 15
Cutting feed	mm/min	1 - 10000	1 - 10000	1 - 10000	1 - 10000	1 - 10000
Rapid traverse	m/min	24 / 24 / 24	20 / 20 / 20	20 / 20 / 20	20 / 20 / 20	15 / 15 / 15
Automatic Tool Changer						
No. of tools Std./Opt.		24 / 30 / 40	24 / 30 / 40	24 / 30 / 40	24 / 30 / 40	24 / 30 / 40
Tool diameter	mm	80 / 155	80 / 155	80 / 155	80 / 155	80 / 155
Tool weight Max.	mm	8	8	8	8	8
Tool length Max.	kg	250	250	250	250	250
Tool change system	mm	Twin Arm	Twin Arm	Twin Arm	Twin Arm	Twin Arm
Pull stud type		MAS - 403	MAS - 403	MAS - 403	MAS - 403	MAS - 403
Accuracy (As per ISO 230-2)						
Positioning accuracy	mm	0.010	0.010	0.010	0.010	0.010
Repeatability	mm	±0.003	±0.003	±0.003	±0.003	±0.003
CNC System		Fanuc / Siemens / Mitsubishi				
Machine weight – Net	kgf	8500	10000	12000	13000	16000
Machine Width	mm	3300	3700	4100	4150	5350
Depth	mm	2800	3000	3125	3700	4200
Height	mm	2800	3500	3000	4000	3900

TECHNICAL SPECIFICATIONS



Rigid Structure

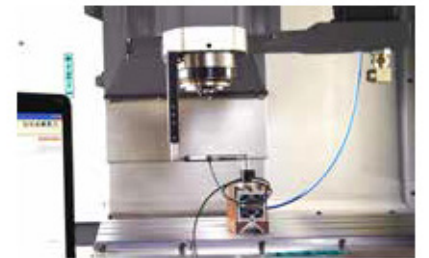
All of our machines are calibrated using state of the art equipment to give you the best accuracy and repeatability.



Direct Drive Spindle

BALLBAR TEST

All the machines are equipped with precision measurement tool which minimizes the errors such as backlash, squareness, servo mismatch, reversal spikes, vibration etc.



LM Guideways & Ballscrews

DIE MOULD TEST

Die mould series machines, specifically are put through a machining test (20 degree tapered machining on component). This ensures the best accuracy while axis change over and surface finish on the component.



STANDARD FEATURES

- Spindle Taper BT-40
- Indirect Drive
- Twin Arm Type ATC
- Panel Cooler for Electrical Cabinet
- Rigid Tapping
- Chip Flushing System
- Flood Coolant System
- Coolant Gun
- Air Through Nozzle
- Hand Held Mpg
- Three Tier Lamp
- Rigid Tapping
- LM Guideways for 3 Axes

OPTIONAL FEATURES

- Spindle Taper BBT-40
- Spindle Taper BT-50 (1060V & above)
- Direct Drive
- Higher Spindle Speeds
- Coolant through Spindle
- Spindle Chiller Unit
- Chip Conveyor
- Higher Table Charge
- Higher Spindle Power
- Rotary Tables
- 4th Axis Feature & Interface
- Coolant Through Spindle



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