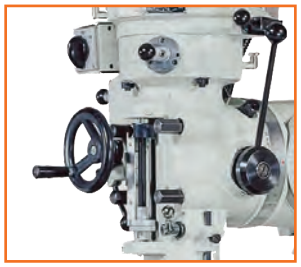
Knee milling machine
DMV
10x54” to 12x50”

Drilling and milling head

- Infinitely variable speed control
- Quiet operation with V-belt drive
- Swivel left/right ± 45°
- Swivel forward/backward ± 45° (except DMV 250 VS)
- Rotation of the upper arm around the column 360°
- Automatic spindle sleeve feed (3 steps)
- Spindle sleeve with micrometer depth stop
- Automatic spindle switchover
- Spindle braking via hand lever



Milling head
DMV 250 VS

Standard configuration

- 3-axis digital readout
- Drill chuck, Ø18 [Ø3–16 mm (0.12–0.63”)]
- Collet chuck with collets, Ø4–16 mm (0.12–0.63”)
- Work light
- Automatic lubrication
- Drawbar
- Automatic feed in X-axis (250 VS)
- Coolant system
- Tool kit
- Operation manual

Optional configuration

- Pneumatic drawbar
- Electrical, shiftable axis drives
- Mechanical or hydraulic vise

3-axis digital readout
(DRO) is included

DMVH 305 VS

Machine features

- Spindle material is SCM415 full hardened through carbonizing heat treatment.
- NST#30/R8 spindle with 3HP variable speed motor (250 VS) and NST#40 spindle with 5HP variable speed motor (305 VS) (inverter motor is an available option).
- Spindle quill drive box is transmitted by ballscrew for better precision.
- Essential castings are made of high grade of Meehanite cast iron, which has been stressed and relieved to provide a rigid machine structure.
- Standard with 10”x54” table, hardened and ground.
- Table T-slot is precision ground to exact tolerance.
- X&Y slideways and gibs are coated with Turcite-B to provide smooth and wear resistant surface.
- 1:2 ratio timing belt pulleys on XY axes to increase drive torque.
- Box way design on Y&Z axes leads to better rigidity. (305 VS)
- Lifting screw diameter 38mm assures the stability while machining. (305 VS)

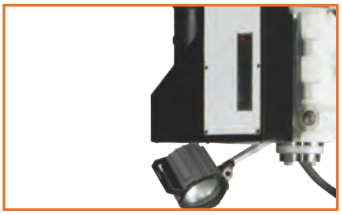
*The above specifications are subject to change without prior notice. No liability for printing mistakes. Machine may be shown with optional equipment.

KAAST

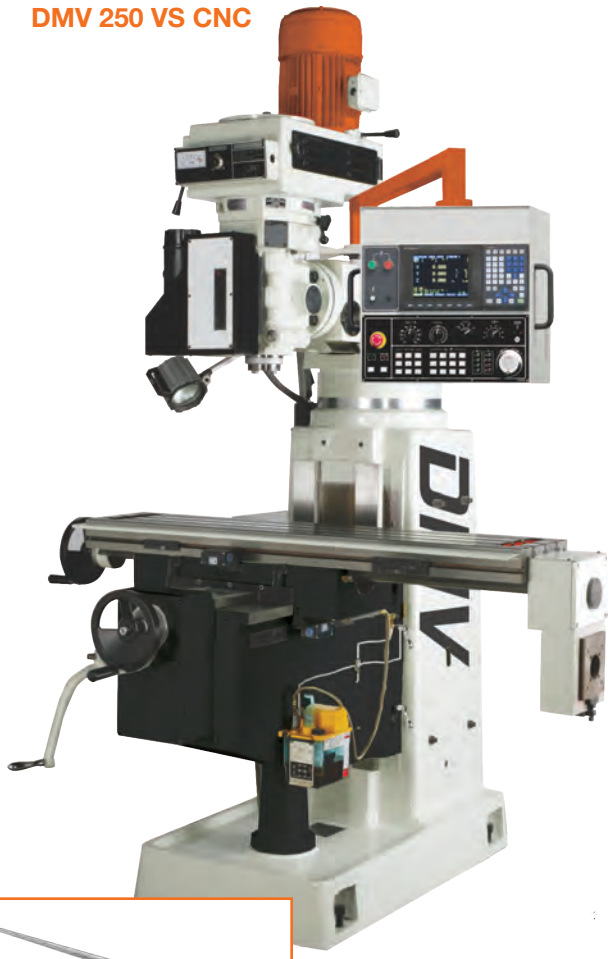
DMV 250 VS CNC

Fagor 8055i CNC control is an available option

Mitsubishi CNC control system is standard for CNC machines



Z axis quill drive with ballscrew (CNC)



Precision ballscrews are used on X&Y axes. (CNC)

Hi/Low speed gear drive spindle for powerful cutting performance (CNC)

Standard configuration (CNC)

- Mitsubishi E70 CNC
- Variable speed spindle
- Ballscrews with double nuts on all 3 axes
- RS-232
- Automatic lubrication
- Work light
- Tool kit
- Operation manual

Optional configuration (CNC)

- Fagor/Siemens/ Fanuc controls
- Air drawbar
- 10,000 rpm
- 4th axis

Specifications			DMV VS			DMVH VS
			250	250/1	305	305
			10 x 54”	10 x 54”	12 x 50”	12 x 50”
Table dimensions (W/L)		mm	250x1370 (10x54”)		305x1270 (12x50”)	
Travels	X	mm	870 (34”) manual, 775 (30.5”) auto		900 (35”) auto	
	Y	mm	390 (15.3”)	410 (16”)	400 (16”)	
	Z	mm	390 (15.3”)	450 (17.7”)		
Spindle taper			R8	#40	#40	
Speeds		rpm	66–2720	40–4500	50-3600	
Quill travel		mm	127 (5”)		140 (6”)	
Horizontal spindle			–			#40, 48–1180 rpm
Swivel range milling head		deg	±45°			
Spindle-table distance		mm	100–506 (4–20”)	85–535 (3.3–21”)	130–580 (5–22.8”)	
Spindle-column distance			159–719 (6.25–28.3”)	178–738 (7–29”)	185–685 (7.3–27”)	
Main drive motor		kW	2.2 (3 Hp)	3.7 (5 Hp)		3.7 (5 Hp vert./5 Hp horiz.)
Dimensions (L/W/H)		mm	2011x2087x1840 (79x82x72”)	2375x2120x1840 (94x83x72”)	2550x2150x1970 (100x85x78”)	
Weight		kg	1300 (2,860 lbs)	1600 (3,520 lbs)	2500 (5,500 lbs)	
Item No.			2910022	2910023	2910018	2910024
Item No. (CNC)			2910084	2910085	2910086	2910087

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