KAAST

DMV / DMVH

250 | 305

Knee Milling Machine 10x54" to 12x50"

The spindle on this series of knee mills is made from **SCM415** and fully hardened through carbonizing heat treatment for durability. The 250 VS model features an **NST#30/R8 spindle** with a **3HP variable speed motor**, while the 305 VS uses an **NST#40 spindle** with a **5HP motor**—both with optional **inverter motor upgrades**. For improved precision, the **spindle quill drive** uses a ballscrew mechanism. The machine's key castings are made from **high-grade Meehanite cast iron**, **stressed and relieved** for a rigid structure. It comes standard with a **hardened and ground 10" x 54" table**, with **precision-ground T-slots**. X and Y slideways and gibs are coated with **Turcite-B** for smooth, wear-resistant movement. A **1:2 ratio timing belt** on the XY axes increases drive torque, and the **box way design** on the Y and Z-Axes enhances rigidity. The 305 VS also includes a **38 mm lifting screw** for added stability during machining.

3-Axis Digital Readout (DRO) is Included

STANDARD CONFIGURATION

- 3-Axis Digital Readout (DRO)
- Drill Chuck
- Collet Chuck
- Collets
- Automatic Lubrication
- Drawbar
- X-Axis Automatic Feed (250 VS)
- Coolant System
- Tool Kit and Work Light

OPTIONAL CONFIGURATION

- Pneumatic Drawbar
- Electrical, Shiftable Axis Drives
- Mechanical or Hydraulic Vise

DRILLING AND MILLING HEAD

The DMV V-belt drive offers quiet, variable speed control and swivels left/right ±45° and forward/backward ±45° (except 250 VS). It includes a 3-step automatic spindle feed, micrometer depth stop, automatic switchover, and hand-lever spindle braking.

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

KAAST

DMV / DMVH
250 | 305

CNC STANDARD CONFIGURATION

Fagor 8058 Controller
Variable Speed Spindle
Ballscrews with Double Nuts on All 3-Axes
Automatic Lubrication
Tool Kit and Work Light

Fagor 8058i CNC Controller

CNC OPTIONAL CONFIGURATION

CNC Controller Options
Air Drawbar
10,000 rpm
4th-Axis

Mitsubishi CNC Controller

DMV VS / DMVH VS			DMV 250 VS	DMV 250/1 VS	DMV 305 VS	DMVH 305 VS
			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		mm	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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