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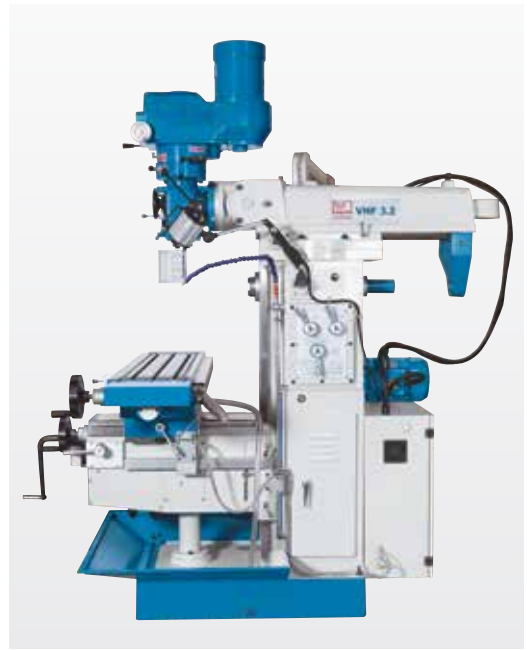
Long milling arbors are guided via a solid outer arbor

- Vertical spindle is infinitely variable up to 3750 rpm
- Cutter head can be rotated and tilted
- Servo-motor drive for infinitely variable feed in all axes
- Horizontal spindle with outer arbor support for long milling arbors
- Milling table swivels in linear direction

- Extremely rigid machine bed made of high-strength HT-200 cast-iron with heavy ribbing
- Quiet, precision-made headstock gears with hardened and ground gears
- The milling table features a large setup area and can be rotated in linear direction
- The cutter head quill features a 3-step automatic feed and automatic depth shut-off, but can also be moved manually
- For angular bores, the vertical cutter head swivels in two directions: r + l $\pm 90^\circ$; tilt fwd + rev $\pm 45^\circ$



The milling table features a large setup area and can be rotated in linear direction



This knee-and-column milling machine features a large work area and high versatility for a wide variety of applications

Specifications

VHF 3.2

Working Area

Table set up area	in	54x13
Table load capacity (max.)	lbs	660
Number of T-slots	positions	3
T-slot (width x spacing)	in	0.55x3.15
Milling table swivel range	deg	45

Travels

Travel X-axis	in	39.4
Travel Y-axis	in	14
Travel Z-axis	in	16

Vertical Milling Head

Spindle speed (vertical)	rpm	50 - 3,750
Spindle mount (vertical)		ISO 40
Throat	in	7 - 34
Vertical spindle-to-table surface distance	in	6.3 - 22.05
Milling head swivel range	deg	90
Cutter head tilt angle	deg	45

Rapid Feed

Rapid feed X-/ Y-axis	in/min	53
Rapid feed Z-axis	in/min	39.37

Horizontal milling head

Spindle speeds	rpm	(12) 35 - 1,500
Spindle mount		ISO 40
Horizontal spindle-to-table surface distance	in	3 - 19

Feed

Feed speed X-axis	in/min	(8) 1.1811 - 32.6771
Feed speed Y-axis	in/min	(8) 1 - 33
Feed speed Z-axis	in/min	(8) 0.9055 - 24.6063

Drive Capacity

Main drive motor rating (vertical)	Hp	5
Main drive motor rating (horizontal)	Hp	4

Measures and Weights

Overall dimensions (length x width x height)	in	75x69x93
Weight	lbs	4,290
Part No.		301411

- Spindle speed of vertical cutter head is infinitely variable over a wide speed range; an auxiliary gearbox ensures powerful torque
- Vertical and horizontal spindle each have their separate drive
- Standard outer arbor support with bronze plain bearings accommodates long milling arbors in the horizontal spindle
- Powerful axis servo-motors allow infinite adjustment of feeds on all 3 axes
- Minimum downtime due to rapid positioning of work table and rapid feeds in all axes
- Control panel swivels for comfortable operation
- Coolant system and chip tray are included

Standard Equipment

chip tray, coolant system, central lubrication, 3-axis position indicator, operator instructions, M16 draw bar, operating tools, cutter arbor Ø 1"

Options

	Part No.
• ER 40 Collet Set 15 pcs.	106075
• HS 125 Hydraulic Machine Vise	125024
• Shell End Milling Arbor Ø22 SK 40	103900
• Oscillation Element LK 5	103331
• Clamping Tool Set Deluxe 14/M12	105295
• Accessory-Set ISO 40 5-pc.	104596