



# Universal Milling Machine VHF 3

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**\$ 19,300**

inc. position indicator

**Solid Universal Milling Machine for drilling and milling work requiring long travel distances**

- all 3 axes with automatic and rapid feeds
- vertical head swivels  $\pm 45^\circ$
- spindle speeds for horizontal and vertical spindle controlled by separate switch gears with oil-bath lubrication
- capstan-controlled quill feed for drilling, manual micro-feed for milling
- 3 automatic quill feeds
- for horizontal spindle operations, the top beam including head can be completely rotated on the stand
- adjustable ground dovetail guideways on the X axis, and wide square guideways on Y and Z axis
- clamping on all 3 axes
- adjustable stops for drilling depth and table adjustment



**Standard Equipment:** position indicator, drilling chuck  $\varnothing 5/8"$ , milling chuck ISO 40, reducing sleeve ISO 40 / MT3 and ISO 40 / MT2, coolant system, halogen work lamp, machine vise 6", operating tools, operator manual

Specifications VHF 3			
<b>work table</b>		quill feeds (3)	inch/rev 0.003; 0.006; 0.001
table set-up area	52 x 12"	throat	7.75" - 21.25"
T-slots (quantity / width / distance)	0.2 / 0.5 / 2"	vertical spindle-to-table distance	5.5" - 21.25"
table load capacity	lbs 660	head swivel range	$\pm 45^\circ$
<b>feeds</b>		<b>horizontal cutter head</b>	
travel - X axis	29.5"	spindle mount	ISO/NMTB 40
- Y axis	9.75"	spindle speeds (from - to / number)	rpm 38 - 1310 / 12
- Z axis	15.5"	spindle axis (horizontal) to table distance	2" - 17.5"
feed speeds X axis (from - to / number)	inch/min 0.7 - 14 / 8	<b>drive rating</b>	
feed speeds Y axis	inch/min 0.7 - 14 / 8	drive motors (vertical / horizontal)	Hp 2.95 / 2.95
rapid feed - X axis	inch/min 40	feed motor	Hp 0.7
- Y axis	inch/min 40	coolant pump	Hp 0.1
- Z axis	inch/min 26	<b>physical measurements</b>	
<b>vertical cutter head</b>		dimensions (LxWxH)	67x68x92"
spindle mount	ISO/NMTB 40	machine weight	lbs 3,970
spindle speeds (from - to / number)	rpm 90 - 2000 / 8	Part No. inc. position indicator	301 410
quill stroke	4.7"	<b>Price inc. position indicator \$</b>	<b>19,300</b>