


## VHF 3

Solid universal milling machine for drilling and milling work requiring long travel distances

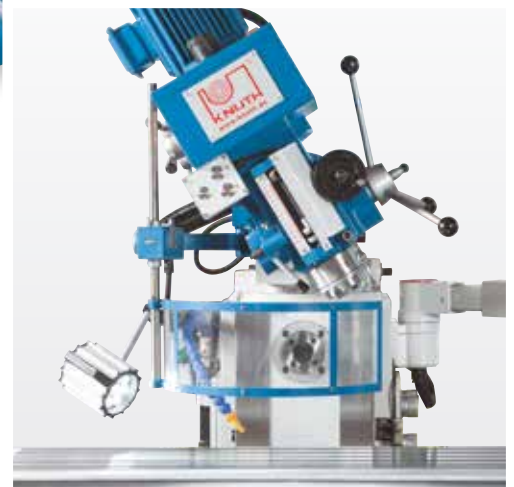


See this Machine  
in action on  
YouTube 



### Extensive standard equipment

- All 3 axis with automatic feed 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
- For horizontal spindle operations, the top beam including head can be completely rotated on the stand



Cutter head swivels  $\pm 45^\circ$



Horizontal milling spindle with outer arbor support for long milling arbors



Automatic 3-step quill feed

## Specifications

## VHF 3

### Working Area

Table set up area	in	52x13
Number of T-slots	positions	5
T-slot (width x spacing)	in	0.55x2.48
Table load capacity	lbs	660

### Travels

Travel X-axis	in	29.5
Travel Y-axis	in	10
Travel Z-axis	in	17

### Vertical Milling Head

Spindle mount		ISO 40
Spindle speeds	rpm	(8) 90 - 2,000
Quill stroke	in	5
Throat	in	8 - 21
Spindle nose-to-table surface distance	in	6 - 21
Head swivel range		± 45°

### Rapid Feed

Rapid feed X-axis	in/min	40.31
Rapid feed Y-axis	in/min	40.31
Rapid feed Z-axis	in/min	26.38

### Horizontal milling head

Spindle mount		ISO 40
Spindle speeds	rpm	(12) 40 - 1,300
Horizontal spindle-to-table surface distance	in	2 - 18

### Feed

Feed speed X / Y axis	in/min	(8) 1 - 14
Quill feeds (3)	in/R	0.003, 0.006, 0.01

### Drive Capacity

Motor rating horizontal spindle	Hp	3
Motor rating vertical spindle	Hp	3
Motor rating feed	Hp	0.7
Motor rating coolant pump	Hp	0.1

### Measures and Weights

Overall dimensions (length x width x height)	in	68x68x92
Weight	lbs	3,960
Part No.		301410

- 3 automatic quill feeds
- Adjustable ground dovetail guide ways on the X-axis and wide square guide ways on Y and Z-axis
- Clamping device in all 3 axis
- Adjustable stops for drilling depth and table adjustment

## Standard Equipment

3-axis position indicator, drill chuck 5/8", cutter arbor Ø 1", cutter arbor Ø 1.5", collet chuck -ISO 40- with collets (0.16", 0.2", 0.24", 0.31", 0.39", 0.47", 0.55", 0.63" diam.), reducing sleeve ISO 40 / MT3 and ISO 40 / MT2, coolant system, chip tray, work lamp, operating tools, operator instructions

## Options

## Part No.

• E-VHF3 spare parts package for 5 years for part no. 301410	259178
• Adapter SK 40 / MT 3	103730
• Milling Chuck Set ISO 40	106044
• Coolant Concentrate 5 Ltr.	103184
• Machine vise with pull-down system NZM 125	104918
• Assembly Stand	108930
• Clamping Tool Set Deluxe 14/M12	105295
• Step of Step Blocks	105340
• Roughing End Mill Cutter 63	108402

For additional options for this machine, visit our website.