

Conventional Vertical Milling Machines

VHF 2.2

SKU : 362651

VHF series machines feature large travels, a vertical and horizontal spindle with separate drives for powerful machining. The vertical head swivels out ($\pm 45^\circ$) and the quill is movable. All models of this series are ideally suited for applications in repair shops or training shops.

- Tilting vertical milling head
- Automatic feed in X and Y axes
- Horizontal spindle with counter holder
- Extensive package of standard accessories



TECHNICAL SPECS

WORKING AREA

| | |
|-----------------------------|---------------|
| Drilling capacity in steel | 1 in |
| Max. end mill diameter | 1 in |
| Tapping capacity, steel | M 16 |
| Max. end face mill diameter | 3.9 in |
| Table set up area | 50 in x 11 in |
| Table load capacity (max.) | 330 lbs |

TRAVELS

| | |
|---------------|---------|
| Travel X-axis | 27.6 in |
| Travel Y-axis | 8 in |
| Travel Z-axis | 12 in |

VERTICAL MILLING HEAD

| | |
|--|--------------------|
| Spindle speed (vertical) | 115 rpm - 1750 rpm |
| Spindle mount | SK 40 DIN 2080 |
| Quill stroke | 5 in |
| Throat | 8 in - 26 in |
| Spindle nose-to-table surface distance | 2 in - 15 in |
| Milling head swivel range | 45 deg |

RAPID FEED

| | |
|-------------------|--------------|
| Rapid feed Z-axis | 14.96 in/min |
|-------------------|--------------|

HORIZONTAL MILLING SPINDLE

| | |
|--|-------------------|
| Spindle speed (horizontal) | 40 rpm - 1300 rpm |
| Spindle mount | ISO 40 |
| Horizontal spindle-to-table surface distance | 0 in - 12 in |

FEED

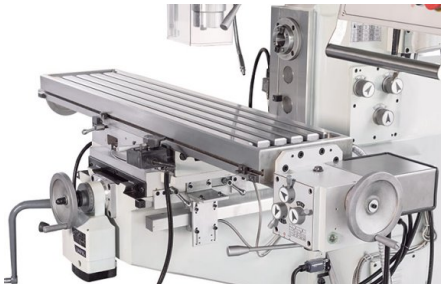
| | |
|-------------------|--------------------------------|
| Feed speed X-axis | 0.6299 in/min - 14.9606 in/min |
| Feed speed Y-axis | 0 in/min - 28 in/min |

DRIVE CAPACITY

| | |
|---------------------------------|---------------|
| Motor rating horizontal spindle | 3 Hp |
| Motor rating vertical spindle | 1.1 Hp - 2 Hp |

MEASURES AND WEIGHTS

| | |
|--|-----------------------|
| Overall dimensions (length x width x height) | 67 in x 58 in x 97 in |
| Weight | 3080 lbs |



PRODUCT DETAILS

- This excellent price/performance ratio is made possible by high volume production with standardized VHF assemblies
- Extremely rigid machine bed made of high-strength cast-iron with heavy ribbing
- Precision-ground guideways with hardened surfaces for long term accuracy and wear resistance
- The milling table features a large setup area
- Vertical and horizontal spindles each have a separate drive with gearbox for maximum machining power
- The vertical head swivels to both sides ($\pm 45^\circ$), quill feed through capstan or with fine feed hand wheel
- When working with the horizontal spindle, the complete top beam/head assembly can be rotated $\pm 180^\circ$ on the column
- Standard outer arbor support with bronze plain bearings accommodates long milling arbors in the horizontal spindle
- Feed system with manual gearbox on X-axis and infinitely variable feed unit on the Y-axis
- Height adjustment of the work table via automatic feed - precision feed via smooth hand rank
- Swiveling control panel with integrated position indicator for maximum operator comfort
- Coolant system and chip tray are included

STANDARD EQUIPMENT

3-axis position indicator X.Pos 3.2
 Coolant system
 Work lamp
 Operating tools
 Operator instructions
 M16 draw bar
 Outer arbor support for horizontal milling
 Chip tray
 Cutter arbor $\varnothing 1"$