



PRODUCT.BROCHURE.SKU: 301410

The VHF 3 is a universal milling machine that can keep pace with the growing demands of our customers even after a good 20 years in the KNUTH catalog. Equipped with a horizontal spindle, a swiveling vertical milling head and a large clamping table, this model serves a wide range of applications. The entire VHF series is ideal for repair shops, as well as training and production departments. The complete configuration with automatic feed and digital position display enables precise production and short non-productive times.

- Solid construction for precision machining
- Automated work feeds on all axes to ensure best surface finish
- Swiveling vertical head ($\pm 45^\circ$) for angle machining
- Automated quill feed for fast and accurate drilling
- New generation DRO with milling functions

PRODUCT.BROCHURE.technical_specs

ATTRIBUTES.MEG-000008.DESCRPTION

attributes.MEG-000008.MER-000271	1320 mm x 320 mm
attributes.MEG-000008.MER-000020	5 positions
attributes.MEG-000008.MER-002446	14 mm x 63 mm
attributes.MEG-000008.MER-000358	300 kg

ATTRIBUTES.MEG-000059.DESCRPTION

attributes.MEG-000059.MER-000287	1000 mm
attributes.MEG-000059.MER-000288	245 mm
attributes.MEG-000059.MER-000289	430 mm

ATTRIBUTES.MEG-000012.DESCRPTION

attributes.MEG-000012.MER-000942	SK 40 DIN 2080
attributes.MEG-000012.MER-001501	90 1/min - 2000 1/min
attributes.MEG-000012.MER-000920	120 mm
attributes.MEG-000012.MER-000451	200 mm - 540 mm
attributes.MEG-000012.MER-000936	140 mm - 540 mm
attributes.MEG-000012.MER-000139	$\pm 45^\circ$

ATTRIBUTES.MEG-000060.DESCRPTION

attributes.MEG-000060.MER-000083	1024 mm/min
attributes.MEG-000060.MER-000084	1024 mm/min
attributes.MEG-000060.MER-000085	670 mm/min

ATTRIBUTES.MEG-000074.DESCRPTION

attributes.MEG-000074.MER-001522	SK 40 DIN 2080
attributes.MEG-000074.MER-001513	40 1/min - 1300 1/min
attributes.MEG-000074.MER-001514	0 mm - 430 mm

ATTRIBUTES.MEG-000006.DESCRPTION

attributes.MEG-000006.MER-001523	20 mm/min - 360 mm/mi
attributes.MEG-000006.MER-000463	(3) 0,08; 0,15; 0,25 mm/F

ATTRIBUTES.MEG-000002.DESCRPTION

attributes.MEG-000002.MER-002726	2.2 kW
attributes.MEG-000002.MER-000166	0.55 kW
attributes.MEG-000002.MER-000163	0.09 kW

ATTRIBUTES.MEG-000004.DESCRPTION

attributes.MEG-000004.MER-000002-height	1.71 m x 1.72 m x 2.33 m
attributes.MEG-000004.MER-000108	1900 kg



Horizontal milling spindle with outer arbor support for long milling arbors



Cutter head swivels $\pm 45^\circ$



Automatic 3-step quill feed

PRODUCT.BROCHURE.PRODUCT_DETAILS

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

3-axis position indicator

- More accuracy
- Lower error rate
- Increased productivity
- Resulting in valuable time savings
- For increased productivity
- Easy to read display
- Operator-specific features
- Convenient keyboard layout
- Resolution: 0.01/ 0.005 mm
- Default coordinates
- Axis position is maintained when display is turned off
- Hole circle pattern calculation
- Calculator function
- Storage for 10 tools
- Radius / diameter toggle
- Mm/inch conversion
- Easy expansion and maintenance-free operation

PRODUCT.BROCHURE.STANDARD_EQUIPMENT

3-axis position indicator X.Pos 3.2
 Drill chuck 16 mm
 Cutter arbor $\varnothing 27$ mm
 Cutter arbor $\varnothing 40$ mm
 Collet chuck ISO 40 with collets $\varnothing 4,5,6,8,10,12,14,16$ mm
 Reducing sleeve ISO 40 / MT3 and ISO 40 / MT2
 Coolant system
 Chip tray
 Work lamp
 Operating tools
 Operator instructions



KNUTH on YouTube Information to the point

On our YouTube channel you can find videos for nearly all machines from our program. We show the machines from current deliveries and you get an impression of the handling, the processing quality and the machining performance.

**Are you interested in a machine for which you cannot find a current video?
Please feel free to contact us!**