

Drilling and milling machine with stepless speed

FM 55 HSV Vario

- Delta- frequency inverter ensures variable speed adjustment with optimal torque
- Wide range of applications, such as slotting, face milling, circular milling etc.
- Automatic table feed with rapid feed allows quick table adjustment in x-axis
- Automatic spindle feed and thread cutting device come standard
- Dovetail guiding in x-, y- and z-axis, adjustable by gibs
- Mill head tilts to both sides for angular boring, groove milling and many more
- Digital display for speed and spindle stroke comes standard
- Solid, grey cast-iron machine stand eliminates vibrations
- Powerful coolant device included in machine base

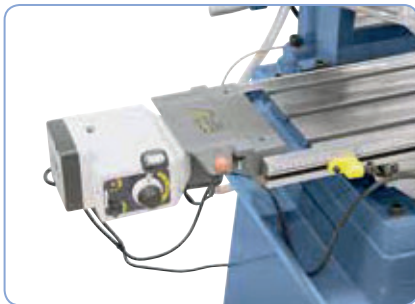
Lifting motor for mill head



Spindle feed can be set to 0.10 / 0.18 or 0.26 mm.



Central lubrication for all guideways come standard.



Complete with spindle feed

Large cross table features T-slots and coolant groove. Picture shows serially milling table power feed AL 450 D.



Technical data

FM 55 HSV Vario

Drilling capacity in steel	32 mm
Drilling capacity in cast iron	40 mm
Milling head max.	80 mm
Distance spindle to column	220 mm
Spindle speed, stepless	75 - 480 / 425 - 2750 rpm
Spindle taper	MT 4
Spindle stroke	125 mm
Spindle feed	(3) 0,10 / 0,18 / 0,26 mm/rev.
Table size	800 x 240 mm
Travel (x / y)	420 / 200 mm
Mill head tiltable	-60° to +60°
Distance spindle to table	95 - 485 mm
Height adjustment of mill head	390 mm
T-slot size	14 mm
Lifting motor	90 W
Motor power output S ₁ 100%	1,5 kW (400 V)
Motor power input S ₆ 40%	2,2 kW (400 V)
Machine dimension (W x D x H)	1270 x 960 x 2120 mm
Weight approx.	445 kg
Art. no.	02-1101

Standard accessories:

- 3-axis digital readout ES-12 V with LCD-Display
- Keyless drill chuck 3 - 16 mm / B 16
- Morse taper drill sleeve MT 4 - B 16
- Drawbar M 16
- Morse taper drill sleeve MT 4 / 3
- Taper shell end mill holder MT 4 / 27 mm
- Automatic spindle feed
- Height adjustable protective cover
- Lifting motor for mill head
- Central lubrication
- x-axis power feed AL 450 D
- Frequency inverter Delta VFD-E
- LED machine light
- Digital speed indication
- Digital spindle stroke indication
- Thread cutting device
- Steel cover
- Coolant device
- Longitudinal scale
- Cast iron stand with coolant groove
- Tools

Left and right turning

The FM 55 HSV Vario drilling and milling machine features a motorised height adjustment of the mill head and an automatic spindle feed. However, the stepless speed adjustment makes this model truly unique. Making this model truly versatile is the standard equipment which comprises all major accessories such as 3-axis position readout, table feed, lifting motor, central lubrication, coolant device, LED working light, cast iron stand with coolant groove and safety precautions in accordance with CE-standards.

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Easy pre-selection of the speed step by gear selector switch, speed adjustment by potentiometer.



Lifting motor, as part of standard accessories, allows for convenient adjustment of mill head



Frequency inverter allows for stepless adjustment of spindle speed

Including 3-axis digital readout with LCD-display

Inclusive thread cutting device

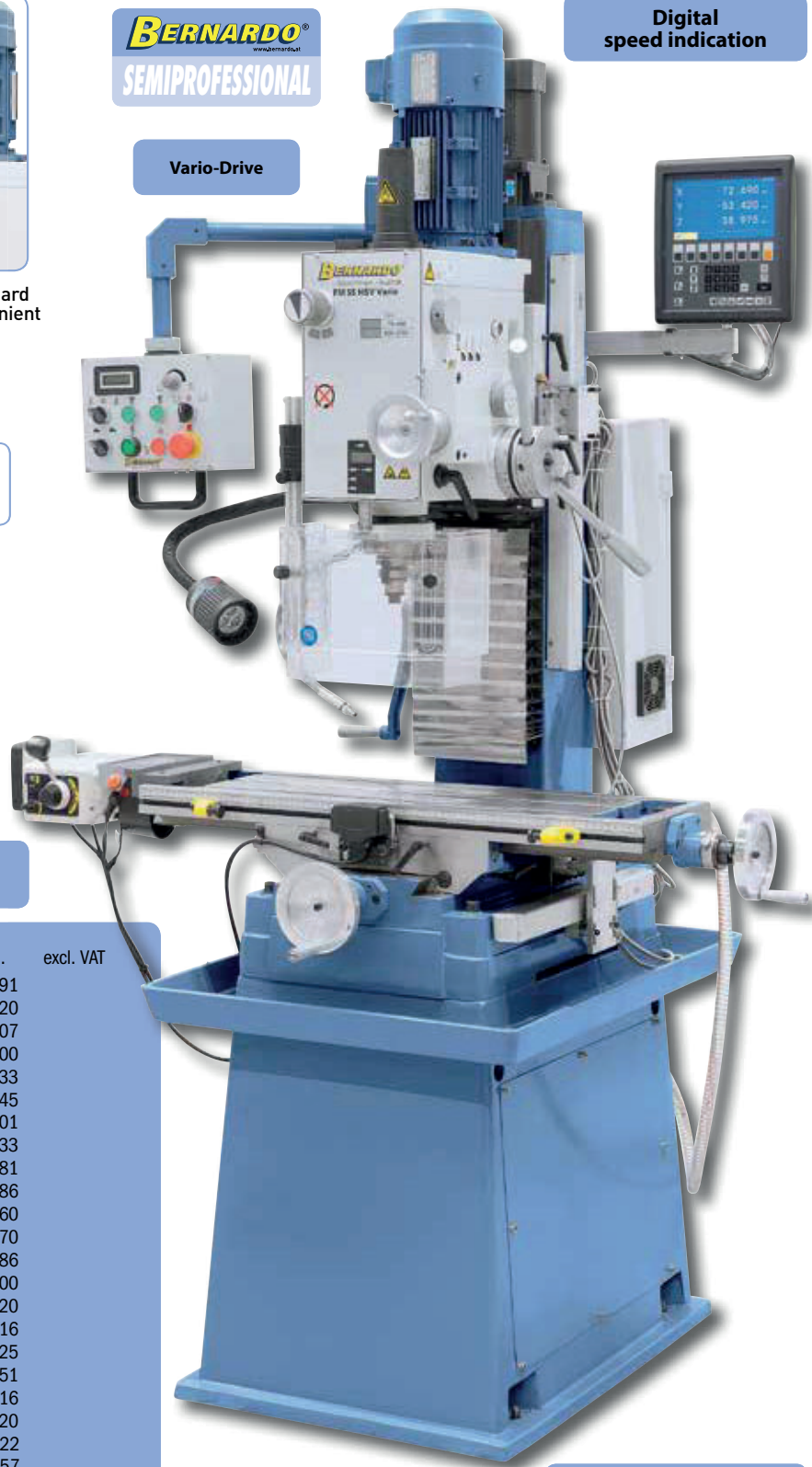
Inclusive steel cover

Optional accessories:	Art. no.	excl. VAT
Double roller tapping chuck set MT 4, M 3 - M 12	24-1091	
Boring head combo package diam. 75 mm, incl. boring bars	25-1020	
Mill chuck set ER 40, MT 4, 3 - 25 mm, 16 pcs.	26-1007	
Horizontal and vertical rotary table HV 6	27-1000	
Horizontal and vertical rotary table RT 5	27-1033	
Semi-universal dividing head BS-0	27-1045	
Deluxe clamping kit set 58 pcs., 14 mm, M 12	28-1001	
2 way precision tilting vise PTS 100	28-2033	
Machine vise KV 125	28-2081	
Opening wider machine vise FJ 125	28-2086	
Edge finder with indicator lamps SOE 20 S	32-1060	
Centering indicator	32-1070	
Zero setting device NEG 50	32-1086	
10 pcs. precision angle block set	35-1000	
28 pcs. standard steel parallel set	35-1020	
Adjustable angle gauge 0 - 60°	35-1016	
Wavy parallel set 18 pcs.	35-1025	
Metric size taper shank drills MT 2/3, 9 pcs. - 14,5-30 mm, set B	41-1051	
10 pcs. TiN-coated roughing end mills, 6 - 25 mm	42-1016	
20 pcs. HSS TiN-coated end mills, 3 - 20 mm	42-1020	
Combi milling box, 3 - 12 mm, 12 pcs.	42-1022	
Carbide indexable face milling cutter diam. 50 mm / B 22	42-1057	
Carbide indexable face milling cutter diam. 80 mm / B 27	42-1059	
Universal coolant fluid MN 1103, 5 l canister	54-1206	

BERNARDO
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Vario-Drive

Digital speed indication



Solid cast iron stand