



S 400

Vertical Hobbing Machine

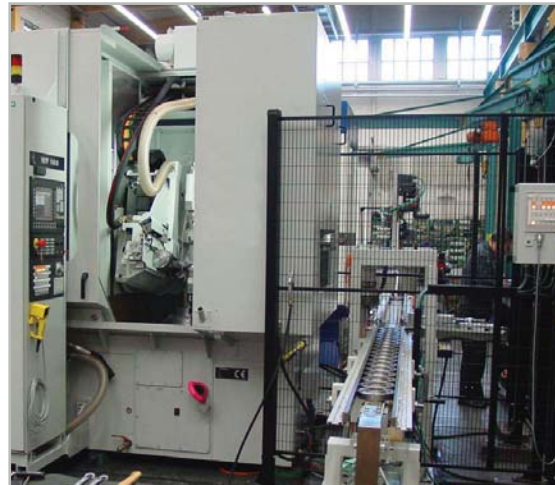
STANDARD MACHINE SPECIFICATIONS

CNC Vertical Hobbing Machine (6 axes) for wet/dry hobbing of spur and helical gears in one or more cuts via axial, radial/axial, tangential, diagonal hobbing technology with HSS or Carbide hobs.

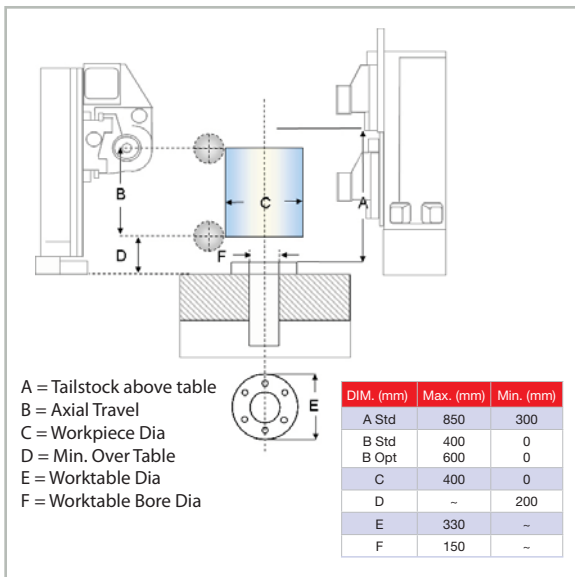
Technical Data - Capacities & Limits

Nominal Workpiece Diameter	400 mm
Maximum Module	6 (5*) mm
Maximum Axial Cutting Length	400 (600) mm
Maximum Hob Diameter	175 mm
Maximum Hob Length	300 mm
Maximum Hob Swivel	+/- 45°
Maximum Hob Shift	240 mm
Hob Speed Range (RPM)	800 (1200)
Workspindle Maximum Speed (RPM)	400
Hob Drive Power	14 (30) kw
Width (Approximate)	4000 mm
Height (Approximate)	2420 mm
Length (Approximate)	2750 mm
Weight (Approximate Net)	11500 kg

Technical data is subject to change without notice and may vary according to the workpiece geometry, the loading system and the workholding equipment supplied.



Optional conveyor for in-line automation



VERTICAL HOBBING

S 400

Vertical Hobbing Machine

Standard Equipment	
Description	
Thermal stabilized machine bed	
Moveable column	
With tailstock column	
Hobbing head B: 14 kw	
Hob spindle: 100-800 rpm	
Max. torque: 550 Nm	
Hob arbor location taper HSK A80	
Cylindrical counter bearing, manual moveable	
Worktable speed: 1 - 400 rpm (direct drive)	
Control Sinumerik 840 D	
Stationary electronic handwheel at control panel	
Samputensili operator dialogue metric or inch	
Emergency protection device for quick withdrawal of tool	
Skipping of max. 2 defective hob sections during shifting	
3-colours signal lamp	
Working area lighting	
Electric cabinet lighting	
Standard painting RAL 9010/7045	
Full enclosure of the working area	
Connecting pipe diameter for exhauster D=250 mm	
2 set documentation in German or English on CD	
CE conformity certificate	
Standard Equipment Total (\$):	

Optional Equipment	
Description	Price (\$)
HSK A80 - quick change device hob arbor	
Hobbing head AA for shank-type hob (instead of A)	
Increase of axial path	
Increase of counter column	
Equipment for wet technology	
Equipment for dry technology	
Chip disposal for steel nominal width 350mm	
Chip disposal for steel nominal width 250mm	
Chip disposal for short-chip materials	
Chip disposal for non-magnetic materials	
Chip disposal in special design	
Hydraulic workpiece clamping device	
Quick change workpiece clamping system table	
Counter column assembly for interface MK 4	
Tailstock bush for interface MK 4	
Counter column arbor for interface MK 4	
Counter column assembly for interface SK 40	
Counter column assembly for face driving equipment	
Counter column assembly	
Pre-deburring device: Hydraulic axial positioning for automation	
Pre-deburring device: Manual adjustable	
Flow supervision for coolant	
Vacuum and oil mist separator	
Equipment for emulsion with additional box	
Vacuum equipment for dry dust and chips	
Additional sound absorber for increased requirements (< 78 dB (A))	
Oil cooling unit, 1 circuit for circulation	
Oil cooling unit, 2 circuits for circulation	
Linear measuring system for radial axis	
Pneumatic machine door opening	
Equipment for automatic workpiece entering	
Telephone diagnostic system with modem or Internet	
Flushing pistol	
Special machine painting	
Optional Equipment Total (\$):	

Total Cost:	
Standard Equipment Total (\$):	
Optional Equipment Total (\$):	
TOTAL (\$):	



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