



S 400 G

Gear Grinding Machine

STANDARD MACHINE SPECIFICATIONS

CNC Vertical Generating and Profile Grinding Machine six (6 axes) for grinding external spur and helical gears by generating grinding with dressable ceramic wheels or electroplated CBN wheels, or by single index profile grinding with electroplated CBN wheels. Or a combined cycle of two tools.

Technical Data - Capacities & Limits

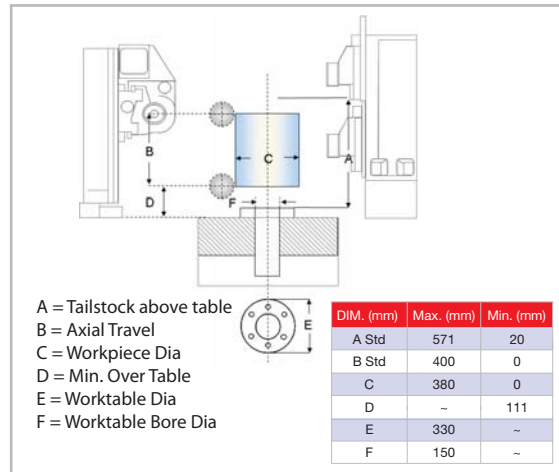
Maximum Outside Diameter	380 mm
Maximum Outside Diameter - Automatic Loading	250 mm
Module for Work by Worm Wheel	0.7 - 8.0 mm
Profile Depth, Electroplated CBN Wheels	1.0 - 25 mm
Maximum Workpiece Length	550 mm
Maximum Workpiece Weight on the Table	200 kg
Maximum Workpiece Weight - Automatic Loading	8 kg
Centre Distance Between Tool-Workpiece Spindle	43-308 mm
Tangential Travel	220 mm
Axial Travel	400 mm
Tool Head Swivel Angle	+/-45°
Tailstock Stroke	550 mm
Tailstock Thrust Force	400daN
Motor Power	48 kW@10.000 -20.000
Tool Shaft Coupling	HSK A63
Maximum Useful Tool Width	180 mm
Tool Spindle Speed (RPM)	0-20,000
Workpiece Spindle Speed (RPM)	0-1000
Total Installed Power	90/(120) kvA
Width (Approximate)	2420 mm
Height (Approximate)	2750 mm
Length (Approximate)	3850 mm
Weight (Approximate Net)	11,000 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.



GRINDING MACHINE

WORKING RANGE CAPACITY





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Standard Equipment	
Description	
Cast-iron machine base	
Moveable column	
Grinding head with synchro motor and liquid cooling system	
Worktable equipped with an asynchro, liquid-cooled motor	
Feed drives with pre-loaded ball screws and digital, brushless motors	
Linear guides	
Countercolumn has port-like structure with slide for tailstock	
Thermal stabilizer	
Full machine enclosure with L-shaped sliding door on operator side	
Electromagnetic door lock	
Oil cooling and lubrication	
Recovery pump for dirty oil	
Hydraulic unit with pump and oil pressure control	
Pneumatic system with filtering unit and Heidenhain maintenance unit	
Lubrication system	
Cooling system	
Automatic indexing	
Quick safety withdrawl	
Siemens SINUMERIK 840 D control, XP operating system	
Menu guided operator interface in Windows environment	
1 tool arbour and 1 set of flanges	
2 set documentation in German or English on CD	
CE conformity certificate	
Integrated modem (telephone line required)	
SU dialogue software	
Standard painting (RAL 7022)	
Standard Equipment Total (\$):	

Optional Equipment	
Description	Price (\$)
Automatic retractable phasing unit	
Automatic NC phasing unit	
External balancing unit	
Balancing unit integrated in the grinding spindle	
Profiling spindle for worm wheel	
Worm wheel dressing spindle (GMN electrospindle)	
Worm wheel out diameter dressing unit	
Additional worm wheel dressing spindle	
Electrostatic fume extractor	
Probe for checking the centralized suction flow	
Oil cooling and lubrication with drum filter	
Automatic opening of the operator's door	
Automatic loader with 3 CNC controlled axes	
Workpiece magazine with pallets	
Special electrical equipment	
Special machine painting	
On-screen texts, documentation and sign posting	
Customized technical specifications	
Customized machine layout	
Software for grinding with profile grinding wheels	
Software for combined machining	
Optional Equipment Total (\$):	
Total Cost:	
Standard Equipment Total (\$):	
Optional Equipment Total (\$):	
TOTAL (\$):	

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