



RASO 200

Gear Shaving Machine

GEAR SHAVING

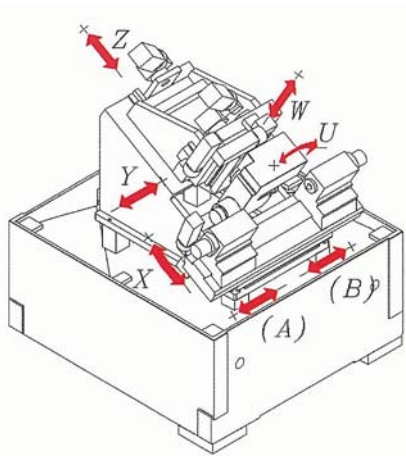
STANDARD MACHINE SPECIFICATIONS

The compact and speedy SICMAT's RASO 200 gear shaving machine has a slant bed structure that gives it the stiffness of larger machines. Performing well for large manufacturers as well as smaller operations, the RASO 200 has wide variety of options for loading systems, layout and the number of axes. Cycle speed performance and flexibility make this machine ideal for producing automatic gearbox gears, motor cycle gears and pump gears.



Technical Data - Capacities & Limits	
Min. / Max. Module	0.8 - 3.5 mm
Min. / Max. Module distance between workpiece and shaving cutter	110 - 204 mm
Min. / Max. Dia. of Shaving Cutter	178 - 245 mm
Shaving Cutter Bore Diameter	63.5 (100) mm
Min./Max. Shaving Cutter Width	19 - 50.8 mm
Max. face to be shaved	42 mm
Width (Approximate)	2400 mm
Height (Approximate)	2230 mm
Length (Approximate)	2600 mm
Weight (Approximate Net)	4000 kg
Length (Approximate)	4800 mm
Weight (Approximate Net)	13,500 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.



Axes		Movement / Function	Group
Work Axes	Z	Radial Feed of Cutter	Knee
	X	Table Oscillation	Ellipsoid
	Y	Movement of Cutter Parallel to Workpiece Axis	Cross Slide
	W	Movement of the Cutter Orthogonal to the Workpiece Axis	
Y + W in Interpolation		Movement of the Cutter Diagonal to the Workpiece Axis	
Positioning Axes	U	Angular Positioning of Cutter Head	Cutter Head
	A	Tailstock Positioning (Optional)	Tailstock
	B	Headstock Positioning (Optional)	Headstock
	C	Automatic Loaders Adjustments	Automatic Loaders
	D		

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Standard Equipment	
Description	
Compact cast iron weldment bed frame design	
Cutterhead with easy change feature	
Quick release/clamp cutter clamp	
Self contained coolant system, 250 liter capacity	
Magnetic chip separator and chip container	
Lubrication system	
Hydraulic system	
Integral electrical cabinet and control panel with AC	
Siemens digital brushless servomotors	
Sinumerik 840D control; 3 axes spindle	
SICMAT conversational software	
Thermal compensation, CNC controlled	
"U" and "Z" calculation software	
Diagnostics	
Neon work lamps	
Full enclosure of the work area	
Workpiece counters	
Standard painting per customer selected color	
Set of documentation in English	
Spacers, levelling blocks, service keys	
Manufactured to EC specifications 89/392	
Standard Equipment Total (\$):	

Required Optional Equipment	
Description	Price (\$)
Headstock, hydraulically operated, 80 mm max. stroke	
Tailstock, locking, hydraulically operated, 80 mm max. stroke	
Automatic shifting of headstock and tailstock	
Set of centres for headstock and tailstock, No. 2 centers	
Tailstocks cone-face adaptor, for rapid setup of the plug-cup	
Basic drum loader unit type "ADATTO 8"	
Workpiece storage system (V-shaped)	

Optional Equipment	
Description	Price (\$)
Interface with external automation	
Machine covering hood	
Custom inlet slide	
Drum unit	
Customized outlet slide	
Plug-cup, mechanical expandable type	
Expandable bush for plug-cup	
Optional Equipment Total (\$):	

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

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