



MS300-125

B&K Fellows CNC Gear Shaper

GEAR SHAPER

STANDARD MACHINE SPECIFICATIONS

The Bourn & Koch Fellows MS300-125 is a seven (7) axis CNC mechanical stroking gear shaper with GE Fanuc 16i control, electronic indexing, and elevating cutter spindle housing for shaping internal and external gears.

Technical Data - Capacities & Limits	
Nominal PD (external)	305 mm
Nominal PD (internal)	305 mm
Maximum Module	6.35 mod
Maximum Face Width	125 mm
Maximum Helix Angle	45°
Worktable Diameter	350 mm
Cutter Spindle Stroking Range	50-2000 spm
Cutter Spindle Diameter	100 mm
Maximum Part Swing Diameter	527 mm
Cutter spindle slide travel	300 mm
Height (Approximate)	3100 mm
Length (Approximate)	3385 mm
Width (Approximate)	2176 mm
Weight (Approximate Net)	7030 kg

Technical details subject to change without notice.



	Max. (mm)	Min. (mm)
Nominal Work Diameter	Ø 300	~
Center Distance	X	
Maximum Work Swing Diameter (mm)	527	~
Cutter Spindle Diameter (mm)	120	~
Face Width Range	V	0
Stroke Length		0
Axial Slide Position (spindle face to table)	Z	575
		275

Technical data subject to change without notice. Submit drawings for workspace interference study.

Top of Worktable

Actual machine W-H-L and Weight depend on ordered configuration. Technical data is subject to change without notice and may vary according to the workpiece geometry, the loading system and the workholding equipment supplied.

\varnothing = Nominal Workpiece Diameter; X= Center Distance; V= Face Width Range; Z = Axial Cutter Slide Position Above Table Top



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Standard Equipment	
Description	
Base machine with GE Fanuc 16i CNC control	
Hydrostatic spur guide	
Quick change cutter system	
Machine mounted console, 10" color LCD touch screen	
Inch/metric inputs/outputs	
Tool offsets	
Manual pulse generator, inch/metric switchable	
Diagnostics and error prevention	
7 axis control using AC Servo Direct Drives:	
Stroke drive	
Rotary feed drive	
Infeed drive	
Electronic index drive	
Cutter relief drive	
Cutter elevate drive	
Stroke length	
Selectable number of cuts	
Programmable, multi-surface cutting capability	
Programmable infeed and rotary feed	
Lubrication system	
Coolant system 210 liter, chip basket, nested chip conveyor	
Full machine enclosure	
Paint: Sherwin Williams Swiss Dotted Off-White	
Documentation	
Work lamp, high intensity	
Manufactured in USA	
Standard Equipment Total (\$):	

Optional Equipment	
Description	Price (\$)
Hydrostatic helical guide	
Quick change cutter adapter	
Automatic hydraulic fixture clamping unit	
Hydraulically operated swing away center support	
Power rear door, robot load ready	
Continuous loop conveyor, pick and place automation	
Workholding fixturing	
Gear shaper cutters	
Training programs	
CE certification for EU destinations	
Optional Equipment Total (\$):	

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



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