GLEASON PFAUTER P 2000 G

Gear Grinding Machine

Stock number:	1118-1608
Type of machinery:	Gear Grinding Machine
Manufacturer:	GLEASON PFAUTER
Type:	P 2000 G
Year:	2000
Control unit:	CNC
Maker of control unit:	SINUMERIK 840 C
Country of origin:	Germany
Item location:	ex location
Delivery time:	short-term
Freight basis:	EXW

Seller

FLECKENSTEIN Werkzeugmaschinen GmbH
Sommerweg 15
63831 Wiesen

Phone: +49 (0)609697060
Fax: +49 (0)6096970620
E-Mail: fleckenstein@fleckenstein-machine.com
www.fleckenstein-machine.com

Technical specs

max. wheel diameter:	2.000 mm
gear width:	1.000 mm
max. module:	-
nominal workpiece diameter for external grinding head:	2.000 mm
max. radial travel (X-axis):	1.220
max. tangential travel (Y-axis):	300 mm
max. axial travel (Z-axis):	1.000 mm
lowest grinding wheel position above table:	470 mm
max. depth of profile:	80 mm
milling head swivelling angle (A-axis):	+/- 45°
work piece table: :	.
external diameter:	1.460 mm
bore diameter x depth:	506x898 mm
max. permissible load:	20.000 kg
table speed max. :	5 min-1
hydrostatic radial bearings, axial plain bearing:	.
autom. hydraulic table relief:	.
grinding spindle drive:	24 kW
turning speed range:	1.200-6.000 U/min
grinding mandrel diameter:	80 mm
grinding wheel dimensions:	400x80x127 mm
integrated automatic balancing device:	.
counterholder:	:
steady rest diameter min./max.:	80/500 mm
Slide cross:	900 mm
tip diameter max.:	115 mm
position above table min./max.:	926/1.826 mm
Dressing:	.
feed:	2.400 mm/min
turning speeds:	2.000-8.000 min-1

GLEASON PFAUTER P 2000 G

Gear Grinding Machine

dressing wheel diameter max. :	130 mm
feed and rapid traverse:	-
axis X:	3 m/min
axis Y:	5 m/min
axis Z:	6 m/min
weight of the machine ca.:	27.000 kg
dimensions of the machine ca.:	12 x 6 x 5 m
Total conneted load :	80 kVA
voltage:	400 V
operating frequency:	50 Hz
control voltage:	24 V DC

Description

CNC-control SINUMERIK 840 C
• Modular design in 1-channel configuration
• 5 axes + 1 spindle and gear interpolation
• 19" flat operating panel with 10" TFT display
• 40 Mbyte hard disk capacity
• Electrical clearance with emergency strategy
• Incremental measuring systems
• Network connection (Ethernet)
• Digital drive technology
• Mobile handwheel

Gear cutting software
• Dialog software for automatic generation of part programs for profile grinding of external gears
• Data protection (Backup/Restore)
• Data import/export
• Pitch jump compensation
• Warm up program
• Offline version
• Integrated grinding time calculation
• Automatic cut distribution
• Interlock-controlled grinding during single flank grinding
• Grinding of double helical gears
• Double helical centering
• Gear measurements for involute external toothed workpieces
The following measurements can be performed: Profile measurement, flank line measurement, Pitch and concentricity test, tooth width measurement
• Measurement evaluation by area
• Printing of input data
• Printing of measurement results

Machine description and equipment
• Basic machine P2000G
• NC dressing device with two dressing spindles and additional feed axis
• Software for fault diagnosis
• Network connection (Ethernet)
• Centering device with touch probe
• Inkjet printer (colored)
• Oil mist extraction system
• External grinding head with 24kW and 6,000 rpm
• Pitch jump compensation
• Warm-up program
• Integrated grinding time calculation
• Automatic cutting division
• Interlock-controlled grinding during single flank grinding
• Special software for double helical gears
• Special software double helical centering

GLEASON PFAUTER P 2000 G

Gear Grinding Machine

• Gear measurement
• Workpiece table with separate servo drive and 1-speed double worm gear
• Hardened and ground ball screws with preloaded nuts
• Full coverage of the working area
• Coolant and filtration system make Hoffmann, 32kW, tank capacity 3,000 litres, 2 x 200 l/min pump capacity, Coolant cleaning with fine filter (without using filter consumables)
• Oil recooling system with cooling circuits for the lubricant and coolant system and
for the grinding spindle drive
• Fixed tailstock column
• Tailstock with steady rest, movable hydraulically
• Adapter for steady rest with tailstock tip
• shown clamping arbor and additional table plate are not included in the scope of delivery