

Machine Name : Gear grinding machine

Brand : NILES

Machine Model : ZP12B

Stock No. : 4812677

Ex-factory Date : 2012



Main Technical Parameters:

Machining Range

Maximum workpiece diameter: $\Phi 1250$ mm

Distance from grinding wheel center to rotary worktable: 925 / 215 mm

Maximum number of teeth: Unlimited

Maximum tooth depth: 100 mm

Maximum module: 50 mm

Helix angle range: $\pm 45^\circ$

Reciprocating stroke: 1300 mm

Grinding Spindle C1 / C2

(External cylindrical gear grinding)

Motor power: 2×40 kW

Spindle speed: 3130 rpm

Maximum grinding wheel size:

Diameter: 400 mm

Width: 80 mm

Minimum dressable grinding wheel diameter: 190 mm

Grinding Spindle C3

(Internal gear grinding)

Motor power: 25 kW

Spindle speed: 30,000 rpm

Maximum grinding wheel size:

Diameter: 350 mm

Width: 250 mm

Minimum dressable grinding wheel diameter: 210 mm

Rotary Worktable

Maximum workpiece weight: 10,000 kg

Worktable diameter: $\Phi 1000$ mm

Center hole of worktable: 440×235 mm

Rotary worktable size: 200×500 mm

Drive system: Direct drive

Machine Dimensions and Weight

Floor space:

Length: Approx. 7000 mm
Width: Approx. 6300 mm
Height: Approx. 4500 mm
Machine weight: Approx. 32.5 tons
Electrical Data
Total connected load: 83 kVA
Required power supply: 110 kVA
Power supply: 400 V / 50 Hz
Main Motor Configuration
Column axis: Siemens 1FT7105
Power: 63 kW
Rotary worktable: Siemens motor
Power: 7 kW
X-axis movement: Siemens 1FT7105
Power: 15.7 kW
Grinding slide: Siemens 1FT7105
Power: 8.5 kW
Grinding Spindle C1/C2 Motor
Model: GWN TSE200-12000
Power: 2 × 40 kW
Feed Rate
Maximum column travel speed: 0-6000 mm/min
Grinding slide travel speed: 0-12000 mm/min



