

Machine Name : CNC cylindrical grinding machine

Brand : SCHAUDT

Machine Model : PF51 UNN 1000

Stock No. : 482132

Ex-factory Date : 2007



Main Technical Parameters:

X-axis travel: 300mm

Z-axis travel: 1150mm

Machining length: 1000mm

Center height: 255mm

Grinding wheel diameter: 400mm





Körber Schleifring	
STUDER SCHAUDT GmbH	
D-70329 Stuttgart, Hedelfinger Str. 137	
Type	PF51 UNN 1000
Serial - No.	120.435
Year of manufacture	2007
Weight of cabinet	kg
Type of current	3 ~
Frequency	50 Hz
Nominal voltage	400 V
Control voltage	24 V=
Connected load	48 kVA
Nominal current	70 A
Supply fuse	80 A

Grinding diameter (max.)	2.380 mm
Height at centres	440 mm
Grinding length = distance between centres	225 mm
Workpiece weight between the centres (max.)	1.000 ¹⁾ mm
Machine weight (without auxiliary assemblies)	250 kg
Continuous sound level at the control desk (max.)	+9.000 kg
Connected loads, see Section 4.4 "Connecting / connected loads"	70 dB(A)
8.2 WORKPIECE TABLE (Z AXIS)	
Drive	Three-phase servomotor, position-controlled
Positioning rate (max.)	15.000 ²⁾ mm/min
Displacement path	1.150 mm
Computational resolution	0.0001 mm
8.3 WHEEL HEAD POSITIONING UNIT (X AXIS)	
Drive	Three-phase servomotor, position-controlled
Positioning speed (max.)	15.000 ²⁾ mm/min
Displacement path	300 mm
Computational resolution	0.0001 mm
8.4 WORKPIECE SPINDLE HEAD	
Drive	Three-phase servomotor, speed-controlled
Workpiece spindle speed (max.)	1.000 rpm
Load torque at spindle head (workpiece incl. chuck)	250 Nm
Centre point, rotating	Morse K4
Cylindricity error compensation	+0.05 mm/Ø
8.5 TAILSTOCK	
Drive	Clamping force and quill retraction hydraulically
Quill stroke	80 mm
Centre point, stationary	Morse K4
Cylindricity error compensation	+0.1 mm/Ø

1) The work space can be partially limited by accessories or special devices/systems
2) In certain modes, the values may be reduced

Drive	Motor spindle, speed-controlled, water-cooled
Grinding wheel diameter (max.)	500 mm
Wheel bore	203.2 mm
Wheel width (max.)	80 mm
Circumferential wheel speed (CWS), constant (max.)	50 m/s
Drive power	10 kW
Grinding spindle 2 - external grinding: Grinding attachment, RH	
Drive	Motor spindle, speed-controlled, water-cooled
Grinding wheel diameter (max.)	500 mm
Wheel bore	203.2 mm
Wheel width (max.)	80 mm
Circumferential wheel speed (CWS), constant (max.)	50 m/s
Drive power	10 kW
8.7 SLEWING FACILITY FOR WHEEL HEAD (B AXIS)	
Drive	Three-phase servo motor, position-controlled
Slewing angle	-45 to +190 deg
8.8 DRESSING DEVICES	
Dressing device on the table, shifting	
Position of the dressing tiles (left, middle, right)	+30, 0, -30 deg
Profile camber (max.)	40 mm
Dressing tile width	10.5 mm
8.9 NOTES	
For the technical data of the vendor subassemblies, please refer to the attached documentation of the appropriate manufacturers.	