

HAUSER S35-200

Attractive price/performance ratio for automatic bore- and contour grinding.



TECHNICAL DATA

Capacity

Range of adjustment X, Y	500 x 300 mm (19.7 x 11.8 in)
Vertical adjustment of grinding head (W)	450 mm (17.7 in)
Clearance between grinding motor (45S) and table	0 - 500 mm (0 - 19.7 in)
Distance between spindle center and column	365 mm (14.5 in)
Diameter ground (with wheel Ø 100 mm):	
- without extension plate	max. 230 mm (9 in)
- with extension plate	max. 360 mm (14.2 in)

Table

Working surface	600 x 380 mm (23.6 x 15 in)
6 T-slots, width	10 mm (.394 in)
Admissible load	max. 300 kg (660 lb)

Feeds

Table and saddle X, Y	
- Machining speed	0 - 2'000 mm/min (0 - 47.2 in/min)
- Traversing speed	2'000 mm/min (47.2 in/min)
Vertical W	900 mm/min (35.4 in/min)

Grinding spindle

Diameter of spindle sleeve	100 mm (3.94 in)
Grinding spindle speeds:	
- Grinding motors, infinitely adjustable	4'500 - 80'000 min ⁻¹ (r.p.m.)
- Grinding turbines, adjustable up to	130'000 min ⁻¹ (r.p.m.)
- Slot-grinding attachments, infinitely adjustable	3'900 - 18'300 min ⁻¹ (r.p.m.)

Planetary speed (C):	
AC servo-drive, infinitely variable	up to 300 min ⁻¹ (r.p.m.)
Stroke speed (Z):	
- Alternating stroke movement, infinitely adjustable	V _{min.} 0,500 mm/min (.02 in/min) V _{max.} 14'000,000 mm/min (472 in/min)
- Stroke frequency Z	max. 5 Hz
Stroke length Z, infinitely adjustable	max. 110 mm (4.33 in)
Tolerance on the reversing points	max. 0,05 mm (.002 in)
Radial feed (U)	up to 5,5 mm (.217 in)

Accuracy indications

Positional uncertainty (approached from ± direction) P corresponding to VDI/DGQ 3441	0,0025 mm (.0001 in)
Positional deviation (approached from ± direction) P _a corresponding to VDI/DGQ 3441	0,002 mm (.00008 in)

Measuring conditions

Ambient temperature	20 °C -0°/+2°
Permissible temperature changes	2 °C per 24 hours, resp. 0,5 °C per hour
Variations of temperature within the machine volume	0,5 °C

Conditions for installation

Electric connection	3 x 400 V, 50 Hz
Installed power	7,5 kW
Preliminary fuses	25 A
Connection to earth with flex cable	min. 10 mm ²
Mains voltage/mains frequency tolerance	±10 % / ±2 %
Mains failure duration	max. 10 ms
Ambient temperature of the control unit	5 °C - 30 °C
Air requirement (suction capacity of compressor)	20 m ³ /h (706 cu.ft./h)
Necessary mains pressure	6 bar (90 psi)
Permissible mains pressure	max. 10 bar (150 psi)