

Machine Name : Jig grinding machine

Brand : HAUSER

Machine Model : S35-400

Stock No. : 89727

Ex-factory Date : 1993



Main Technical Parameters:

Adjustment range of the X*Y axes: 500 × 300 mm

Vertical adjustment of the grinding head (W): 450 mm

Gap between the grinding motor and the worktable: 0-500 mm

Distance from spindle center to the column: 365 mm

Grindable diameter (with Ø100 mm grinding wheel):

Without extension plate: max. 230 mm

With extension plate: max. 360 mm

Taper grinding angle (divergent/convergent): max. 16°

Worktable:

Worktable surface: 600 × 380 mm

Maximum allowable load: 300 kg

Feed:

X and Y directions (worktable and saddle)

Machining speed: 0-2000 mm/min

Rapid traverse speed: 2000 mm/min

W direction (vertical)

Machining speed: 0-2000 mm/min

Rapid traverse speed: 4000 mm/min

Grinding Spindle

Spindle sleeve diameter: 100 mm

Spindle speeds:

Grinding motor (stepless adjustment, programmable): 4500-80,000 rpm

Grinding air turbine: up to 130,000 rpm

Slot-grinding attachment (stepless adjustment): 3900-18,300 rpm

C-axis Rotational Speed:

Planetary mode (stepless adjustment, programmable): 5-300 rpm

Follow-up mode (AC servo): up to 20 rpm

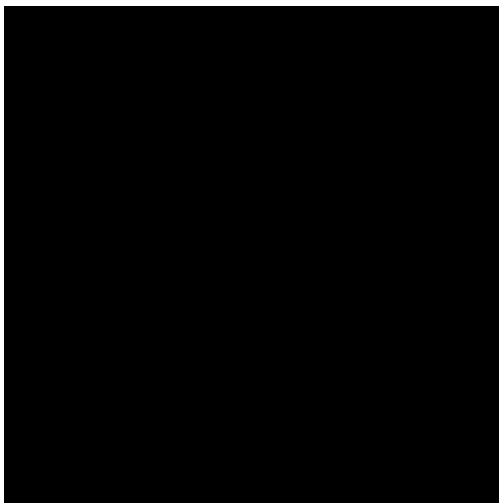
Z-axis Reciprocating Stroke:

Speed range: 0.500-14,000,000 mm/min

Maximum reciprocating frequency: 5 Hz

Maximum stroke (stepless adjustment): 110 mm

The specifications shown on this website are for reference only. The manufacturer reserves the right to modify the design or specifications without prior notice.



HAUSER S35-400

HIGH TECH AS YOU WANT IT

From the straight-forward
bore grinding machine
to the automatic
grinding unit.



TECHNICAL DATA

Capacity

Range of adjustment X, Y	500 x 300 mm (19.7 x 11.8 in)
Vertical adjustment of grinding head (Z)	400 mm (15.7 in)
Distance between grinding head (400) and table	0 - 900 mm (0 - 35.4 in)
Distance between saddle center and column	300 mm (11.8 in)
Diameter spacers (with wheel: Ø 100 mm)	
- without extension plate	max. 200 mm (7.9 in)
- with extension plate	max. 300 mm (11.8 in)
Taper grinding, included angle (divergent and convergent)	max. 10°

Table

Working surface	800 x 360 mm (31.5 x 14.2 in)
8 - slots, width	10 mm (3/8 in)
Admissible load	max. 300 kg (660 lb)

Feeds

Table and saddle X, Y	
- Machining speed	0 - 2000 mm/min (0 - 78.7 in/min)
- Feeding speed	2000 mm/min (78.7 in/min)
Vertical traveling speed Z	
- Machining speed	0 - 2000 mm/min (0 - 78.7 in/min)
- Feeding speed	4000 mm/min (157.4 in/min)

Grinding spindle

Machine prepared for the following grinding spindle speeds:

Machine prepared for the following grinding spindle speeds:

- Grinding motors: infinitely adjustable and programmable

Machine prepared for the following grinding spindle speeds:

4500 - 60000 min⁻¹ (r.p.m.)



HAUSER TRIPETT-SCHUDIN

- Grinding turntable, adjustable up to	150000 min ⁻¹ (r.p.m.)
- Spindle grinding attachments, infinitely adjustable	3000 - 6000 min ⁻¹ (r.p.m.)
Handwheel speed (Clocks)	
- Handwheel mode, infinitely adjustable and programmable	0 - 300 min ⁻¹ (r.p.m.)
- Cranks to low-speed mode, AC servo-drive	up to 25 min ⁻¹ (r.p.m.)
Stroke speed Z-axis	
- Alternating stroke movement, infinitely adjustable	V _{max} 0,600 mm/min (23.6 in/min)
	V _{max} 3400 mm/min (133.9 in/min)
- Stroke frequency Z	max. 1 Hz
- Stroke length Z, infinitely adjustable	max. 110 mm (4.33 in)
Work lead U-axis	up to 0,5 mm (0.0197 in)

Accuracy indications

Geometrical uncertainty of the axes X, Y and Z ¹⁾ (projected from a direction)	
P corresponding to VDI/DGQ 3441 from coordinate system of the axes X, Y and Z ²⁾ (projected from a direction)	0.002 mm (0.00008 in)
P ₁ corresponding to VDI/DGQ 3441 from coordinate system of the axes X, Y and Z ²⁾ (projected from a direction)	0.001 mm (0.00004 in)
Mean traveling error of the axes X, Y and Z ³⁾ (projected from a direction)	
U corresponding to VDI/DGQ 3441 from coordinate system of the axes X, Y and Z ²⁾ (projected from a direction)	0.001 mm (0.00004 in)
P ₁ corresponding to VDI/DGQ 3441 (projected from a direction)	0.001 mm (0.00004 in)
Geometrical uncertainty of the axes X, Y and Z ¹⁾ (projected from a direction)	
Q corresponding to VDI/DGQ 3441 (projected from a direction)	0.001 mm (0.00004 in)
Geometrical uncertainty of the axes X, Y and Z ¹⁾ (projected from a direction)	
Q corresponding to VDI/DGQ 3441 (projected from a direction)	0.001 mm (0.00004 in)

Measuring of the ground gauging, with Talysurf.

Max. wheel diameter

0.005 mm (0.0002 in)