

HAUSER TRIPET TSCHUDIN

HAUSER S35-400

HIGH TECH AS YOU WANT IT

From the straightforward 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 (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)

Taper grinding, included angle (divergent and convergent) max. 16°

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 - 78.7 in/min)

- Traversing speed 2'000 mm/min (78.7 in/min)

Vertical traversing speed W

- Machining speed 0 - 2'000 mm/min (0 - 78.7 in/min)

- Traversing speed 4'000 mm/min (157.4 in/min)

Grinding spindle

Diameter of the spindle sleeve 100 mm (3.94 in)

Machine prepared for the following grinding spindle speeds:

- Grinding motors, infinitely adjustable and programmable 4'500 - 80'000 min⁻¹ (r.p.m.)



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- 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-axis:

Planetary-mode, infinitely adjustable and programmable
 C-axis follow-up mode, AC servo-drive
 5 - 300 min⁻¹ (r.p.m.)
 up to 20 min⁻¹ (r.p.m.)

Stroke speed Z-axis:

- Alternating stroke movement, infinitely adjustable V_{min} 0,500 mm/min (.02 in/min)

V_{max} 14'000,000 mm/min (551 in/min)

- Stroke frequency Z max. 5 Hz

- Stroke length Z, infinitely adjustable max. 110 mm (4.33 in)

Radial feed U-axis up to 5,5 mm (.217 in)

Accuracy indications

Positional uncertainty of the axes X ,Y and W

(approached from ± direction)

P corresponding to VDI/DGQ 3441 0,002 mm (.00008 in)

Mean positional scatter of the axes X ,Y and W

(approached from ± direction)

P_s corresponding to VDI/DGQ 3441 0,0016 mm (.00006 in)

Mean reversing error of the axes X, Y and W

(approached from ± direction)

U corresponding to VDI/DGQ 3441 0,001 mm (.00004 in)

Positional deviation of the axes X .Y and W

(approached from ± direction)

P_a corresponding to VDI/DGQ 3441 0,0015 mm (.00006 in)

Contouring accuracy of the axes X - Y:

Grinding of a gauge-ring Ø 200 mm.

Measuring of the ground gauge-ring, with Talyrond.

Max. allowed deviation 0,005 mm (.0002 in) Repeating accuracy of the Z-axis $\pm 0,001$ mm (.00004 in) Dynamic reversing accuracy of the Z axis in stroking $\pm 0,000$ mm (+.000 in)

mode and on the full speed range between 1 and 12 m/min -0,050 mm (-.002 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 $\pm 10 \% / \pm 2 \%$



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Mains failure duration max. 10 ms Ambient temperature of the control unit 5 $^{\circ}$ C - 30 $^{\circ}$ C

Air requirement (suction capacity of compressor) 20 m³/h (706 cu.ft./h)

Necessary mains pressure 6 bar (90 psi)

Permissible mains pressure max. 10 bar (150 psi)