



Studer CT product series

Internal cylindrical grinding
with tradition and innovation.

Die plates, spring collets, tool holding fixtures, hydraulic components, thread ring gauges and many other workpieces composed of hard materials like tool steel, carbide, ceramics and glass.

For each small to medium sized internal cylindrical grinding application, Studer has the optimal machine.

The Art of Grinding.



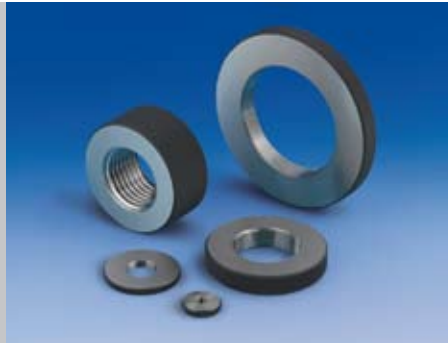


Internal and universal cylindrical grinding machines with in-line spindle arrangements and without a B-axis.

In the area of internal, face and external grinding of chucking components we set standards. The modular and flexible arrangement of spindles enables optimal dimensioning of the machine, ranging from the machining of individual parts to large-scale production. Studer CT machines also support integrated and autonomous loading systems.



	CT450	CT450L	CT550
Max. number of spindles (in-line):	3 spindles	2 spindles	3 spindles
HF spindle Ø:	45/60/80/100/120 mm (1.77/2.36/3.14/3.93/4.72 in)	-	80/100/120 mm (3.14/3.93/4.72 in)
Belt-driven spindle Ø:	80 mm (3.14 in)	80 mm (3.14 in)	80 mm (3.14 in)
External grinding wheel:	max. 305 mm (12.00 in)	-	max. 305 mm (12.00 in)
X-axis:	450 mm (17.71 in)	450 mm (17.71 in)	520 mm (20.47 in)
Z-axis:	200 mm (7.87 in)	200 mm (7.87 in)	250 mm (9.84 in)
B-axis setting angle (manual):	±2° (opt. +21°)	-1°/+8°	+1°/-1°
Workhead rpm:	max. 1 500 min ⁻¹	max. 1 500 min ⁻¹	max. 1 200 min ⁻¹
Load on spindle nose:	max. 25 kg (55 lbs)	max. 25 kg (55 lbs)	max. 100 kg (220 lbs)
Height of centers above table:	102 mm (4.01 in)	102 mm (4.01 in)	150 mm (5.90 in)
Length of parts:	max. 230 mm (9.05 in)	max. 150 mm (5.90 in)	max. 650 mm (25.59 in)
Grinding length:	max. 120 mm (4.72 in)	max. 120 mm (4.72 in)	max. 150 mm (5.90 in)



Internal, universal and radius cylindrical grinding machines with an automatic B-axis and with either in-line spindle arrangements or a turret.

Machines with an automatic B-axis in the area of internal, face, external, cone and radius grinding for extremely flexible machining of chucking components. Thanks to offline simulation programming and the sophisticated set-up philosophy, set-up time is significantly reduced.



	CT730	CT730L	CT750	CT930	CT960
Max. number of spindles (in-line):	4 spindles	2 spindles	-	3 spindles	-
Max. number of spindles on turret:			2 spindles		4 spindles
HF spindle Ø:	45/60/80/100 mm (1.77/2.36/3.14/3.94/4.72 in)	-	100 mm (3.93 in)	100/120 mm (3.93/4.72 in)	100/120 mm (3.93/4.72 in)
Belt-driven spindle Ø:	-	80 mm (3.14 in)	-	-	-
Outer grinding wheel:	max. 200 mm (7.87 in)	-	max. 150 mm (5.90 in)	max. 250 mm (9.84 in)	max. 250 mm (9.84 in)
X-axis:	360 mm (14.17 in)	360 mm (14.17 in)	360 mm (14.17 in)	400 mm (15.74 in)	400 mm (15.74 in)
Z-axis:	250 mm (9.84 in)	250 mm (9.84 in)	250 mm (9.84 in)	400 mm (15.74 in)	400 mm (15.74 in)
B-axis track system:	+60°/-91°	+60°/-91°	+60°/-91°	+60°/-91°	+60°/-91°
Workhead rpm:	max. 1 500 min ⁻¹	max. 1 500 min ⁻¹	max. 1 500 min ⁻¹	max. 1 200 min ⁻¹	max. 1 200 min ⁻¹
Load on spindle nose:	max. 25 kg (55 lbs)	max. 25 kg (55 lbs)	max. 25 kg (55 lbs)	max. 100 kg (220 lbs)	max. 100 kg (220 lbs)
Height of centers above table:	102 mm (4.01 in)	102 mm (4.01 in)	102 mm (4.01 in)	150 mm (5.90 in)	150 mm (5.90 in)
Length of parts:	max. 150 mm (5.90 in)	max. 150 mm (5.90 in)	max. 150 mm (5.90 in)	max. 300 mm (11.81 in)	max. 300 mm (11.81 in)
Grinding length:	max. 100 mm (3.94 in)	max. 100 mm (3.94 in)	max. 100 mm (3.94 in)	max. 150 mm (5.90 in)	max. 150 mm (5.90 in)

Special grinding machines

Even in the area of special grinding machines, the Studer CT series offers innovative and economically priced solutions.



CT110

For the grinding and polishing of edges:

Glass scribe wheels
Sapphire watch glasses

Model:

Two CNC grinding units
Automatic centering unit for watch glasses
Synchronous workhead and tailstock
Loading and unloading automation

Dimensions of parts:

Scribe wheels	Ø 2.5mm (0.09 in) to Ø 6.0 mm (0.23 in)
Watch glasses	Ø 12mm (0.47 in) to 45 mm (1.77 in)
Thickness	max. 6 mm (0.23 in)



CT810

For the grinding of secondary operations on machine screw taps:

Grind the first cut
Grind cogs and the first cut
Shorten profile length and grind first cut

Model:

Outer grinding wheel Ø 220 mm (8.66 in) to 350 mm (13.77 in) x 16 / 20 mm (0.62/0.78 in)
Highly dynamic X-axis for relief grinding
CNC controlled C- and B-axis
Rotative dressing unit

Dimensions of parts:

Machine screw tap	M3 to M20
Length	50 mm (1.96 in) up to 225 mm (8.856 in)
Diameter	max. 21 mm (0.82 in)

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