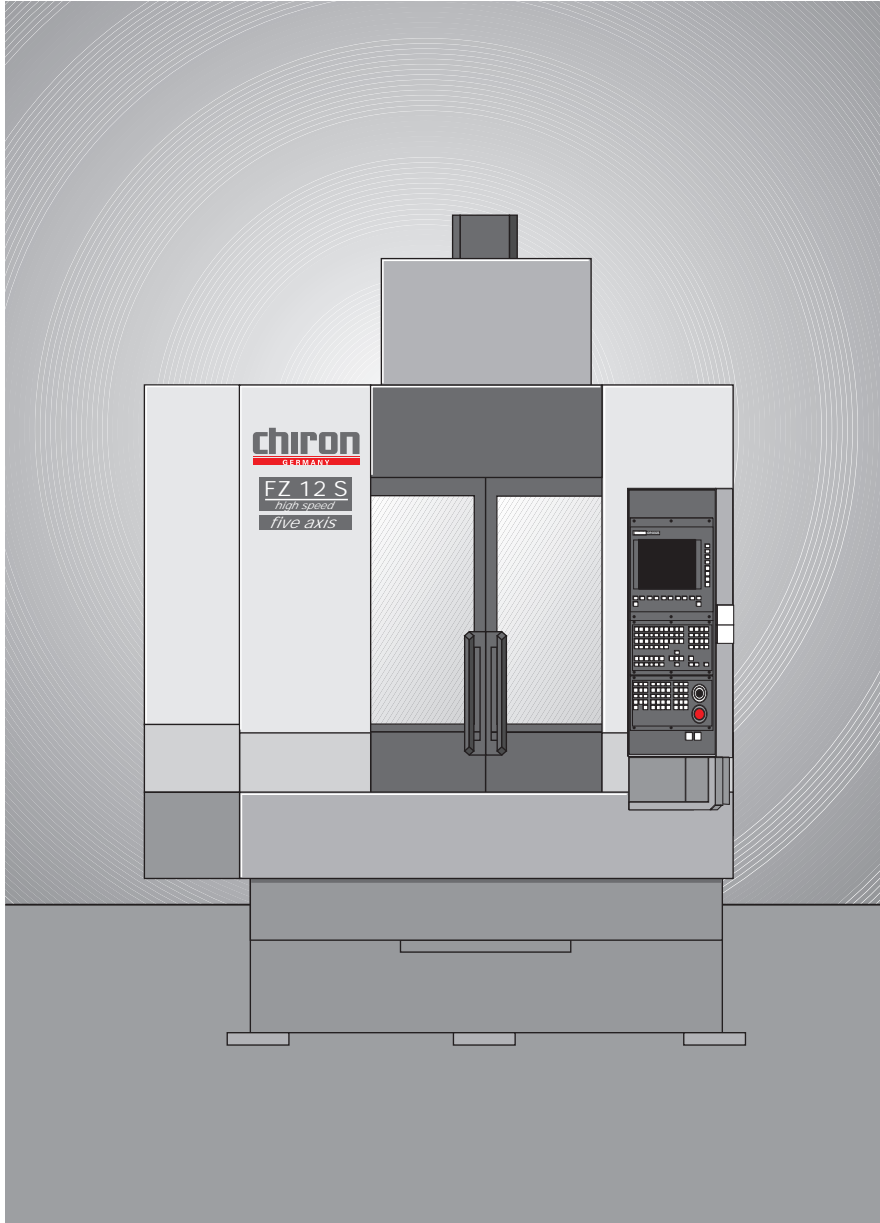


chiron

CNC Machining Centres



Datasheet

FZ 12 S

five axis

ISO 40

Tools 20

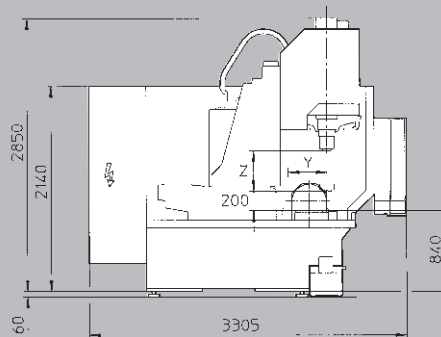
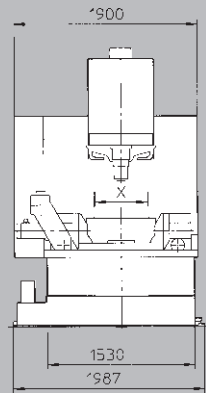
Chip-to-chip 1.9 s

Spindle speed up to 20 000 rpm

Rapid 60 m/min

**Seconds
ahead**

FZ 12 S
five axis

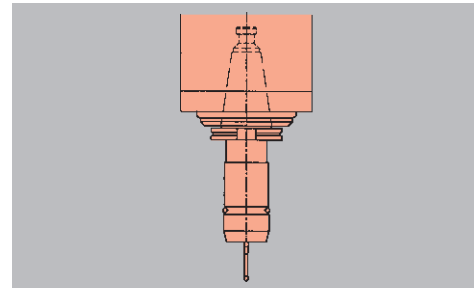


Technical data

Drilling capacity in ST 60 with carbide drill	42 mm
Tapping	M 30
Milling capacity in ST 60	300 cm ³ / min
Tool storage capacity	20
Tool taper ISO 7388	ISO 40
Max. tool diameter	65 mm
If adjacent positions unoccupied	150 mm
Max. tool weight	2.5 (5) kg
Tool change time	approx. 0.9 s
Chip-to-chip time	approx. 1.9 s
Spindle drive AC	18 kW
Speed range	20 - 12000 rpm
Max. torque	140 Nm
Spindle bearing diameter	70 mm
Tool clamping	8000 N
Throat, spindle-guideways cover	435 mm
Distance spindle nose to face plate	200 - 625 mm
Travel X-axis	550 mm
Travel Y-axis	400 mm
Thrust X- /Y-axis	5000 N
Travel Z-axis	425 mm
Thrust Z-axis	10000 N
Rapid, all axes	60 m / min
NC-tilting rotary table	+/- 100°
Face plate diameter	280 mm
Dowel and bolt hole pattern	M 16 x Ø 15 ^{H7} x 50 mm
Max. transport load	400 kg
Speed A/B axes	25/16 rpm
Coolant device, container capacity	250 l
Full enclosure	
Total connected power	approx. 27 kVA
Machine weight	approx. 4.5 t
Floor space	approx. 5.6 m ²
Air connection	6 bar
Minimal maintenance	

Options

■ Probe



■ CNC control
 with machine-shop
 orientated program-
 ming



High speed plus-Type

Speed range	20 - 20000 rpm
Max. torque	90 Nm
Spindel drive AC	14 kW
Acceleration	1.0 g

- Full enclosure with extraction
- Automatic doors
- Through the spindle coolant up to 70 bar
- Drill fracture control and tool life management
- Multi-spindle head adaptor
- Thermocontrol
- Direkt path measuring system on 4th and 5th axes
- Direct path measuring system on X-, Y- and Z-axes
- HSK-A 63
- Chip-conveyor
- Dry machining with minimal lubrication