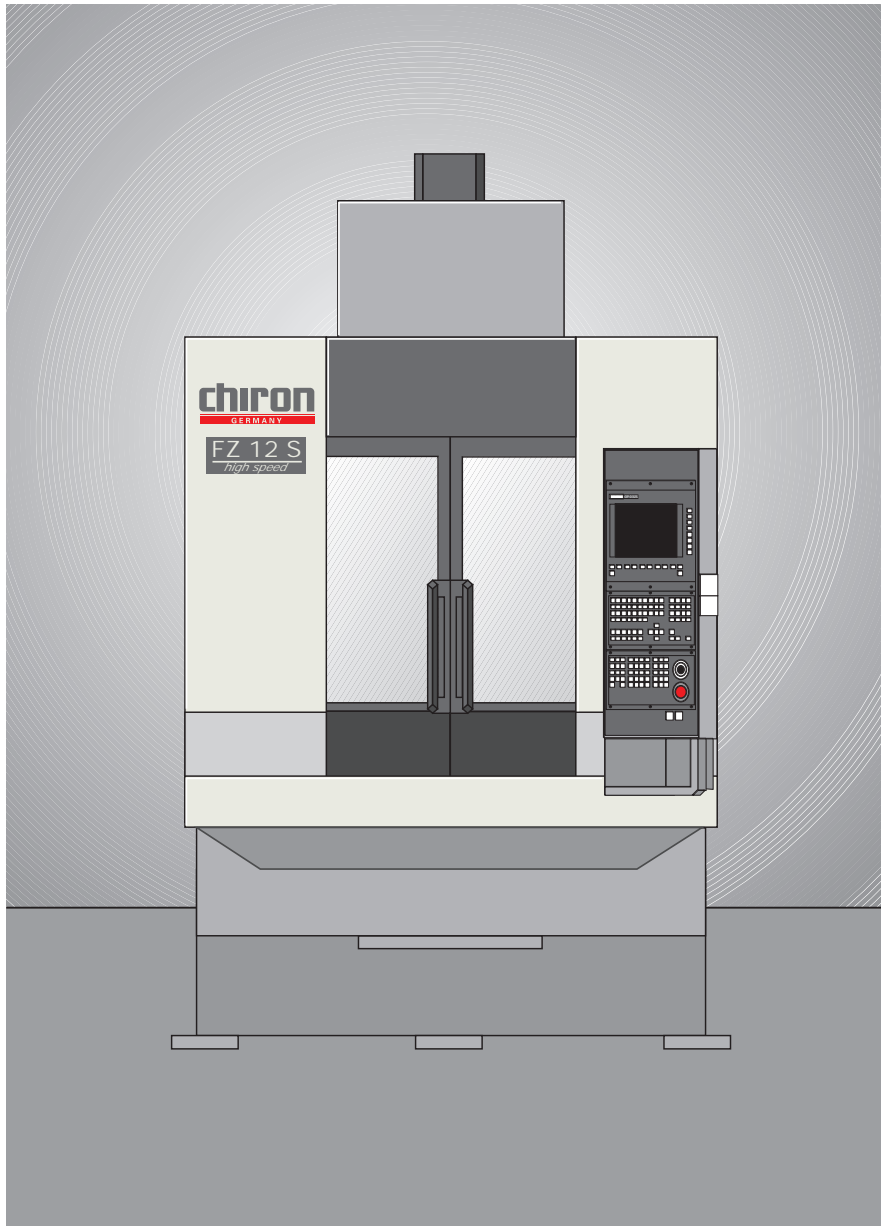


# chiron

## CNC Machining Centres



Datasheet

**FZ 12 S**

**high speed**

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ISO 40

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Tools 20

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Chip-to-chip 1.9 s

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Spindle speed up to 12 000 rpm

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Rapid 60 m/min

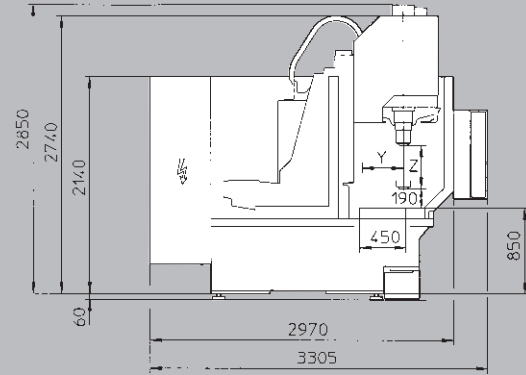
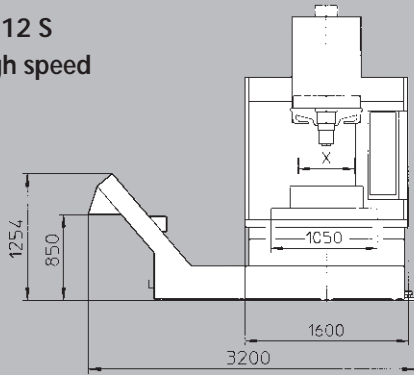
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Acceleration 0.5 g

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**Seconds  
ahead**

**FZ 12 S  
high speed**

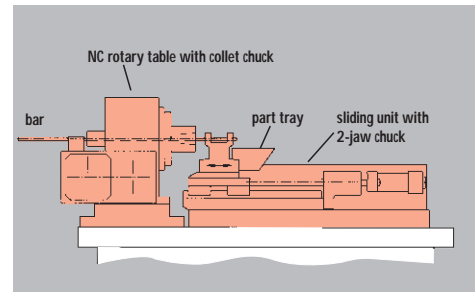


**Technical data**

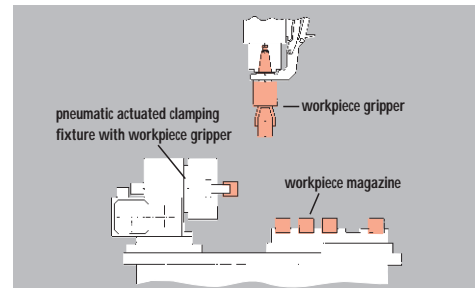
Drilling capacity in ST 60 with HM drill	42 mm
Tapping	M 30
Milling capacity in ST 60	300 cm <sup>3</sup> / min
Tool storage capacity	20
Tool taper ISO 7388	ISO 40
Max. tool diameter	65 mm
If adjacent places are free	150 mm
Max. tool weight	2.5 (5) kg
Tool change time	approx. 0.9 s
Chip-to-chip time	approx. 1.9 s
Spindle drive, AC	18 KW
Infinitely variable speed range	20 - 12 000 rpm
Max. torque	140 Nm
Diameter front sindle bearing	70 mm
Tool clamping	8 000 N
Distance spindle to column	435 mm
Distance spindle nose to table surface	190 - 615 mm
Travel X-axis	550 mm
Travel Y-axis	400 mm
Feed force X-axis, Y-axis	5 000 N
Travel Z-axis	425 mm
Feed force Z-axis	10 000 N
Rapid feed rate	60 m / min
Fixed table clamping surface	1 000 x 450 mm <sup>2</sup>
T-Slots	2 x 18 H 12
Reference slot	18 H 8
Table load	500 kgs
Chip conveyor, discharge height	850 mm
Coolant device, container capacity	500 l
Total connected power	approx. 19 kVA
Machine weight	approx. 4.5 t
Floor space	approx. 5.3 m <sup>2</sup>
Air connection	6 bar

**Available options**

■ **Automation with bar feeding**



■ **Automation with workpiece gripper for unmaned machining**



- NC rotary table
- NC rotary table with basic fixture
- Through the spindle coolant up to 70 bar
- Full enclosure
- Extraction
- Automatic doors
- Dry machining with minimal lubrication
- Thermocontrol
- Probes for workpiece and tool measurement
- Tool breakage monitoring and tool life management
- Direct path measuring system
- Chiron-laser-control
- Multi-spindle head adaptor
- Tool taper HSK-A 63
- Workpiece transport and magazine equipment