

Modules for any application | Configuration examples



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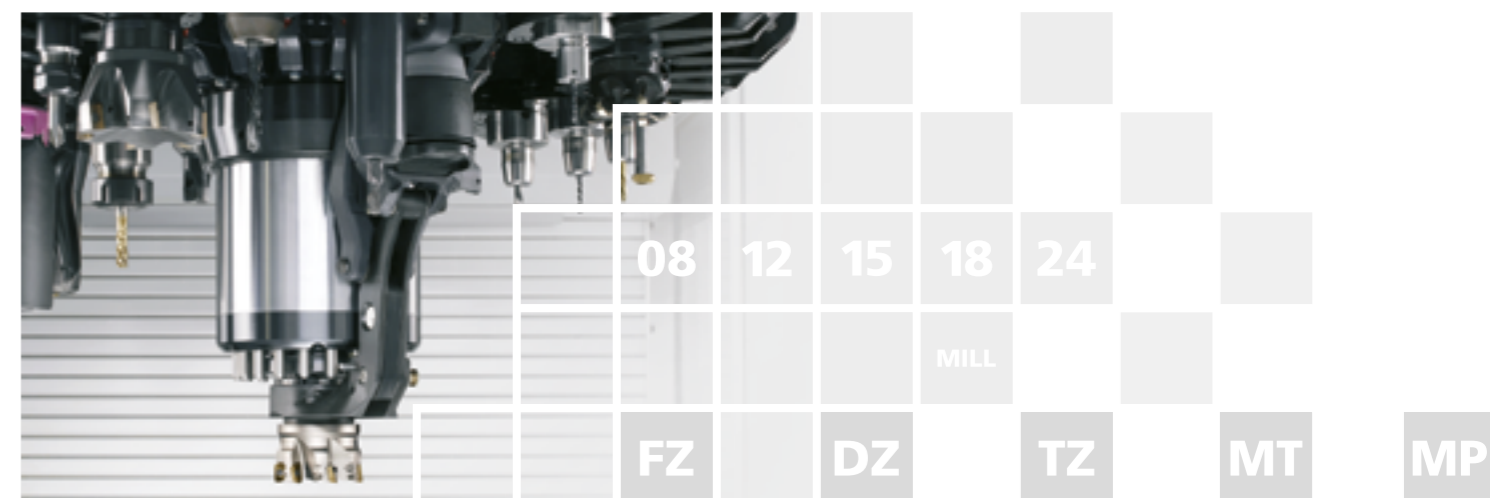
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GB 1.0 / 11.16 / BIM / TD / Printed in Germany / Subject to technical changes

Seconds ahead



CHIRON TURNKEY



From planning to serial production

- Complete process design
- Expert Engineering
- Experiences project management
- Validation of the statistical process capability
- Securing target productivity
- Production assistance during the start-up phase
- Individual automation solutions
- Complete systems e.g. with SCHERER Turning Centres
- Training in operation and programming
- CHIRON – Services available around the world

CHIRON SmartLine solutions

Advantages: preprogrammed

CHIRON **ProcessLine**
Complex machining processes virtually displayed and stored

CHIRON **DataLine**
Integrated machine and process diagnostics



■ Production, Sales & Service
■ Sales & Service
■ CHIRON Partner

CHIRON Group



CHIRON Product overview

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Product overview

CHIRON Series, Models, Options and Services

The appropriate machine for each component

CHIRON Series



08 Series

Fast, compact machining centers for high precision and diverse applications.

Travel X-Y-Z up to 450-270-360 mm
 Spindle speed up to 54,000 rpm
 Spindle power up to 14 kW
 Torque up to 23 Nm
 Chip-to-chip time approx. 1.9 s
 Number of tools max. 96
 Tool taper HSK 32 / HSK 40



12 Series

Fast, compact single, duo-spindle and multifunctional precision machining centers.

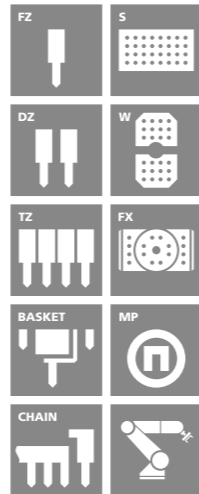
Travel X-Y-Z up to 550-400-420 mm
 Spindle speed up to 40,000 rpm
 Spindle power up to 44 kW
 Torque up to 59 Nm
 Chip-to-chip time approx. 2.2 s
 Number of tools max. 177
 Tool taper HSK 40 / HSK 50 / HSK 63



15 Series

Fast, powerful precision machining centers for profitable production with single and multi-spindle.

Travel X-Y-Z up to 730-400-425 mm
 Spindle speed up to 20,000 rpm
 Spindle power up to 58 kW
 Torque max. 180 Nm
 Chip-to-chip time approx. 1.9 s
 Number of tools max. 187
 Tool taper SK 40 / HSK 63



18 Series

Powerful, single and twin-spindle machining centers for high-speed machining and heavy cutting.

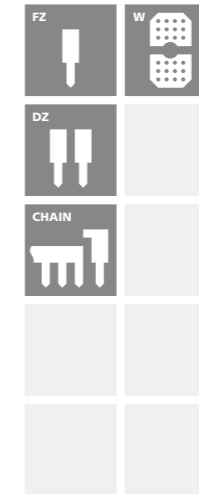
Travel X-Y-Z up to 830-550-630 mm
 Spindle speed up to 16,000 rpm
 Spindle power up to 37 kW
 Torque max. 300 Nm
 Chip-to-chip time approx. 1.9 s
 Number of tools max. 210
 Tool taper SK 40 / HSK 63



24 Series

Powerful, single and double spindle machining centers for high-performance cutting of large workpieces.

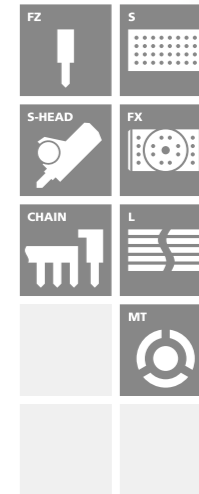
Travel X-Y-Z up to 830-630-630 mm
 Spindle speed up to 15,000 rpm
 Spindle power up to 65 kW
 Torque up to 320 Nm
 Chip-to-chip time approx. 2.7 s
 Number of tools max. 210
 Tool taper HSK 63



MILL Series

Universal precision machining centers for high-performance cutting – from small parts to large workpieces.

Travel X-Y-Z up to 6,000-915-715 mm
 Spindle speed up to 20,000 rpm
 Spindle power up to 75 kW
 Torque 280 Nm
 Chip-to-chip time approx. 2.9 s
 Number of tools max. 163
 Tool taper SK 40 / HSK 63



Models and options



Series	FZ	DZ	TZ	S-Head	Basket	CHAIN	S	W	FX	Longbed	MT	MP	Variocell	Wheel
08	•	•	-	•	-	•	•	•	•	-	•	•	UNOSYSTEM	-
12	•	•	-	•	-	•	•	•	•	-	•	-	UNOSYSTEM	-
15	•	•	•	-	•	•	•	•	•	-	-	•	UNOSYSTEM	-
18	•	•	-	-	•	•	•	•	•	-	-	-	SYSTEM	•
24	•	•	-	-	-	•	-	•	-	-	-	-	SYSTEM	-
MILL	•	-	-	•	-	•	•	-	•	•	•	-	SYSTEM	-



Integrated automation solutions Variocell UNO

Flexible and low cost solution as a compact unit made up of a machining centre, handling robot, workpiece storage, fixed table or with an optional workpiece changing device (0°/180°) for facilitating loading and unloading during machining.

Integrated 6-axis-robot with double gripper
 Workpiece-pallet storage / Stacking height up to 24 pallets
 Turnover station for workpieces
 Space requirements ≤ 1m²

baseline

the product line for entry-level CHIRON customers

- Proven top technologies
- Focussed on the essentials
- Productive and reliable
- Inexpensive
- Readily available
- CHIRON Service



FZ12 FX baseline

Fast and compact precision machining centers with 2-axis-tilt-rotary-table for multifunctional 5-axis-machining.

550-400-360 mm
 40 kW / 45 Nm / 15,000 rpm
 48
 HSK 50 or HSK 63
 Siemens 840D sl



FZ15 W baseline

Fast and powerful precision machining centers with basket tool changer and workpiece changing device for profitable 3- or 4-axis-manufacturing.

550-400-425 mm
 23.3 kW / 95 Nm / 10,500 rpm
 20
 SK 40 or HSK 63
 Siemens 840D sl



MILL FX 800 baseline

Universal precision machining centers with 2-axis-tilt rotary table for high-performance 5-axis-cutting.

800-630-550 mm
 22.5 kW / 140 Nm / 12,000 rpm
 40
 SK 40 or HSK 63
 Siemens 840D sl or Heidenhain iTNC 530

Spindles & spindle systems	Tool changer systems	Table options	Processing systems
FZ Single-spindle machining center DZ Twin-spindle machining center TZ Four-spindle machining center S-Head Swivel head	Basket tool changer Chain tool changer	S Fixed table W Workpiece changing device in 3-, 4- or 5-axis-version FX 5-axis machining (e.g. with 2 axis swivelling rotary table) L Longbed	MP 6-side machining of bar material Multi profile system Variocell UNO Integrated automation solutions Variocell SYSTEM Individual automation solutions WHEEL Flexible wheel machining system