

Modules for any application

Seconds ahead

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1 FZ = Single-spindle machining centre

2 DZ = Twin-spindle machining centre

3 TZ = Four-spindle machining centre

4 NC Swivel head

5 Basket tool changer (shown on the front page)

6 K = Chain tool changer

7 S = Fixed table

8 W = Workpiece changing device

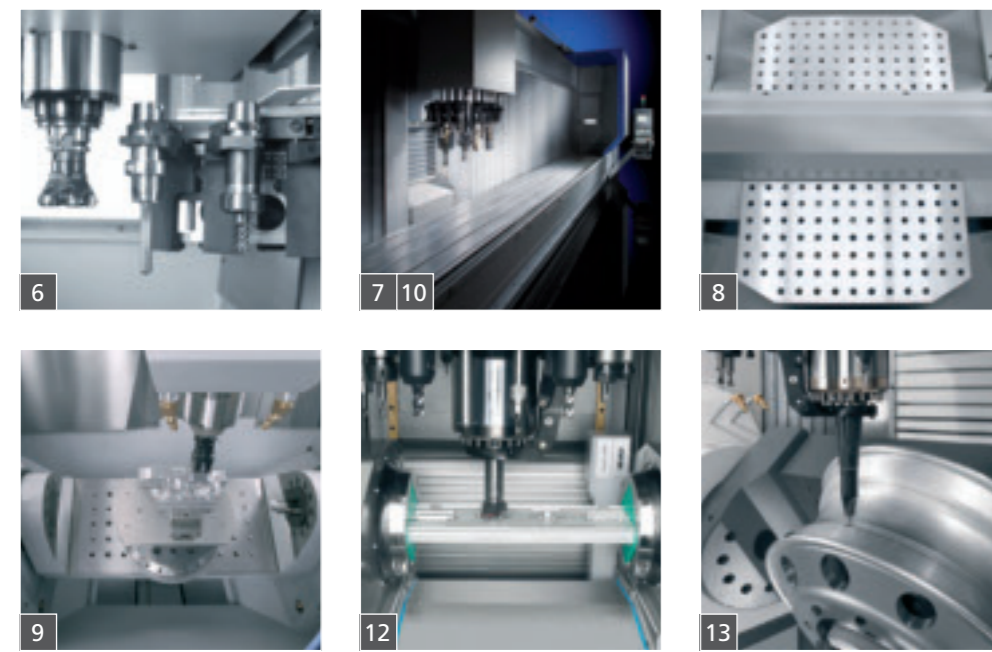
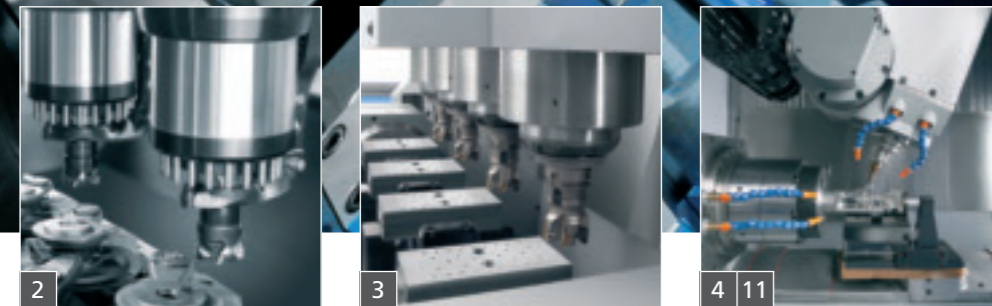
9 5A = 5-axis machining (e.g. with 2 axis swivelling rotary table)

10 L = Long bed

11 6-side machining of bar material

12 MPS = Multi profile system

13 WM = Flexible wheel machining system



With its machining centres, CHIRON has been a reliable worldwide partner for many years in the fields of:

- Aerospace
- Automotive industry and subcontractor companies
- Machine construction
- Medical industry
- Watches and jewellery industry
- Manufacturers of:
 - tools
 - fittings
 - hydraulic and pneumatic components
 - optical devices
 - electric and electronic components
 - and much more.

CHIRON worldwide

Germany

CHIRON-WERKE GmbH & Co. KG
Kreuzstraße 75
78532 Tuttlingen, Germany
Tel. +49 7461 940-0
Fax +49 7461 940-8000
info@chiron.de
www.chiron.de

CMS-GmbH
Gewerbepark „take-off“ 125
78579 Neuhausen ob Eck, Germany
Tel. +49 7461 940-3700
Fax +49 7461 940-3701
cms@chiron.de
www.pre-owned-machines.com

France

CHIRON Technologies de Production SAS
14 Chemin de la Litte
92390 Villeneuve-la-Garenne, France
Tel. +33 1 479 859 50
Fax +33 1 479 854 31
info@chiron-technologies.fr
www.chiron-technologies.fr

Italy

CHIRON Italia S.p.A.
Via Ambrosoli 4/C
20090 Rodano Millepini - MI, Italy
Tel. +39 0 2-953 211 02
Fax +39 0 2-953 286 20
info@chironitalia.it
www.chironitalia.it

Australia

CHIRON-WERKE Asia Pacific Pty. Ltd.
18 North Drive, Virginia Park
236-262 East Boundary Road
East Benteigh, Vic 3165, Australia
Tel. +61 395 750 000
Fax +61 395 637 944
info@chiron.com.au
www.chiron.com.au

United States of America

CHIRON America INC.
10950 Withers Cove Park Drive
Charlotte, NC 28278, USA
Tel. +01 704 587 95 26
Fax +01 704 587 04 85
info@chironamerica.com
www.chironamerica.com

China

CHIRON Machine Tool (Beijing) Ltd. China
Room 1202, Tower 1
China Central Plaza Office Building
No. 81, Jianguo Road, Chaoyang District,
Beijing 100025, P.R. China
Tel. +86 10 6598 9811
Fax +86 10 6598 9812
info@chiron-china.com
www.chiron-china.com

Contact data for further sales areas can be found at www.chiron.de

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Subject to technical changes

- CNC precision machines
- Technologies
- Automation
- Complete solutions
- Services

Product overview



■ CHIRON-WERKE and subsidiaries
■ CHIRON partners















CHIRON-WERKE, Tuttlingen

CHIRON-WERKE GmbH & Co. KG
Kreuzstrasse 75
78532 Tuttlingen, Germany
Tel. +49 7461 940-0
Fax +49 7461 940-8000
info@chiron.de

CHIRON Series, Models, Options and Services

The appropriate machine for each component

CHIRON Series

<p>08 MAGNUM Series</p> <p>Fast, compact milling centres for high precision and diverse applications</p>  <p>Travel X-Y-Z up to 450-270-310 mm Spindle power up to 14 kW Spindle speed up to 40,000 rpm Chip-to-chip time approx. 1.3 s Number of tools max. 226 Tool taper HSK 32 / HSK 40</p> 	<p>12 Series</p> <p>Fast, compact single and multi-spindle precision machining centres</p>  <p>Travel X-Y-Z up to 550-400-425 mm Spindle power up to 40 kW Spindle speed up to 40,000 rpm Chip-to-chip time approx. 1.9 s Number of tools max. 177 Tool taper ISO/CAT 30 / ISO/CAT 40 / HSK 40 / HSK 50 / HSK 63</p> 	<p>15 Series</p> <p>Fast, powerful, single and twin-spindle precision milling centres for profitable series production.</p>  <p>Travel X-Y-Z up to 730-400-425 mm Spindle power up to 37 kW Spindle speed up to 20,000 rpm Chip-to-chip time approx. 1.7 s Number of tools max. 187 Tool taper ISO/CAT 40 / HSK 63</p> 	<p>18 Series</p> <p>Powerful, single and twin-spindle machining centres for high-speed machining and heavy cutting</p>  <p>Travel X-Y-Z up to 6,000-570-630 mm Spindle power up to 31.5 kW Spindle speed up to 20,000 rpm Chip-to-chip time approx. 1.9 s Number of tools max. 195 Tool taper ISO/CAT 40 / HSK 63</p> 	<p>MILL Series</p> <p>Universal precision machining centres as well for combined milling and turning machining</p>  <p>Travel X-Y-Z up to 8,000-840-630 mm Spindle power up to 75 kW Spindle speed up to 20,000 rpm Chip-to-chip time approx. 2.9 s Number of tools max. 163 Tool taper ISO/CAT 40 / HSK 63</p> 	<p>BIG MILL Series</p> <p>High-precision machining centres for heavy cutting and large workpieces</p>  <p>Travel X-Y-Z up to 6,000-800-1,000 mm Spindle power up to 70 kW Spindle speed up to 12,000 rpm Chip-to-chip time approx. 4,9 s Milling capacity up to 1,500 cm³ / min in St 60 Number of tools max. 197 Tool taper ISO/CAT 50 / HSK 100</p> 
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Integrated automation solutions



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.

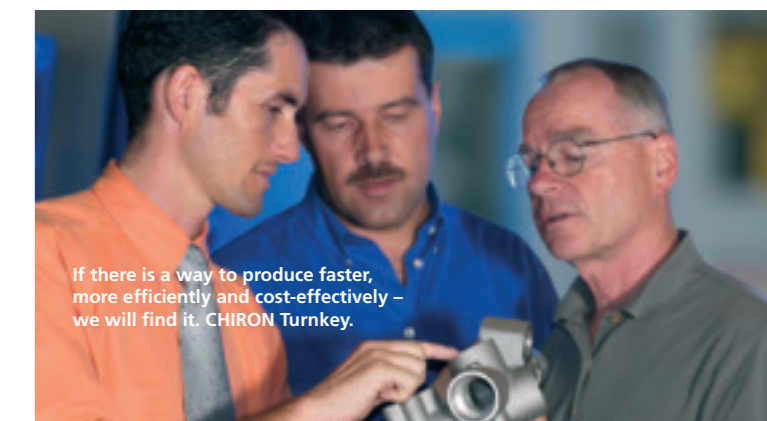


Flexible system with two independent machining centres, one central loading and unloading robot as well as magazine for rough and finished parts. The FLEXCELL DUO concept is ideally suited for the combination of single and multi-spindle machine models.



MPC-Multi Pallet Changer: Flexible manufacturing cell for complete, automated machining starting from a batch size of 1 with pallet changer / storage unit (up to 51 pallets) and up to 226 tools

Turnkey solutions



If there is a way to produce faster, more efficiently and cost-effectively – we will find it. CHIRON Turnkey.

- Extensive consulting
- Comprehensive process design
- Expert engineering
- Experienced project management
- Operation and programming training
- Production assistance during the initial phase
- Ensuring the required part quantity and quality
- Production Support
- CHIRON services available worldwide

Series	Work area X-Y-Z	FZ	DZ	TZ	Swivel head	Basket	K	S	W	5-axis	L	Bar	MPS	Wheel
08	450-270-310 mm	•	-	-	•	•	•	•	•	-	-	•	•	-
12	550-400-425 mm	•	•	•	•	•	•	•	•	-	-	•	-	-
15	730-400-425 mm	•	•	-	-	•	•	•	•	-	-	-	-	•
18	6,000-570-630 mm	•	•	-	-	•	•	•	•	•	•	-	-	•
MILL	8,000-840-630 mm	•	-	-	•	-	•	•	-	•	•	•	-	-
BIG MILL	6,000-800-1,000 mm	•	-	-	•	-	•	•	-	•	•	-	-	-