

Seconds ahead

Seconds ahead

- 1 **NC swivel head** with continuously programmable positioning in the range of $\pm 110^\circ$.
- 2 **CNC controls:** can be delivered with either Siemens or Heidenhain. The control panel can be longitudinally pushed along the X axis. Direct access is ensured at every position.



Germany

CHIRON-WERKE GmbH & Co. KG
Kreuzstraße 75
78532 Tuttlingen, Deutschland
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, Deutschland
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, Italia
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

1985 / GB1 0 / 07 09 / BIM / TDI | Printed in Germany
Subject to technical changes

CHIRON worldwide



- CHIRON-WERKE and subsidiaries
- CHIRON partners

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

High-precision machining centres
for heavy cutting and large workpieces



BIG MILL

www.chiron.de

BIG MILL – Power, Dynamic, Precision

Open new possibilities in heavy cutting and workpiece dimensions



BIG MILL's axes accelerate at 0.7 g to a maximum speed of 60 m/min.



- Super strong
- Dynamic
- High precision
- Fast
- Flexible
- Reliable

1,500 cm³/min
milling capacity
in St 60

◀ The direct spindle drive produces an impressive **50 kW** and develops a torque of **600 Nm**.

◀ Tool taper: ISO 50 / HSK-A 100



Background magazine for providing 197 tools during machining.



Arguments:

- Stable vertical moving column principle
- Robust machine bed featuring welded steel construction
- Generously sized roller guides
- Long travels for a wide variety of workpieces
- Multi-side machining with NC swivel head
- High milling and cutting performance
- Robust spindle concept
- Reliable, high precision during machining
- High rigidity and thermal stability
- Easy crane loading of large and heavy devices as well as workpieces
- Easily viewable and accessible work area
- Smooth, steep walls for an ideal flow of chips directly into the chip conveyor (central chip disposal)
- Protective covering made of stainless steel
- Fully enclosed work area
- Digital direct drives and guides outside the work area
- Up to 40 tools in the chain magazine outside the work area
- Compact machine outer dimensions
- Simple set-up, special foundation not required
- Service-friendly access to all auxiliary units
- Low-maintenance and durable
- Machine tool construction „Designed and Made in Germany“

Technology & Data:

- Milling capacity in St 60 1,500 cm³/min
- Drilling capacity in St 60 up to Ø 88 mm
- Thread cutting up to M 56
- Tool places 26 / 40 up to 197 (background magazine)
- Tool taper ISO 50 or HSK-A 100 (optional)
- Tool diameter up to Ø 230 mm
- Tool weight up to 20 kg
- Tool change time approx. 2 s
- Chip-to-chip time approx. 4.9 s
- Spindle speed 8,000 rpm up to 12,000 rpm (optional) up to 600 Nm
- Torque up to 600 Nm
- Travel X axis 1,250 / 2,000 / 3,000 / 4,500 / 6,000 mm
- Travel Y axis 800 mm / 920 mm
- Travel Z axis 800 mm / 1,000 mm
- Rapid feed rates [X–Y–Z] up to 60 m / min
- Acceleration [X–Y–Z] 0.5 – 0.5 – 0.7 g
- Rigid table length 2,250 / 3,000 / 4,000 / 5,500 / 7,000 mm
- Rigid table width 950 mm

Options:

- NC swivel head
- NC rotary table
- NC rotary table integrated in the rigid table
- Background magazine for 197 tools
- Direct path measuring system
- Spindle probe
- Stationary 3D probing system
- CHIRON laser control
- Tool measurement and management
- Drill breakage check and tool life monitoring
- Coolant through the spindle up to 70 bar
- Splash guard for pendulum machining
- Dry machining with minimal lubrication
- Suction
- Automatic doors