

SECONDS AHEAD WITH HIGH SPEED MANUFACTURING

## MPS – MULTIPLE PROFILE SYSTEM

Highly productive complete machining of profile bars



The highly satisfied users of MPS machining centres have the following advantages:

- Lot sizes with up to 800 workpieces per hour
- Five times higher production volume
- High efficiency due to improved production procedures

# High Speed production of profile bars



CHIRON MPS machining centres are ideal for cost-effective, complete machining of profiles. With these profitable systems, our customers can manufacture variants, shorten internal operating processes and reduce personnel expenses.

MPS machining systems offer the perfect combination of high productivity and low space requirement. Profile machining with these machining centres is characterized by short machining periods and a high flexibility for variant production.

The feed unit automatically supplies the raw material. The highest level of accuracy is guaranteed due to all-over machining in a single set-up. In addition, the high productivity of this process translates into lower piece costs.

Your advantages at a glance:

- Machining of profile bars
- Automatic workpiece production from small parts to „endlessly long“ parts
- Rotary axes with 67 x 67 / 80 x 80 / 120 x 120 or 150 x 150 mm profile passage
- 2 synchronously controlled NC rotary axes
- NC bar feeding
- High manufacturing quality due to machining in a single set-up
- Minimum set-up costs for variant production
- Economical clamping concept
- Low-personnel production
- Flexible application possibilities
- Milling, drilling, countersinking, reaming, tapping, sawing during the machining operation...
- Main spindle speed up to 30,000 rpm
- Axis acceleration up to 2 g
- Rapid feed rate up to 75 m/min
- Quickest possible tool change in 0.5 s





# All-over machining of profile bars with the highly productive MPS 08/MPS 08 MAGNUM machining centre

CHIRON MPS 08 and MPS 08 MAGNUM machining centres provide an innovative solution for complete machining of up to **four profile bars in a single set-up.**

Semi-finished products in the form of bars are fed to the MPS machining centre. Whether it is round bars, square bars, tubes or angle profiles – both **small parts and endlessly long parts can be manufactured in a single machining operation.** This machining centre requires a **floor space of only 2.6 m<sup>2</sup>.** **Tool change takes 0.5 s, and a chip-to-chip time of approx. 1.5 s** ensures high productivity of the manufacturing process.

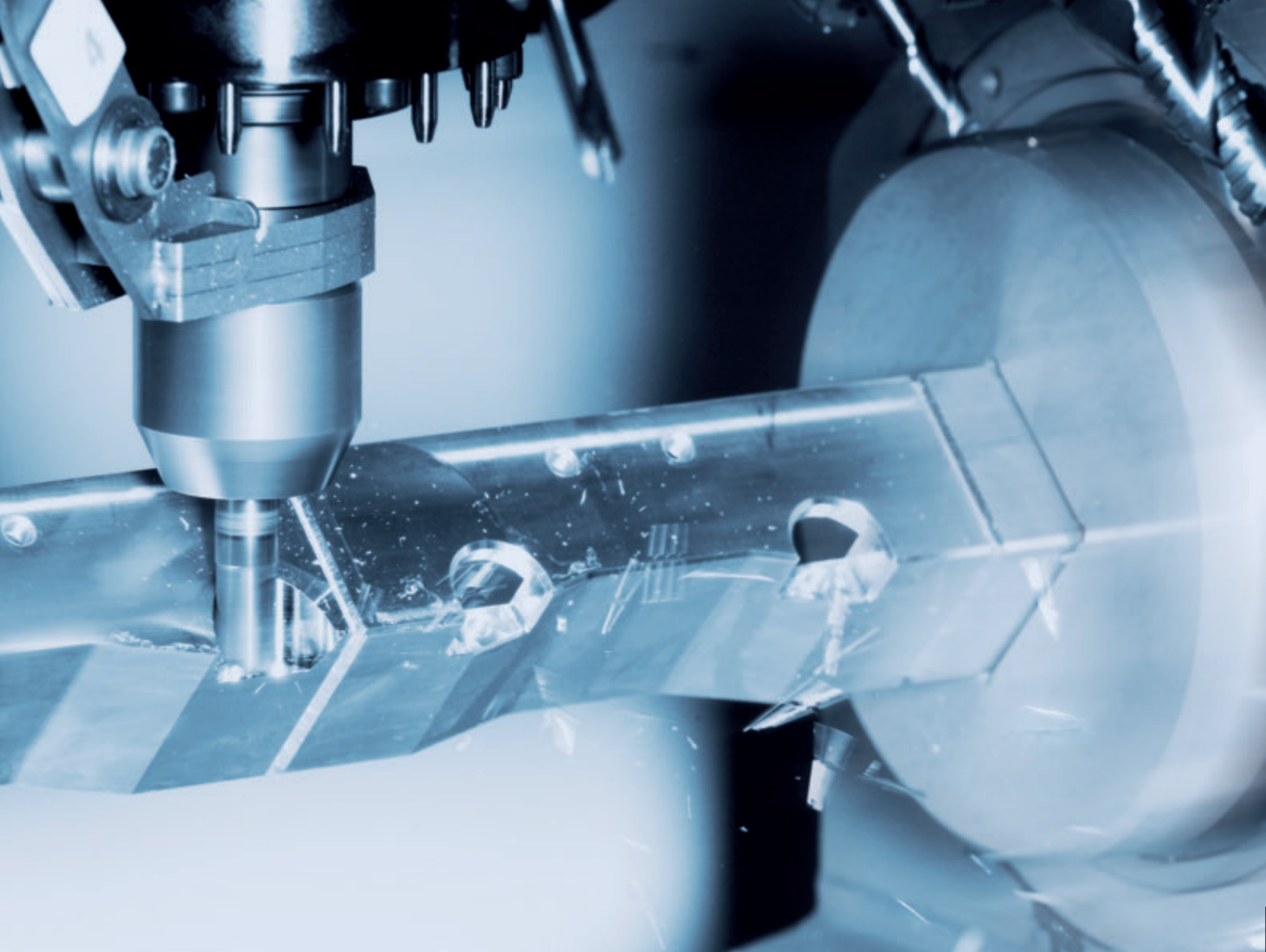
MPS machining centres are ideal for use in the aircraft and aerospace industry, automobile and components supplying industry, electrical engineering, leisure time industry, construction industry etc. Plane seat rails, ski binding plates or chassis for inline skates – there is almost no end to the application possibilities of these machining centres.

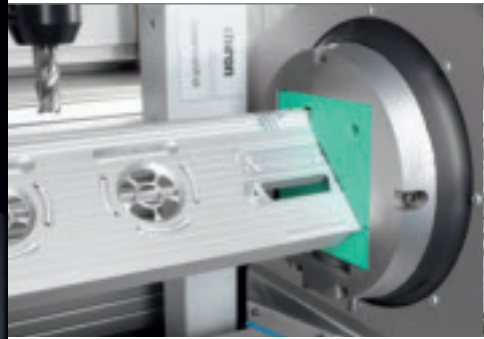


The MPS 08/MPS 08 MAGNUM machining centres can completely machine profile bars with a cross-section of up to 67 x 67 / 80 x 80 mm. After being loaded in the loading station, the profiles are automatically moved further with the NC bar feeding system. Machining takes place between the clamping elements of **two synchronously controlled NC rotary axes.** The integrated sawing unit option can be used to separate profile bars without interrupting the machining operation. A practical workpiece handling device unloads the workpieces.



FACT	MPS 08	MPS 08 MAGNUM
Travel (X-Y-Z)	300 x 250 x 250 mm	450 x 270 x 310 mm
Travel (U)	600 mm	600 mm
Rapid feed rate up to	40 / 40 / 60 m/min	75 / 75 / 75 m/min
Spindle speed up to	27,000 rpm	30,000 rpm
Max. passage	67 x 67 mm	80 x 80 mm
Number of tools max.	12	40
Tool change time approx.	0.5 s	0.8 s
Chip-to-chip time approx.	1.5 s	1.9 s





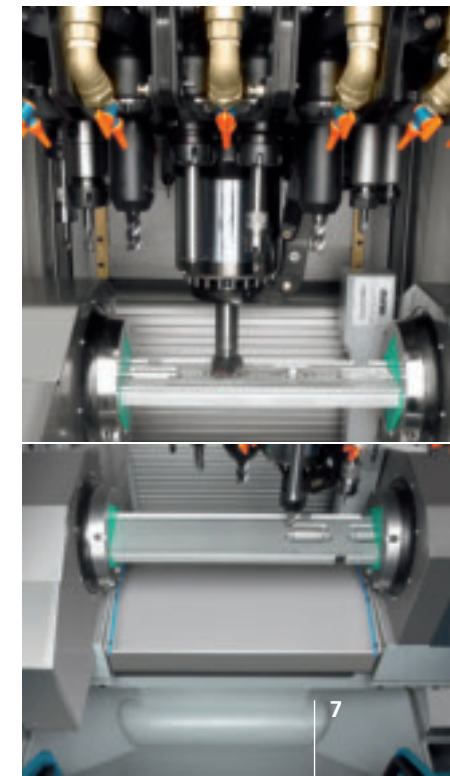
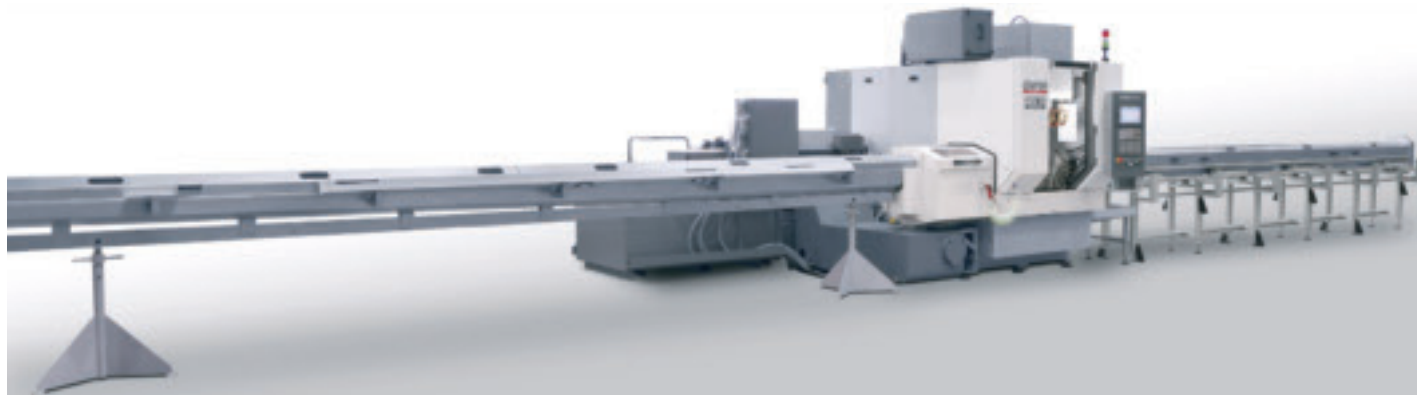


## Innovative machine technology



FACTS	MPS 15
Travel (X-Y-Z)	550-400-425 mm
Travel (U)	1,250 mm
Rapid feed rate up to	60 m/min
Spindle speed up to	20,000 rpm
Max. passage	150 x 150 mm
Number of tools	20
Tool change time approx.	0.9 s
Chip-to-chip time approx.	2.1 s

**CHIRON MPS 15** has the same features as the smaller MPS 08 model. However, **the passage of the rotary axes in CHIRON MPS 15 allows the use of bar profiles with a cross-section of max 150 x 150 mm.** This machining centre can also be used for machining profiles ranging from small parts to endlessly long parts in a single machining operation. Since the feed movement can be programmed to reduce the distance between two workpieces as much as possible, there is hardly any loss of material. **Workpieces of all lengths can be machined from bars. As different clamping jaws can be easily manufactured for different profiles, users can benefit from a cost-effective clamping concept.** No other machining centre in the world offers such a high level of flexibility. The fully enclosed coolant-proof working area with smooth, steep walls guarantees perfect chip flow. CHIRON is known worldwide for an **incredibly quick tool change in only 0.9 s** with the patented basket changer.



■ **Deutschland**

**CHIRON-WERKE GmbH & Co. KG**  
Kreuzstraße 75  
D-78532 Tuttlingen  
Tel. +49 (0) 74 61-940 0  
Fax +49 (0) 74 61-940 8000  
info@chiron.de  
www.chiron.de

**CMS-GmbH**  
Gewerbepark „take-off“  
D-78579 Neuhausen ob Eck  
Tel. +49 (0) 74 61-940 3700  
Fax +49 (0) 74 61-940 3701  
cms@chiron.de  
www.chiron-gebrauchtmaschinen.de

■ **France**

**CHIRON Technologies de  
Production SAS**  
14 Chemin de la Litte  
F-92390 Villeneuve-la-Garenne  
Tel. +33 (0) 1-479 859 50  
Fax +33 (0) 1-479 854 31  
info@chiron-technologies.fr  
www.chiron-technologies.com

■ **Italia**

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

■ **Polska**

**CHIRON Polska Sp. z o.o.**  
Ul. Pionierów 39  
PL-41-711 Ruda Śląska  
Tel. + 48 (0) 32-342-20-75  
Fax + 48 (0) 32-240-31-62  
info@chiron-poland.com  
www.chiron-poland.com

■ **Australia**

**CHIRON-WERKE  
Asia Pacific Pty. Ltd.**  
18 North Drive, Virginia Park  
236-262 East Boundary Road  
P. O. Box 275, East Bentleigh, Vic 3165  
Tel. +61 (0) 395-750 000  
Fax +61 (0) 395-637 944  
info@chiron.com.au

■ **United States of America**

**CHIRON America INC.**  
10950 Withers Cove Park Road  
Charlotte, NC 28278USA  
Tel. +01 (0) 704-587 95 26  
Fax +01 (0) 704-587 04 85  
info@chironamerica.com  
www.chironamerica.com

■ **China**

**CHIRON China Ltd.**  
Rm. 3612 Lippo Plaza  
222 Huai Hai Zhong Rd.  
Shanghai 200021  
Tel. +86 (0) 21-5 396 5553/6/9  
Fax +86 (0) 21-5 396 5557  
info@chiron-china.com

**CHIRON China Ltd.**  
Rm. 2928, China World Tower 1  
China World Trade Center  
No. 1 Jianguomenwai Street  
Beijing 100004  
Tel. +86 (0) 10-6505 4388  
Fax +86 (0) 10-6505 3802  
www.chiron-china.com

# CHIRON worldwide



- CHIRON-WERKE and subsidiaries
- CHIRON partners (for contact data visit [www.chiron.de](http://www.chiron.de))

**CHIRON-WERKE GmbH & Co. KG**

Kreuzstraße 75  
D-78532 Tuttlingen  
Tel. +49 (0) 74 61-940 0  
Fax +49 (0) 74 61-940 8000  
info@chiron.de