



25 Series

Highly productive machining of large workpieces
on a small footprint

chiron

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The 25 Series – the new standard for large components

Productive manufacturing with highest precision

The new CHIRON 25 Series is designed for machining complex, large-volume components – with a combination of productivity, accuracy and flexibility unrivalled in this class. The spindle distance of 800 mm predestines the DZ 25 for the double-spindle production of aluminium components for the automotive and aerospace industries.

Operation and loading take place on separate sides. This allows optimum access to the working area and good insight into the process – even if the machining center is supplemented by a pallet changer for workpiece changes during machining.

Further advantages are a flexible machine layout with a small footprint, independently moveable spindles in X- and Z-axes and flexible automation with robot or gantry. The machining centers are operated via the TouchLine system and the large panel on which the machine status can be monitored at any time.

The 25 Series is prepared for the SmartLine modules RemoteLine, DataLine and ProcessLine – ensuring an additional productivity boost.



Loading and unloading side of the DZ 25 P five axis with pallet changer



Operating side of DZ 25 S five axis and DZ 25 P five axis

Characteristics

- Double-spindle, highly productive machining of large components
- High precision due to rigid machine bed in gantry design
- High dynamics due to high axis acceleration and fast rapid feeds
- Separate operating and loading / unloading sides
- Ideal visibility through large door openings
- Independently movable spindles
- Many tools for extensive machining operations
- Tool exchange during machining for maximum output
- Independent tool change per spindle for short chip-to-chip times
- Loading and unloading with pallet changer (DZ 25 P)
- Intuitive operation via TouchLine
- Simple automation by robot or gantry

Process advantages

- | | |
|--------------------------------|-------------------------------|
| - Travel X–Y–Z max. | 800 – 1,100 – 800 mm |
| - Power max. | 61 kW |
| - Spindle distance DZ | 800 mm |
| - Spindle speed max. | 20,000 rpm |
| - Torque max. | 200 Nm |
| - Chip-to-chip time from | 3.5 s |
| - Axis acceleration X–Y–Z max. | 10 – 10 – 15 m/s ² |
| - Rapid feed X–Y–Z max. | 120 – 75 – 75 m/min |
| - Number of tools max. | 2 x 60 |
| - Tool taper | HSK-A63 / HSK-T63 |
| - Workpiece weight max. | 500 kg |
| - Workpiece diameter max. | 799 mm |
| - Workpiece height max. | 612 mm |
| - Pallet size | 630 x 630 mm |
| - Pallet change time | 12 s |



Intuitive operation with TouchLine



Working area of the DZ 25 P five axis



Members of the CHIRON Group



CHIRON Werke GmbH & Co. KG
Kreuzstraße 75
78532 Tuttlingen, Germany
www.chiron.de



STAMA Maschinenfabrik GmbH
Siemensstraße 23
73278 Schlierbach, Germany
www.stama.de



SCHERER Feinbau GmbH
Marie-Curie-Straße 25
63755 Alzenau, Germany
www.scherer-feinbau.de



CMS-GmbH
Gewerbepark »take off« 125
78579 Neuhausen o. E., Germany
www.cms-retrofit.de

■ CHIRON Group R&D, Production, Sales & Service

GERMANY	Tuttlingen, Neuhausen Schlierbach Alzenau	USA	Charlotte, NC
		CHINA	Taicang

■ CHIRON Group Sales & Service International

FRANCE	Villeneuve-la-Garenne	USA	Plymouth
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