

## Our expertise. Your added value.

Products, solutions and services. For sustainably productive processes.

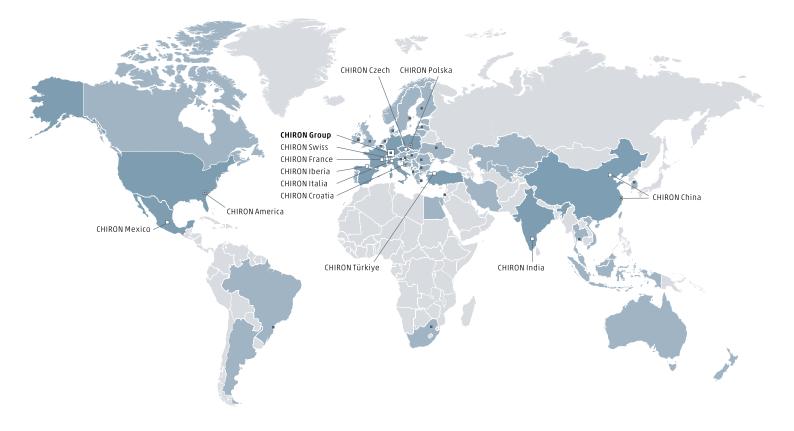


www.chiron-group.com

2	OUR EXPERTISE	— CHIRON GROUP				
		CH	HRON	Gгои	5	
	Micro-precision machining	Single spindle vertical milling Multi spindle vertical milling Mill-turn	Spindles	Fixtures	Automation Specialized machining	Refurbishment
		Digi	tal Solutions Tu	ırnkey Services		
	Aerospace	Automotive Mechanical Engin	eering Medica	l Technology P	recision Technology Tool I	Manufacturing
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# Strong group.

To be a long-term strong and reliable partner: This goal characterizes our acting, is the guiding principle for the CHIRON Group. With innovative products and services, we facilitate precise, productive and flexible machining in many different industries, all over the world. We continuously strengthen our leading position in the market, acquire new fields of expertise and thus secure you the decisive competitive edge beyond today. 3





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* * * * * * * * * * * * * * * * * * * *		
	MILLING/MILL-TURN Top technologies for CNC-controlled vertical	6
	and horizontal milling and turning. For productive and flexible	
	machining over the entire machine lifecycle. With the unique	
	combination of highest dynamics and precision.	
	<b>AUTOMATION</b> Consistently high production quality, low unit costs,	24
	short lead times and flexibility for different tasks, Combined in one	24
	optimal process in a high-performance, fully automated complete	
	solution.	
	DIGITAL SOLUTIONS Digital systems and services for real added	30
	value to the machining centers, in production and in the company:	
	the modular SmartLine software portfolio and SmartServices for	
	every stage of the machine's lifecycle.	
	TURNKEY Cost- and efficiency-optimized machining processes,	31
	developed along specific requirements. As a complete turnkey	
	solution consisting of CNC machining center, tools, clamping	
	devices and modules for automation.	
	CEDUICES More time for marking a law of the sector with	
	<b>SERVICES</b> More time for machining, lower operating costs. With	32
	LifetimeSolutions, precisely tailored services for every phase of the machine lifecycle. With SmartServices, digital services for	
	increased profitability.	
	ווונוכספט פוטוונטווונץ.	

**REFURBISHMENT** Customized refurbishing and modernizing of CHIRON Group machining centers using manufacturer knowledge: sustains productivity, giving machines a second life, while using fewer resources.

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## Microprocessing. The smart way.





Pallets
A 6 pallets

Tool tower B 60 tools



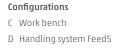


#### Місго5

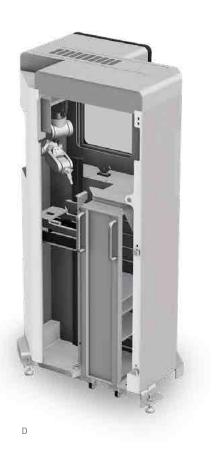
Where small parts require dynamic and high-precision machining, the Micro5 has caused a mini revolution. The machining center with four or five axes is extremely compact and can be set up very quickly almost anywhere – in the production area or directly right at the work station. The 5 in the name stands for the ideal 5:1 ratio of machine size to workpiece and for maximum efficiency: Energy consumption is 50 times lower in comparison to conventional systems. For increased autonomy, the Micro5 can be easily automated with the Feed5 handling system. 7

#### Process advantages

<sup>–</sup> Travel X – Y – Z max.	78 - 56 - 50 mm
<sup>–</sup> Spindle speed	60,000 rpm
<sup>—</sup> Torque max.	10 Ncm
<sup>—</sup> Chip-to-chip time	3.5 s
<sup>–</sup> Tool options	60
<sup>–</sup> Tool taper	HSK-EZ 15
<sup>–</sup> Position accuracy	< 2 µm
<sup>–</sup> More information	









J 5-axis, two face plates

## Process stability and versatility. Within the smallest space.

#### **08** Series

Minimum tolerances of a few µm and top surface quality: You can meet these requirements with the versatile machining centers of the 08 Series. All models represent high performance in a compact design. They can be set up quickly, are easy to operate, very stable, highly dynamic and low-maintenance. Thanks to the modular structure, there are numerous configuration possibilities. Any 08 Series basic machine can be assembled into an individual solution that fits perfectly to your production tasks.

#### Process advantages

<sup>–</sup> Travel X – Y– Z max.	450 - 270 - 360 mm
<sup>—</sup> Spindle speed min. – max.	15,000 rpm – 54,000 rpm
<sup>—</sup> Torque max.	2 – 23 Nm
<sup>–</sup> Spindle distance DZ	200 mm
<sup>–</sup> Tool options	24 - 96   2 x 12 - 2 x 48
<sup>–</sup> Tool taper	HSK-A32   HSK-A40   HSK-E32
<sup>–</sup> Tool length max.	200 mm
<sup>–</sup> Interference circle Ø 1 face plate	Ø 500 mm
<sup>–</sup> Interference circle Ø 2 face plates	Ø 199 mm
More information	

Harrow Barrow B







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## Highly efficient and multifunctional. For the lowest cost per piece.

#### **12** Series

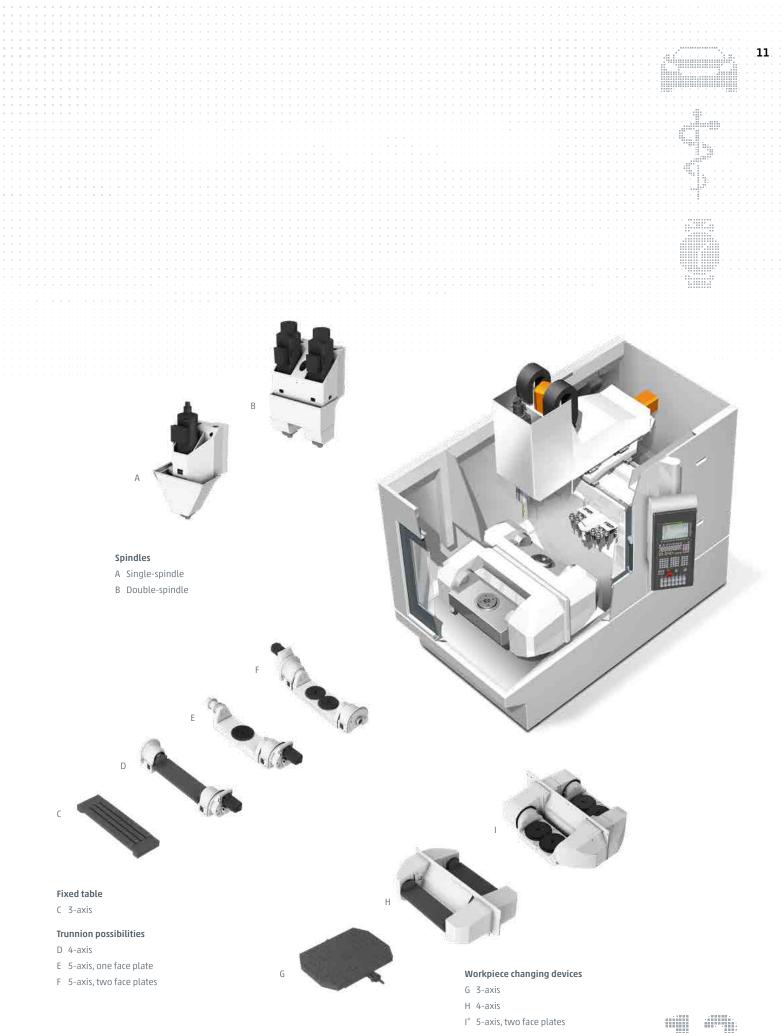
So you want synchronized production quality at low cost per unit? The machining centers of the 12 Series combine these stipulations and are ranked the best in their class in terms of speed, compact design and versatility. On the FZ 12 S five axis in proven travel column design, workpieces with high surface quality can be manufactured in one clamping arrangement. The doublespindle DZ 12 S five axis performs five axis simultaneous operations using high-performance control options.

#### Process advantages

- Travel X Y– Z max.
- <sup>–</sup> Spindle speed min. max.
- Torque max.
- <sup>–</sup> Spindle distance DZ
- Tool options
- Tool taper
- Tool length max.
- <sup>–</sup> Interference circle Ø 1 face plate
- <sup>–</sup> Interference circle Ø 2 face plates
- More information

550 - 400 - 400 mm 12,000 rpm - 30,000 rpm 11 - 110 Nm 250 mm 24 - 177 | 2 x 12 - 2 x 104 HSK-A50 | HSK-A63 250 mm Ø 650 mm Ø 249 mm





\* optional hybrid solution table side one 4-axis, table side two 5-axis



## Precise and powerful machining. With compact, cutting edge technology.



#### Spindles

- A Single-spindle
- B Double-spindle

L

#### Fixed table

C 3-axis

#### Trunnion possibilities

- D 4-axis
- E 5-axis, one face plate
- F 5-axis, one face plate

Н

G 5-axis, two face plates

#### Workpiece changing devices

- H 3-axis
- I 4-axis
- $J^{\ast}\,$  5-axis, one face plate
- $K^{\ast}$  5-axis, two face plates
- L 5-axis, wheel
- \* Face plates optional one-sided





#### 15 and 18 Series

The machining centers of the 15 and 18 Series are one of the best machine tools of its class in terms of speed, compact design, stability and reliability. They feature enormous performance reserves for powerful CNC milling and, thanks to their modular design, can be assembled to your perfect individual solution. With, for example, the appropriate spindle and table variant, with fast basket tool changer or pick-up tool magazine, with integrated workpiece changing device 0° / 180° for loading and unloading during machining. Providing always powerful cutting, precision and high availability at low unit costs.

Tool changing systems

0 Chain magazine

M Basket tool changer single-spindleN Basket tool changer double-spindle

#### Process advantages

15/18 Series

<sup>–</sup> Travel X – Y– Z max.	730 – 400 – 425 n 800 – 565 – 630 n	
<sup>–</sup> Spindle speed min. – max.	10,500 rpm – 20,0	)00 rpm
<sup>—</sup> Torque max.	70 - 290 Nm	
<sup>–</sup> Spindle distance DZ	320   400 mm	
<sup>–</sup> Tool options	12 - 284   2 x 35	
<sup>—</sup> Tool taper	HSK-A63   SK-40	
<sup>–</sup> Tool length max.	300   380 mm	
$^-$ Interference circle Ø 1 face plate	Ø 800 mm	
<sup>–</sup> Interference circle Ø 2 face plates	Ø 570 mm	
<sup>–</sup> More information		







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## Strong performance, high dynamics. For complex work pieces.



- A Single-spindle
- B Single-spindle HSK-A100
- C Double-spindle



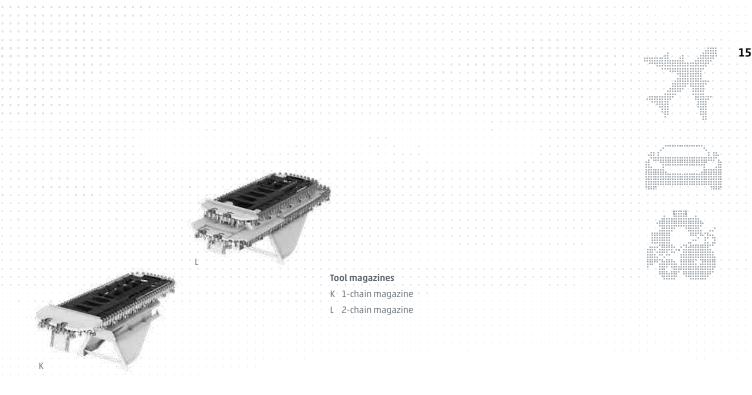
#### Trunnion possibilities

D° 4-axis E° 5-axis, one face plate F 5-axis, two face plates

G

- Workpiece changing devices G 3-axis
- H 4-axis
- I\*\*\* 5-axis, one face plate
- J\*\*\* 5-axis, two face plates
- K Mill turn trunnion

\*\* Face plates optional one-sided



#### 16 and 22 Series

Whether FZ / DZ 16 or FZ / DZ 22 – both series convincingly answer your requirements regarding high precision, dynamics and best surface quality for larger, increasingly complex workpieces. Basis for this is a fundamentally new machining platform with mobile gantry design. Thus, the rigidity is significantly increased, resulting in even more precise machining. The single-spindle FZ 16 S five axis is designed for special precision requirements in 5-axis machining, the double spindle DZ 16 W is the specialist for larger quantities. With its 600 mm spindle distance, the DZ 22 is the ideal solution for complete machining of large-volume components in the automotive industry.

Process advantages	16/22 Series
<sup>—</sup> Travel X – Y– Z max.	660 - 660 - 500 mm (FZ 16 S) 1,220 - 960 - 600 mm (FZ 22 S)
<sup>—</sup> Spindle speed min. – max.	10,000 rpm – 20,000 rpm
<sup>—</sup> Torque max.	86 - 408 Nm
<sup>–</sup> Spindle distance DZ	320   600 mm
<sup>–</sup> Tool options	162 (+240 in the additional magazine)
<sup>–</sup> Tool taper	HSK-A63   HSK-A100
<sup>–</sup> Tool length max.	450   500 mm
$^-$ Interference circle Ø 1 face plate	Ø 660 mm
<sup>–</sup> Interference circle Ø 2 face plates	Ø 319 mm
<sup>—</sup> More information	

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## The perfect combination. Of dynamics, precision, productivity.

**Spindles** A Single-spindle

B Double-spindle





Trunnion possibilities

C 5-axis, one pallet

D 5-axis, two pallets

Workpiece changing device E Pallet changer

#### 25 and 28 Series

The 25 and 28 Series are designed for machining complex, largevolume components. With large spindle distances of 800 or 1,200 mm, DZ 25 and DZ 28 enable the double-spindle production of aluminum components for the automotive and aerospace industries – in a perfect combination of productivity, precision and dynamics. Further advantages for your manufacturing practice: a compact, flexible machine layout, spindles that can traverse independently in X and Z directions and simple automation with robot or gantry. Operating and loading take place on separate sides, for best access to the work area and good visibility into the process.

#### Process advantages

#### 25/28 Series

<sup>–</sup> Travel X – Y– Z max.	1,600 - 1,100 - 800 mm (25) 1,200 - 1,100 - 800 mm (28)
<sup>—</sup> Spindle speed min. – max.	12,500 rpm – 20,000 rpm
<sup>–</sup> Torque max.	208 Nm
<sup>–</sup> Spindle distance DZ	800   1,200 mm
<sup>–</sup> Tool options	36/60 2x36/60
<sup>–</sup> Tool taper	HSK-A63
<sup>–</sup> Tool length max.	450 mm
$^-$ Interference circle Ø 1 face plate	Ø 1,199 mm
<sup>–</sup> Interference circle Ø 2 face plates	Ø 1,199 mm
<sup>–</sup> More information	







## Highly productive cutting. Generous traverse paths in all axes.



R

#### Spindles

- A Fixed spindle
- B Swivel head



#### Fixed table

- C 3-axis
- D 3-axis with rotary table
- E 3-axis with central splash guard





#### **MILL Series**

From small parts to large workpieces: The machining centers of the MILL Series offer you optimal preconditions for highly productive cutting and precise machining results with the lowest costs per piece. All models of this series are distinguished by their high performance in CNC Milling and by traverse paths in X up to 6,000 mm. Large and flexible work areas, high dynamics and powerful drives, fast set-up and simple operation are further benefits, whether in flexible single-unit production or in manufacturing small and medium quantities.

#### **Process advantages**

<sup>–</sup> Travel X – Y– Z max.	12,000 - 895 - 715 mm
<sup>—</sup> Spindle speed min. – max.	12,000 rpm – 20,000 rpm
<sup>—</sup> Torque max.	280 Nm
<sup>–</sup> Tool options	24 - 170
<sup>–</sup> Tool taper	HSK-A63   SK-40
<sup>–</sup> Tool length max.	370 mm
$^-$ Interference circle Ø 1 face plate	Ø 1,010 mm
<sup>–</sup> More information	回航法国







#### Table options

- F Swivel plate
- G Clamping cube

#### Swivel rotary table

H 5-axis ,one face plate(double face plates optional possible)

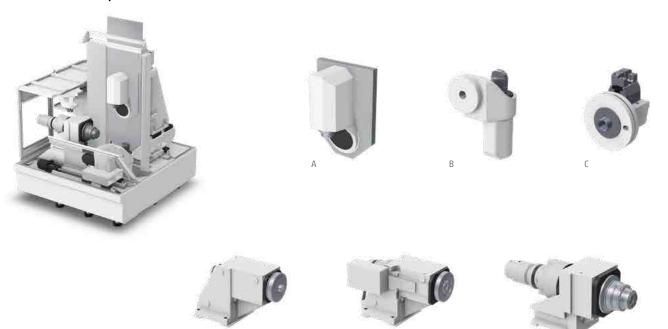


### Complete six-side machining. Efficient, from the bar.

#### Machining centers mill turn

Milling off the bar: The CHIRON Group covers the complete manufacturing spectrum and offers the appropriate machine solution for every workpiece dimension, every batch size and every specific requirement. For example, the compact FZ 08 S mill turn precision<sup>+</sup> for multifunctional machining of small and medium bars.

FZ 08 S mill turn precision\*



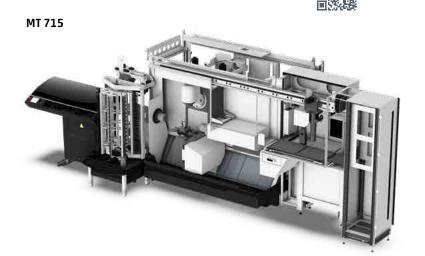
#### FZ 08 S mill turn precision\*

- A Swivel head
- B Counter spindle
- C Counter chip block
- D Turning Spindle 32
- E Turning spindle 42
- F Turning spindle 65
- G Barloadershort



D

Process advantages <sup>–</sup> Travel X – Y – Z max. <sup>–</sup> Spindle speed milling spindle max. <sup>–</sup> Torque milling spindle max. - Tool options <sup>–</sup> Tool taper Tool length max. <sup>–</sup> Main turning spindle speed max. <sup>–</sup> Main turning spindle torque max. <sup>–</sup> Counter turning spindle speed max. <sup>–</sup> Counter turning spindle torque max. <sup>–</sup> Main/counter spindle outlet max. More information











#### MT 715

- H Main and counter spindle mill turn
- I Machining unit tool revolver
- J Barloader
- K Palletstorage





210 - 200 - 360 mm 54,000 rpm 19.5 Nm 40 - 96 HSK-A40 | HSK-E32 200 mm 8,000 rpm 90 Nm 8,000 rpm 6 Nm 65 mm

MT 715

1,550 - 210 - 480 mm 20,000 rpm 100 Nm 64 - 176 450 mm 4,800 rpm 495 Nm 4,800 rpm 495 Nm

102 mm



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## Multi-functional machining. In one end-to-end process.

#### Process advantages

<sup>–</sup> Travel X – Y – 7 max.

- <sup>–</sup> Spindle speed milling spindle max.
- <sup>–</sup> Torque milling spindle max.
- Tool options
- Tooltaper
- <sup>–</sup> Tool length max.
- <sup>–</sup> Spindle distance milling spindle
- <sup>–</sup> Spindle speed turning spindle max.
- Torque turning spindle max.
- <sup>–</sup> More information

#### MT 831/MT 831 TWIN

780 - 400 - 400 mm 700 - 400 - 400 mm (TWIN) 10,000 - 15,000 rpm 140 48 - 60 | 2 x 35 (TWIN) HSK-A63 300 mm 400 mm (TWIN) 4,200 rpm 180 Nm



1,220 - 960 - 600 mm (FZ) 620 - 960 - 600 mm (DZ) 10,000 - 20,000 rpm 86 - 408 Nm 154 | 2 x 77 HSK-A63 | HSK-A100 500 mm 600 mm 1,800 - 4,200 rpm 389 - 610 Nm



22 MT

#### **Configuration concepts**



#### Variant 1

Work space fitted with

- <sup>–</sup> One milling spindle
- Two turning spindles

Concept

Prototypes and low volume

- Two clamping positions
- <sup>–</sup> OP10 sides 1 to 5 milling and turning
- <sup>–</sup> OP20 sides 2 to 6 milling and turning



#### Variant 2

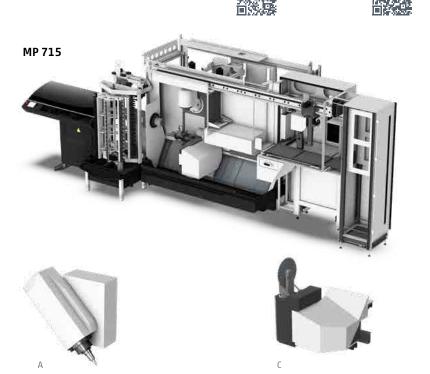
Work space fitted with Two milling spindles

- Two turning spindles
- Concept
- High-volume production
- Two clamping positions
- OP10 sides 1 to 5 milling and turning
- <sup>–</sup> 2 x OP10 sides 1 to 5 on twin machine

#### **MP multi profile Series**

Milling from profile: With the multi profile machining centers, the CHIRON Group offers three solutions for profile machining. The advantage here: The clamping elements can be exchanged in a very short time, which makes changeovers much easier. In addition, the numerous options allow individual configuration, and customized automation ensures a high degree of autonomy.

Process advantages	MP 08	MP 15	MP 715
<sup>–</sup> Travel X – Y – Z max.	450 - 270 - 310 mm	730 - 400 - 425 mm	1,550 - 210 - 480 mm
<sup>–</sup> Spindle speed milling spindle max.	40,000 rpm	20,000 rpm	20,000 rpm
<sup>–</sup> Torque milling spindle max.	23 Nm	180 Nm	100 Nm
<sup>–</sup> Tool options	24 - 40	20	64 - 176
<sup>—</sup> Tool taper	HSK-A40   HSK-E40	HSK-A63   SK-40	-
<sup>–</sup> Tool length max.	200 mm	220 mm	450 mm
<sup>–</sup> Opening max.	95 x 95 mm	150 x 150 mm	150 x 150 mm
<sup>–</sup> More information			







#### MP 715\*

- A Swivelhead
- B Synchronized rotary axes multi profile
- C Automatic saw
- D Profile loader
- \* Illustration only MP 715

#### OUR EXPERTISE - AUTOMATION

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## Intelligent high volume production. In an optimized process.

#### Feed5

Feed5 is a 6-axis handling robot for loading and unloading the Micro5 and enables increased productivity and autonomy, especially for large series. The system feeds workpieces and tools automatically and can be combined with one or two Micro5 to form an efficient and very compact production platform.



#### Advantages with Feed5

- Handling system for up to two Micro5
- Workpiece and palett changer
- Increased autonomy, thanks to storage for up to 10 paletts
- Blow off of equipment and workpiece



#### Automation solutions

- A Micro5 with handling system Feed5
- B AGV option
- C VariocellMove



## Machining workpieces with high autonomy. Flexible in every way.

#### VariocellMove

Higher machine uptime, increased efficiency, reduced unit costs, less strain on operators: With the VariocellMove, you can achieve these benefits wherever they are currently needed. The compact robotic cell with inclined pallet system for intelligent workpiece handling can be flexibly combined with changing milling and mill-turning centers from the CHIRON Group into a highly productive unit. Depending on the application, additional stations can be integrated, e.g. for turning the workpieces. Laser scanners create graded protective areas around the VariocellMove. When operators approach, the speed is reduced (level 1) or the system is shut down (level 2).



#### Advantages with VariocellMove

- Handling system for the 12, 15, 16, 18, MILL and baseline Series
- <sup>–</sup> Compact unit with a small footprint
- Intuitive operating and programming
- High operating safety thanks to laser-scanned protective zones
- Smart workpiece handling and fast pallet exchange
- Robot reach up to 2,000 mm
- <sup>–</sup> Handling capacity up to 15 kg
- <sup>–</sup> Loading capacity per drawer max. 300 kg
- <sup>–</sup> Drawer size 1,100 x 570 mm
- <sup>–</sup> Workpieces up to 250 mm height/diameter
- <sup>–</sup> Optional gripper unit for prismatic workpieces



#### VariocellUno / VariocellPallet

Every CHIRON Group automation solution merges consistently high manufacturing quality, low unit costs, short run-up times and flexibility for a wide range of tasks in an optimum process.

Integrated and cost-effective: The **VariocellUno** transforms your machining center into a highly-productive, autonomous manufacturing unit. Handling robots, workpiece stores and exchange equipment for loading and unloading during machine operation are incorporated into the machine.

Greater flexibility and dynamism: The **VariocellPallet** gives the five-axis machining centers of the 12, 15, 16, 18 and MILL Series greater dynamism and flexibility in machining small batches and complex workpieces, as well as when manufacturing single parts with long machining times.





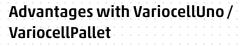








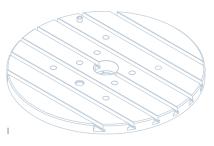
## More of everything: Production time, performance, flexibility.

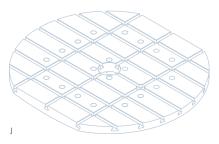


- High degree of utilization
- High storage capacity
- Replacement of blanks and finished-part pallets during machine operation
- Simple set-up and commissioning
- Easy to operate and program
- Possible pallet sizes with 320 x 320 mm, 400 x 400 mm and 500 x 500 mm



# Н





#### Automation solutions

- A VariocellUno
- G VariocellPallet

#### Storage options for VariocellUno

- **B** Pallets
- C Drawer
- D Container with AGV E Container
- F Conveyor belt

#### **Pallet variants**

- H Pallet with thread and
- locating hole grid
- I Pallet with T-slots
- J Pallet with cross T-slots

#### OUR EXPERTISE - AUTOMATION

Customized automation. Highly productive and autonomous.

#### Advantages with VariocellSystem

- Maximum flexibility in design
- Robots can be used for additional tasks
- Integration of peripheral units
- <sup>–</sup> Simple operation and programming
- Machining center and automation from one hand









#### Machining centers

- A Turning respectively mill-turning machining
- B Milling
- C AGV (Automatic guided vehicle)D Portal

VariocellSystem

E Robot

#### VariocellSystem

Flexible and individually configurable: Each **VariocellSystem** automation solution is as individual as your requirements. And always as autonomous and productive as possible. With integrated handling systems, gantry or articulated arm loaders, workpiece stores for blanks and finished parts, pallet stores, feeding or discharging equipment or peripheral units for cleaning, identification, testing or measuring.



Welding Soldering Riveting Screwing Gluing Assembling Sorting Washing Deburring Balancing Drying Packing Order management MES Linked process Integrated process Labeling Marking Laser marking Needle marking Write codes Read codes Gripper station Fixture station Loading Unloading Feeding Discharging Conveying SPC drawer N.o.k drawer Optical measuring Tactile measuring Plasmatizing Inspection systems...

## Digital solutions. Real added value.

#### SmartLine

Whether you operate in the automotive industry, mechanical engineering, aerospace, medical or precision engineering: The digitalization of your production facilitates greater efficiency, higher availability and increased productivity. SmartLine – a modular portfolio of digital systems from the CHIRON Group – harnesses this potential and adds real, lasting value to your machining centers, in terms of both production and the wider business.

MAINTENANCE ConditionLine ProcessLine ProcessLine View of the state of

All SmartLine modules can be integrated either as a

digital system adding value to a specific area. Their

an impressive package, providing extra efficiency,

availability and productivity.

standalone or in combination with others, with each

individual functions and strengths combine to create

## Intelligent manufacturing solutions. From planning to series production.

#### Turnkey

As a user, you can expect a manufacturing solution that is as individual as it is intelligent. A solution that uses the quantity structure and framework conditions to transfer your concrete machining task into a Turnkey process specific to your workpiece. To do so, the engineers and technicians of the Application division contribute their expertise for all phases from planning to series production readiness and deliver a production-ready overall solution of machining centers, tools, clamping devices and automation. Completed with the appropriate services over the entire lifecycle.

#### The process

- <sup>–</sup> Comprehensive process design
- <sup>–</sup> Engineering and project management
- Validation of statistical process capability
- <sup>–</sup> Assurance of target productivity
- Customized automation
- Production support during the start-up phase
- <sup>–</sup> Trainings for optimal use of the solution
- Tailored services



# The right services. At the right time.

#### **SmartServices**

Real added value is also offered by SmartServices, digital services based on software solutions from the SmartLine portfolio. Regardless of location or distance from your machinery, SmartServices are on-hand to help you convert the potential of your manufacturing processes into increased profitability.

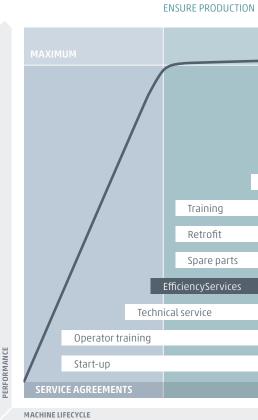


LifetimeSolutions

High machine availability, low operating costs, and the highest workpiece quality at minimum cost per part. This is the CHIRON Group commitment delivered with each machining center. An integral part of this commitment is the highly effcient CHIRON Group service. Nearly 500 service professionals in 26 countries provide comprehensive support, as trusted partners throughout the entire lifecycle of your machine with traditional on-site services and other services such as maintenance, repair, optimization and modernization.

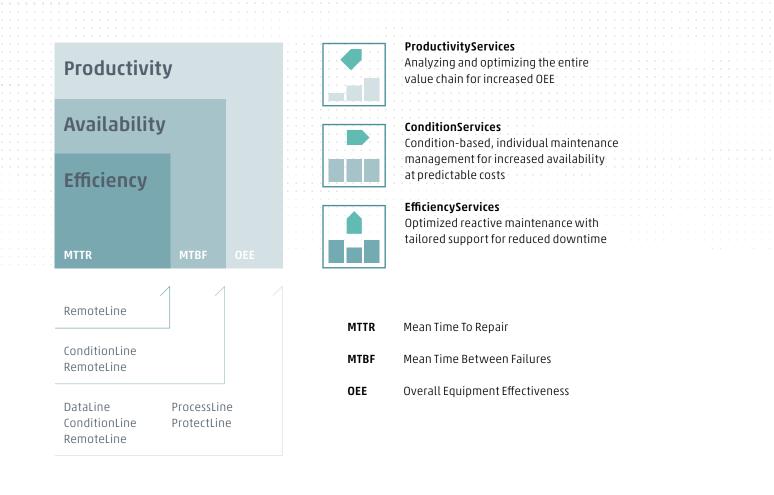
However, in today's manufacturing, professional service encompasses much more. It is targeted response, with the right services, at the right time. This is exactly what LifetimeSolutions provides: Based on the various phases of the machine lifecycle, as well as your specific needs, the CHIRON Group service specialists assemble a complete package of tailored services. With clear added value: More time for machining, lower operating costs.



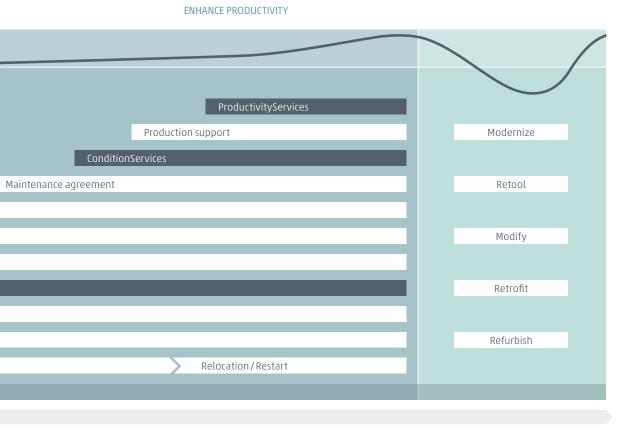


#### TAKE OFF

PRODUCE



#### **MODERNIZE**



# An original. Of the sustainable kind.

#### Refurbishment

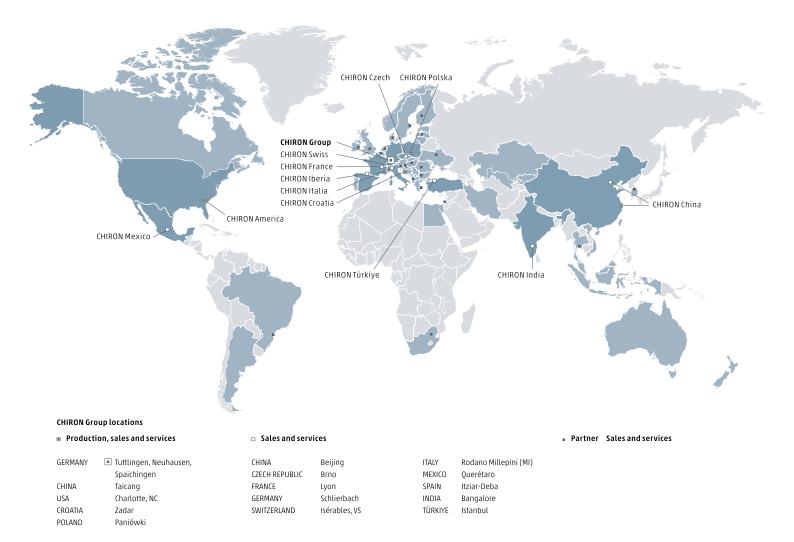
A CHIRON Group machining center is an investment in highquality machine technology and thus in sustainability. In permanently high production rates, short process times, consistently high quality. Advantages that pay off even longer with a refurbishment. Thus the lifecycle of existing machines can be increased – and not only that: During a complete refurbishment, the specialists renew all important elements such as drives and main spindles and, if necessary, modernize the control system. The systems manufacture 30 to 40 percent faster than before. At the same time, the energy requirements decrease, the environmental footprint is getting smaller.

In addition to the aspect of sustainability, a refurbishment is also an interesting option in other respects: Low investment costs and short delivery times for a machining center facilitate the entry into quality production with the CHIRON Group. An individual refurbishment, if desired also as a turnkey solution, prepares your machine for new tasks. In addition, the CHIRON Group has a pool of machines: used machines in in three refurbishment categories, as-new demonstration machines and pre-configured machining centers of the baseline Series.





# CHIRON Group



#### **CHIRON Group SE**

Kreuzstraße 75 78532 Tuttlingen Germany



The CHIRON Group, headquartered in Tuttlingen, Germany is a global company specializing in CNC vertical milling and mill-turning machining centers, as well as turnkey and automation solutions. Comprehensive services and digital solutions complete the portfolio. The Group has a global presence, with production and development sites, sales and service subsidiaries, and sales agencies worldwide. Key customer sectors are the automotive, mechanical engineering, medicine and precision engineering, aerospace industries, as well as tool manufacturing.

#### www.chiron-group.com