

**IBARMIA.**

**YOUR  
MACHINE  
TOOL  
POINT**



## **WHO WE ARE**

IBARMIA manufactures machining centers of high technology adapted to customer specific requirements.

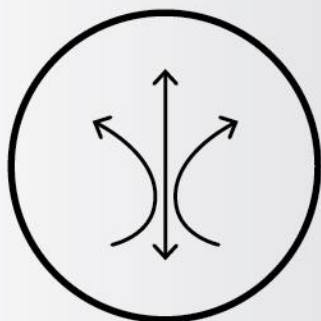
01

YOUR MACHINE TOOL POINT

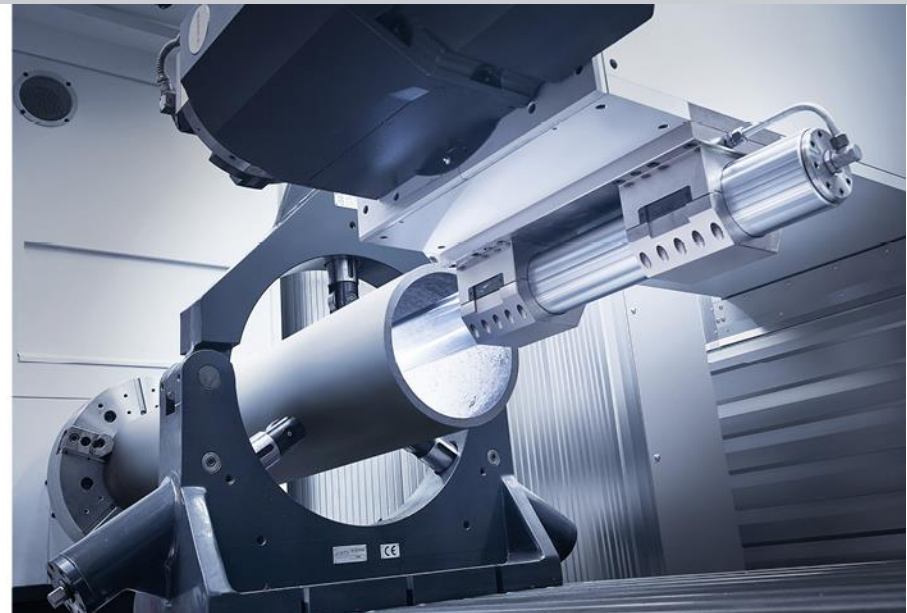
# WHY IBARMIA



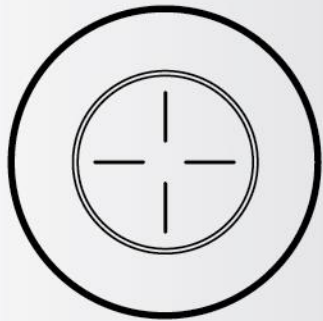
01



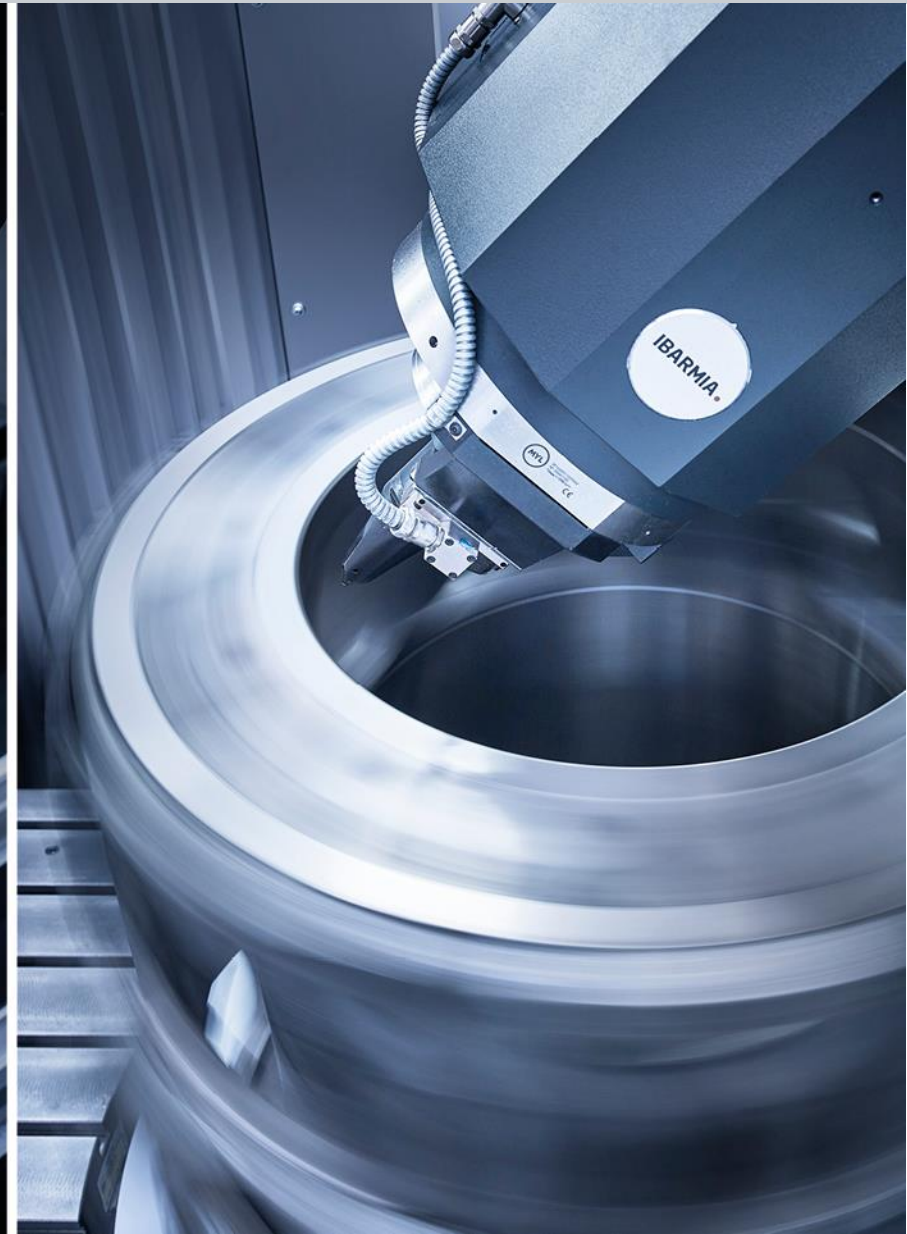
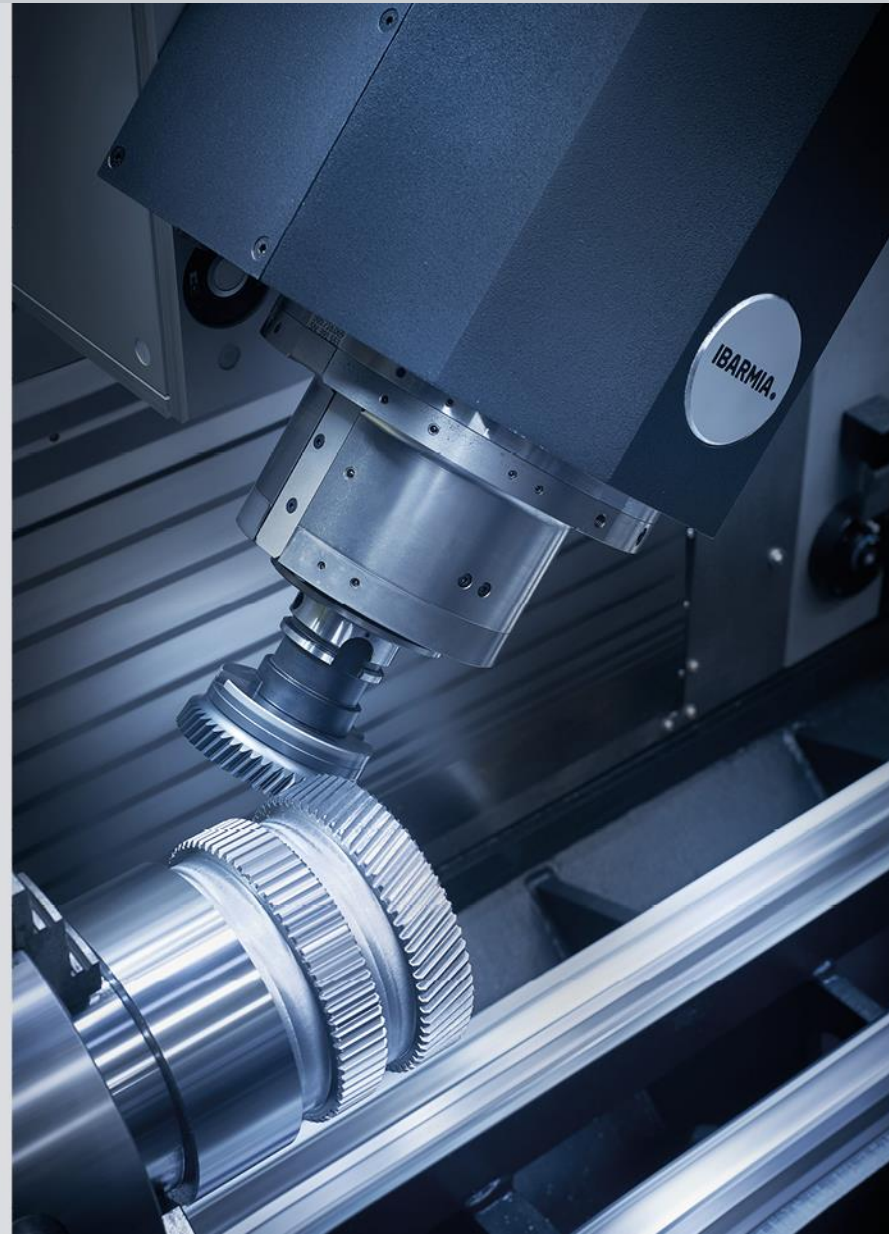
TOTAL  
FLEXIBILITY



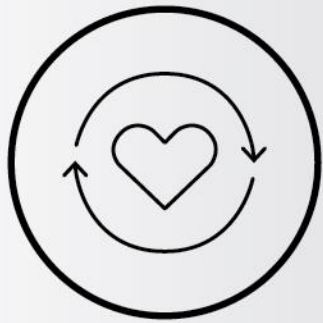
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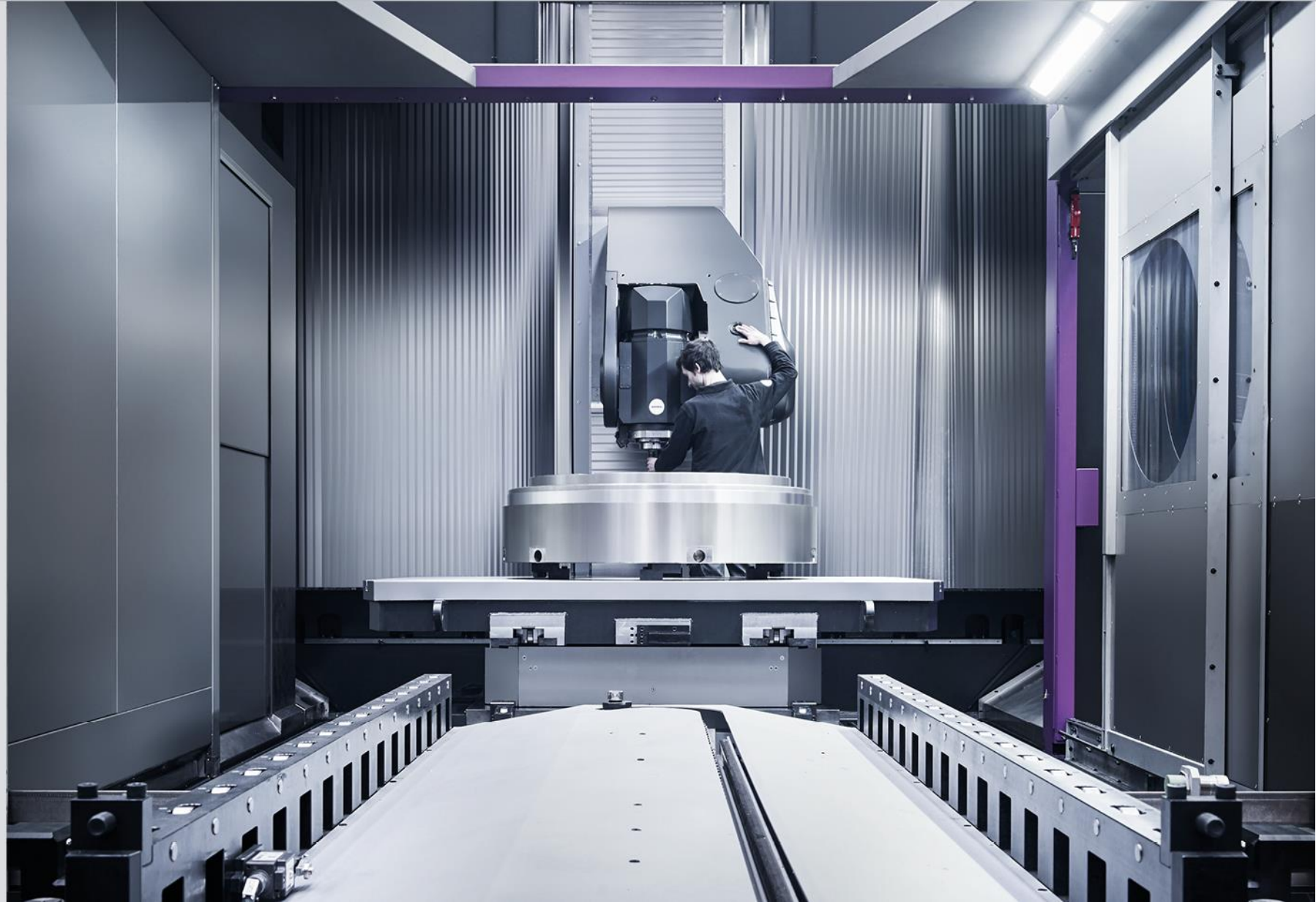
PRECISION  
TECHNOLOGY



03



USER CENTERED  
DESIGN



02

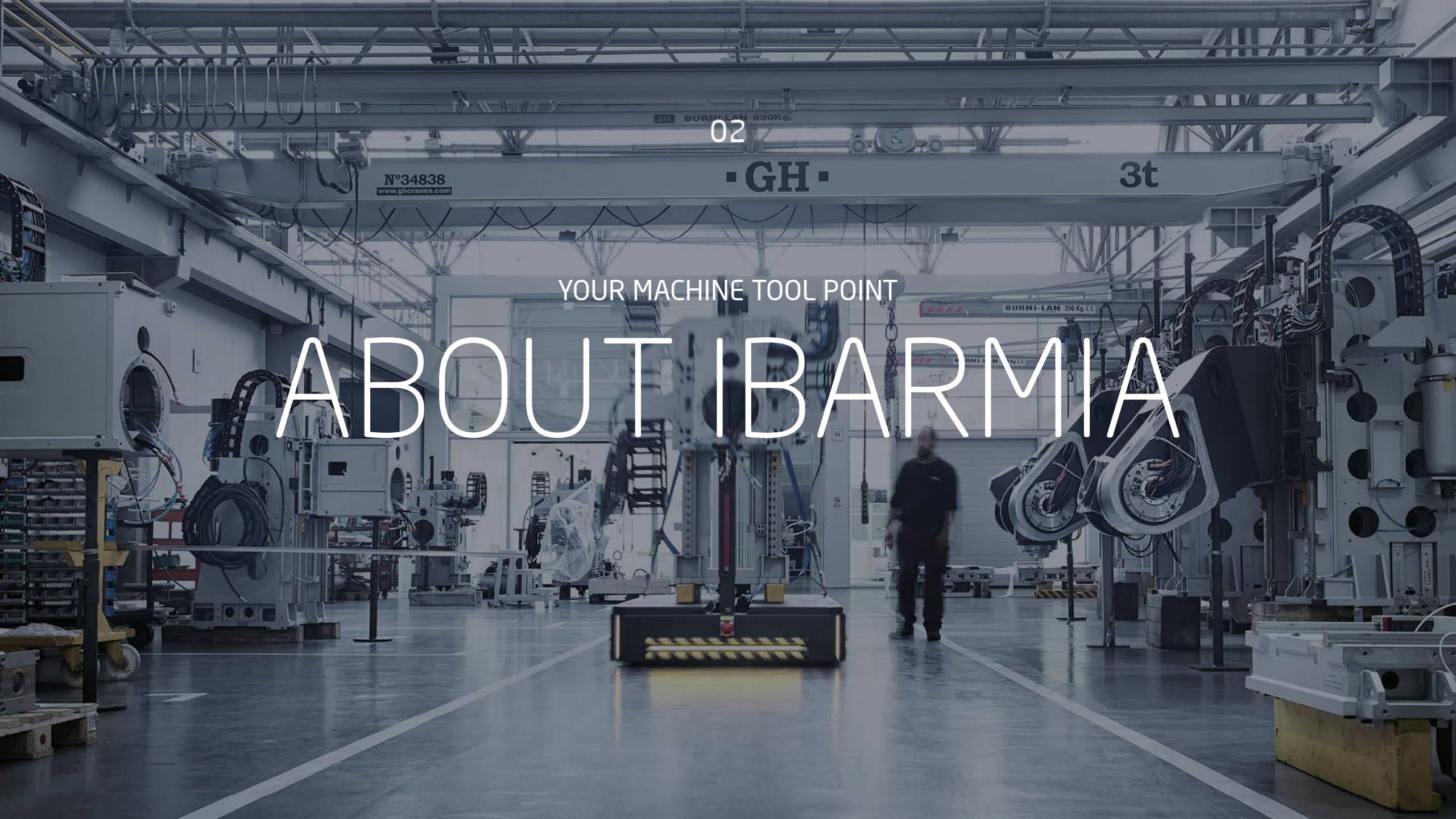
N°34838  
www.ghcranes.com

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YOUR MACHINE TOOL POINT

# ABOUT BARMIA

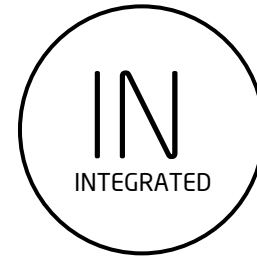




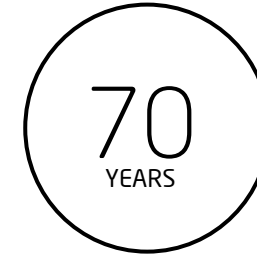
COMPETING IN THE  
GLOBAL MARKET



A YOUNG TEAM WITH  
HIGH FORMATION



INTEGRATED  
MANUFACTURING



TRADITION VS  
MODERNITY

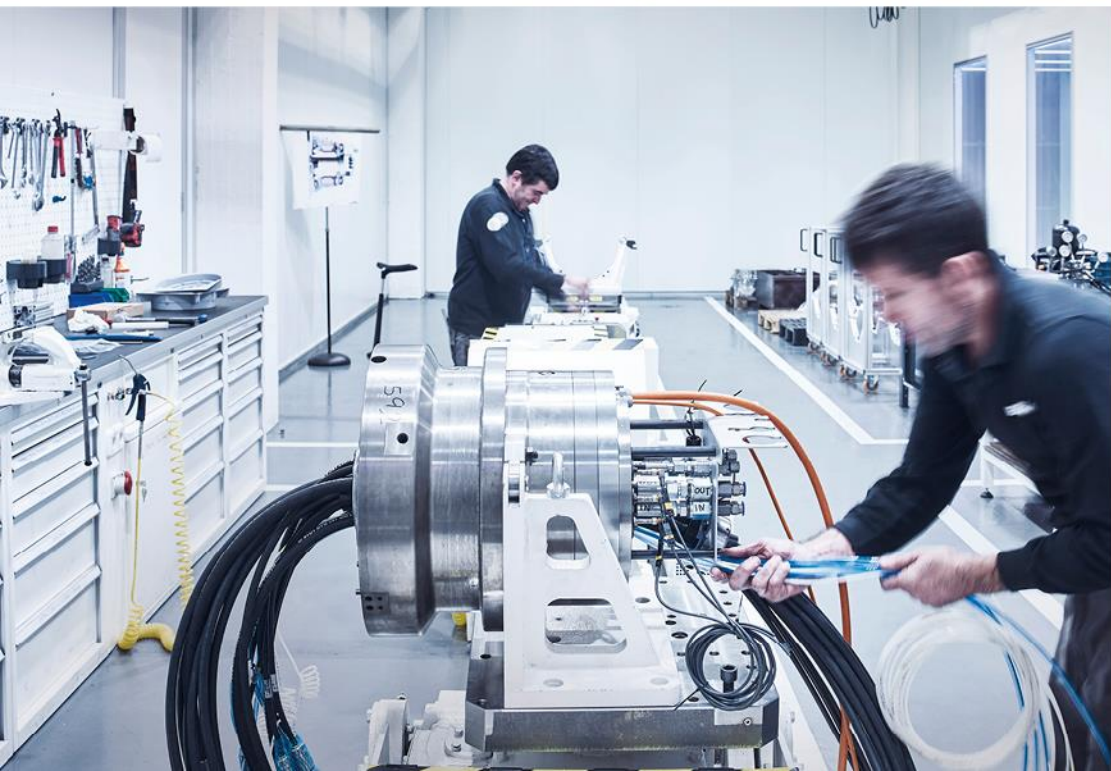
RECOGNIZED SPECILISTS IN  
MOVING COLUMN MACHINING CENTERS



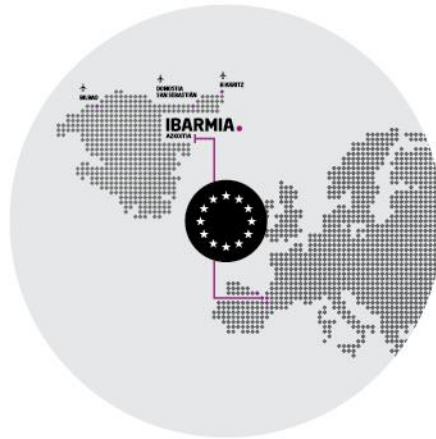


IBARMIA NOW

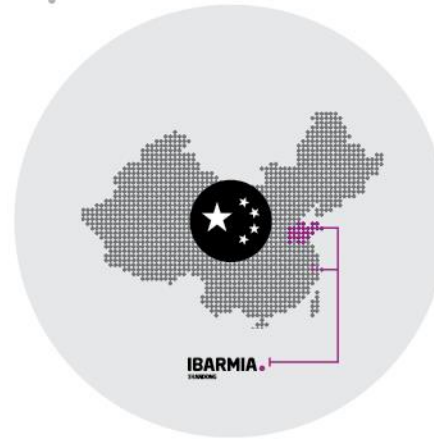
IBARMIA.



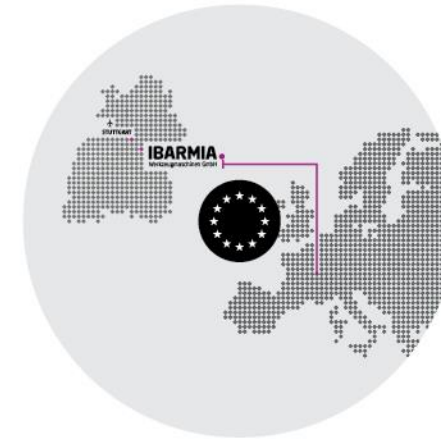
A trustworthy brand\_  
2 Production centres +  
2 Sales offices



IBARMIA AZKOITIA  
PRODUCTION CENTRE  
(Gipuzkoa) Spain



IBARMIA Qingdao  
PRODUCTION CENTRE  
IBARMIA Shanghai  
SALES OFFICE  
(Shandong-Shanghai) P.R. of China



IBARMIA Eisligen/Fils  
SALES & SERVICE OFFICE  
(Baden-Württemberg) Germany

# EVOLUTION

**IBARMIA.**



1984



1986



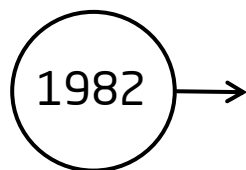
2004



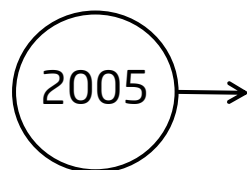
2017



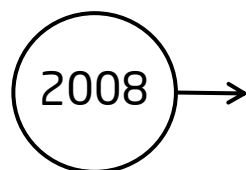
2019



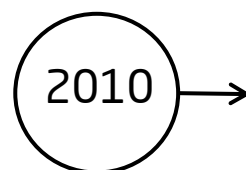
First milling centre



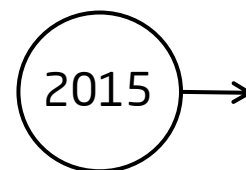
+ 5 axis Milling



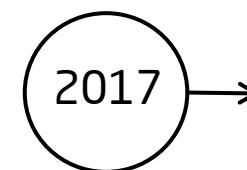
+ Turning



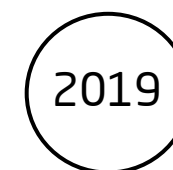
+ Flexible automation systems



+ Additive manufacturing



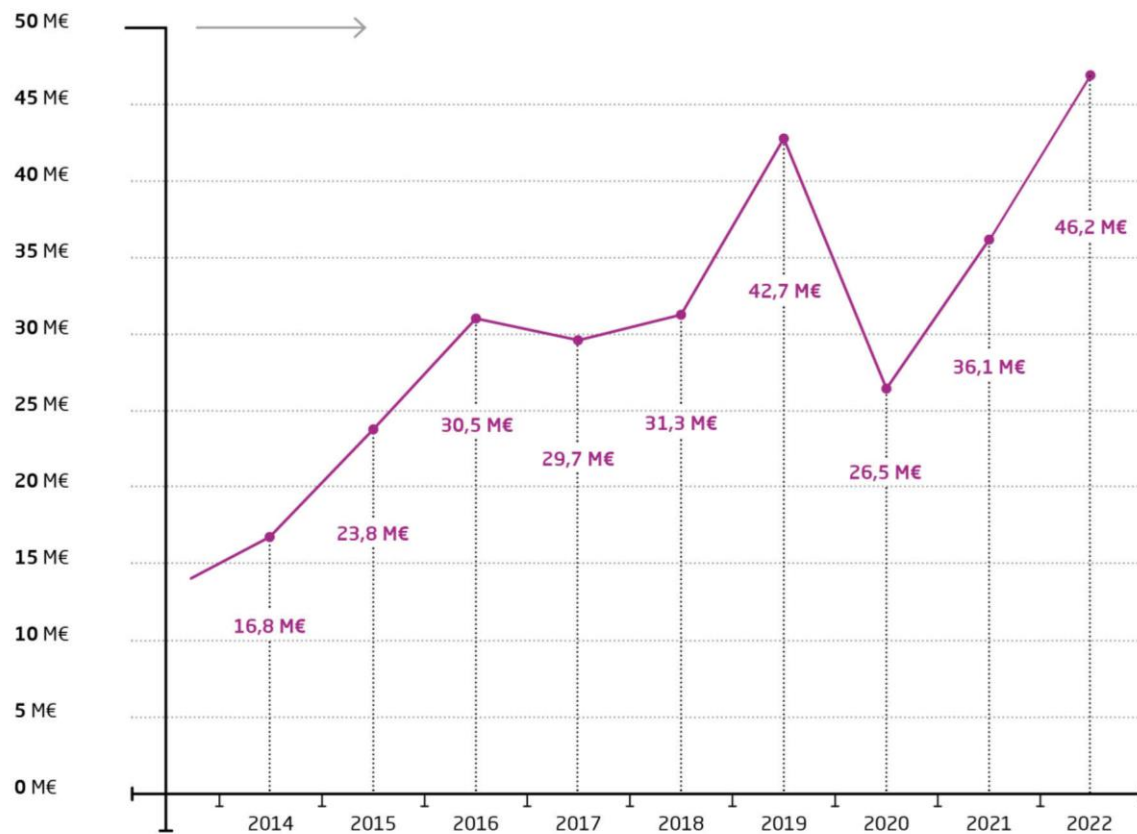
+ Digital dimension:  
Smart Point &  
Technological cycles



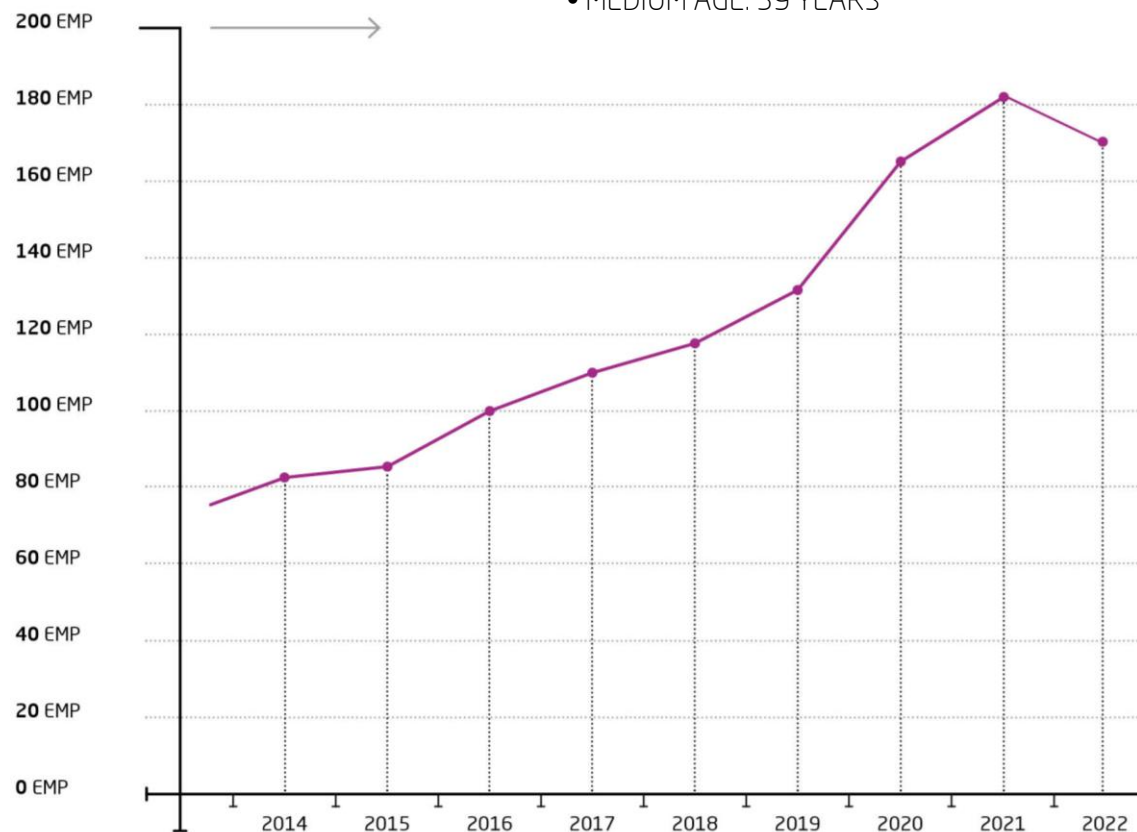
+ Grinding &  
Power Skiving



## TURNOVER\_



## STAFF\_



- 40% WOMEN ON THE MANAGEMENT COMMITTEE
- 50% ENGINEERS & UNIVERSITY GRADUATES
- 43% VOCATIONAL TRAINING
- 1 DOCTOR (DOCTORATED IN IBARMIA)
- MEDIUM AGE: 39 YEARS



## Commitment / Investment

- 9M€ invested in R&D since 2010.
- Average of **7.5% of the annual billing** destined to R&D.
- Participating in a **large number of R&D projects** (regional, national and European) with different partners (Siemens, Michelin, GKN, Danobat Group, Airbus, etc).



## Technological partners

- **Stable collaboration framework** with Technology Centers and Universities (for more than 10 years): Tecnalia, CFAA, UPV-EHU...



## Prizes and Awards

- **Business Innovation Award 2015** by the Basque Company and Society Foundation.
- **National Innovation Award 2016** in Advanced Manufacturing in the category of machine-tool.
- **SME of the Year in Gipuzkoa 2019** Award of Banco Santander and the Spanish Chamber of Commerce.
- **Industrial SME 2019 Award** of Gipuzkoa Chamber of Commerce.



03

YOUR MACHINE TOOL POINT

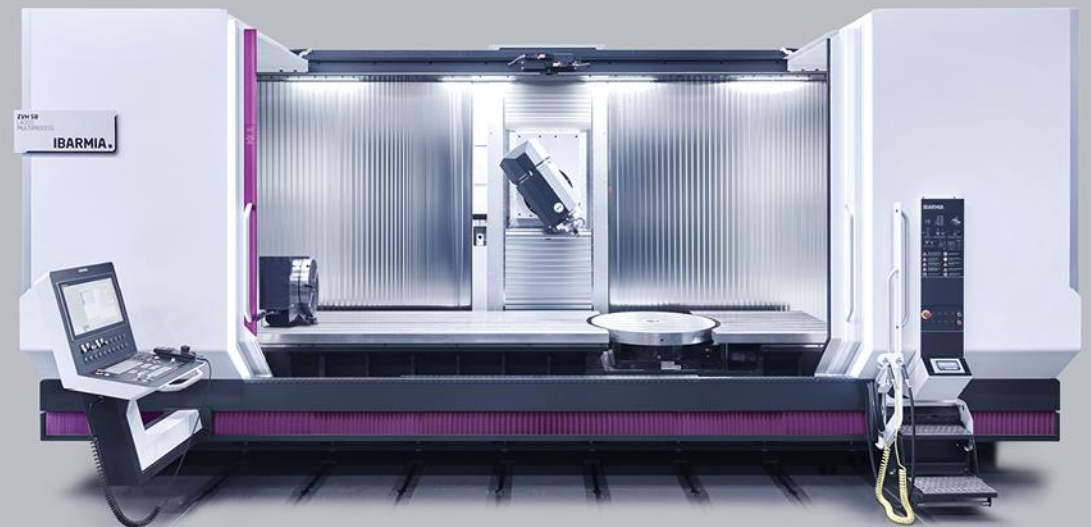
# TECHNOLOGY

## Z SERIES MOVING COLUMN MACHINING CENTRES

The machine for almost everything  
through it's more than  
700 configuration options.



Z SERIES





Body sizes for SK40 & SK50  
Specific machine construction for each spindle size.

## SK 40



Spindle taper  
SK 40 / HSK 63 / CAPTO 6

---

## SK 50



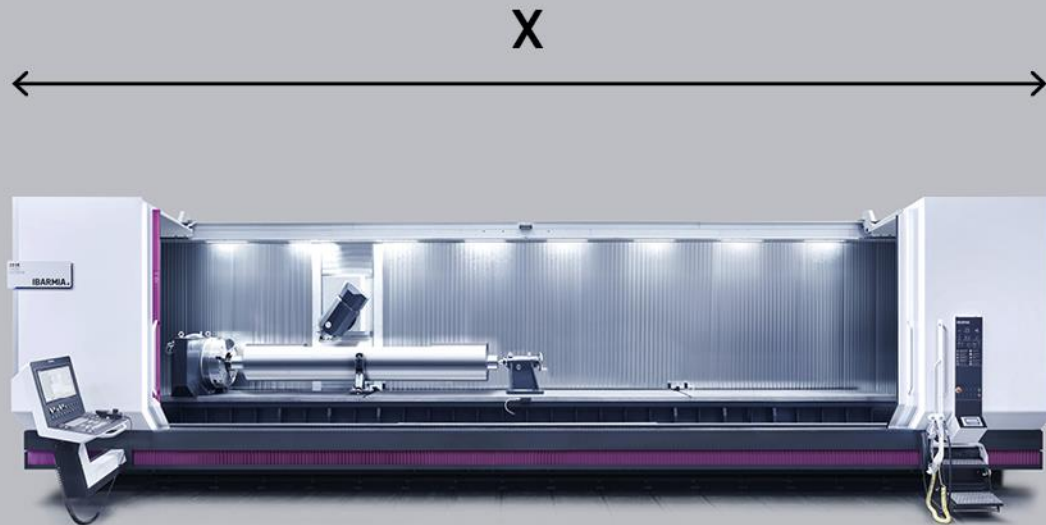
Spindle taper  
SK 50 / HSK 100 / CAPTO 8

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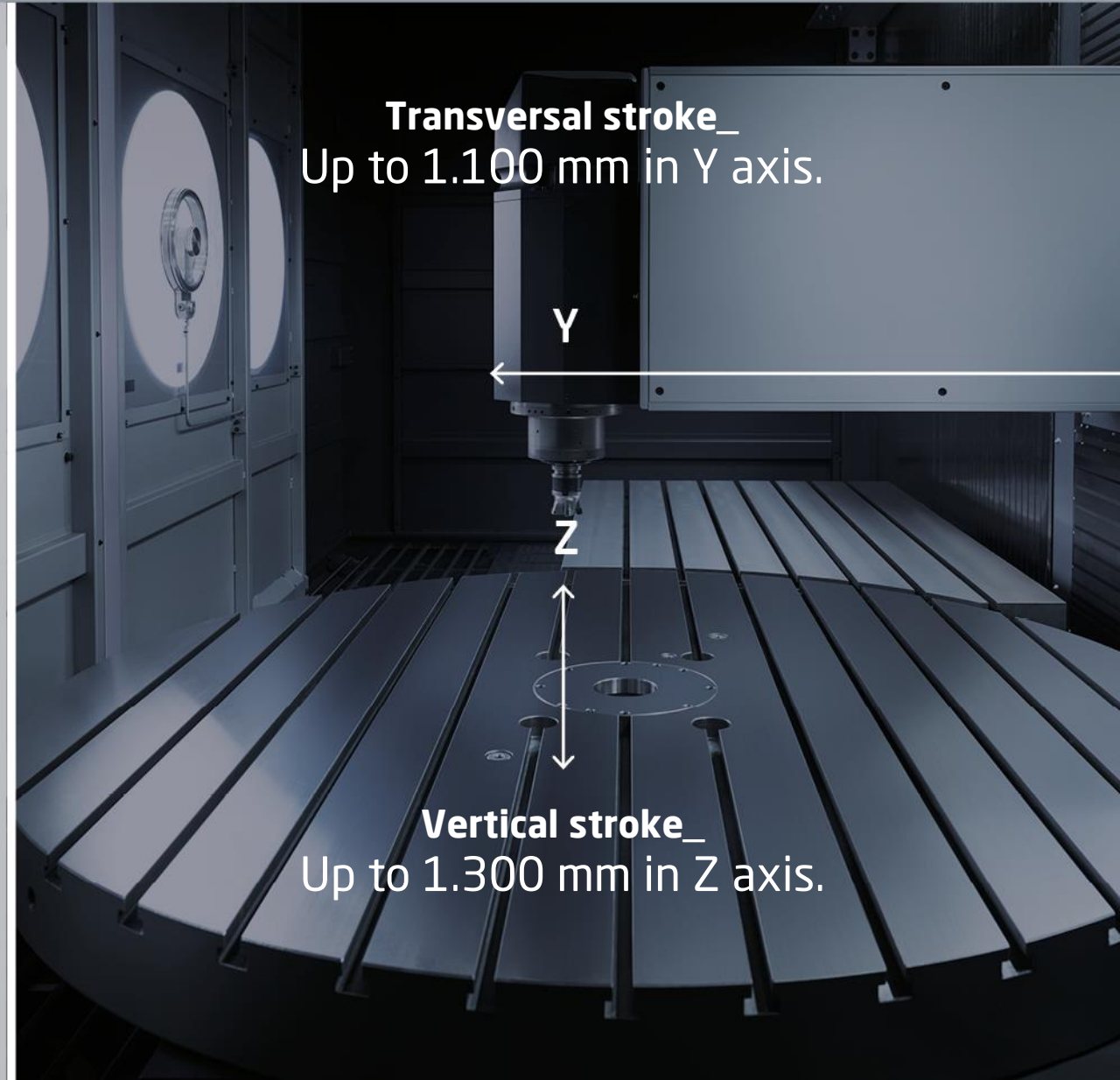
# Z SERIES / STROKES

**IBARMIA.**

**Longitudinal stroke**  
Up to 12.000 mm in X axis



**Transversal stroke**  
Up to 1.100 mm in Y axis.



**Vertical stroke**  
Up to 1.300 mm in Z axis.

Z



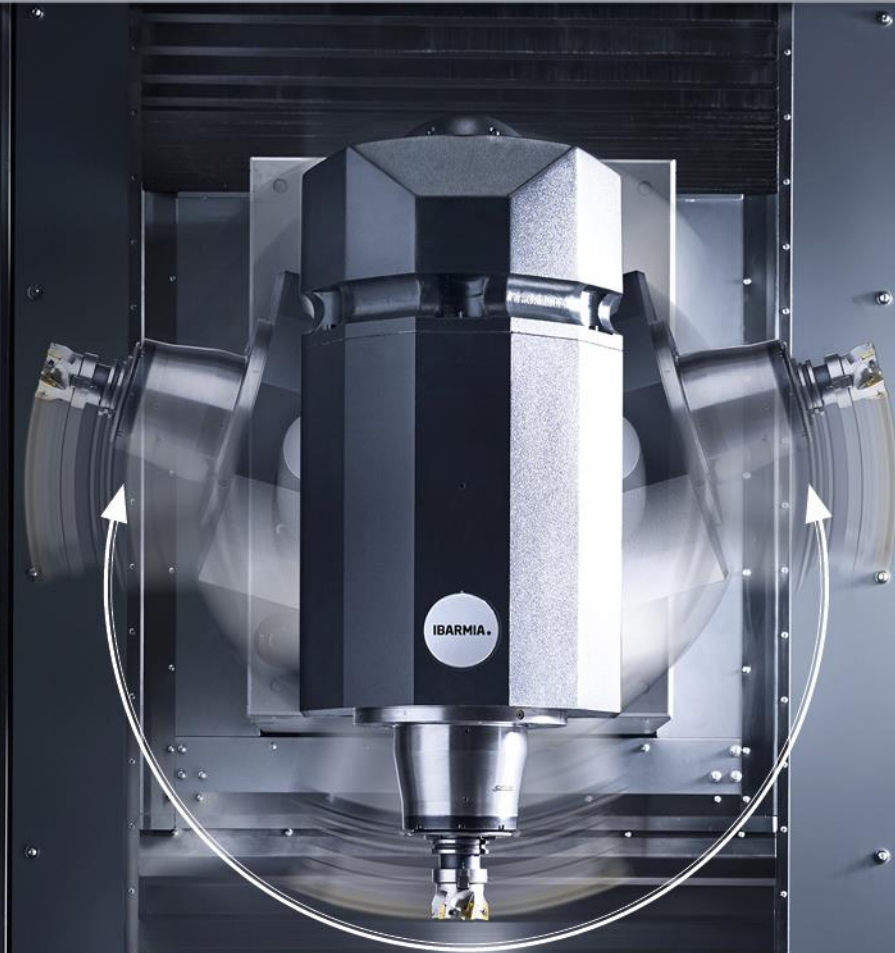
A vertical double-headed arrow is positioned above the worktable, with the letter 'Z' centered to its left, indicating the vertical stroke along the Z-axis.

## B AXIS

Award winning headstock.  
Superior technology.

+/- 105°

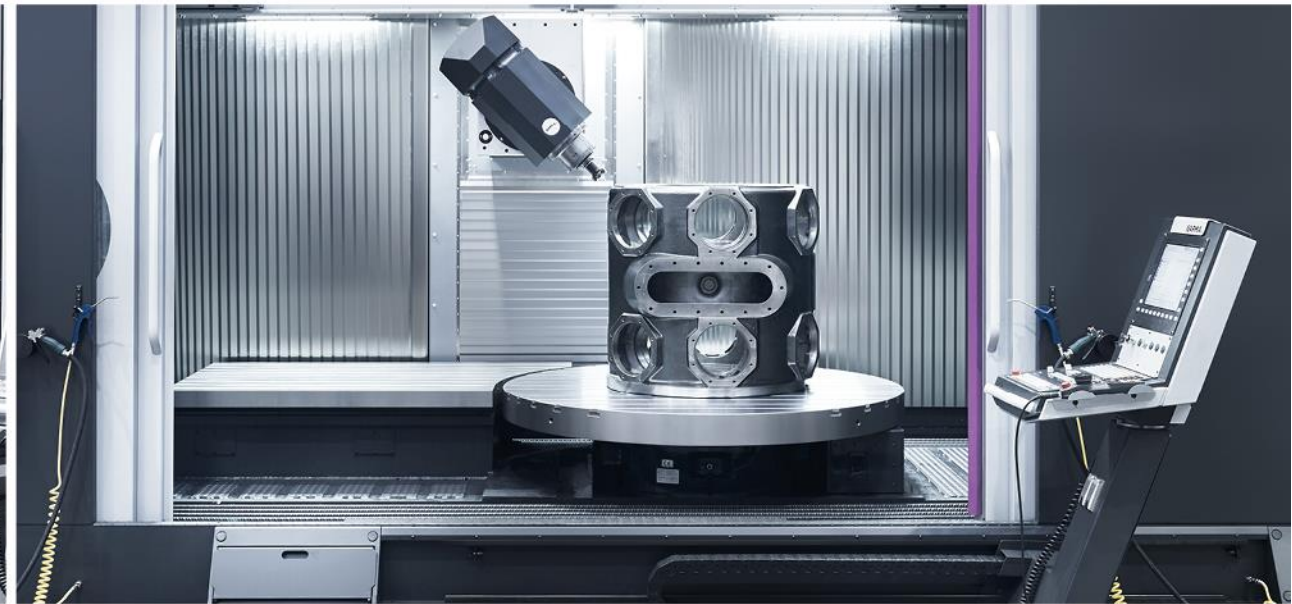
- TORQUE MOTOR technology
- FAST CONTINUOUS accurate movements
- 6000 Nm clamping force



+/-105°

# Z SERIES / A LA CARTE

**IBARMIA.**



# Z SERIES / MULTIPROCESS

**IBARMIA.**

## THE MOST FLEXIBLE MACHINE

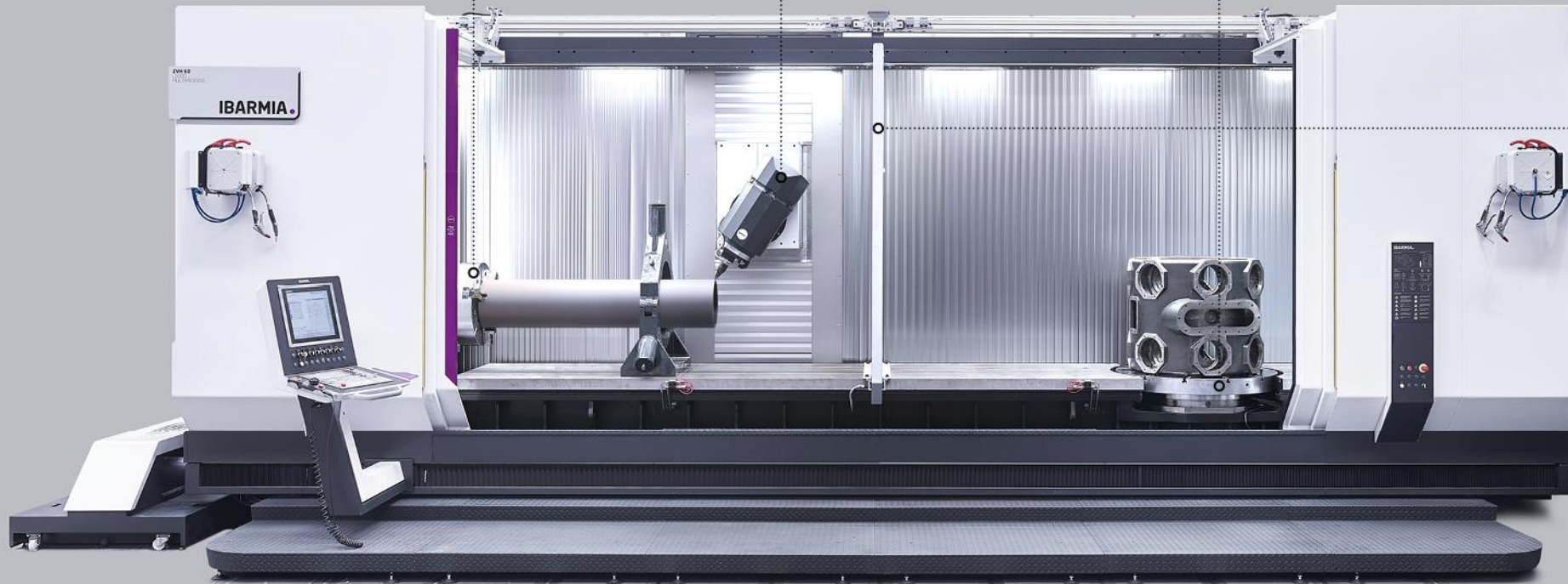
In the market.

A axis turning & milling.  
Chuck up to  $\varnothing 630$  mm.  
Up to 2000 rpm.

B axis torque motor  
milling head.  
74 kW - 12.000 rpm.

C axis turning & milling.  
 $\varnothing 800$  mm /  $\varnothing 1200$  mm  
rotary tables.  
Up to 6000 kg.  
Up to 800 rpm.

Two working areas.  
"Non stop machining"  
pendulum system.

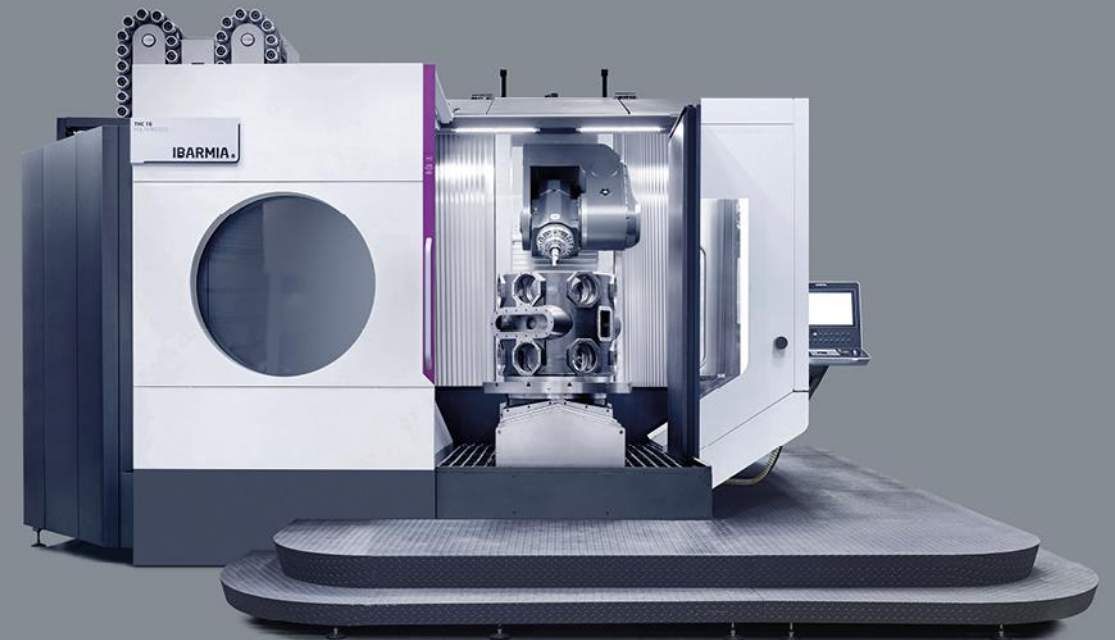


## T SERIES 5 AXIS UNIVERSAL MACHINING CENTRES

Advanced machining of big swing diameter parts, combining power, dynamics and automation.

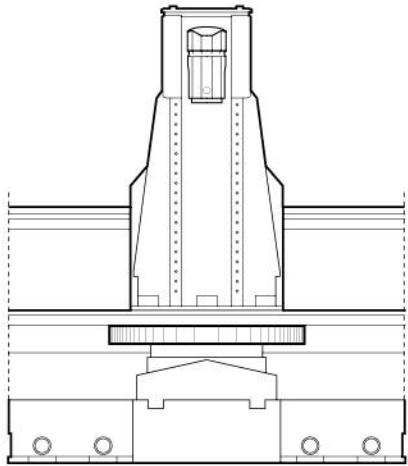


T SERIES



## Body sizes\_

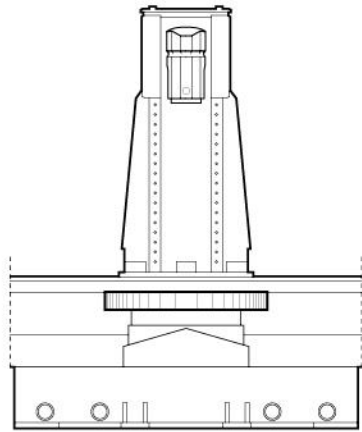
Five different models depending on the swing diameter of the working area.



T36

ø 3600 mm

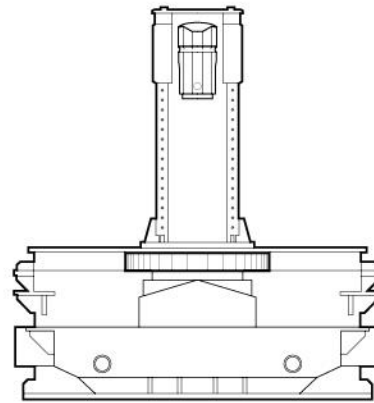
Piece max. height: 2150 mm  
Piece max. load: 30 t



T30

ø 3000 mm

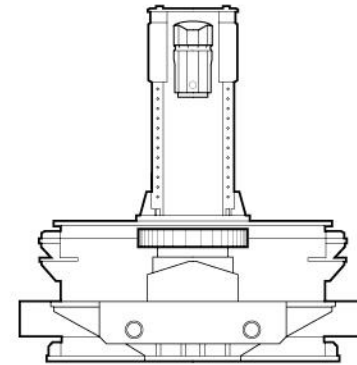
Piece max. height: 1950 mm  
Piece max. load: 20 t



T22

ø 2200 mm

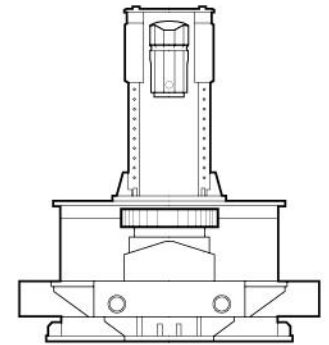
Piece max. height: 1750 mm  
Piece max. load: 10 t



T16

ø 1600 mm

Piece max. height: 1450 mm  
Piece max. load: 6 t



T12

ø 1200 mm

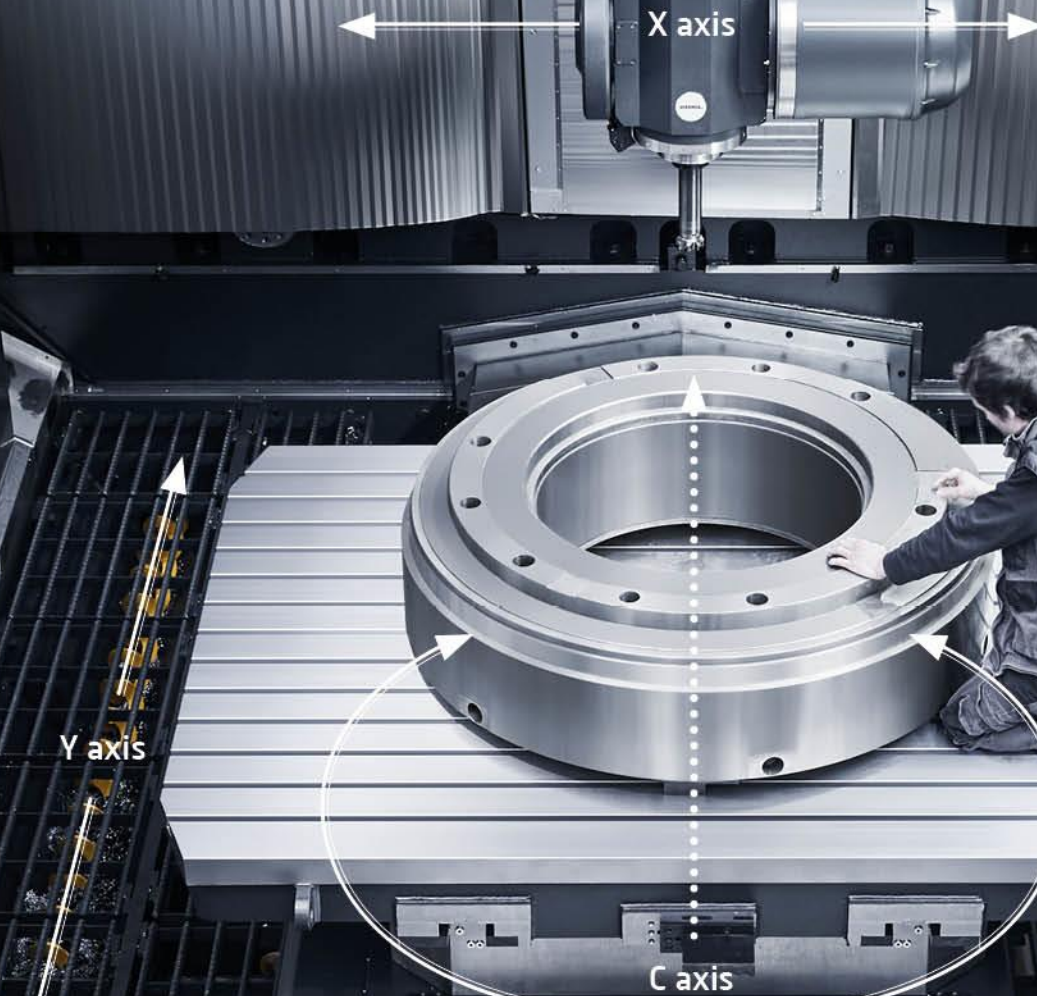
Piece max. height: 1250 mm  
Piece max. load: 4,5 t

# T SERIES / CONCEPT

IBARMIA

## Working area\_

5 axis advanced machining  
of parts up to:  
ø 3600 mm  
h 2150 mm  
30.000 Kg





MULTI  
PROCESS  
TECHNOLOGY



## T MULTIPROCESS

Multi-tasking universal machining centres:  
5 axis multiface milling & vertical turning

5  
AXIS



## T EXTREME

5 axis universal machining centres

## THC

B axis  
 $-15^{\circ}/+195^{\circ}$



Maintain the same tool center point across the full range

$-15^{\circ}/+195^{\circ}$

Max Power: 84 kW

Max. Torque: 452 Nm

Max. Speed: 12.000 rpm

## THR

A axis  
 $-45^{\circ}/+135^{\circ}$



Fork type spindle head ideal for negative angles

$-45^{\circ}/+135^{\circ}$

Max Power: 84 kW

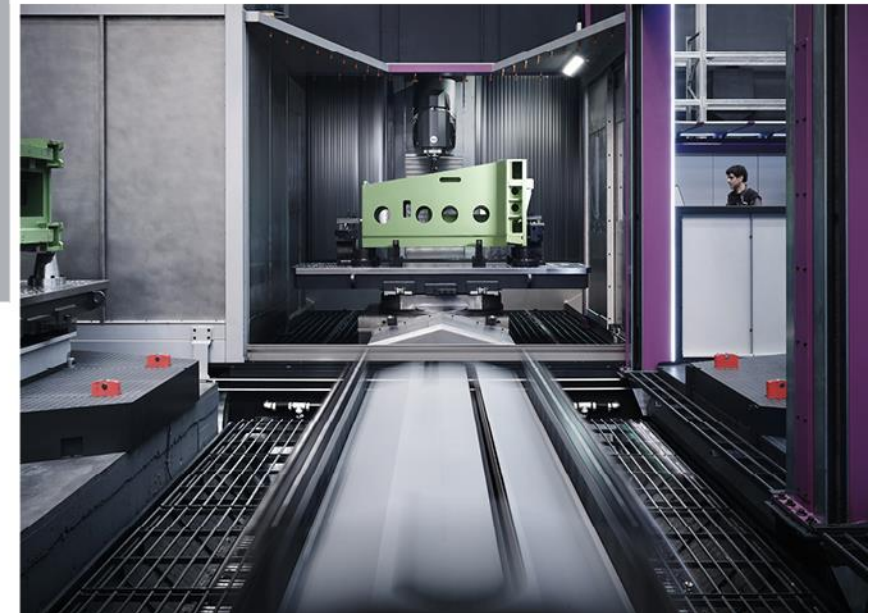
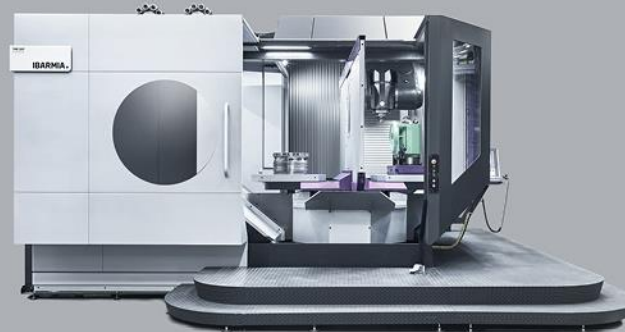
Max. Torque: 452 Nm

Max. Speed: 12.000 rpm

# T SERIES / AUTOMATION

**IBARMIA.**

**Different degrees available\_**  
Robot systems for automatic  
change of special tools;  
Various ATC systems depending  
on the machine size.



## C SERIES MACHINING SOLUTIONS FOR BIG CIRCULAR PIECES

A complete range of solutions  
for the machining of big dimension  
rings up to  $\varnothing 8500$  mm



**C SERIES**



01

## Turning centers



C Turning centers with one or two RAM heads in portal construction, which can cover any range of work from the center of the table to a **maximum diameter  $\varnothing$ 8000 mm.**



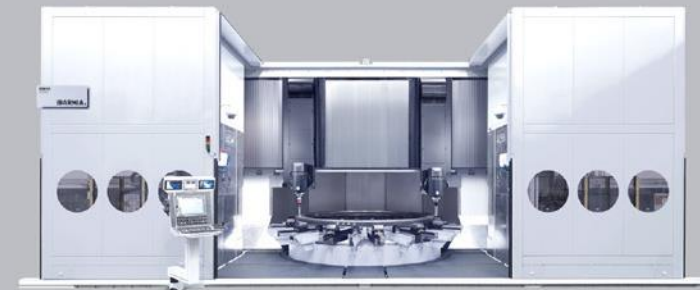
Single  
One head



Dual  
Double head

02

## Drilling centers

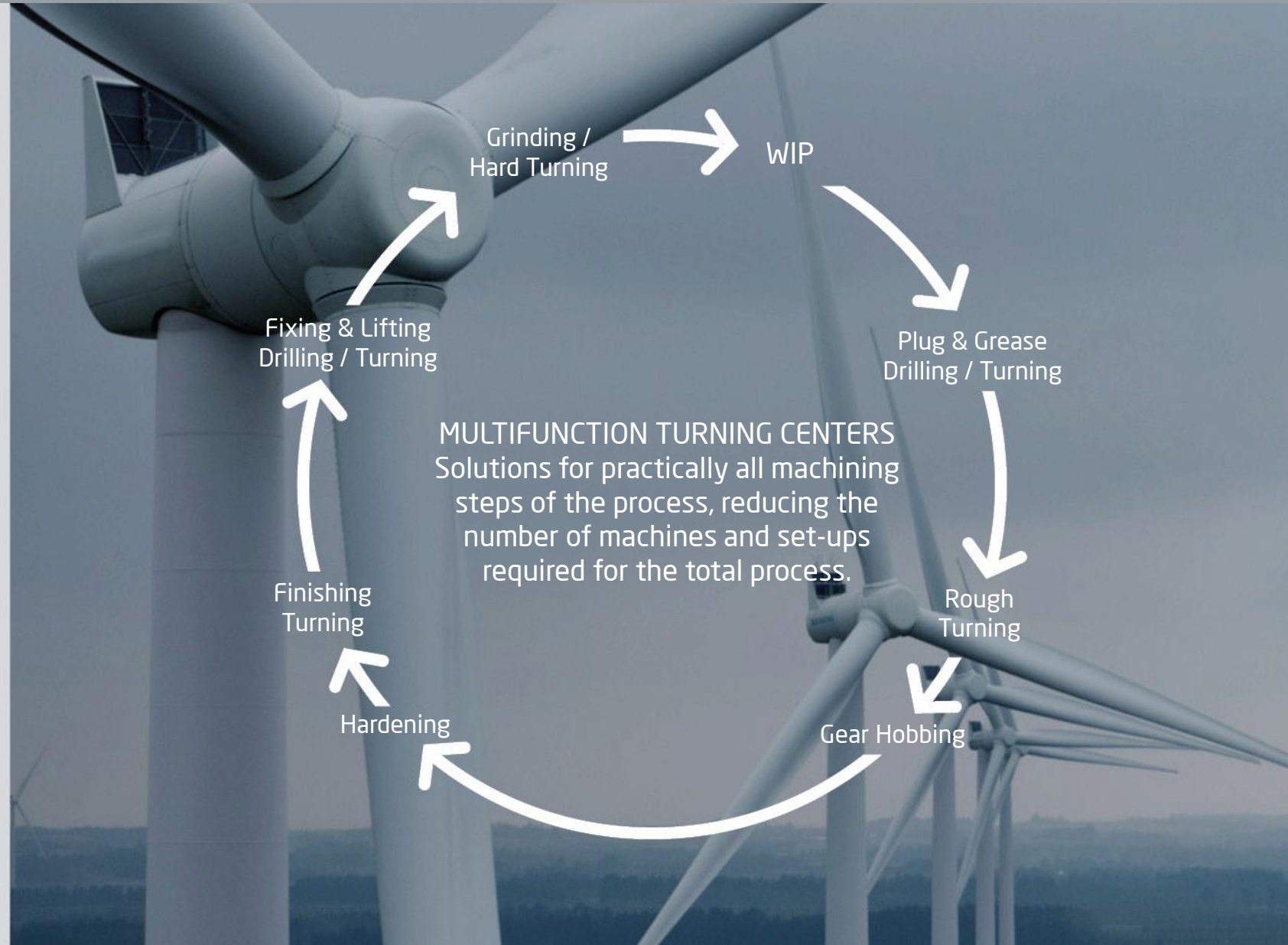


Drilling centers with one or two heads in portal construction, which allow to cover any range of work from the center of the table to a **maximum diameter  $\varnothing$ 8000 mm.**

## Turning centers



Specially designed for operations on large bearings and flange rings up to  $\varnothing 8000$  mm. Multiprocess models for drilling, turning and grinding operations.



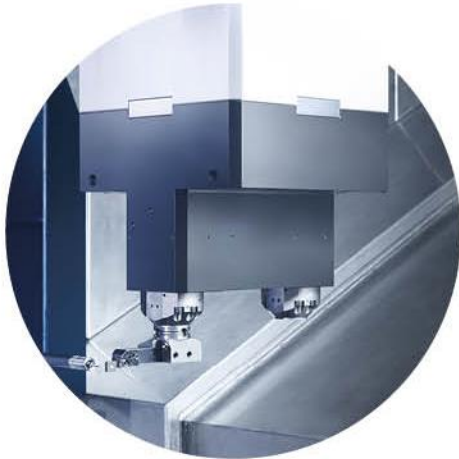
The tendency in the large bearings market is a **MULTIFUNCTION** machine able to machining different process in one setup.



Ring's evolution  
during  
manufacturing  
process



Two types of RAM heads.  
Automatic interchangeable heads.



RAM Type 1

RAM with fixed turning turrets

- 
- Various configurations available



RAM Type 2

RAM with live spindle

- 
- For drilling, tapping and / or milling operations



Interchangeable heads

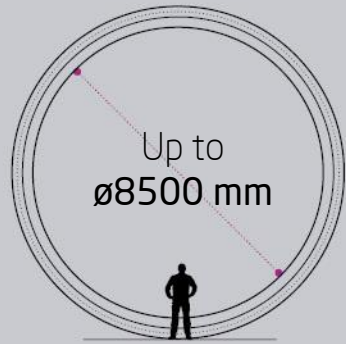
Multiprocess technology

- 
- For all the processes required in the complete machining of large circular pieces

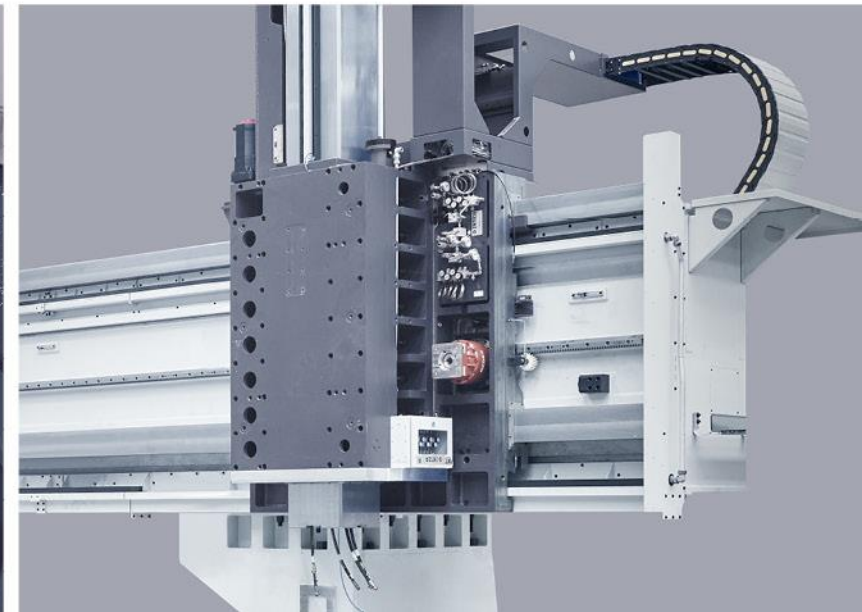
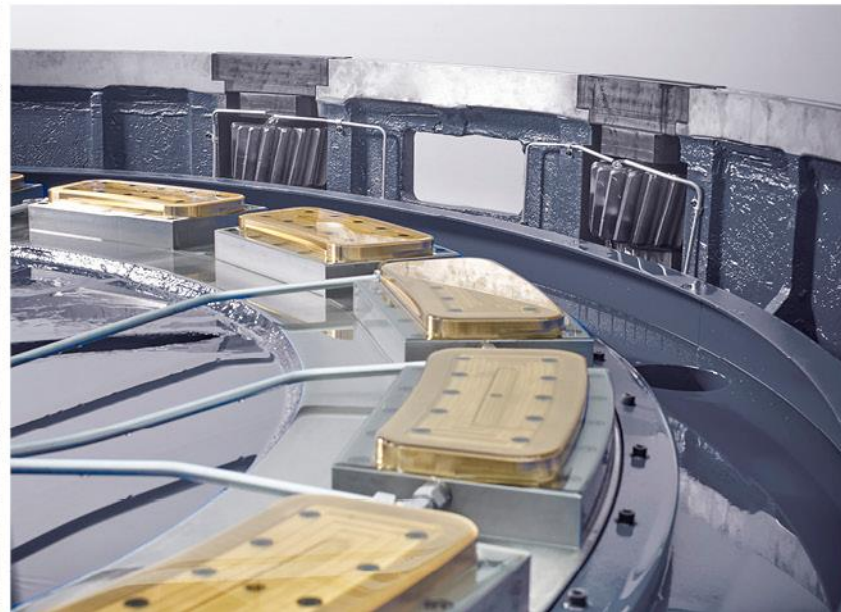
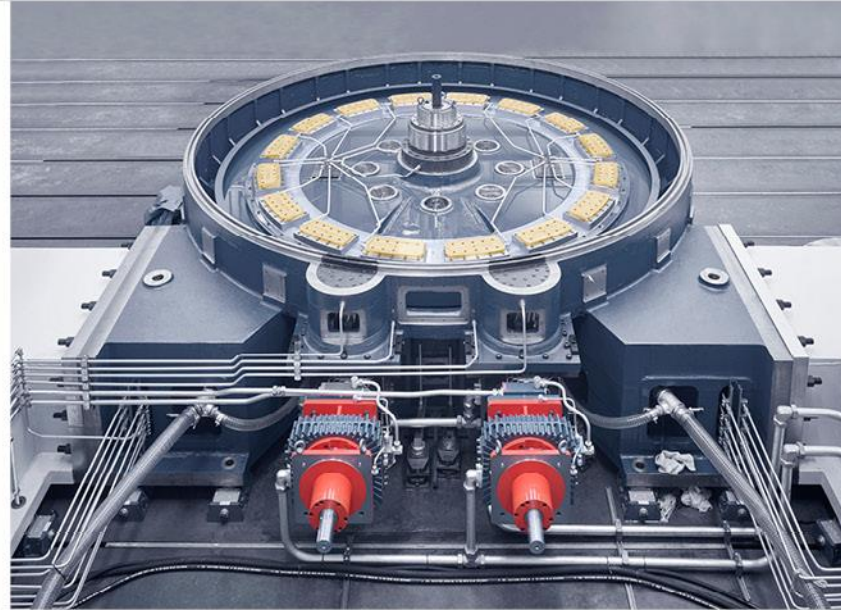


# C SERIES / TURNING / CONSTRUCTION

**IBARMIA.**

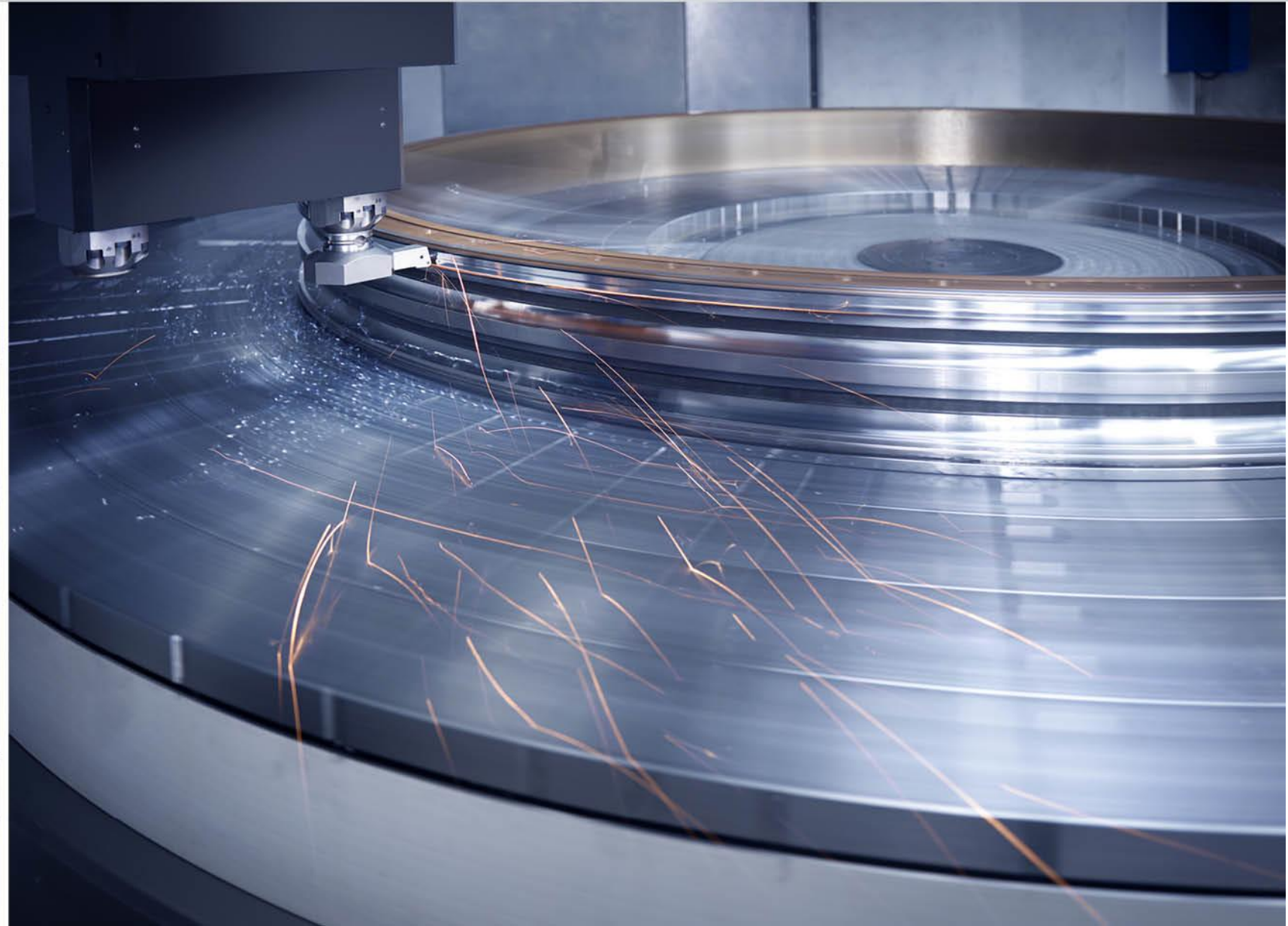
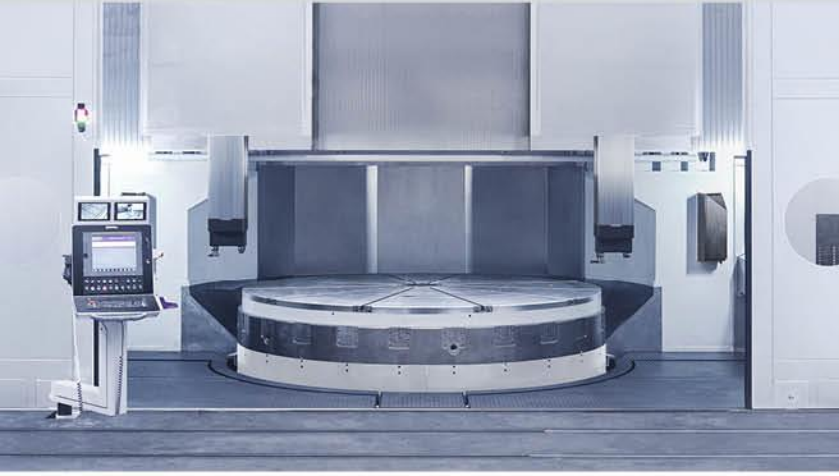


LARGE BEARINGS AND FLANGES



# C SERIES / TURNING / PERFORMANCE

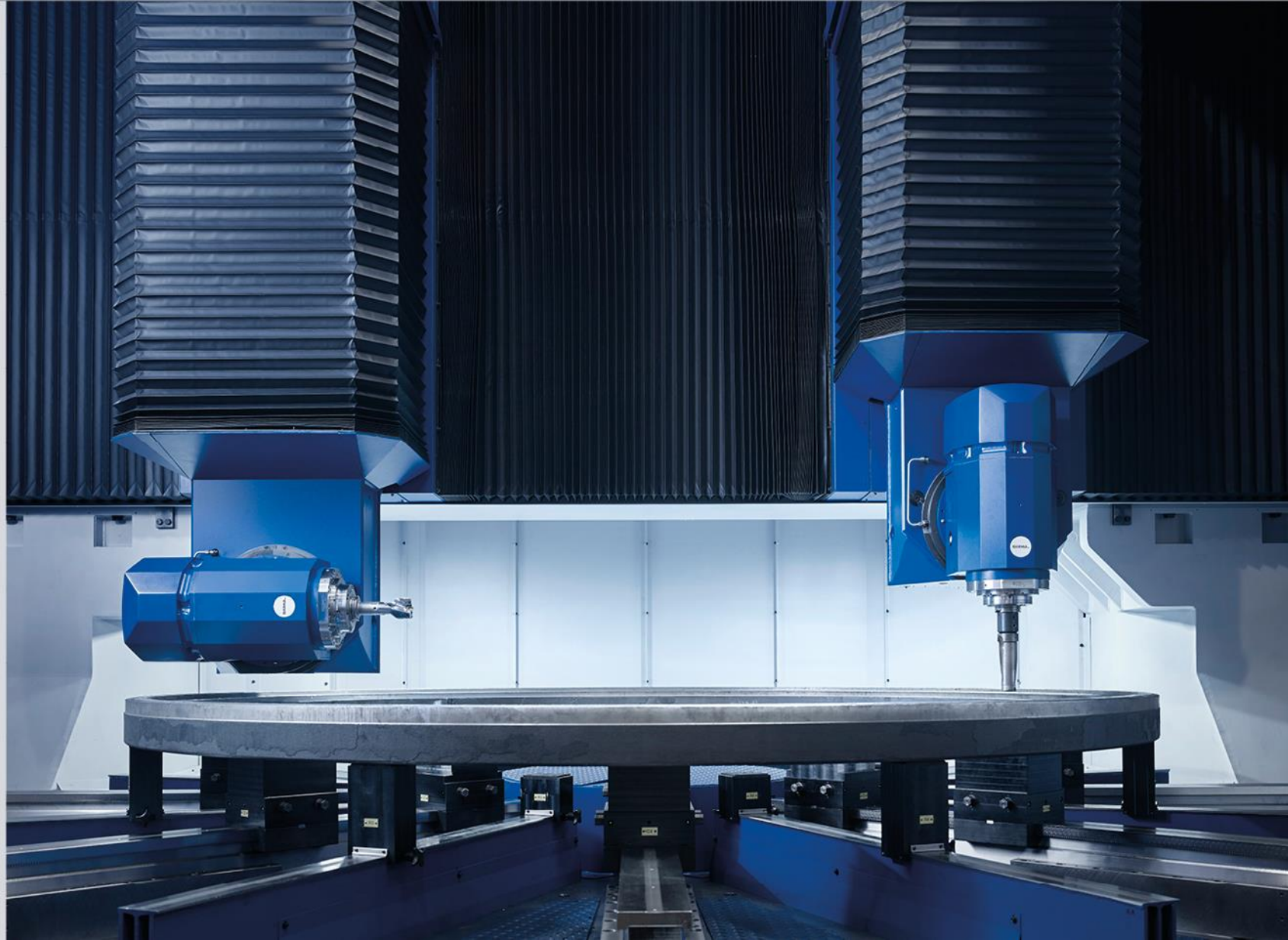
**IBARMIA.**



## Drilling centers



For vertical and horizontal drilling operations on circular pieces up to  $\varnothing 8000$  mm.



Three head models and two types of transmission.



**V Classic**  
Vertical head

- 
- Mechanical spindle



**V Extreme**  
Vertical head

- 
- Motor spindle

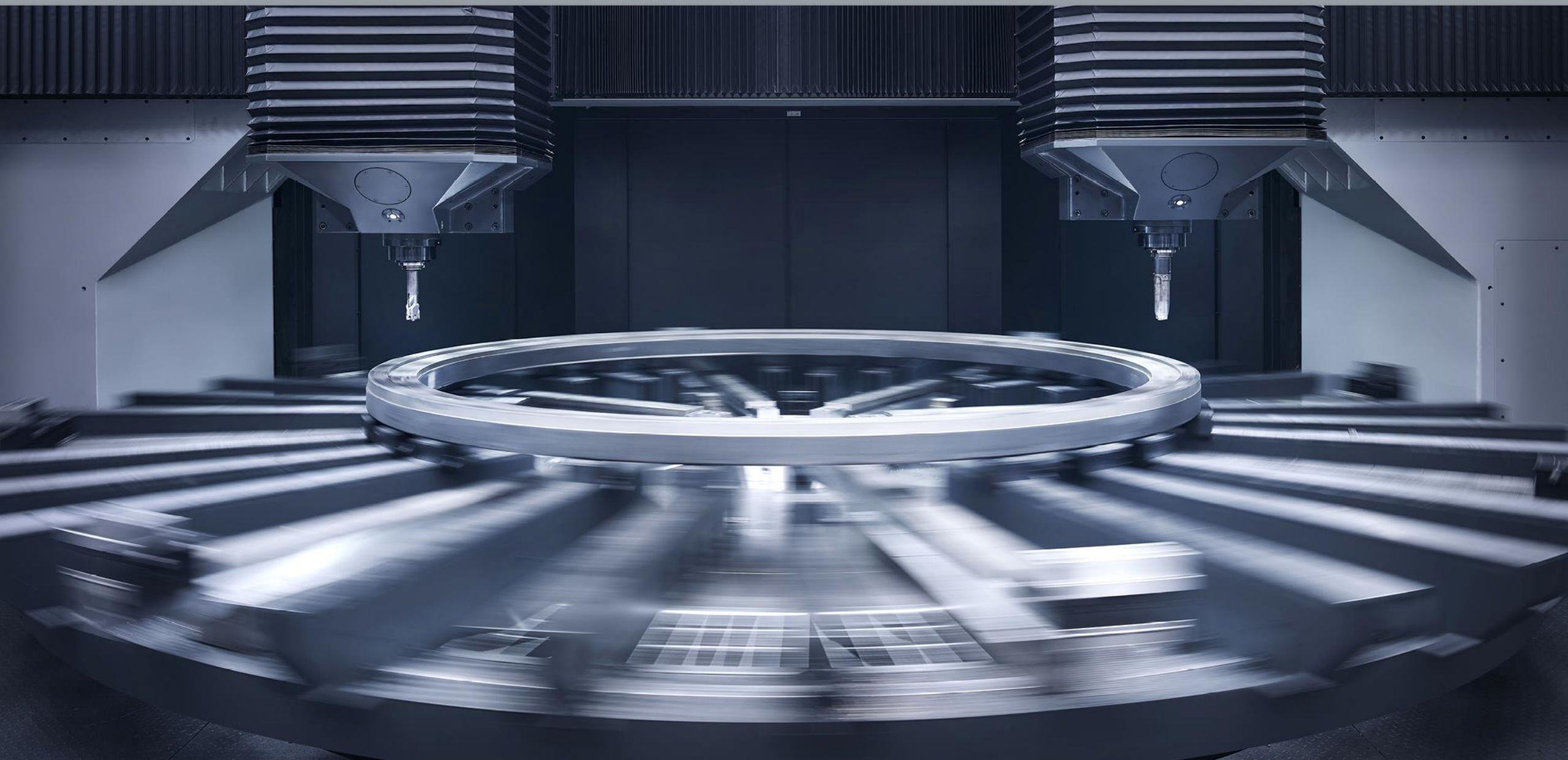


**H Extreme**  
Vertical-horizontal head

- 
- Motor spindle

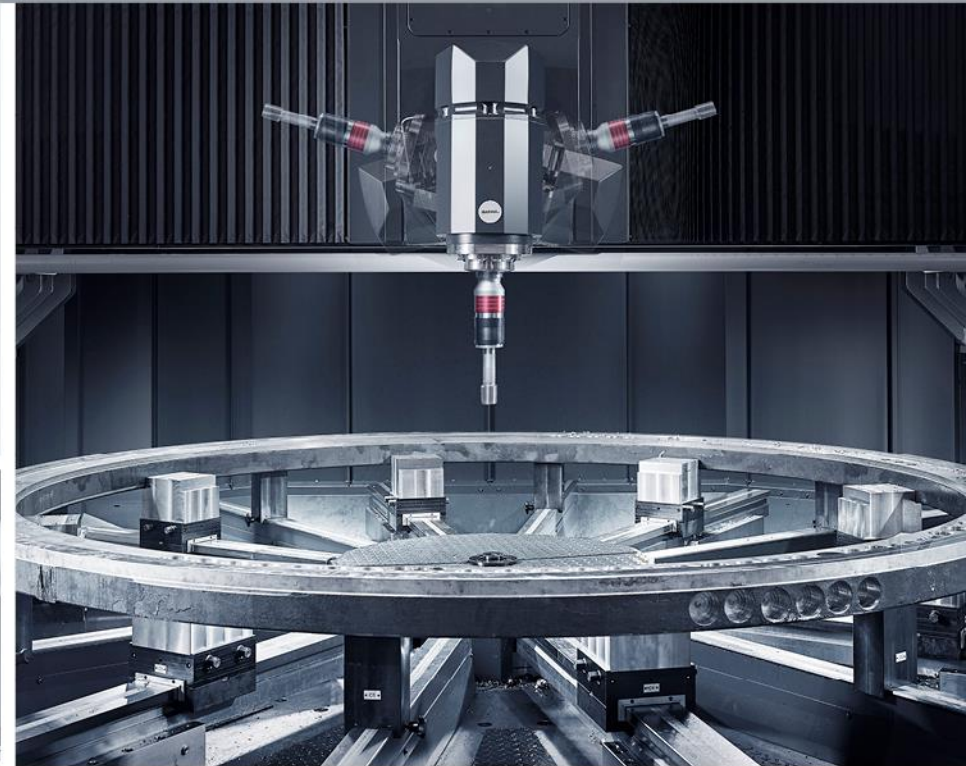
C SERIES / DRILLING

IBARMIA.



# C SERIES / DRILLING

**IBARMIA.**



C SERIES / DRILLING

IBARMIA.



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