

Z SERIES

MOVING-COLUMN MACHINING CENTERS

Multitasking, 5-, 4- or 3-axis models
in M and L machine sizes.

For the largest variety of shapes, pendulum work and swing
up to Ø2000 mm, unlimited flexibility makes this platform
a must-have for any machine shop.

IBARMIA.
YOUR MACHINE TOOL POINT



Z SERIES



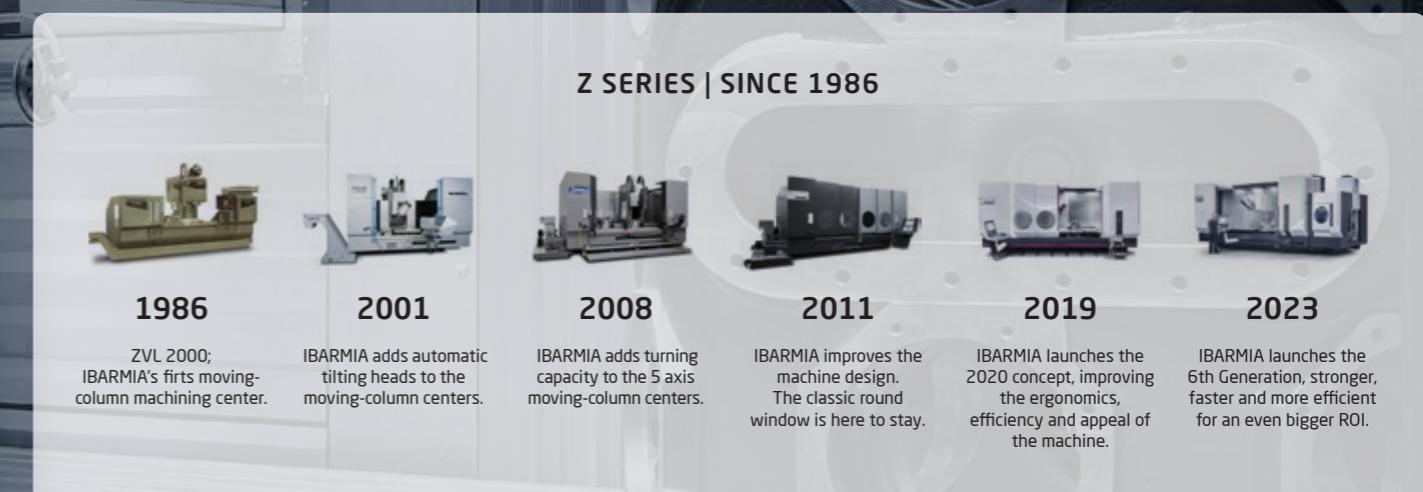
www.ibarmia.com

YOUR MACHINE TOOL POINT



Z SERIES

INTRO



IBARMIA.

Fully convinced It has been almost half century since IBARMIA presented in 1986 their first machining center of fixed table and moving-column, ZVL-2000. Every day more and more manufacturers highlight the advantages of this architecture; at IBARMIA we understood this from the very beginning and our specialization and bet on this concept have taken us to create the widest range of models, always faithful to the inspiring principle. Besides high quality, capacity and precision, our machining centers of fixed table and moving column offer superior ergonomics and flexibility.

1_ Machine Program Summarizing

2_ Application industries

3_ Characteristics

4_ Create your own machine

5_ Star Edition

6_ Technological integration

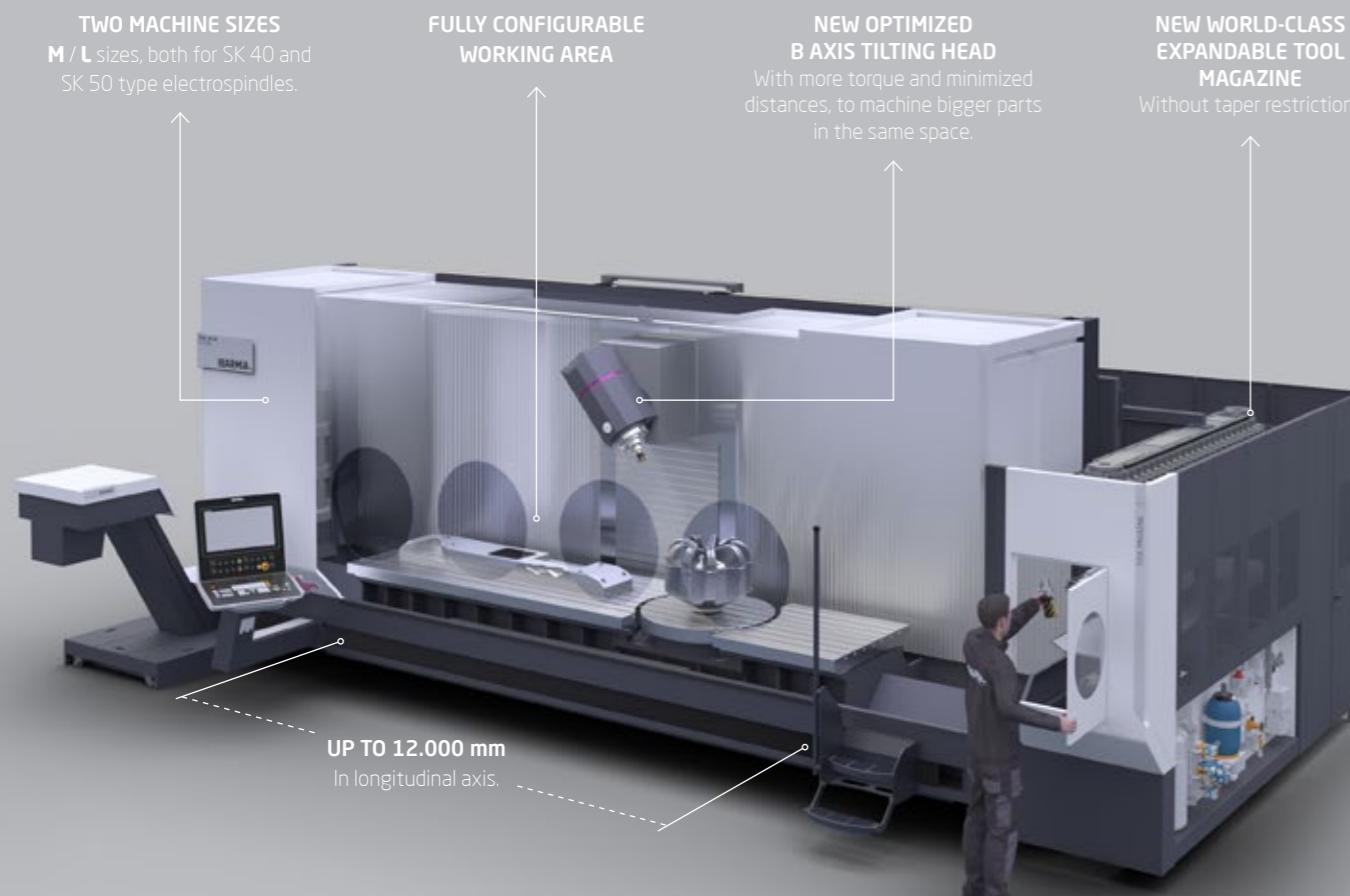
7_ Technical specifications



1.1_ MACHINE PROGRAM SUMMARIZING

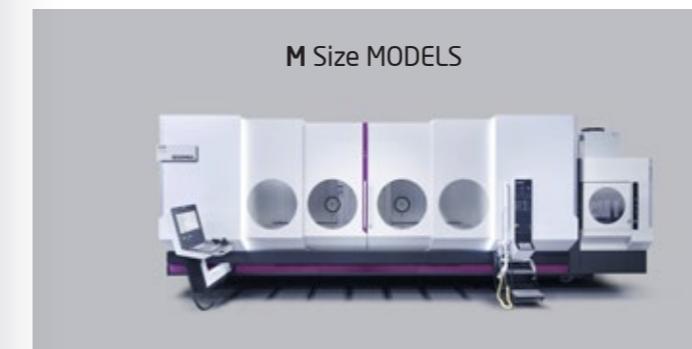
TAILORED TO EACH CUSTOMER'S NEEDS

Every customer, every piece, every material, every process requires a specific performance from the machine, and the Z SERIES gives the optimal solution for every case, always following a quality standard ensuring the best performance. The high configurability and the possibilities offered by the combining of axes and processes provide an unlimited field of work, a differential value for the customer and a return of investment of maximum viability.



IN THE PICTURE: ZLS5_40.10 EXTREME

Z SERIES_ BODY SIZES



M Size MODELS



L Size MODELS

IBARMA adapts the machine structure depending on the manufacturing requirements. The M size robust machine structure is focused on integrating high power spindles to produce a wide range of parts in any materials.

For SK 40 & SK 50 type spindles

Tool holder:
SK 40 / BT 40 / HSK-A63 /
CAT 40 / CAPTO C6
Up to:
50 kW • 200 Nm • 12.000 rpm
Higher speeds on request, up to
15.000 and 20.000 rpm

Tool holder:
SK 50 / BT 50 / HSK-A100 /
CAT 50 / CAPTO C8
Up to:
43 kW • 260 Nm • 8000 rpm

See on page 50

ZM S/V4

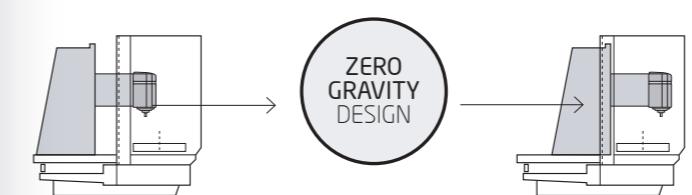
ZM S/V5

Z SERIES_ MACHINE TRAVELS



X AXIS LONGITUDINAL TRAVEL

A wide range of longitudinal travels available for M & L machine size models.
1500 / 3000 / 4000 / 5000 / 6000 / 7000 / 8000 / 9000 / 10.000 / 11.000 / 12.000 mm.



Y AXIS ZERO GRAVITY DESIGN

Fixed distance monoblock column design with constant cutting conditions on transversal travel.
M size: 800 / 1000 mm L size: 800 / 1000 / 1100 mm

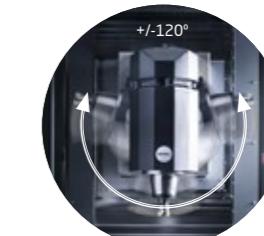
Z AXIS VERTICAL TRAVEL

M size: 800 / 900 mm L size: 1100 / 1300 mm

ZL S/V4

ZL S/V5

Z SERIES_ PERFORMANCE LEVELS



S SPINDLE HEAD
Torque motor B axis continuous tilting head: +/- 120°.



V SPINDLE HEAD
Vertical head.



MULTIPROCESS
Highly customizable
5-axis advanced multitasking centers.



EXTREME
Highly customizable
4-3- axis machining centers.

EXTREME
Highly customizable
5-4- axis machining centers.

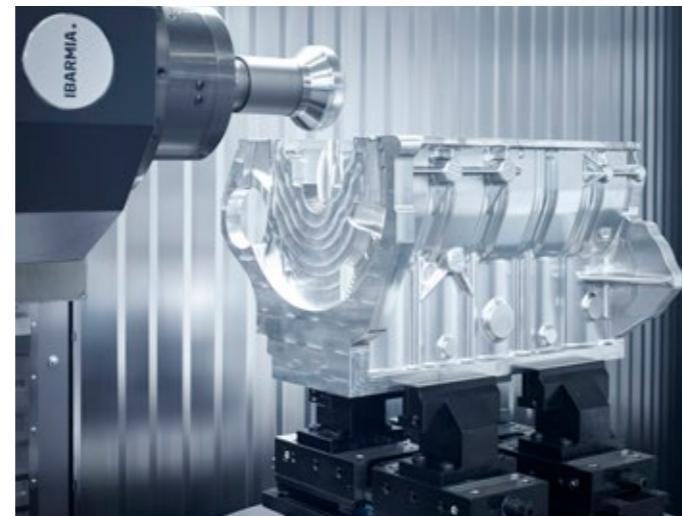
STAR EDITION
Short delivery closed configuration
5-axis machining center.

1_Machine Program Summarizing2_Application industries3_Characteristics4_Create your own machine5_Star Edition6_Technological integration7_Technical specifications2_FOR THE LARGEST VARIETY OF SHAPES AND SIZES**MACHINE IT ALL**

The most flexible platform in a wide selection of sizes and axis combinations. Capacity to machine the largest variety of sizes and shapes from various industrial sectors such as Oil&Gas or Aerospace. Pendulum work capacity and swings up to ø2000 mm makes this platform a must-have for any machine shop.

RANGE OF MACHINING

Extra long parts Medium diameter parts Big diameter tall parts

**Z SERIES****SAMPLE APPLICATIONS**

Toothed shaft



Crankshaft



Engine housing



Aeronautical component



Directional drilling tool



Industrial mold



Nautical engine component



Aircraft structural part



Machinery component

INDUSTRIES & MATERIALS

OIL & GAS



MOLD & DIE



AEROSPACE



AUTOMOTIVE



RAILWAY



MACHINERY



YELLOW GOODS

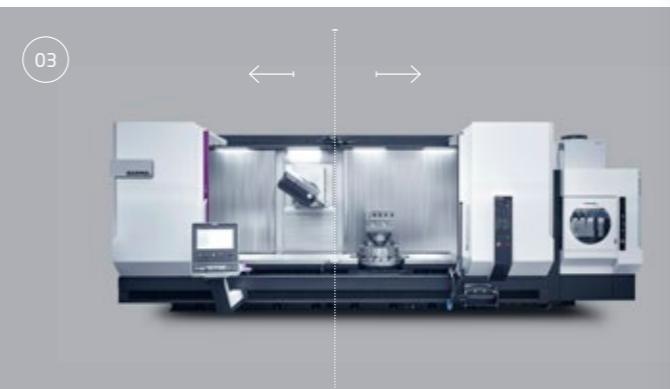
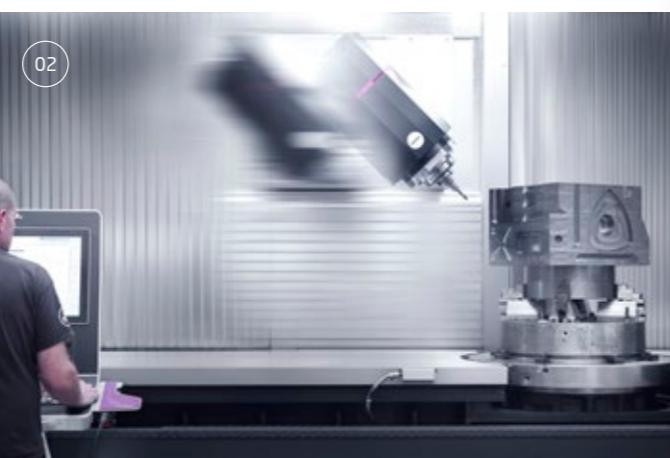
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- [3.1_ Performance](#)
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3.1_ A HIGH PERFORMANCE PLATFORM

DYNAMICS, POWER & ACCURACY

Structural bodies of maximum rigidity optimized by finite elements (FEM). X / Y / Z axes over linear guides with preloaded rolling shoes with two rows of circulating rollers. Rectified ball screws of high precision with preloaded double nuts for the longitudinal axis movement. Geometric verification with direct measurement systems on the 5 machining axes (linear and rotary).

New thermo-symmetrical and thermostable structure design complemented with digital thermal twin models. Thermal compensation system on the electrospindle and heat source isolation.



THERMO-SYMMETRICAL DESIGN
BY IBARMIA



01_

- Maximum stability in the monoblock design of the machine bed. Structural bodies of maximum rigidity for an optimum performance throughout the machine's life cycle.

02_

- High quality guideways for the highest dynamics, accuracy and energy efficient movements. Rectified ball screws and double rack and pinion systems depending on length.

- Standard measuring device on X, Y, Z axes in our machining centers: direct measurement.

03_

- Thermo-symmetrical and thermostable structure design.

04_

- Geometric check and volumetric calibration of the machine by laser interferometer on request, according to ISO 230- 2, -4 and -6.



Z SERIES



ACTIVE
THERMAL CONTROL →
TECHNOLOGY

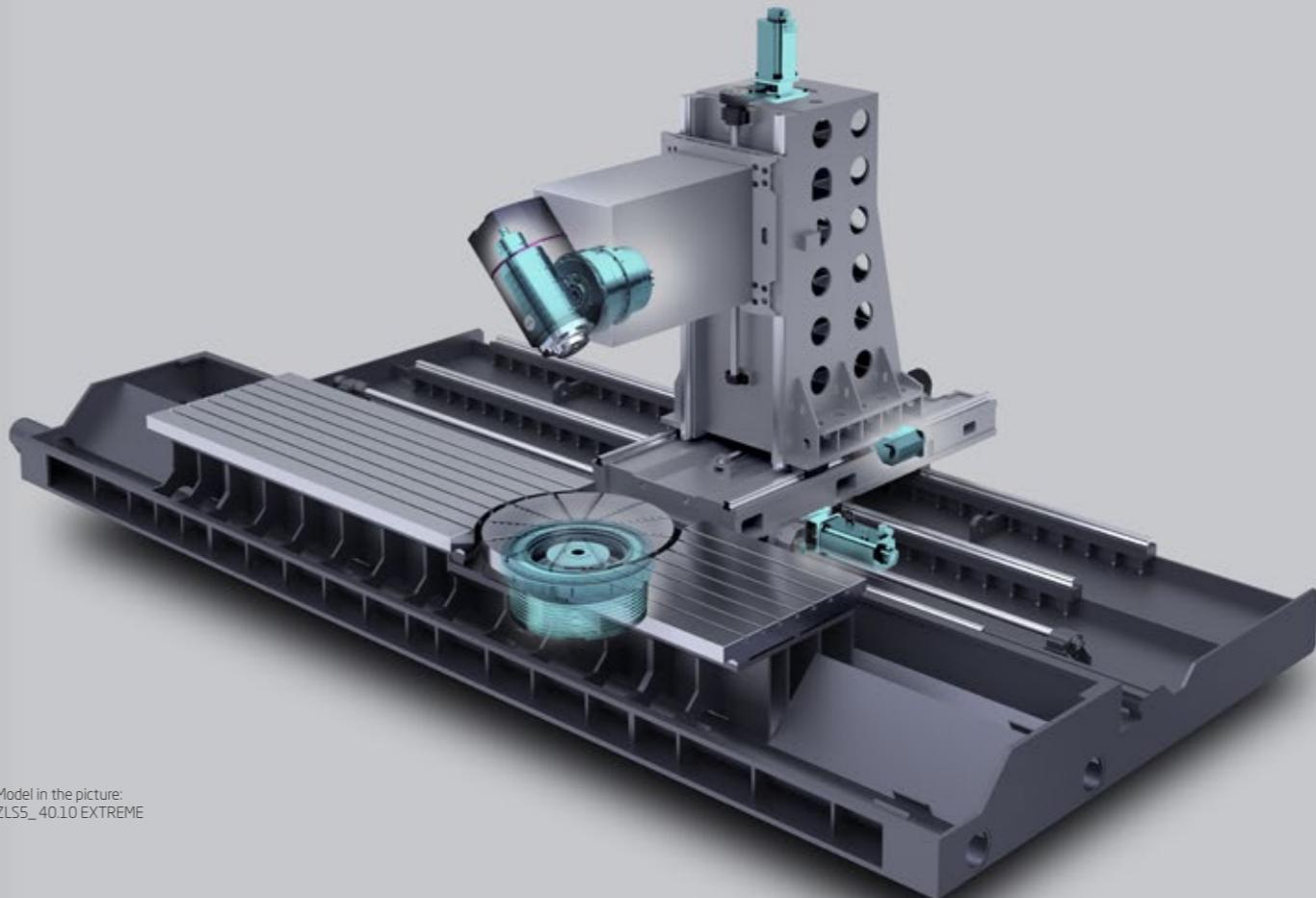
PRECISION PLUS PERFORMANCE CONCEPT

Optional machine manufacturing measures:

- Machine manufacturing in thermo stable assembly area.
- Structural finishing by hand scraping manufacturing.

Integral cooling measures to improve the thermal behaviour of the machine:

- 1_ Spindle head**
 - Spindle.
 - Direct Drive torque motor B axis.
- 2_ Rotary table**
 - Bearing.
 - Direct Drive torque motor.
- 3_ Basic structure**
 - X / Y / Z axis motors.
 - Support motors X / Y / Z axes.
 - Ball screw nut support X / Y / Z axes.
 - Bearing support combined Z axis.
 - Coolant chiller with PID control (optional).



Model in the picture:
ZLS5_40.10 EXTREME

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- [3_Characteristics](#)
- [3.2_Efficiency](#)
- [4_Create your own machine](#)
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IBARMIA ECO DESIGN_

Design by means of FEM method, oriented to the structural optimisation of the machine, which integrates various systems to reduce energy consumption:

- MQL lubrication avoiding pumps, and their consumption.
- Grease lubrication.
- LED lighting.
- High efficiency servomotors.

- Self-regulation of consumption by means of intelligent functions for automatic switch-on and switch-off of the machine.
- Technological cycles for more efficient performance.

20%

REDUCTION
In environmental Impact

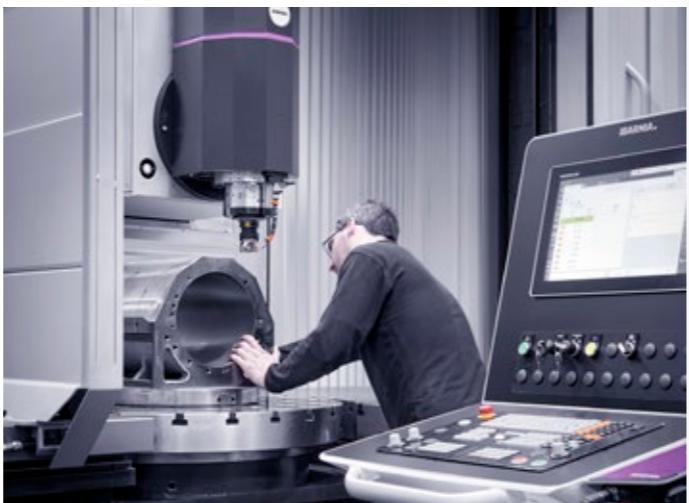
3.2 CONCEIVED FOR A MAXIMUM EFFICIENCY

ECO & ERGO DESIGN

Machines designed with the aim of optimising energy consumption throughout their life cycle; machines conceived for the highest efficiency in the machine-user relationship, which translates into improved accessibility and usability.



"ECOLOGY AND ECONOMY CAN GO HAND-IN-HAND INTEGRATING GREEN PARAMETERS INTO THE MACHINE DESIGN PHASE AND IT'S FUTURE PERFORMANCE"



"A MACHINE CONCEIVED WITH THE OPERATOR IN MIND, IN ORDER TO ACHIEVE THE BEST EFFICIENCY IN OPERATIONS AND ERGONOMICS IN USE"



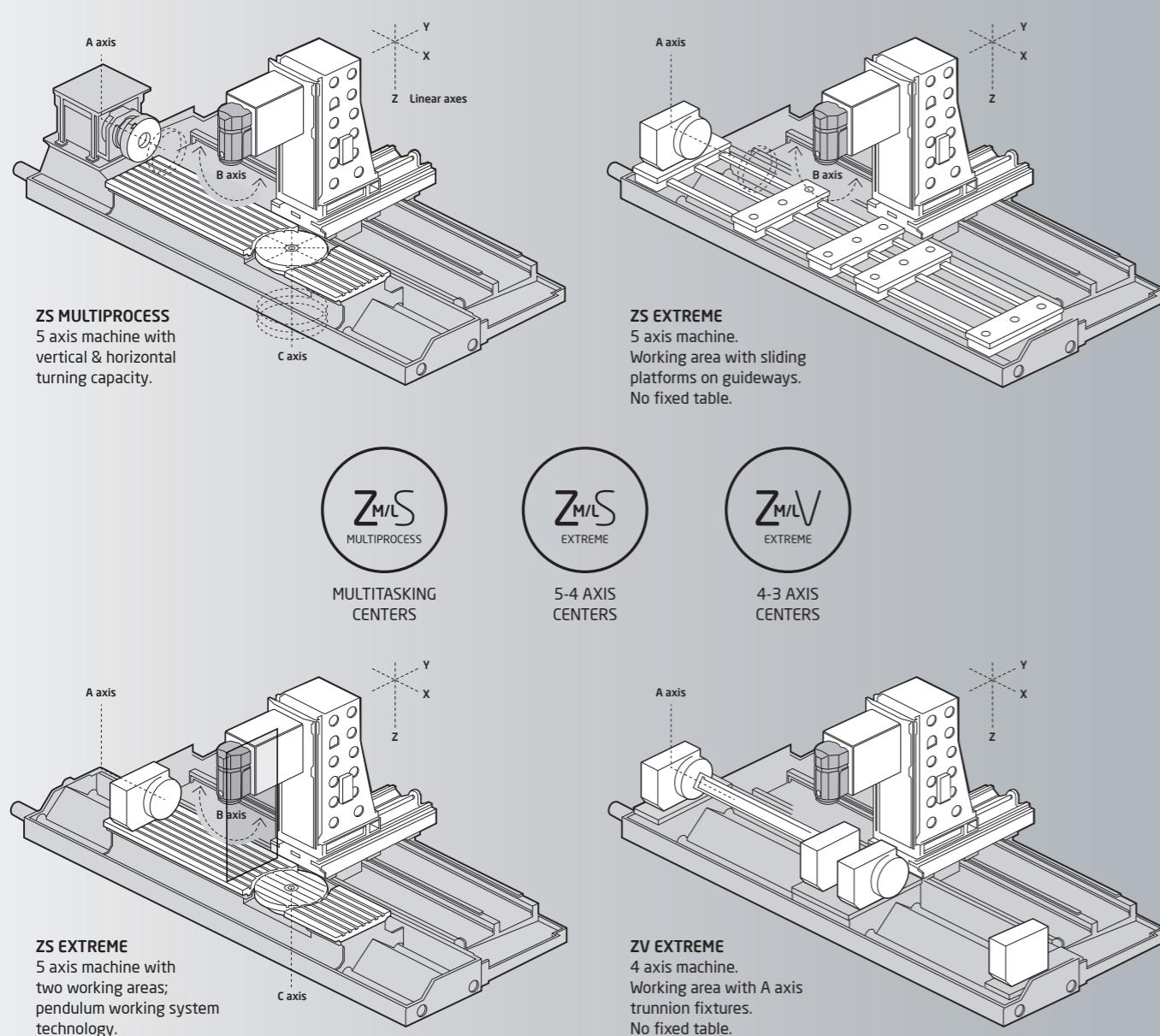
IBARMIA ERGO DESIGN_

A new machine designed for an optimum interaction with the operator

- Now with a lower height of the working table.
- Motorised door opening to avoid physical efforts.
- Openable roof with an ergonomic door design facilitating the loading/unloading of pieces by crane (Standard).
- Loading of extra long pieces through the side panel which is easily removable (Standard).
- An easy top access for loading / unloading parts by crane.
- Well lighted working area without horizontal planes and smooth top for an easier maintenance (Standard).
- Total closing of the working area to reduce the acoustic and environmental contamination.



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Z SERIES

**CREATE
YOUR OWN
MACHINE**

AT YOUR SERVICE | SINCE 1953

IBARMIA ADAPTS THE MACHINE TO YOUR MANUFACTURING
SPECIFIC REQUIREMENTS
maintaining intact the heart of its moving column
and fixed table machine architecture.

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- [2_Application industries](#)
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- [4.1_Advantages](#)
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Z SERIES

4.1_MACHINE CUSTOMIZING ADVANTAGES

HIGHEST FLEXIBILITY

Maximum flexibility, thanks to the unlimited machine configuration possibilities, always on the same machine structure: the proven moving column on fixed table architecture by IBARMIA: a platform from which each client can configure the machine according to their specific production needs.



View this video about the flexibility of Z SERIES Machine Program:

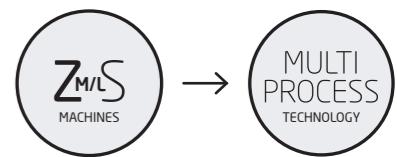
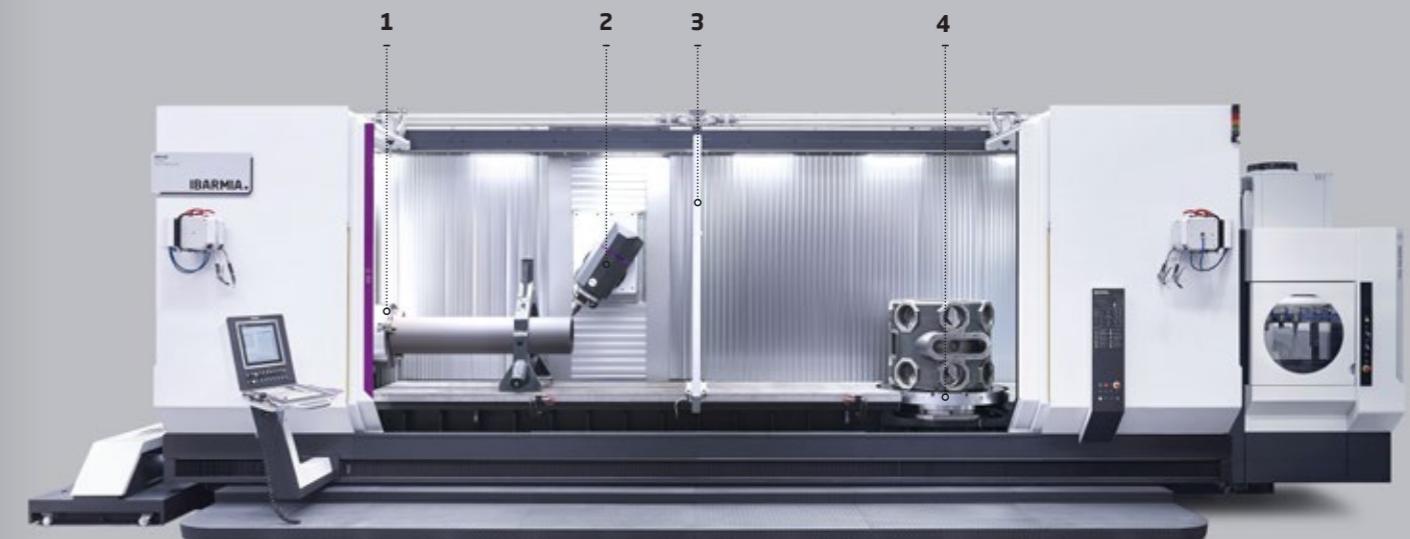


MAXIMUM POLYVALENCE

The high flexibility of the program allows the configuration of what is likely the most versatile machining center in the market; a machine that is a workshop in itself, capable of providing the most effective responses to the increasingly volatile and changing demands of the market.

A WHOLE WORKSHOP IN A SINGLE MACHINE
Integrate vertical and/or horizontal multitasking capacity in one machine. A solution for every requirement without the need to move parts around the factory.

- 1**_A axis turning & milling spindles.
- 2**_B axis torque motor continuous tilting head for milling operations.
- 3**_Two working areas. "Nonstop machining" pendulum system.
- 4**_C axis turning & milling tables.



"IBARMIA Z SERIES; AN UNRIVALLED PROPOSAL IN TERMS OF MACHINE CONFIGURATION POSSIBILITIES"

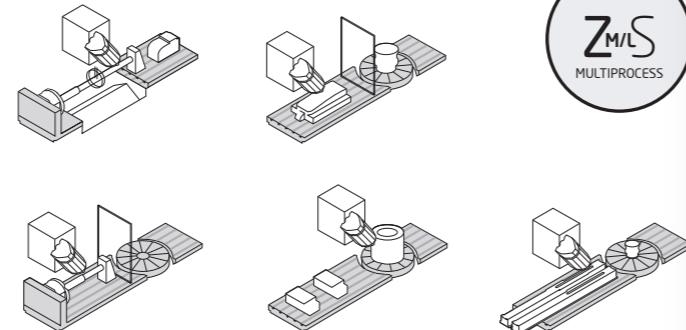
- [1_ Machine Program Summarizing](#)
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Z SERIES

4.2_ MACHINE PERFORMANCE LEVELS (MODELS)

01

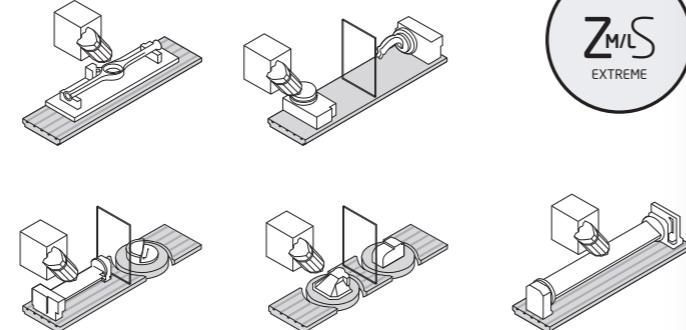


AN UNLIMITED FIELD OF WORK

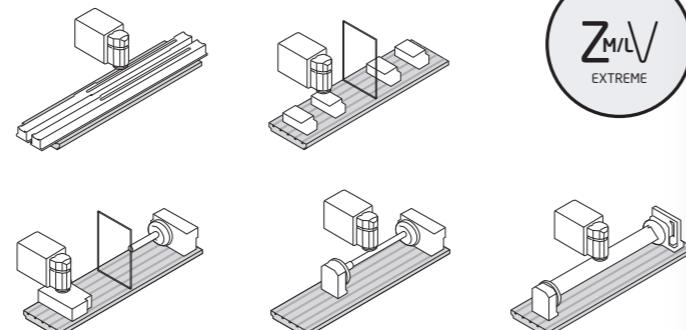
IBARMIA Z SERIES has been conceived to cover the widest range of machining, from 3-axis models to the most advanced multitasking centers that integrate milling and turning capabilities and the most advanced manufacturing technologies.



02



03



DEPENDING ON THE ROTARY AXES CONFIGURATION

THE PROGRAM OFFERS THREE MACHINE PERFORMANCE LEVELS:

ZS MULTIPROCESS / ZS EXTREME / ZV EXTREME,
all of them available in M and L machine sizes.

ZMS - ZLS MULTIPROCESS MULTITASKING MACHINING CENTERS

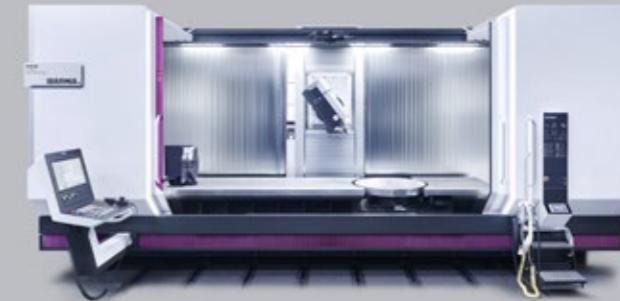
Combine 5 axis milling technology with vertical and/or horizontal turning, grinding and the most advanced gear machining capabilities.



MANUFACTURING
TECHNOLOGY

ZMS - ZLS EXTREME 5-AXIS MACHINING CENTERS

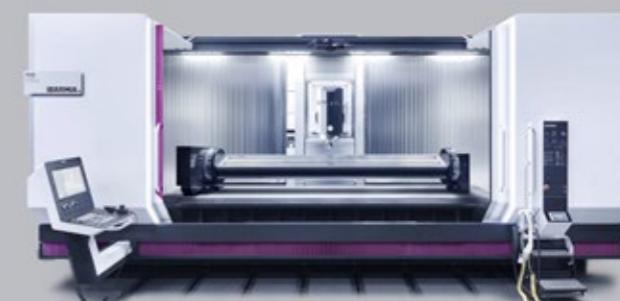
Combine up to 5 axis milling capacity with the large range of working area configuration possibilities so you will be ready for any job at the shortest notice.



MANUFACTURING
TECHNOLOGY

ZMV - ZLV EXTREME 3 / 4-AXIS MACHINING CENTERS

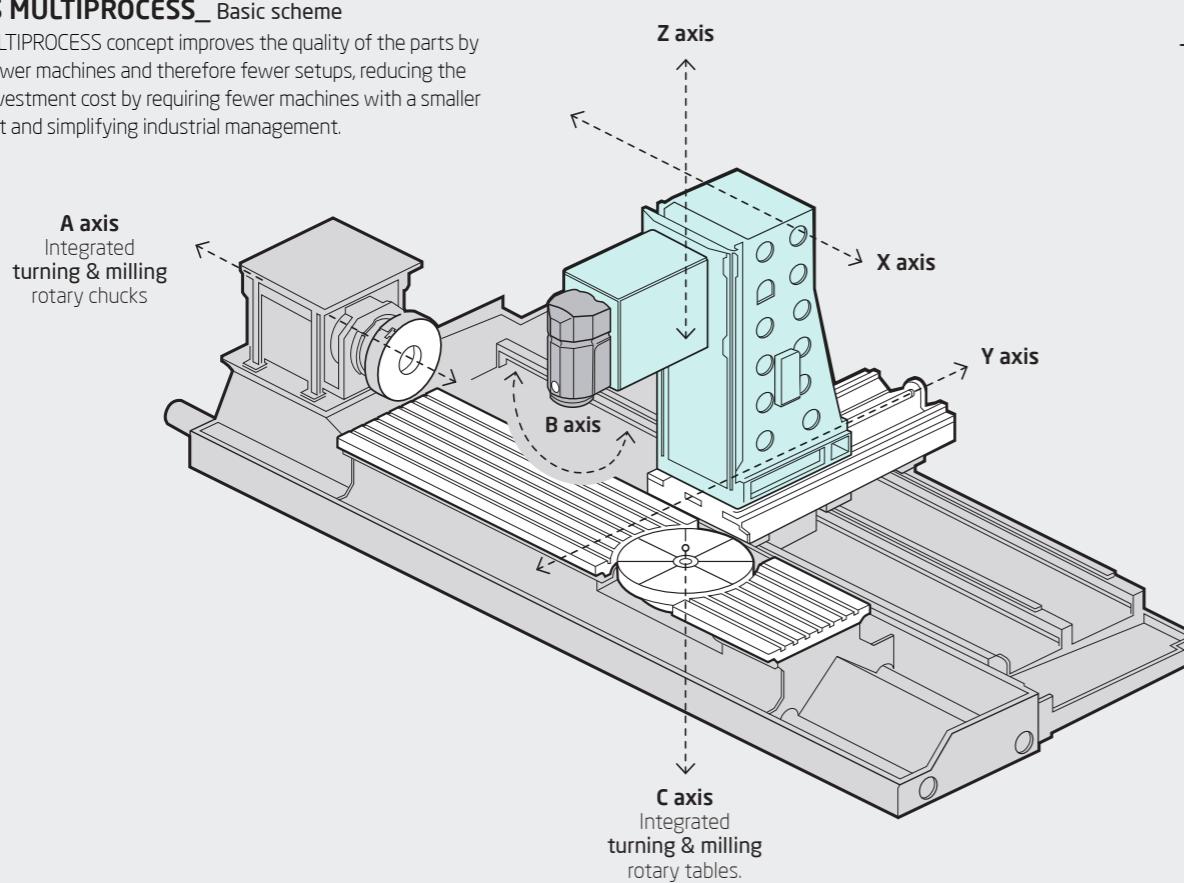
3 axis models or in combination with horizontal rotary tables, to reach the highest productivity.



MANUFACTURING
TECHNOLOGY

ZM/LS MULTIPROCESS Basic scheme

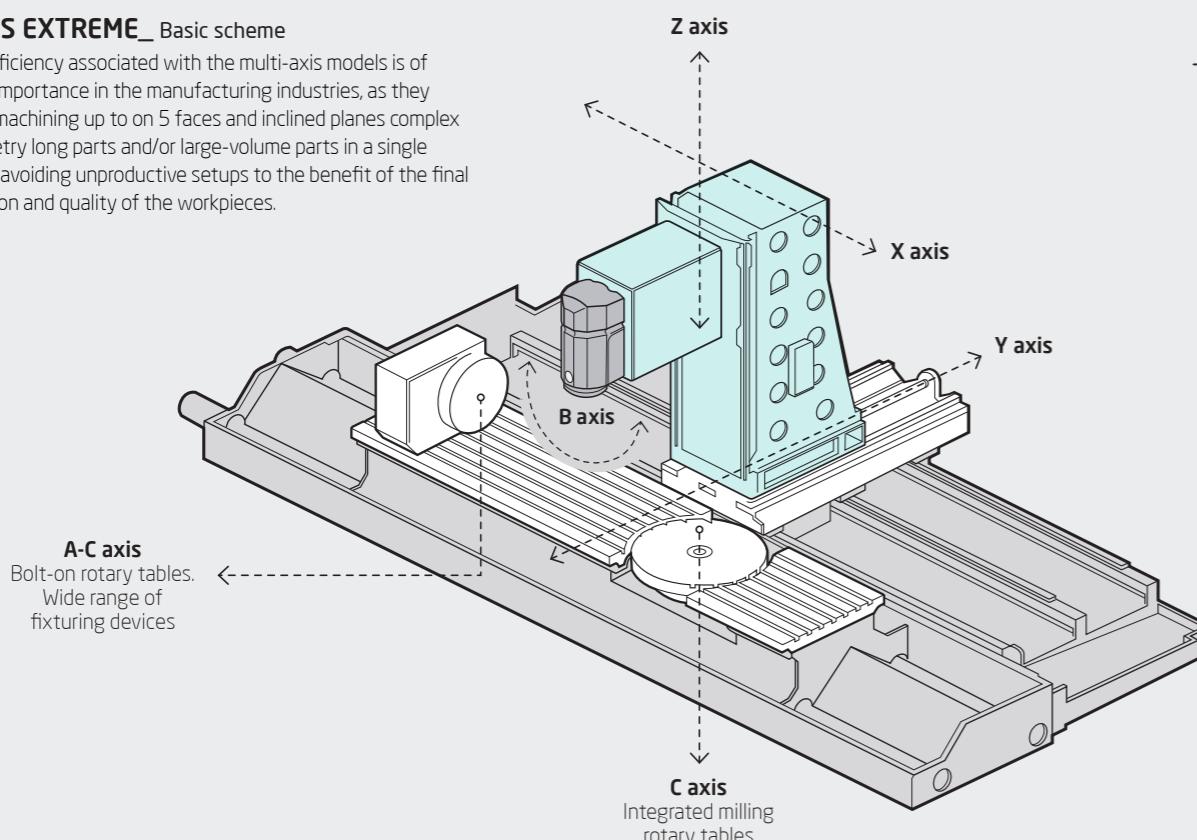
The MULTIPROCESS concept improves the quality of the parts by using fewer machines and therefore fewer setups, reducing the initial investment cost by requiring fewer machines with a smaller footprint and simplifying industrial management.



—1

ZM/LS EXTREME Basic scheme

The efficiency associated with the multi-axis models is of great importance in the manufacturing industries, as they allow machining up to on 5 faces and inclined planes complex geometry long parts and/or large-volume parts in a single setup, avoiding unproductive setups to the benefit of the final precision and quality of the workpieces.



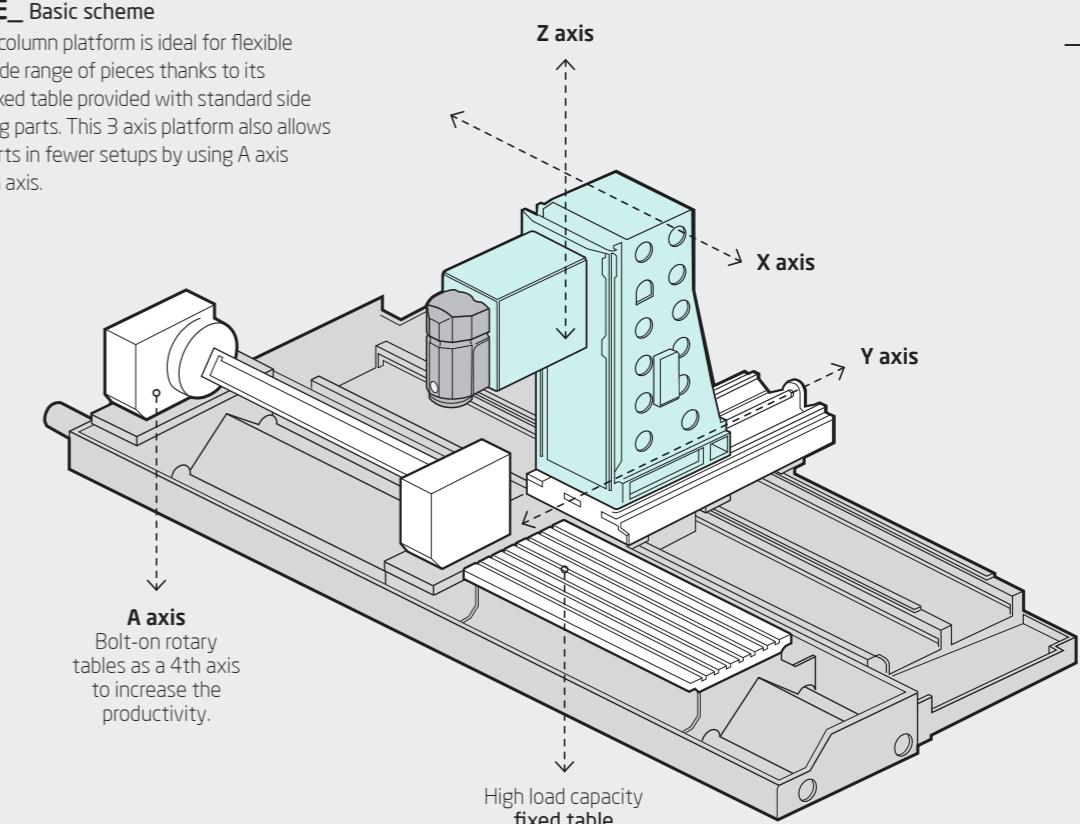
—2

ZM/LV EXTREME Basic scheme

The IBARMIA moving-column platform is ideal for flexible manufacturing of a wide range of pieces thanks to its heavy load capacity fixed table provided with standard side windows for extra-long parts. This 3 axis platform also allows machining complex parts in fewer setups by using A axis rotary tables as fourth axis.



Fixed distance
monoblock
column design



—3

AXES CONFIGURATION



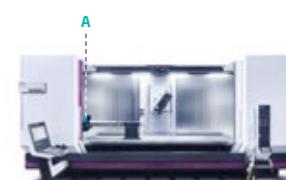
ZS MULTIPROCESS
Linear axes / B axis head /
A-C turning & milling axes



—1



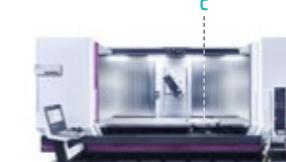
C axis
Turning & 5 axis milling capacity



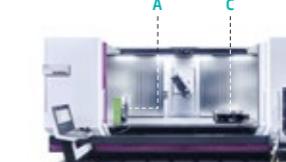
A axis
Turning & 5 axis milling capacity



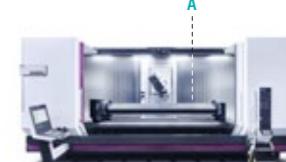
ZS EXTREME
Linear axes / B axis head /
A-C milling axes



—2



A-C axis
Bolt-on rotary tables
5 axis milling capacity



A axis
Trunnion fixtures
5 axis milling capacity



ZV EXTREME
Linear axes / A milling axis



—3



A axis
Trunnion fixtures
4 axis milling capacity

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4.3_ MACHINE CONFIGURATION

YOUR MACHINE, A LA CARTE

IBARMIA offers the largest configuration catalogue in the market to define the best solution in any production industries.

“MORE THAN 900 CONFIGURATION OPTIONS
MAKE Z SERIES THE OPTIMAL PLATFORM TO FIND THE BEST SOLUTION FOR ALMOST ANY MANUFACTURING REQUIREMENTS”

Let's look at it in detail.

AUTOMATION_ PARTS LOADING UNLOADING CONFIGURATION

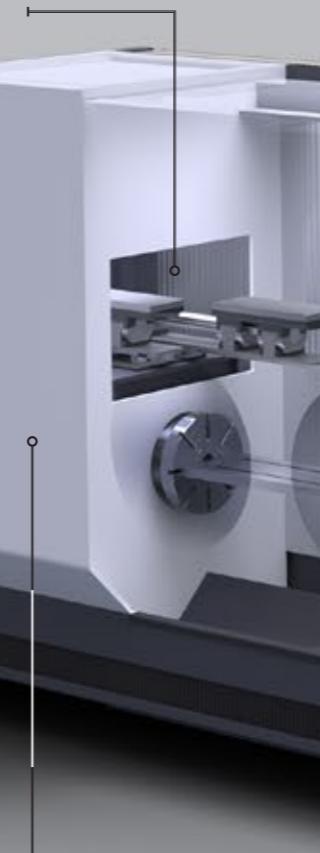
P36



BEYOND THE LIMITS
SINGULAR
CONFIGURATION
MACHINES
P38

SPECIAL TOOLS AND HEADS MANAGEMENT CONFIGURATION

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MACHINE SIZE
CONFIGURATION
P22

ROTARY AXES CONFIGURATION

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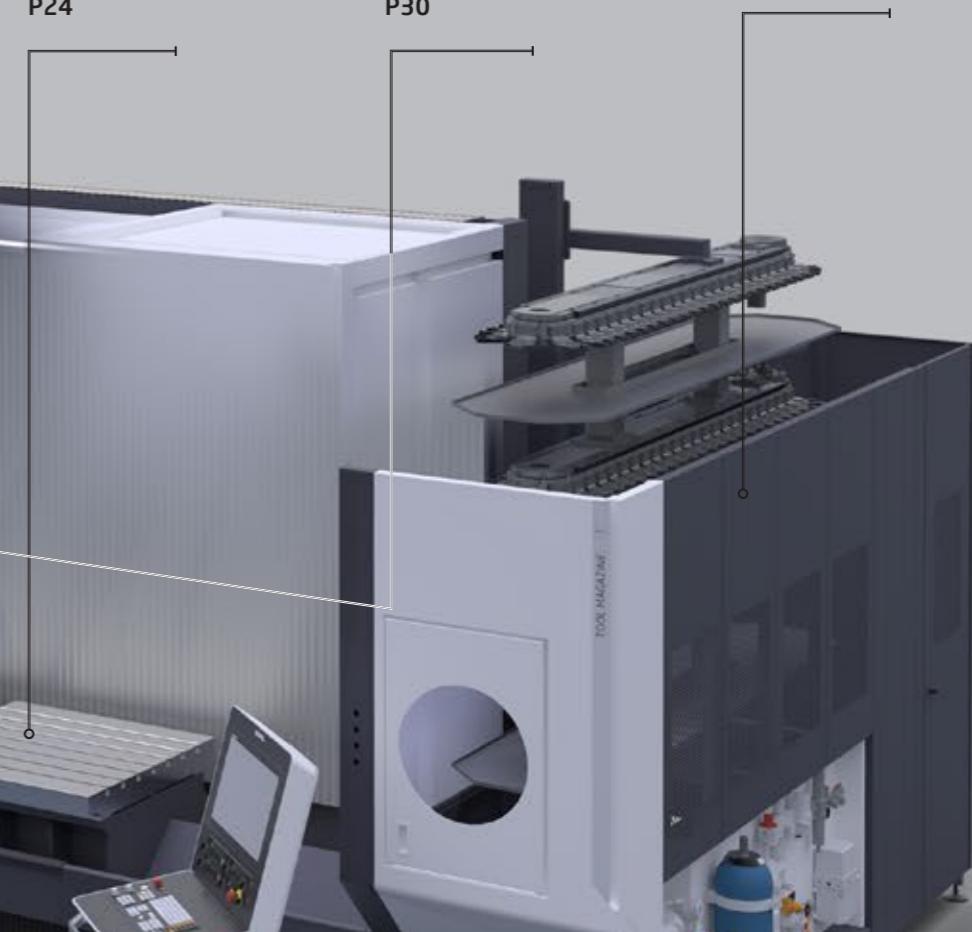
FIXED TABLE / WORKING AREA CONFIGURATION

P24



CONFIGURATIONS REPLACING THE FIXED TABLE

P30



TOOL MAGAZINES CONFIGURATION

P35



Z SERIES

01

CHOOSE THE MACHINE SIZE

IBARMIA ADAPTS THE MACHINE STRUCTURE TO ANY PART AND ANY PROCESS, DEPENDING ON THE CUSTOMERS MACHINING REQUIREMENTS.

MACHINE SIZE CONFIGURATION



**Up to 20.000 rpm high-performance spindles
40% more powerful.**

M machine size can integrate both SK 40 and SK 50 type spindles (view on page 50) and is available up to 12.000 mm in longitudinal axis. It offers two transversal travels: 800 mm / 1000 mm, configuring by this way ZM 08 and ZM 10 models, and two vertical travels: 800 mm / 900 mm.

M SIZE MACHINE
STRUCTURE
DESIGNED FOR
**HIGH SPEED
MACHINING**



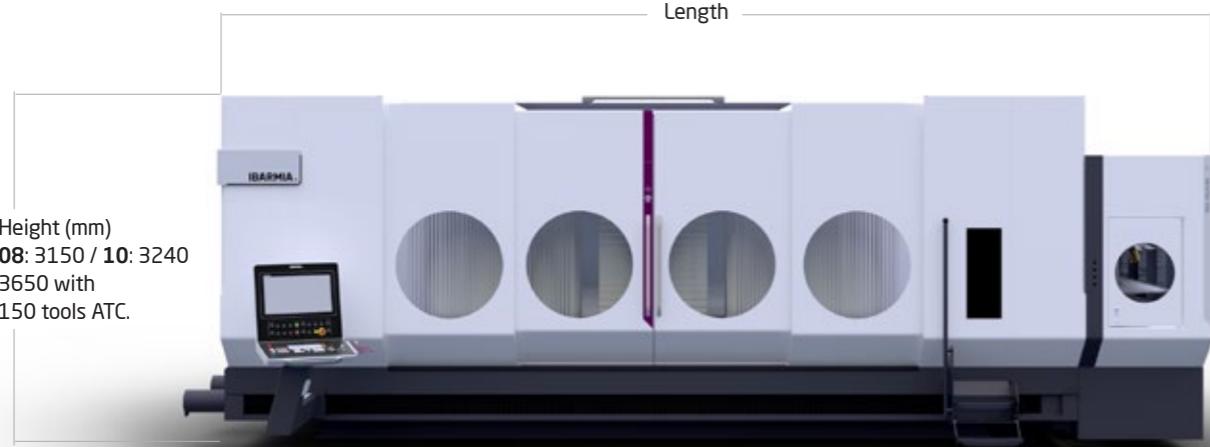
SIZE

MACHINE STRUCTURE

SK 40 type spindles up to:
50 kW • 200 Nm • 12.000 rpm
Higher speeds on request, up to 15.000 and 20.000 rpm
SK 50 type spindles up to:
43 kW • 260 Nm • 8000 rpm

From 1500 mm to 12.000 mm in longitudinal axis

Length



Height (mm)
08: 3150 / 10: 3240
3650 with
150 tools ATC



Z SERIES



A large structure to support extra-powerful spindles and heavy loads for the most demanding sectors.

L machine size can integrate both SK 40 and SK 50 type spindles (view on page 50) and is available up to 12.000 mm in longitudinal axis. It offers three transversal travels: 800 mm / 1000 mm / 1100 mm, configuring by this way ZL 08, ZL 10 and ZL 11 models, and two vertical travels: 1100 mm / 1300 mm.

L SIZE MACHINE
STRUCTURE
DESIGNED FOR
**SUPER POWER
MACHINING**



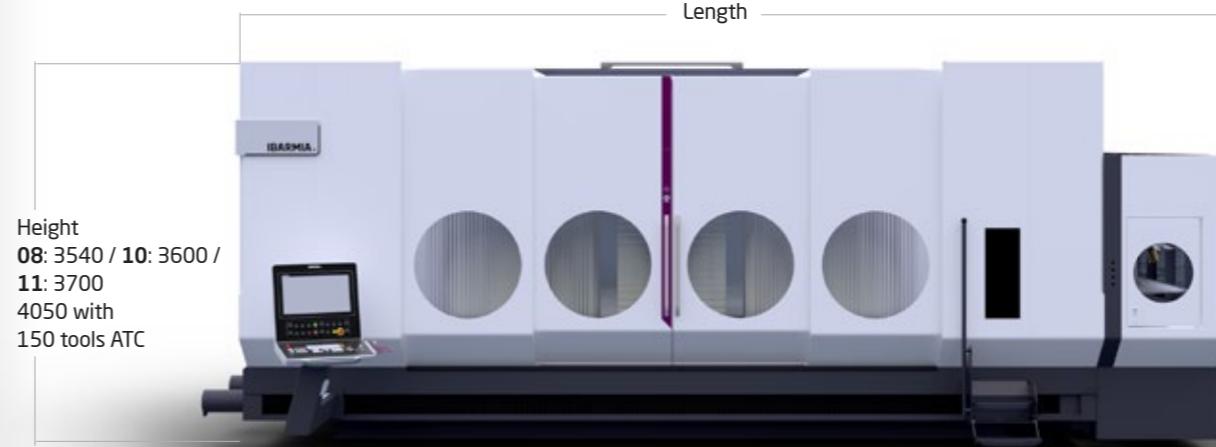
SIZE

MACHINE STRUCTURE

SK 50 type spindles up to:
84 kW • 452 Nm • 12.000 rpm
Higher torque spindles on request.

From 3000 mm to 12.000 mm in longitudinal axis

Length



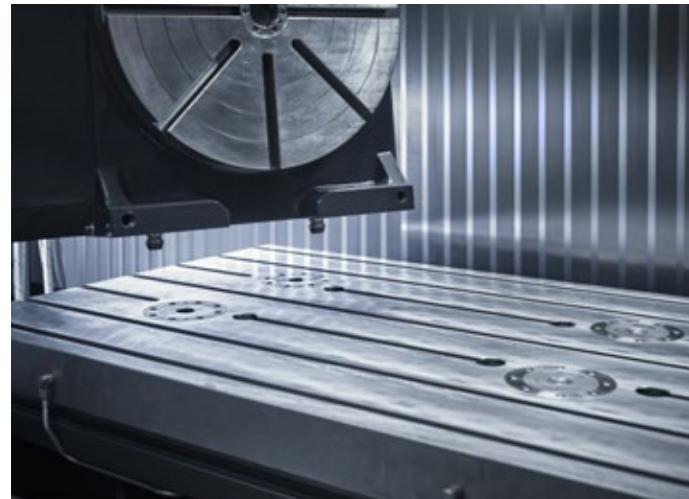
Height
08: 3540 / 10: 3600 /
11: 3700
4050 with
150 tools ATC

02

TAKE FULL ADVANTAGE OF THE FIXED TABLE

STARTING AT THE BEGINNING, THE FIXED TABLE STANDARD ARCHITECTURE OFFERS MULTIPLE CONFIGURATION POSSIBILITIES TO CUSTOMIZE THE MACHINE TO ALMOST ANY MANUFACTURING REQUIREMENT.

FIXED TABLE & WORKING AREA CONFIGURATION



Customize the fixed table
Integrating Zero Points
for a quick change-over of
several elements.



Customize the fixed table
with hydraulic connections for
automatic clamping devices.



Customize the fixed table
By a threaded vacuum
clamping system, suitable
for not magnetic materials.



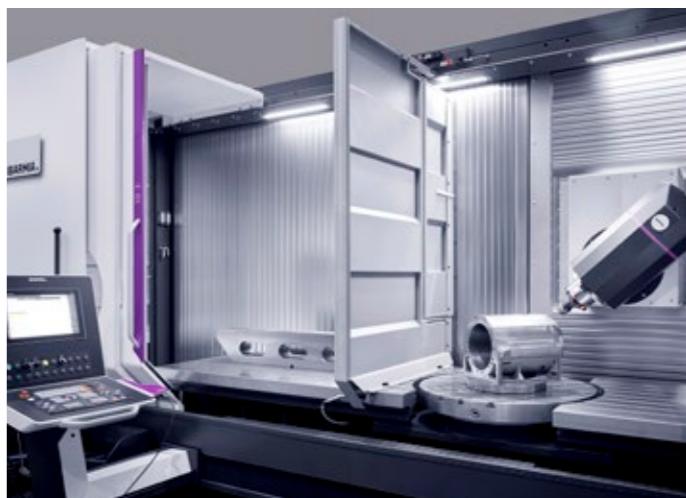
Customize the fixed table
with magnetic clamping
systems for a direct positioning
of parts and/or devices.



Complete the fixed table
configuration by integrating a
wide range of devices as steady
rests, tailstocks, bolt-on rotary
tables or supports...



Customize the working area
by mixed beds, a configuration
that offers a wide range of
possibilities for different
horizontal machining operations.



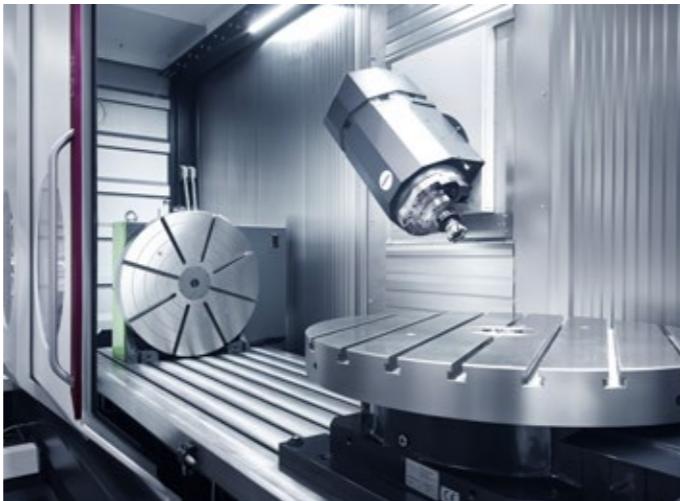
Customize the working area
and increase your productivity
by obtaining two machines in
one thanks to the NSM; "Nonstop
machining" option with a central
division wall, independent blocking
of front doors, and pendulum cycle
working software.

03

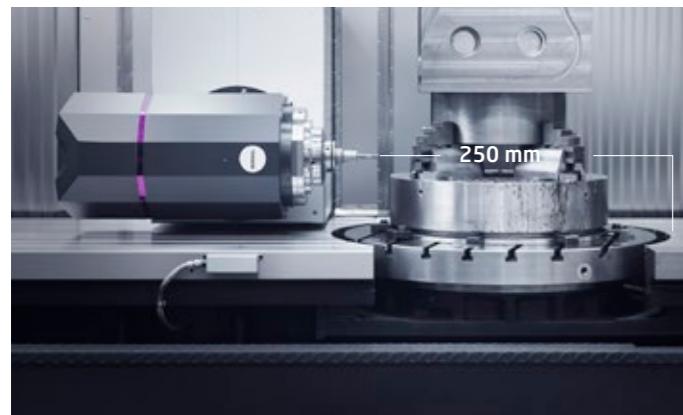
TOWARDS ADVANCED MACHINING

THANKS TO THE INTEGRATION OF ROTARY AXES, THE Z SERIES PROGRAM REACHES THE MAXIMUM PERFORMANCE IN THE MACHINING OF COMPLEX PARTS IN A WIDE RANGE OF SHAPES AND MATERIALS.

ROTARY AXES CONFIGURATION



BOLT-ON ROTARY TABLES Integrate the 5th axis with these devices able to be used either in A-C horizontal or vertical axis. The program offers a wide range of bolt-on rotary tables up to Ø800 mm and Ø1500 mm swing.

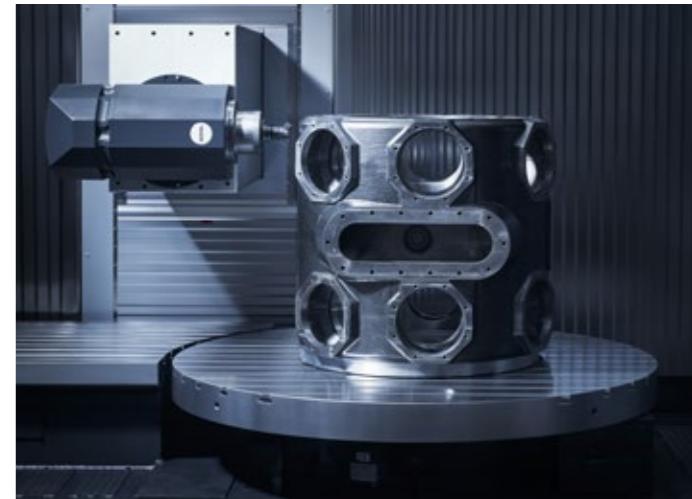


B AXIS SPINDLE HEAD The "S" headstock is the heart of Z SERIES program and provides the 4th axis at the tool tip. This new generation continuous tilting head with torque motor, maintains its extraordinary dynamics and accuracy characteristics intact while its travels have been optimized at maximum. **Tilting range: +/-120°**

A AXIS TRUNNION FIXTURES The trunnion is a fixture turning around an A axis by using a bolt-on rotary table with a rotary support (know more about trunnion systems on pages 31-33).



C AXIS INTEGRATED ROTARY TABLES milling rotary tables fully covering the Y axis for 5 axis / 5 faces machining operations. Up to 25 rpm / Ø1500 mm swing / 3500 kg. Combine these rotary tables according to your machining requirements.



BIG DIAMETER C AXIS INTEGRATED ROTARY TABLES All the advantages of the moving-column design adapted to bigger diameters and heavier loads.

Swing increases:

- ZMS 08/10: Ø1100 to Ø1600 mm
- ZLS 10: Ø1400 to Ø2000 mm
- ZLS 11: Ø1500 to Ø2200 mm



ADD VERTICAL TURNING CAPACITY Into these integrated C axis rotary tables. **C axis turning & milling rotary tables** up to Ø1200 mm / 6000 kg / 500 rpm / 83 kW / 4000 Nm.



ADD HORIZONTAL TURNING & MILLING CAPACITY **A axis turning & milling rotary tables** up to Ø380 mm / 3000 kg with tailstock / 1800 rpm / 78 kW / 1400 Nm. (For internal turning view on page 34).

INCREASE YOUR MACHINING CAPACITIES by using both horizontal and vertical turning & milling axes in the most advanced gear machining operations. (view on page 49).

FIXED TABLE & ROTARY AXES: An unlimited field of work



Fixed table with hydraulic connections.



Threaded fixed table for no magnetic materials.



Fixed table with magnetic clamping system.



Integrate a wide range of fixturing devices.

* ZV / ZS MODELS



A axis Trunnion fixtures on fixed table by using A-C axis bolt-on rotary tables.

ZS MODELS →



A-C axis bolt-on rotary tables for machining up to 5 axis / 5 faces.



C axis integrated rotary tables for vertical 5 axis milling and turning operations.



A axis integrated rotary tables for horizontal 5 axis milling and turning operations.

FIXED TABLE CONFIGURATION POSSIBILITIES AVAILABLE FOR ALL Z SERIES MODELS



Standard fixed table with T-slots
A wide range of working area lengths available:
1500 / 3000 / **4000** / 5000 / 6000 / 7000 / 8000 /
9000 / 10.000 / 11.000 / 12.000 mm.

ROTARY AXES CONFIGURATION POSSIBILITIES AVAILABLE FOR ALL Z SERIES MODELS*



Combine the B axis continuous tilting head (+/-120°) with the wide range of rotary tables available for machining up to 5 faces / 5 axis.



04

REPLACING THE FIXED TABLE

THE PROGRAM OFFERS SPECIFIC SOLUTIONS TO TAKE FULL ADVANTAGE OF MOVING-COLUMN ARCHITECTURE CHARACTERISTICS.

SOLUTIONS ADJUSTABLE TO
VARIOUS PIECE LENGTHS
AVAILABLE FOR ALL
Z SERIES MODELS

MOVING SUPPORTS

The moving support systems allow the easy moving of the different clamping devices for a quick preparation of short series of pieces with different lengths.

1_Sliding platforms on guideways
This system makes it possible to adapt the position of all elements such as bolt in rotary tables, tailstocks, steady rests, vices and other fixturing devices to adapt to the different part lengths and reducing set up times drastically. These moving tables can also be used as "tool following steady rests" to machine long parts faster with better quality. Integrating Zero Points, the system allows quickly interchange vices, steady rests, tailstocks, etc. on the table, saving much time during the production process.

2_Servo-driven moving supports
With the same purpose, IBARMIA also offers servo-driven moving tables with telescopic covers, focused on horizontal multitasking machining.



Z SERIES

SOLUTIONS FOR INCREASE THE
PRODUCTIVITY
AVAILABLE FOR ALL
Z SERIES MODELS

TRUNNION FIXTURES

The trunnion consists of a fixture that turns around an A axis by using a rotary table with a support (motor-support), or 2 rotary tables (double motor system). Thanks to this trunnion fixture, IBARMIA offers the possibility of machining 1, 2, 3 or 4 faces, with a smooth surface with clamping holes, T-slots, and the possibility of integrating Zero Points or magnetic / hydraulic / pneumatic clamping systems, which facilitates the automation of the part change.



Depending on the longitudinal travel of the machine, one or two trunnion can be integrated for pendulum cycle work. It also includes a plate between the two central rotary tables, connecting the fixtures on both sides to change from a double to a single workstation.



TRUNNION FIXTURES SUMARIZING

"A CUSTOM SOLUTION THAT IBARMIA HAS BEEN WORKING FOR MANY YEARS WHICH IS PERFECTLY INTEGRATED INTO MOVING-COLUMN ARCHITECTURE"

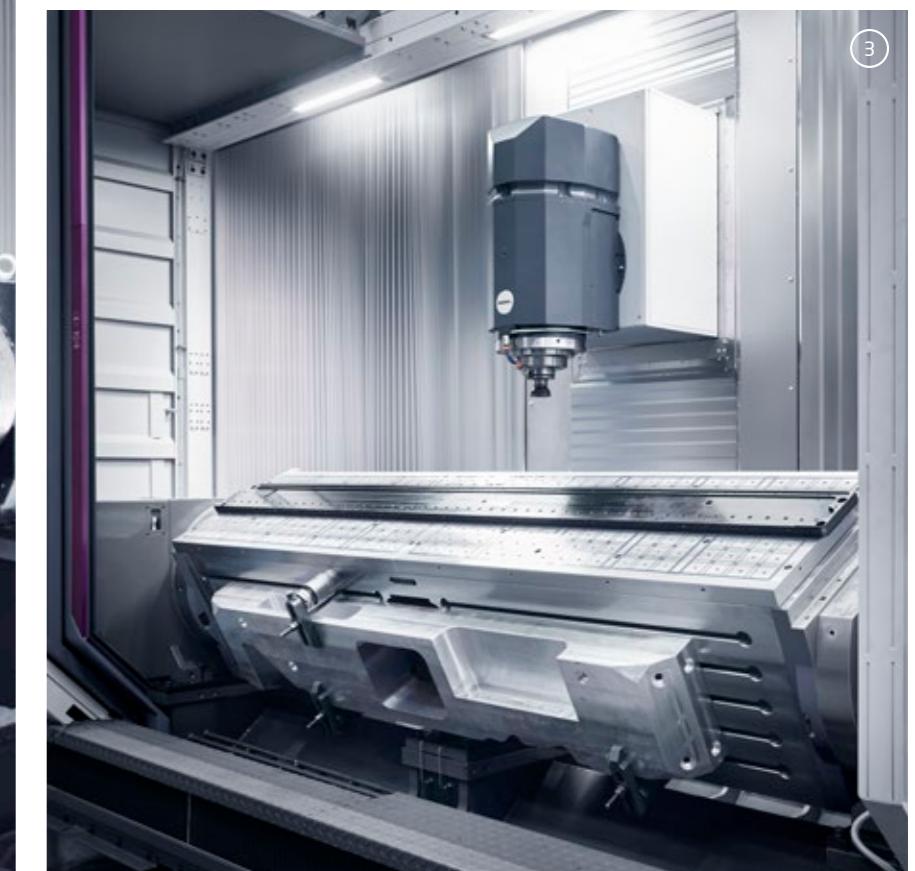
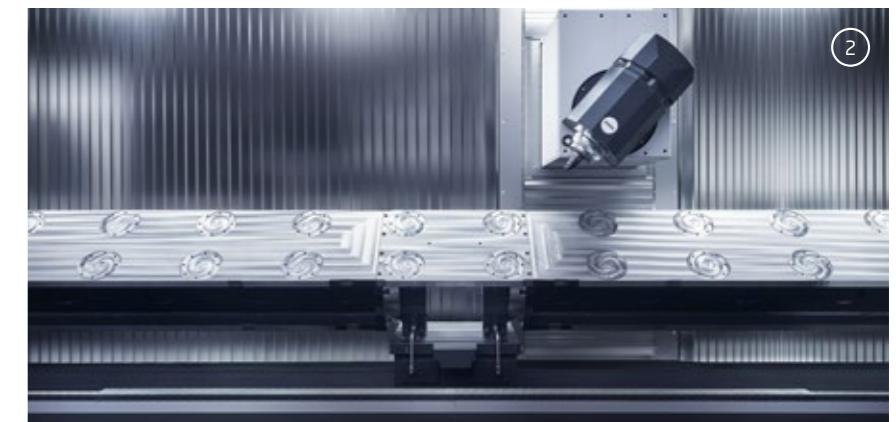
SOLUTIONS FOR INCREASE THE PRODUCTIVITY
AVAILABLE FOR ALL Z SERIES MODELS



1_Four faces single trunnion with double motor for stainless steel profiles manufacturing, integrating two by two faces: a customized clamping system and t-slots.

2_Two faces single/double trunnion (with a plate between the two central rotary tables) integrating Zero Points, for aeronautics structural long parts manufacturing.

3_Four faces single/double trunnion with double motor, integrating different clamping systems depending on the trunnion face (t-slots, magnetic...) and focused on machinery long components manufacturing.



One face single trunnion
on the fixed table.



Two faces double trunnion
replacing the fixed table.



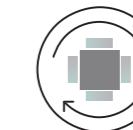
Four faces single trunnion
replacing the fixed table.



01



02



03

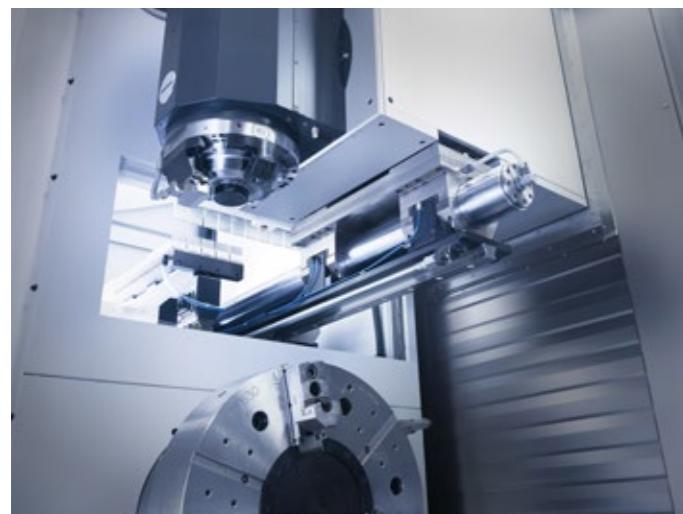
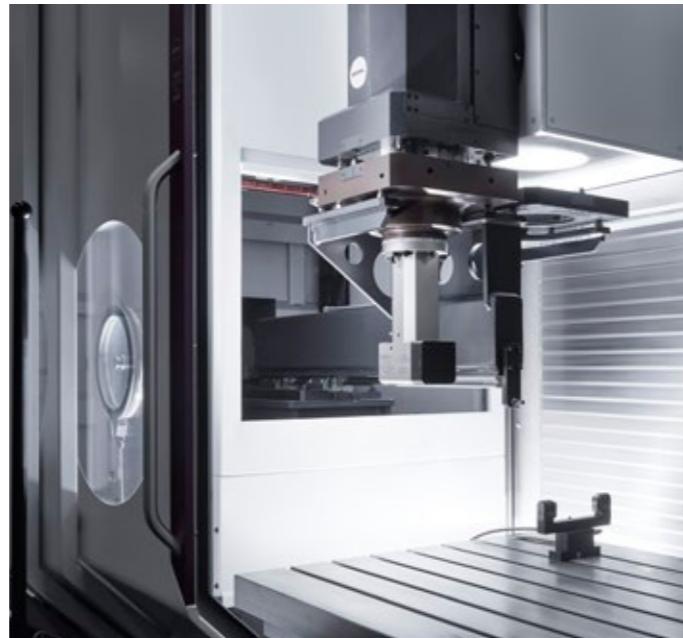
05

A WHOLE WORKSHOP IN A SINGLE MACHINE
THAT CAN INTEGRATE SINGULAR PICK UP STATIONS
IN DIFFERENT CONFIGURATIONS, TO MANAGE SPECIAL HEADS
AND TOOLS AS THE FOLLOWING:

SPECIAL HEADS AND TOOLS MANAGEMENT



IBARMIA adapt the B axis head to hold special heads which can be automatically managed by pick-up stations integrated in the machine.



Likewise, in the case of MULTIPROCESS models with A axis turning & milling capacity, the machine can integrate an automatic changer for LBB.



These extraordinarily rigid long boring bars give the machine the capacity to perform internal turning operations.

06

UNIVERSAL AND BIG PLUS FRIENDLY TOOL MAGAZINES
WITHOUT TAPER RESTRICTIONS:
A KEY ELEMENT IN THIS NEW GENERATION MACHINES.

TOOL MAGAZINES CONFIGURATION

CHAIN SYSTEM STANDARD ATC
Modular solution up to 150 tools without taper restrictions located at the right side of the machine.



Universal & big plus friendly
M machine size & SK 40 spindle
50 / 100 / 150 tools option
M machine size & SK 50 spindle
50 / 100 tools option
L machine size & SK 40 spindle
50 / 100 / 150 tools option
L machine size & SK 50 spindle
50 / 100 / 150 tools option
Maximum tool SK 40 type spindle
L 350 mm / 10 kg / ø100-150* mm
Maximum tool SK 50 type spindle
L 400 mm / 20 kg / ø125-200* mm

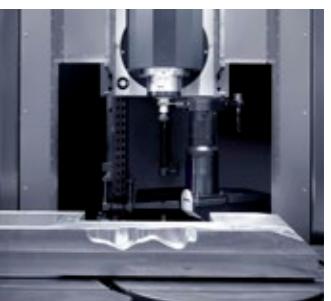


*Tool max. diameters for full magazine and magazine with free spaces.

POLAR TYPE OPTIONAL ATC
Specific solution for customers that need to manage a high number of tools, located at the right side of the machine.



Big plus friendly
M machine size & SK 40 spindle
220 tools option
M machine size & SK 50 spindle
134 / 255 tools option
L machine size & SK 40 spindle
220 tools option
L machine size & SK 50 spindle
255 tools option
Maximum tool SK 40 type spindle
L 350 mm / 10 kg / ø100-150* mm
Maximum tool SK 50 type spindle
L 400 mm / 20 kg / ø125-200* mm



*Tool max. diameters for full magazine and magazine with free spaces.



This new ATC system design increases the productivity and machine efficiency allowing risk-free changes outside the working area, loading / unloading the magazine while the machine is running and an easy access to the machine all maintenance elements.



07

REACHING THE MAXIMUM PRODUCTIVITY

IBARMIA ANSWERS THE CHALLENGE OF MAKING THE MACHINES WORK FOR AS MANY HOURS AS POSSIBLE OR EVEN UNATTENDED.

AUTOMATIC PARTS LOADING / UNLOADING CONFIGURATION

LATERAL LOADING / UNLOADING

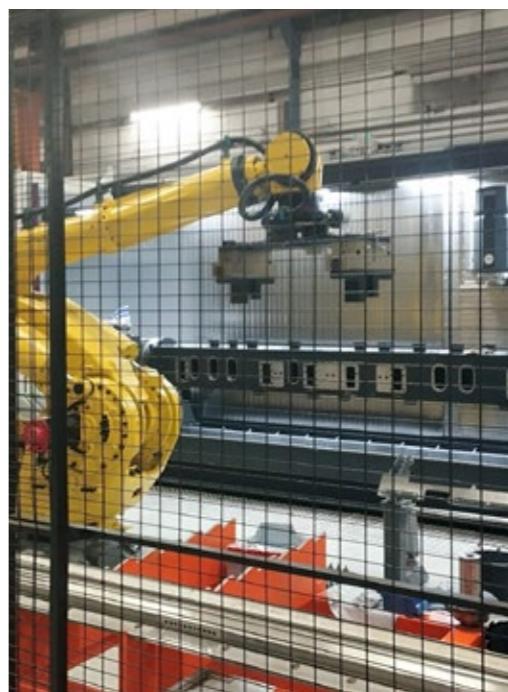
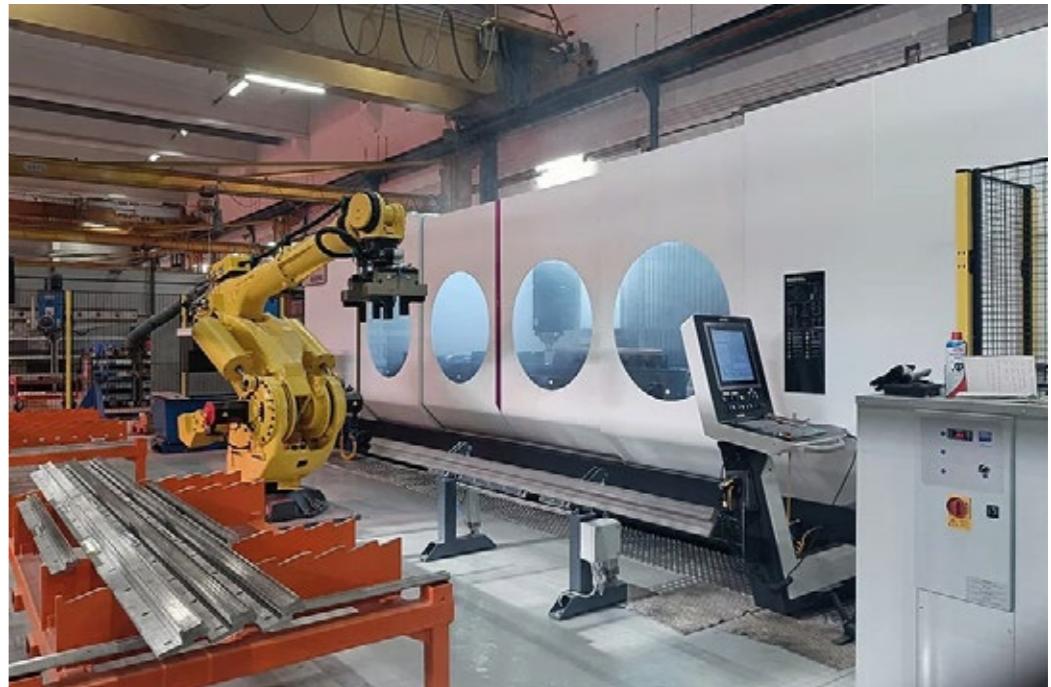
IBARMIA offers various pallet configurations from standard static stations to manual or automatic rotary stations, offering different automation levels depending on requirements.

- Maximum Load Capacity: Up to 300 kg (part + tooling + pallet), ideal for bulky or heavy parts.
- Number of Pallets: Configurations of 4, 6, or 8 pallets, depending on production requirements.
- Pallet Dimensions: Multiple options between 320x320 mm and 500x500 mm.
- Maximum Part Height and Diameter: Supports parts up to 400 mm in height and a maximum diameter of Ø650 mm.



FRONTAL LOADING / UNLOADING

The weight and length of parts are determining factors when configuring automatic loading / unloading systems. Therefore, to overcome the limitations of the lateral loading, IBARMIA offers the possibility of integrating front-loading / unloading systems by using robot arms, for the configuration of the most advanced autonomous production cells where the only limit is which customer's production requirements establish.



08

BEYOND THE LIMITS

IBARMIA ADAPTS THE MOVING-COLUMN ARCHITECTURE TO DESIGN AND PRODUCE UNIQUE MACHINES, ACCORDING TO THE MOST SPECIFIC MANUFACTURING NEEDS.

MACHINE SINGULAR CONFIGURATIONS EXAMPLES

ZLS5_15.08 MULTIPROCESS

This multitasking machine, designed for train wheels manufacturing, shows that there are no limits for IBARMIA's moving column architecture: With only 1500 mm longitudinal travel, it features a powerful B axis milling head in a singular working area where the standard fixed table has been replaced with a high-performance turning rotary table up to 500 rpm and $\varnothing 1500$ mm swing for parts up to 6000 kg.

Main singular characteristics:

- Turning & milling rotary table replacing the fixed table.
- Reduced linear axes adapted to machine specific design.



"SO DIFFERENT AND SO EQUAL, THESE HIGHLY SPECIFIC MACHINES HAVE BEEN DESIGNED MAINTAINING THE HEART OF MOVING-COLUMN STRUCTURE INTACT"

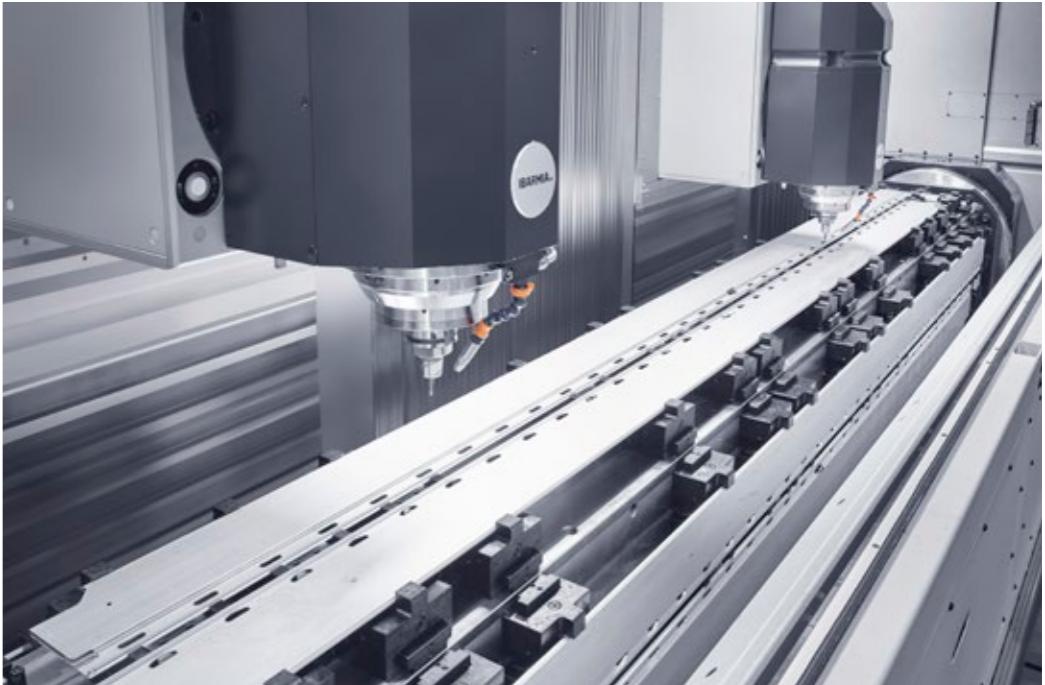


ZLV4_79.06 EXTREME

This machine, designed for machinery long components manufacturing, features two independent vertical heads with high-performance synchronous electrospindles up to 20.000 rpm and 60 kW power. The extended axis travel up to 7.900 mm provides exceptional flexibility for machining large components. Featuring a dual trunnion system, this model can machine one part while preparing another, eliminating downtime and ensuring continuous workflow.

Main singular characteristics:

- Dual head / column configuration.
- Four faces dual trunnion fixture.
- Two independent working areas with vertical opening special doors.
- Extended linear axes adapted to customer requirements.



- [1_Machine Program Summarizing](#)
- [2_Application industries](#)
- [3_Characteristics](#)
- [4_Create your own machine](#)
- [4.4_Machine basic equipment summary](#)
- [5_Star Edition](#)
- [6_Technological integration](#)
- [7_Technical specifications](#)



Z SERIES

3.3 MACHINE EQUIPMENT SUMMARIZING

MACHINE BASIC ITEMS SUMMARY AS A GENERAL VIEW

The high level of the machine equipment makes to these models focused on high flexible response in advanced manufacturing a reference in terms of adaptability and immediate performance.



Illuminated working area.
Working area without horizontal planes and smooth top.
(Standard).



Standard convertible roof for an easy loading/unloading of parts by crane. (Standard).



Loading of extra long parts through the side paneling which is easily removable. (Standard).

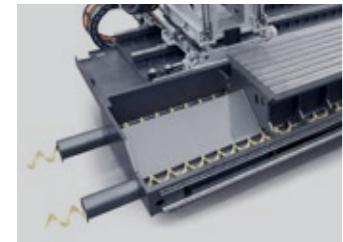


Chip conveyor with integrated coolant tank. (Standard).

OPTIONAL BASIC ITEMS

Optional basic items

- Tools / parts measuring and touch systems.
- Steam and mist extraction.
- Air and water guns.
- "Comfort" pack: Sliding access stairway along the longitudinal travel with supports for air and water guns.
- "Illumination" pack: LED lights with acoustic signal indicating the state of the machine, integrated into the sides.
- Lights with acoustic signal indicating the machine status.
- Camera settings and display mode.
- CNC with touch screen up to 24".



Double auger system for chip evacuation (long tail chip conveyor in ZM 08 model). (Standard).

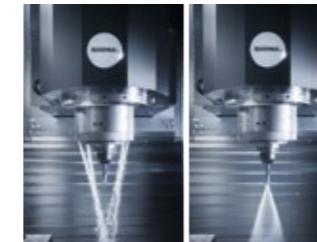


- Climatized electric cabinet with easy access.
- Programmable central lubrication system.

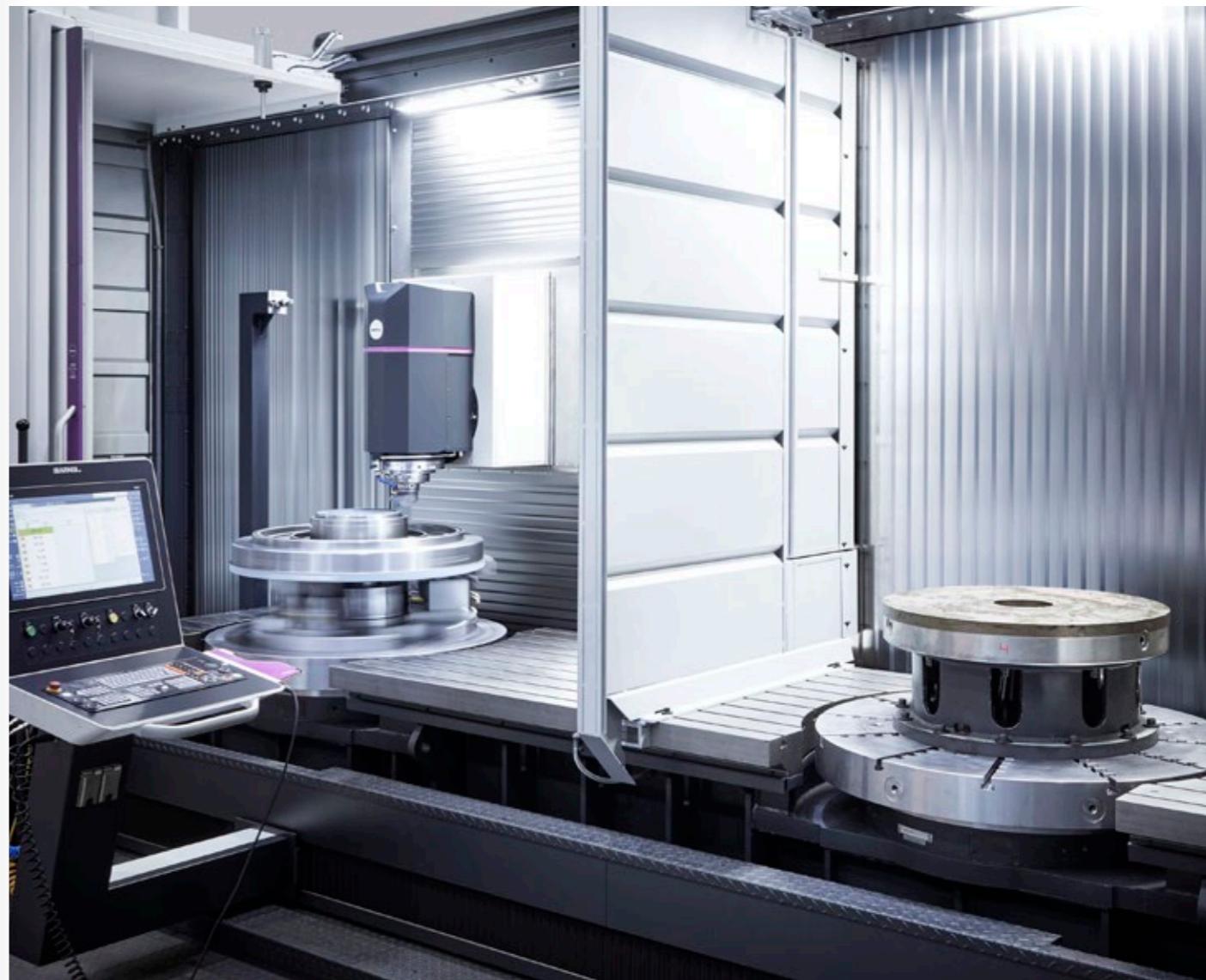
(Standard).



Moving and light control panel with 360° rotation over the entire longitudinal travel.
(Standard).



External coolant system around the spindle. (Standard).
Coolant through spindle.
(Optional).



**MULTIPLE CNC CONTROL
PLATFORM IN ALL MODELS**
Freedom to choose latest generations CNC controls of the most prestigious manufacturers.

**HEIDENHAIN
FANUC
SIEMENS**

- [1_ Machine Program Summarizing](#)
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Z SERIES

IBARMIA STAR EDITION

SINCE 2017

A LIMITED EDITION OF A STANDARD CONFIGURATION FOR SHORT DELIVERY

Based on the most demanded machine configuration items in the market,
for a fast answer to the widest manufacturing requirements.

- [1_ Machine Program Summarizing](#)
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Z SERIES

4.1_ STAR EDITION; SHORT DELIVERY STANDARD MACHINES

**ZMS(4 or 5)_30.08 EXTREME
STAR EDITION**
IBARMIA'S 3 METERS LONG
STANDARD MODEL IN M MACHINE SIZE
WITH THE POSSIBILITY TO INTEGRATE
SK 40 AND SK 50 TYPE SPINDLES"

STANDARD CONFIGURATION

Travels

X 3000 / Y 800 / Z 800 mm /
B +/-120° / C 360°.

Working area

- 3000 mm long working area.
- ø800 mm C axis integrated rotary table.

Milling head

- B axis torque motor continuous tilting head.
- Tilting range: +/-120°.
- Standard SK 40 taper spindle up to 50 kW, 200 Nm and 12.000 rpm.

Tool magazine

- 50 positions standard chain system tool magazine.

CNC Control

- Heidenhain / Fanuc controls on 19" touch screen.

Included items

- Full enclosed working area.
- External coolant system 12 bar.
- Coolant through spindle 22 bar.
- Electronic handwheel.
- Chip conveyor.
- Air & Spray guns.
- Climatised electrical cabinet.
- LED lighting in the working area.
- Side window for long parts.



In the picture,
machine with
optional polar type
220 tools ATC
magazine.

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THE SAME PREMIUM ELEMENTS PRODUCED IN A LARGE BATCH OF STANDARD CONFIGURATION FOR IMMEDIATE AVAILABILITY.

HIGHLIGHTS & OPTIONAL

1_SPINDLES

SK 40 STANDARD

Spindle taper: SK 40
Power S1 (100%): 30 kW
Power S6 (40%): 46 kW
Total available power from: 2200 rpm
Torque S1 (100%): 130 Nm
Torque S6 (40%): 200 Nm
Max. speed: 12.000 rpm

SK 50 OPTIONAL

Spindle taper: SK 50
Power S1 (100%): 30 kW
Power S6 (40%): 43 kW
Total available power from: 1.600 rpm
Torque S1 (100%): 180 Nm
Torque S6 (40%): 260 Nm
Max. speed: 8000 rpm

2_C AXIS STANDARD ROTARY TABLE

B axis head combined with Ø800 mm integrated high dynamics milling rotary table for 5 faces / 5-axis machining.

- Max swing: Ø1100 mm
- Max load 1500 kg/m²
- Up to 25 rpm
- Positioning accuracy: +/- 4"

3_CNC CONTROLS Available

Heindelhain TNC7.
Fanuc 31iB.

4_ATC MAGAZINES

STANDARD chain type magazine

Standard: 50 tools.
Optional: 100 and 150 tools
for SK 40 type spindle taper,
100 tools for SK 50 spindle taper

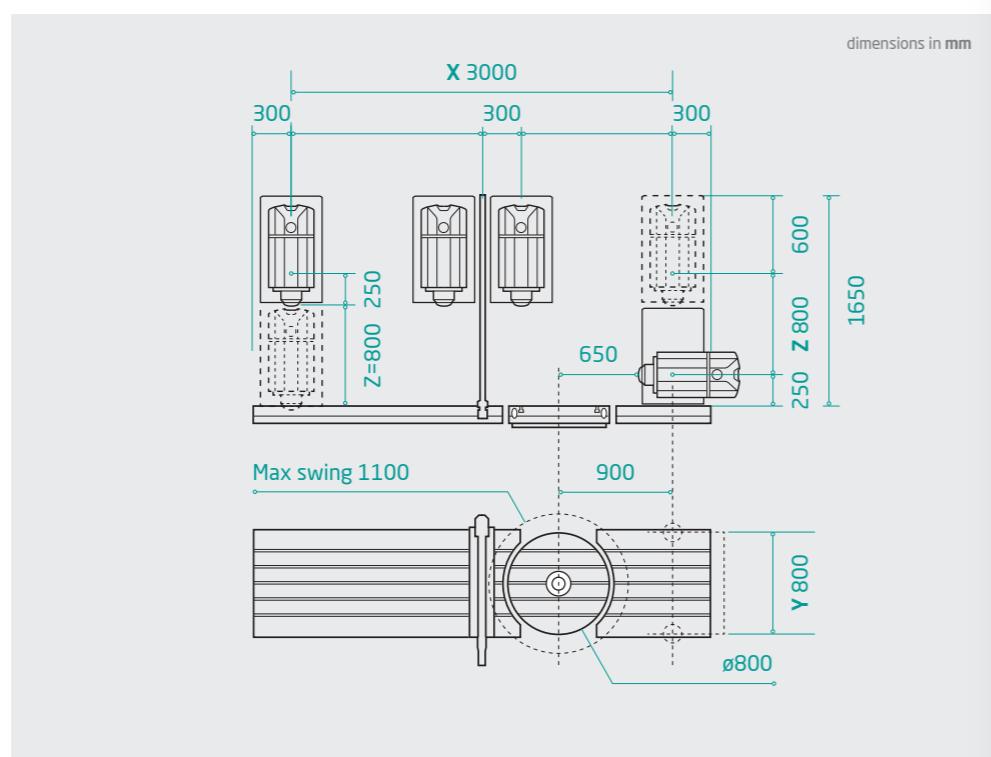
OPTIONAL polar type magazine

220 tools for SK 40 type
spindle taper.

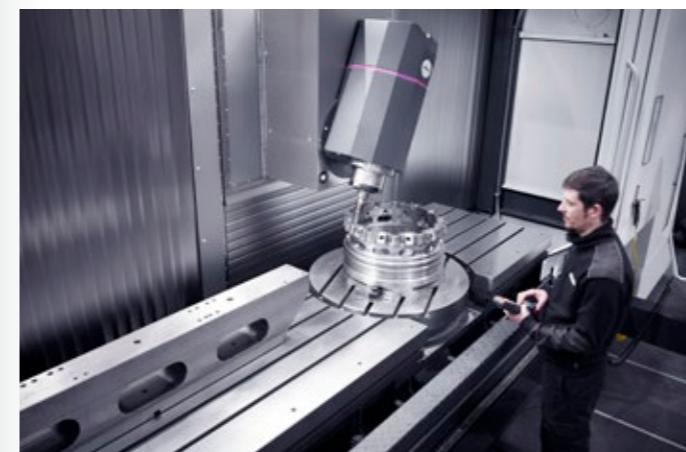
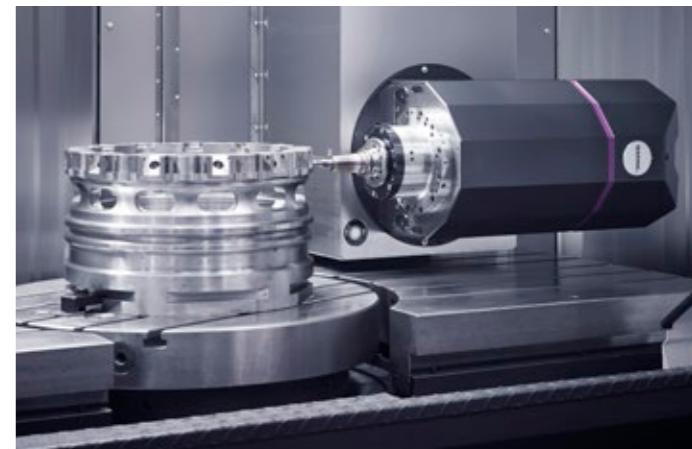
134 or 255 for SK 50 type
spindle taper.

5_WORKING AREA

OPTIONAL NMS; "Nonstop Machining"
pendulum working system.

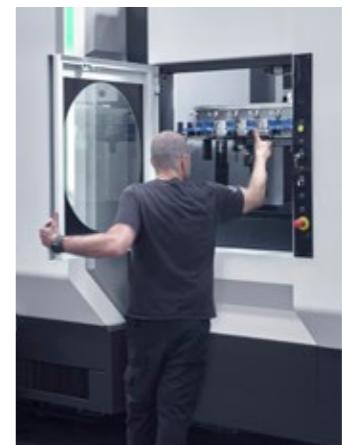


Z SERIES



Combine linear and rotary axes in a generous 3 meters long working area for machining a wide range of size and shapes; use the entire length of the high load capacity fixed table (1500 kg/m²) for machine long parts, and the integrated rotary table for manufacturing complex parts up to 5 faces / axes.

Freedom to choose between the latest generation CNC controls; Heidenhain / Fanuc.



Chain system or polar type ATC magazines available, in both cases located at the right side of the machine for an easy load / upload tools while the machine is running.

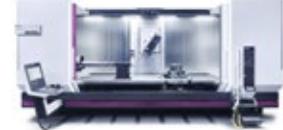
- [1_ Machine Program Summarizing](#)
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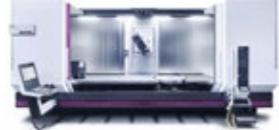
5_ TECHNOLOGICAL INTEGRATION

ACTIVE ASSISTANCE TO THE MACHINING PROCESS

IBARMIA range of applications for active support in the manufacturing process, through connected machines equipped with the latest technology for the most demanding production needs.



ZS MULTIPROCESS
Multitasking machines



ZS EXTREME
5 axis milling machines

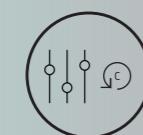
C AXIS AUTOTUNING

ZS MULTIPROCESS / EXTREME

This applications are aimed to maximize the position loop bandwidth for variable moving masses placed on rotary tables (C axis).

Main features C axis autotuning:

- Automatic measurement of the axis inertia for every noticeable change in mass on rotary tables.
- Automatic calculation of natural frequencies and inertia ratios by means of motor consumption signals.
- Automatic limitation of maximum rotational speed of the rotary table depending on the workpiece weight, for axis protection.

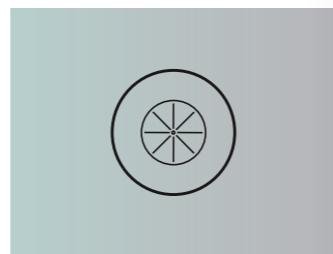


RESIDUAL IMBALANCE CHECK

ZS MULTIPROCESS

Imbalance reduces the life of bearings and other components, produces noise and may be a safety risk; the Rotary Axes imbalance Compensation (RAUC) increases the life and the safety of your machine.

- Static, coupled and dynamic imbalance detection.
- Mass distribution detection.
- Balancing masses weight and location suggestion for rotary tables.



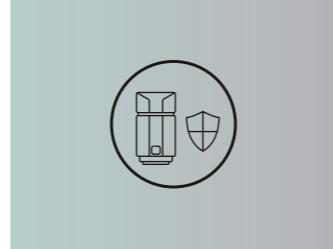
CONTROL CYCLES

ELECTROSPINDLE PROTECTION

ZS MULTIPROCESS / EXTREME

This smart equipment has been designed to detect, at a very early stage, abnormal situations and disturbances that may affect the lifetime of the main spindles, especially imbalanced tools, excessive vibration during machining and collisions among spindles and machined parts.

- Monitoring of spindle imbalance during idle conditions.
- Automatic stop of spindle feed axis in case of abnormal vibrations.
- Continuous diagnosis of spindle bearings condition for preventive maintenance purposes.



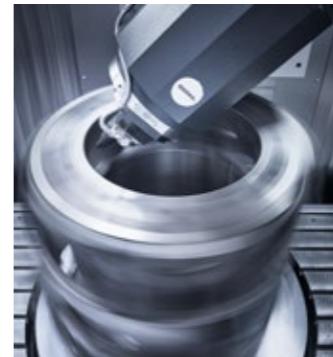
OPERATIONAL CYCLES

MILLING-TURNING

ZS MULTIPROCESS

High productivity thanks to complete machining on one machine in a single setup.

- Cutting, undercutting, cutting chips, threading, etc.
- Imbalance calculation, control and monitoring.
- Storage, emission and transmission of measurement data.
- Turning of long tools in the workpiece.
- Use of multi-cutting tools.



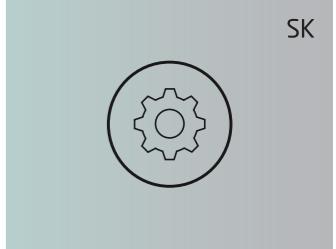
GEAR SKIVING

ZS MULTIPROCESS

Synchronized rotation of tool and workpiece to be machined. Innovative manufacturing process for gears with straight or oblique gearing.

- For internal and external gearing.
- Shorter machining times.
- Fewer tools.

Achievable gear quality:
- Straight gear DIN 9 (roughing). (Depending on the gear module and diameter).
- Straight gear DIN 7 (finishing). (Depending on the gear module and diameter).



GRINDING

ZS MULTIPROCESS / EXTREME

Grinding cycles for Z SERIES-ZVH machines.

- MULTIPROCESS models_
 - External cylindrical.
 - Internal cylindrical.
 - Flat surfaces with flat grinding wheel (tangential contact).
- EXTREME models_
 - Flat surfaces with flat grinding wheel (tangential contact).



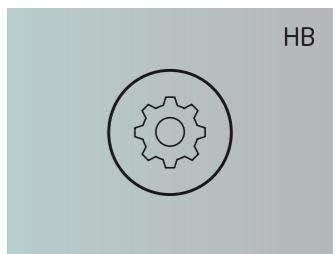
GEAR HOBBING

ZS MULTIPROCESS / EXTREME

Maximum flexibility through production with standard tools on standard machines.

- Free modification of profiles, flanks and contact pattern.
- Flexible for different gears.
- Soft and hard machining on one machine.

Achievable gear quality:
- Straight gear DIN 9 (roughing). (Depending on the gear module and diameter).
- Straight gear DIN 7 (finishing). (Depending on the gear module and diameter).



<u>1</u> Machine Program Summarizing
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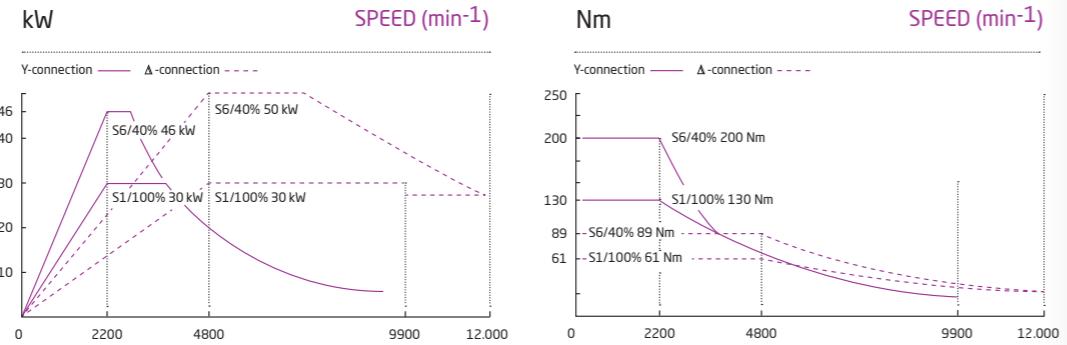


Z SERIES

7.1_ LATEST TECHNOLOGY SPINDLES

ISO 40 SPINDLES

Higher speed spindles on request up to 15.000 and 20.000 rpm



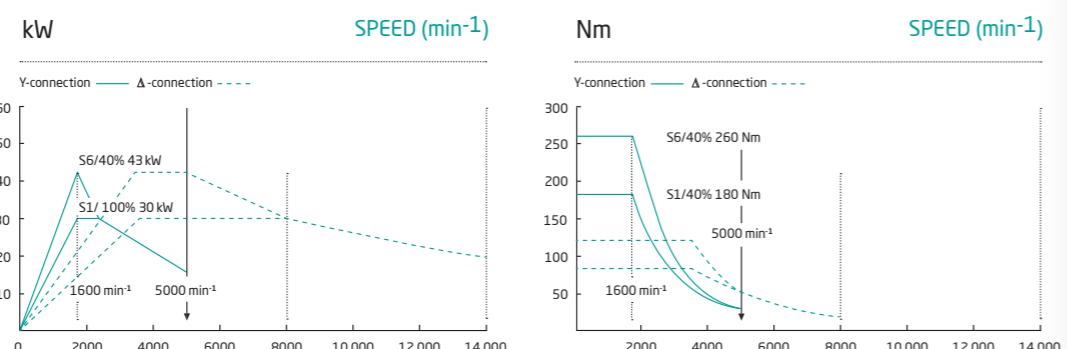
40.1_SPINDLE

The access spindle
Up to 12.000 rpm.
30/50 kW (S1/S6).
130/200 Nm (S1/S6).

M machine size: STANDARD
L machine size: OPTIONAL

ISO 50 SPINDLES

Higher torque spindles on request up to 650 Nm



50.1_SPINDLE

Optimized performance spindle
Up to 8000 rpm.
30/43 kW (S1/S6).
180/260 Nm (S1/S6)

M machine size: OPTIONAL

50.2_ELECTROSPINDLE

High-performance spindle
Up to 12.000 rpm.
74/84 kW (S1/S6).
300/452 Nm (S1/S6).

L machine size: STANDARD

7.2_ TECHNICAL DATA

M	MACHINE SIZE		L		MACHINE SIZE
	08	10	08	10	
TRAVELS					
-X axis travel (length)					1500 - 12.000 mm
-Y axis travel (cross)	800 mm	1000 mm	800 mm	1000 mm	1100 mm
-Z axis travel (vertical) (*optional)	800 mm	900 mm		1100 mm	1100 mm (1300*)
-B axis head tilting range					+/- 120°
-C axis rotary table maximum swing diameter*	ø 1100 mm	ø 1300 mm	ø 1200 mm	ø 1400 mm	ø 1500 mm
-Piece maximum height	800 mm	900 mm		1100 mm	
-Distance spindle nose-table. Head in V position	0...800 mm			0...1050 mm	
-Distance spindle nose-table. Head in H position*	250...1050 mm			250...1350 mm	
STANDARD WORKING AREA					
-Fixed table dimensions					X 1500: X +400 mm; ≥ X 3000: X+600 mm & Y +50 mm
-Maximum table load capacity	1500 Kg/m²				2000 Kg/m²
-Number of "T" slots	5	7	5	7	9
-"T" slots size					18 H7 mm
-Distance between "T" slots					125 mm
-Fixed table height	1050 mm			1050 mm	1150 mm
-C axis turning tables - A axis turning chucks					Various models available (see on pages 06-07)
TLTING HEAD*					
-Turning torque	782 Nm				800 Nm
-Position clamping force					6000 Nm
MAIN SPINDLE (Standard)					
-Tool holder	SK 40/BT 40 / HSK A-63 / CAT 40 / Capto C6			SK 50/BT 50 / HSK A-100 / CAT 50 / Capto C8	
-Maximum speed	Up to 12.000 rpm			Up to 12.000 rpm	
-Maximum power	Up to 50 kW			Up to 84 kW	
-Maximum torque (Nm)	Up to 260 Nm			Up to 452 Nm	
FEED					
-Feed thrust X-Y-Z 100%	X: 11.992 N / Y: 8521 N / Z: 7669 N				X: 15.021 N / Y: 12.154 N / Z: 10.649 N
-Rapid feed for positioning X-Y-Z					40-40-40 m/min. Option: 50-50-50 m/min.
-Maximum working feed X-Y-Z					30 m/min
-Rapid feed for positioning in B axis					50 rpm
ACCURACY VDI / DGQ3441					
-Positioning Tp X-Y-Z (1000 mm)					10 µm
-Repeatability					5 µm
-Measuring system on B axis					Rotary scale
-Positioning accuracy B axis					+/- 5 s
-Positioning accuracy C axis					+/- 4 s
CAPACITIES					
-Milling capacity in steel St 60	900 cm³/min				1100 cm³/min
-Drilling capacity in steel St 60	ø 50 mm				ø 70 mm
-Tapping capacity in steel St 60	M 33 mm				M 45 mm
TOOL MAGAZINE*					
-Number of tools**					Standard: 50 tools. Optional: 100, 150 tools.
-Maximum tool length	350 mm				
-Maximum tool weight	10 kg				
-Maximum tool diameter with full magazine	100 mm				
-Maximum tool diameter with free spaces	150 mm				
-Tool changing time	8 s				
-Chip-to-chip time	10 s				
CNC CONTROL					
-Available digital controls					Fanuc / Heidenhain / Siemens

*ZM/LS MULTIPROCESS and ZM/LS EXTREME machine performance levels (view on pages 16-19)

**Standard chain type tool magazine / **Depending on the tool holder (view on page 35)

Standard: 50 tools. Optional: 100, 150 tools.

350 mm 400 mm

10 kg 20 kg

100 mm 125 mm

150 mm 200 mm

8 s 10 s

10 s 12 s

YOUR SERVICE POINT

IBARMIA SERVICE

YOUR SERVICE POINT

When a customer becomes part of the IBARMIA family, that special link makes us work together throughout the machine's lifetime. Our service-point guides all technical and human resources to satisfy the customer's needs from the moment the machine enters its facilities.



TELEPHONE SUPPORT
SERVICE BY EXPERT
MULTILINGUAL STAFF



REACTION AND SOLUTION
TIMES ADEQUATE TO THE
CUSTOMER'S NEEDS



HIGHLY QUALIFIED
TECHNICIANS

MACHINE RECALIBRATION
The accumulation of working hours and other factors might affect the machine's adjustment. At servicepoint we offer the possibility of readjusting the machines, leaving them almost as brand new.

PERIODIC PREVENTION MAINTENANCE

Servicepoint staff regularly checks and tunes up the machine, ensuring optimum machine availability.

CRITICAL COMPONENTS HIRE
Our machines have a high level of technology reflected on key elements of high value, and sometimes long delivery times. Following our commitment to reduce the machine breakdown times to a minimum, we stock those key elements for hire.

CUSTOMIZED MAINTENANCE CONTRACTS
Various levels of maintenance contracts adjustable to each customer.

SPARE PART MANAGEMENT
We are well aware of the importance of ensuring that the parts replaced in our machines maintain the same quality as the originals. Our spare part management service takes care of this.

ASSISTANCE AND LOCAL SERVICE
Our objective is to respond to our customers quickly, efficiently and at a reasonable cost. We are creating a global service network to ensure we respond to our clients in the shortest possible time.

REMOTE AND ONLINE MONITORING AND DIAGNOSE
It allows you to monitor the machine status remotely to ensure an intelligent diagnose of the key elements.



IBARMIA SERVICE

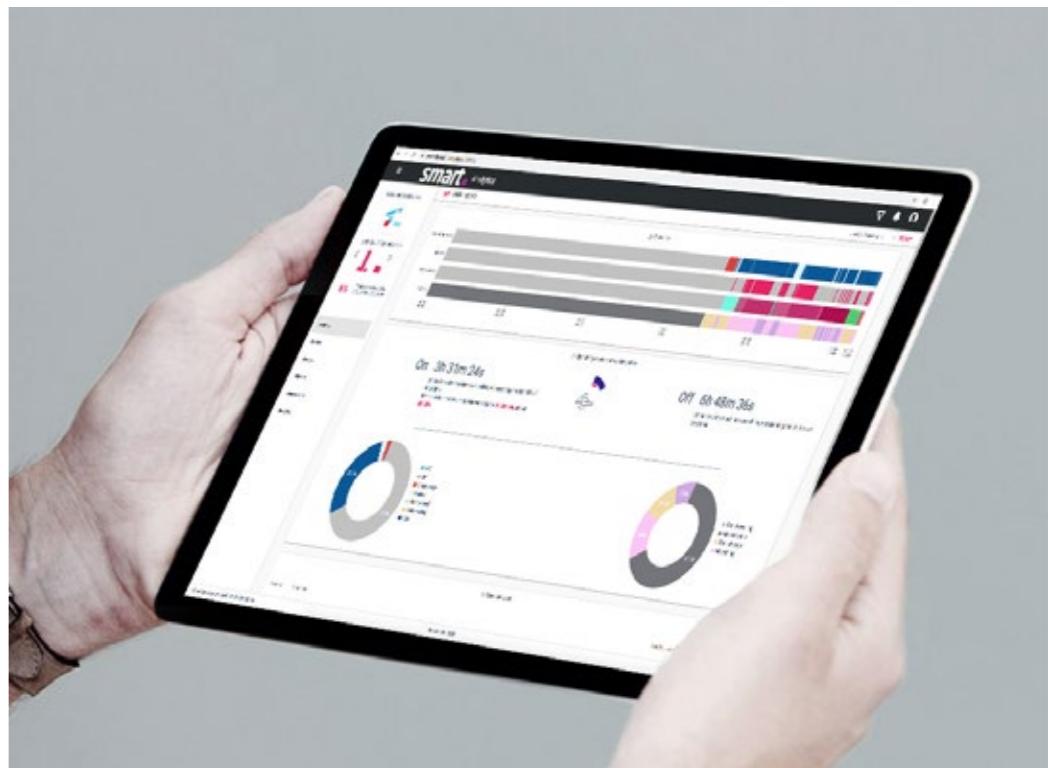


ADVANCED DATA MANAGEMENT:
ONLINE MONITORING AND
DIAGNOSIS

SMART POINT SOFTWARE

Thanks to our SMART POINT cloud monitoring system, we have real time information about the status of your machine, and we are able to make an intelligent diagnosis of the critical components. SMART POINT allows us to record and process the data collected on your machine, thus generating valuable information about the optimal use, the life cycle of the parts or the manufacturing process itself.

- Monitor your machines activity in real time from anywhere in the world
- Anticipate machine breakdowns and maximize its availability. Discover the root of the errors so you can correct them, as well as consumable exchange dates and component health status.



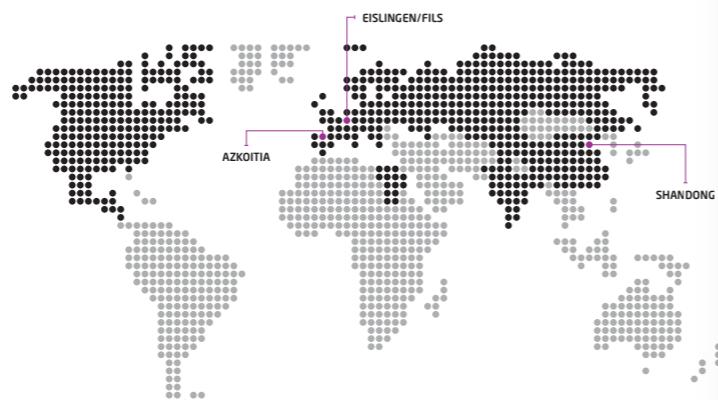


IBARMIA.

IBARMIA

GOING BIGGER, GETTING CLOSER

The last few years at IBARMIA have been intense in growth for the company. Determined to stay close to customers, the company has kept deepening the roots in the biggest markets of the world. This tendency will be kept in the future, with further development of these two areas of the world and others to come.



IBARMIA Azkotia
PRODUCTION CENTER
(Gipuzkoa) Spain



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



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

70 IBARMIA.
YEARS
EST.1953



COMPETING IN THE
GLOBAL MARKET



A YOUNG TEAM WITH
HIGH FORMATION



INTEGRATED
MANUFACTURING



TOTAL
FLEXIBILITY



YOUR MACHINE TOOL POINT

EST. 1953

Z SERIES
MOVING-COLUMN
MACHINING
CENTERS

SZG 2026
Subject to change
without prior notice.

IBARMIA is an advanced technology manufacturer of
high added-value solutions adapted to customers' needs
by highly customized machining centers.



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