

Z SERIES

MOVING-COLUMN MACHINING CENTERS

IBARMIA.
YOUR MACHINE TOOL POINT

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 high-precision manufacturing plant.



Z SERIES



www.ibarmia.com



Z SERIES

YOUR MACHINE TOOL POINT

IBARMIA.

INTRO

Z SERIES | SINCE 1986



1986

ZVL 2000;
IBARMIA's first moving-
column machining center.



2001

IBARMIA adds automatic
tilting heads to the
moving-column centers.



2008

IBARMIA adds turning
capacity to the 5 axis
moving-column centers.



2011

IBARMIA improves the
machine design.
The classic round
window is here to stay.



2019

IBARMIA launches the
2020 concept, improving
the ergonomics,
efficiency and appeal of
the machine.



2023

IBARMIA launches the
6th Generation, stronger,
faster and more efficient
for an even bigger ROI.

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_ Technological integration
- 6_ Star Edition
- 7_ Technical specifications

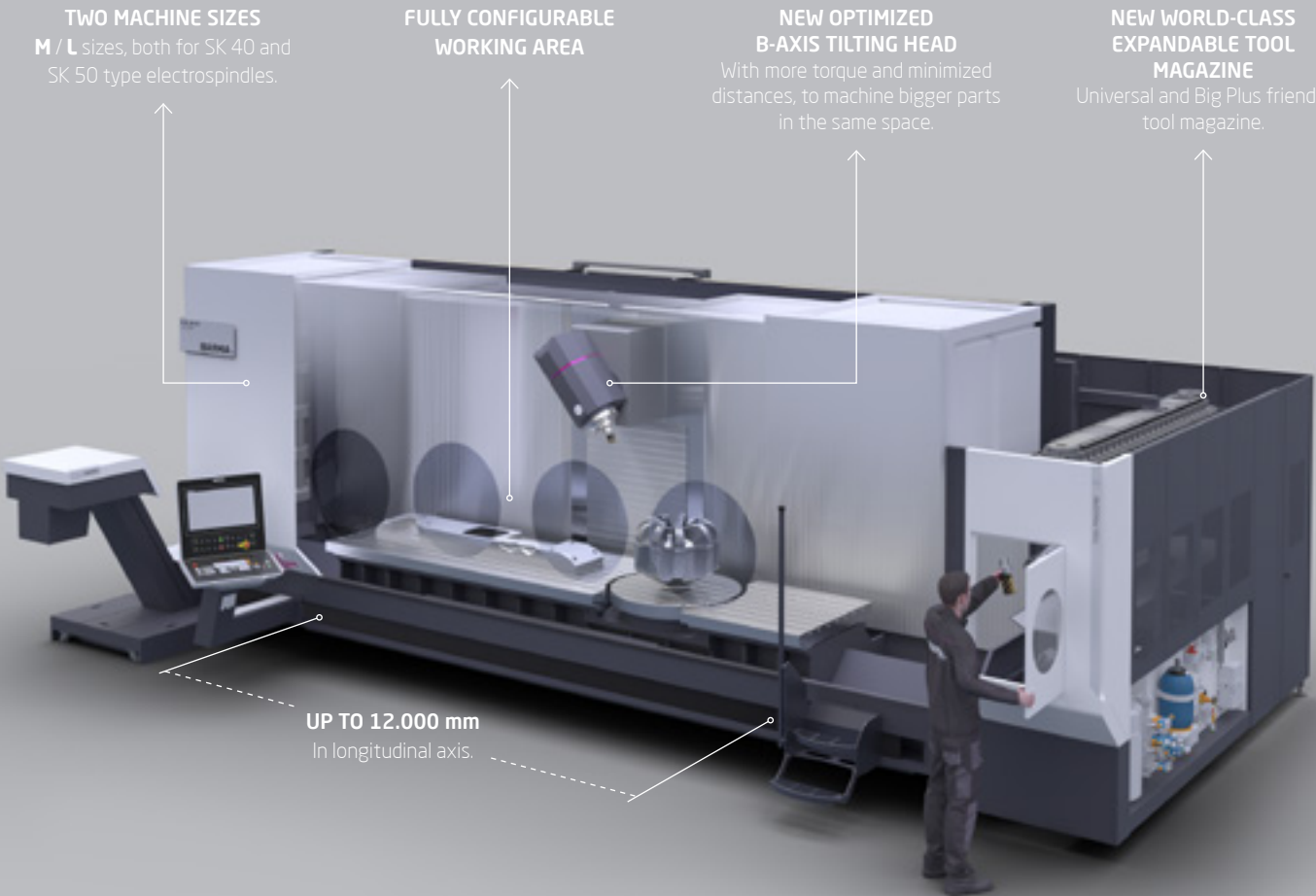


1.1_ MACHINE PROGRAM SUMMARIZING

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 proceses provide an unlimited field of work, a differential value for the customer and a return of investment of maximum viability.

THE PLATFORM FOR IBARMIA’S MULTIPURPOSE MACHINING CONCEPT HIGHLIGHTS



IN THE PICTURE: ZL55_40.10 EXTREME

Z SERIES_ BODY SIZES



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



Likewise, BARMIA introduces a bigger structure to endure the forces applied when machining hard materials with high power or when the size of parts requires it.

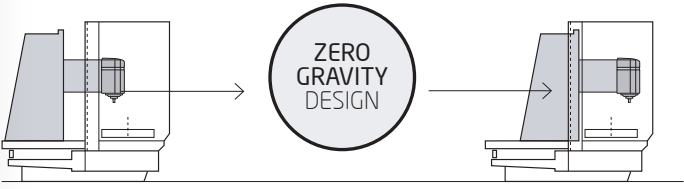
For SK 40 & SK 50 type spindles		For SK 40 & SK 50 type spindles	
Tool holder: SK 40 / BT 40 / HSK-A63 / CAT 40 / CAPTO C6 Up to: 50 kW • 200 Nm • 12.000 rpm Higher speeds on request, up to 15.000 and 20.000 rpm	Tool holder: SK 50 / BT 50 / HSK-A100 / CAT 50 / CAPTO C8 Up to: 43 kW • 260 Nm • 8000 rpm	Tool holder: SK 40 / BT 40 / HSK-A63 / CAT 40 / CAPTO C6 Up to: 50 kW • 200 Nm • 12.000 rpm	Tool holder: SK 50 / BT 50 / HSK-A100 / CAT 50 / CAPTO C8 Up to: 84 kW • 452 Nm • 12.000 rpm Higher torque spindles on request.
See on page 50			

ZM S/V 4	ZM S/V 5	ZL S/V 4	ZL S/V 5
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Z SERIES_ MACHINE TRAVELS



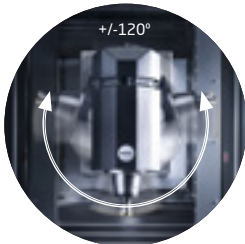
X AXIS LONGITUDINAL TRAVEL_
A wide range of longitudinal travels available for M & L machine size models.
1500 / 3000 / 4000 / 5000 / 6000 / 7000 / 8000 / 9000 / 10.000 / 11.000 / 12.000 mm.



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

Z SERIES_ PERFORMANCE LEVELS



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



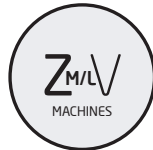
V SPINDLE HEAD
Vertical head.



MULTIPROCESS
Highly customizable
5-axis advanced multitasking centers.

EXTREME
Highly customizable
5-4- axis machining centers.

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



EXTREME
Highly customizable
4-3- axis machining centers.

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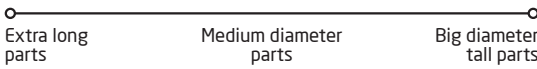
2_ FOR THE LARGEST VARIETY OF SHAPES AND SIZES

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, Energy, Railway or Machinery. Pendulum work capacity and swings up to ø2000 mm make this platform a must-have for any machine shop.



RANGE OF MACHINING



Z SERIES

SAMPLE APPLICATIONS



Toothed shaft



Crankshaft



Impeller shaft



Railway wheel



Directional drilling tool



Machinery component



Engine block



Industrial blades



Industrial mold

INDUSTRIES & MATERIALS



OIL & GAS



MOLD & DIE



AEROSPACE



AUTOMOTIVE



RAILWAY



MACHINERY



YELLOW GOODS

Low-Alloy Steel | Grey Cast Iron | Nickel based Super Alloy | Austenitic Stainless Steel | Titanium based Alloy | Aluminum based Alloy | Extra hard Steel

1_ Machine Program Summarizing

2_ Application industries

3_ Characteristics

3.1_ Performance

4_ Create your own machine

5_ Technological integration

6_ Star Edition

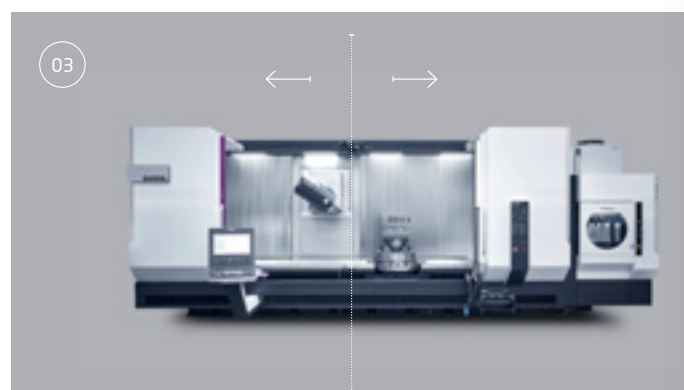
7_ Technical specifications

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

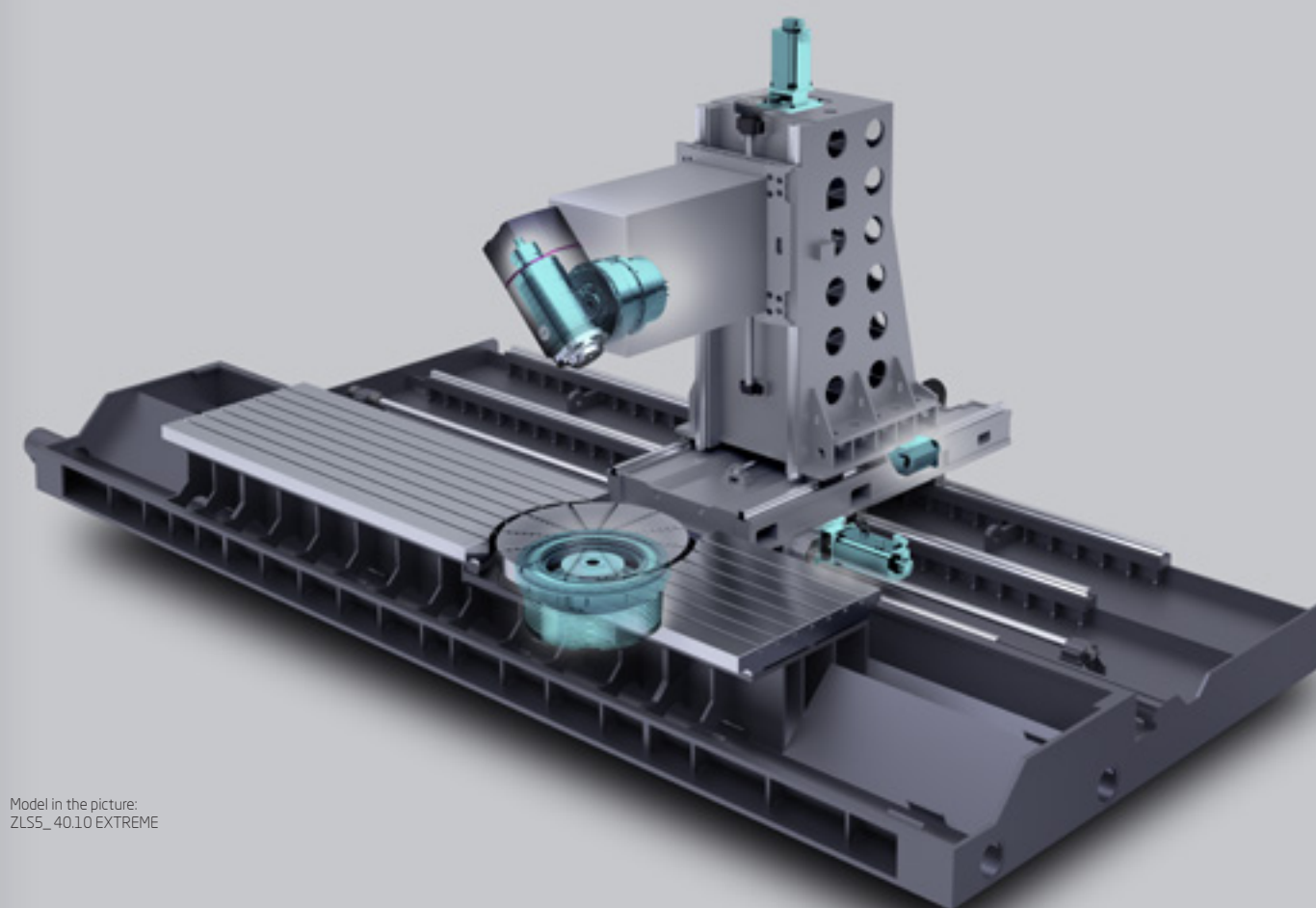
- Spindle.
- Direct Drive torque motor B axis.

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

- 1_ Machine Program Summarizing
- 2_ Application industries
- 3_ Characteristics
- 3.2_ Efficiency
- 4_ Create your own machine
- 5_ Technological integration
- 6_ Star Edition
- 7_ Technical specifications

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.

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:

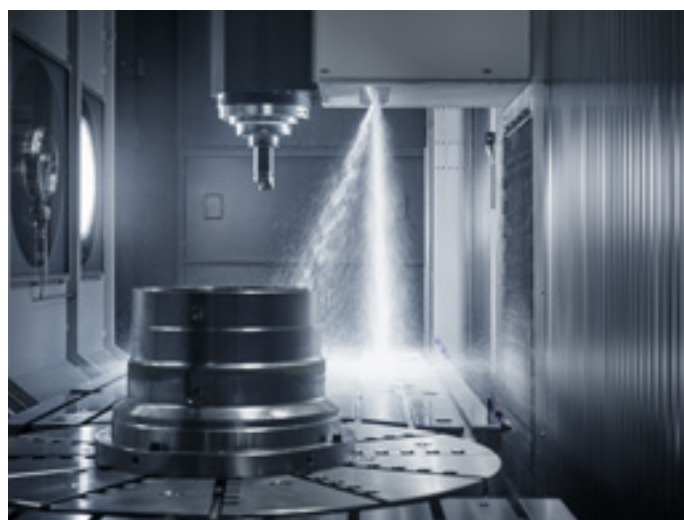
- MQL lubrication avoiding pumps and their consumption.
- Grease lubrication.
- LED lighting.
- High efficiency servomotors.

- 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

"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).
- 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.

- Moving control panel along the entire longitudinal travel (L size), with 360° rotation. Possibility to choose latest CNC controls of the most prestigious manufacturers; HEIDENHAIN, FANUC, SIEMENS (Standard).
- Access stairway movable along the entire longitudinal travel, with the coolant and air guns, for a safe and ergonomic operations (Optional).
- LED light signals are very comfortable and effective while working. Can be integrated into the sides, indicating the state of operation and improving the user experience given by the white enclosure and a high quality finishings for a warm interaction with the work environment (Optional).



1_ Machine Program Summarizing

2_ Application industries

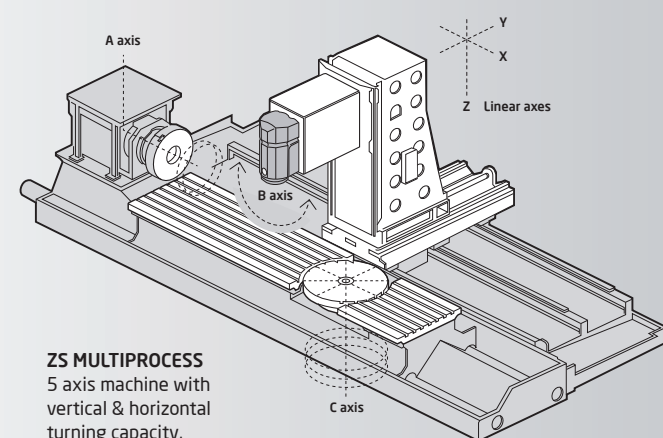
3_ Characteristics

4_ Create your own machine

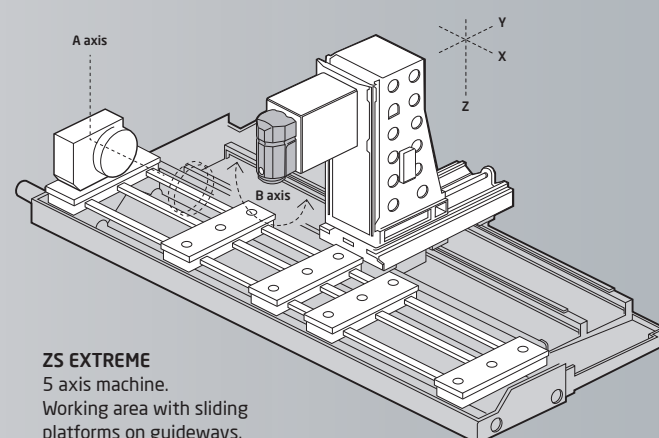
5_ Technological integration

6_ Star Edition

7_ Technical specifications



ZS MULTIPROCESS
5 axis machine with
vertical & horizontal
turning capacity.



ZS EXTREME
5 axis machine.
Working area with sliding
platforms on guideways.
No fixed table.



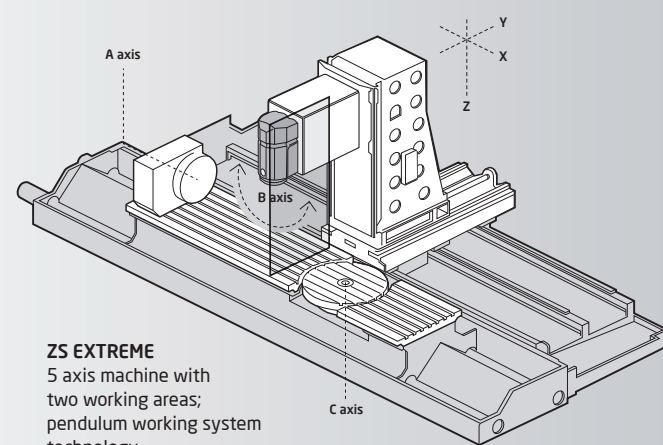
MULTITASKING
CENTERS



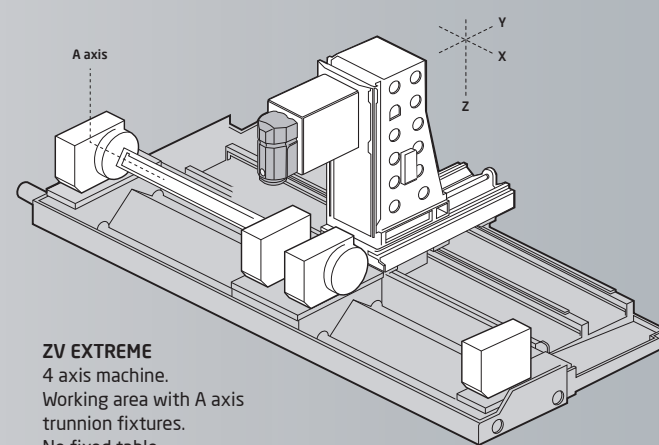
5-4 AXIS
CENTERS



4-3 AXIS
CENTERS



ZS EXTREME
5 axis machine with
two working areas;
pendulum working system
technology.



ZV EXTREME
4 axis machine.
Working area with A axis
trunnion fixtures.
No fixed table.



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 it's moving column
and fixed table machine architecture.

- 1_ Machine Program Summarizing
- 2_ Application industries
- 3_ Characteristics
- 4_ Create your own machine
- 4.1_ Advantages
- 5_ Technological integration
- 6_ Star Edition
- 7_ Technical specifications



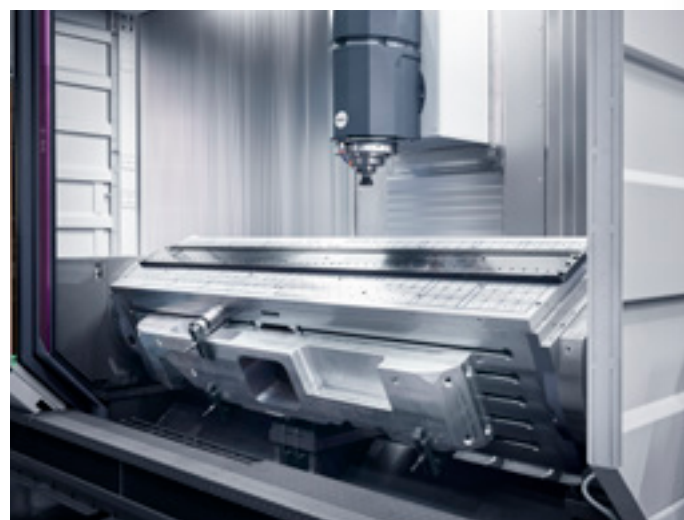
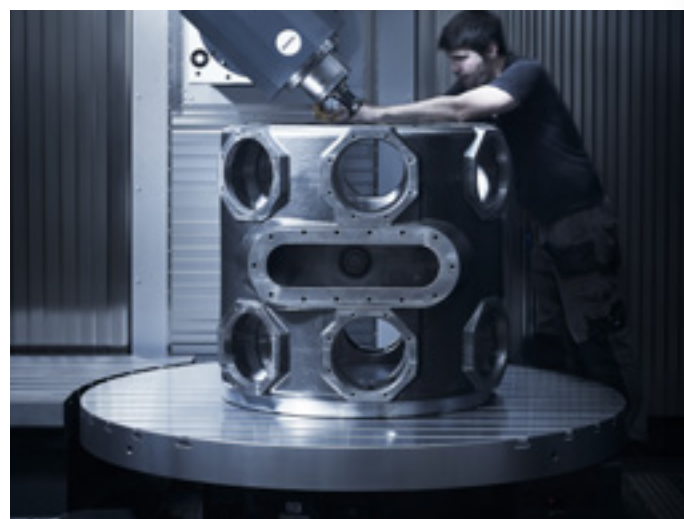
Z SERIES

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.

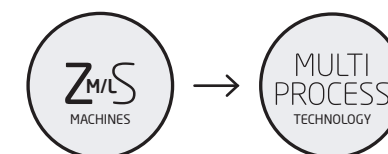
View this video about the flexibility of Z SERIES Machine Program:



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

MAXIMUM POLYVALENCE

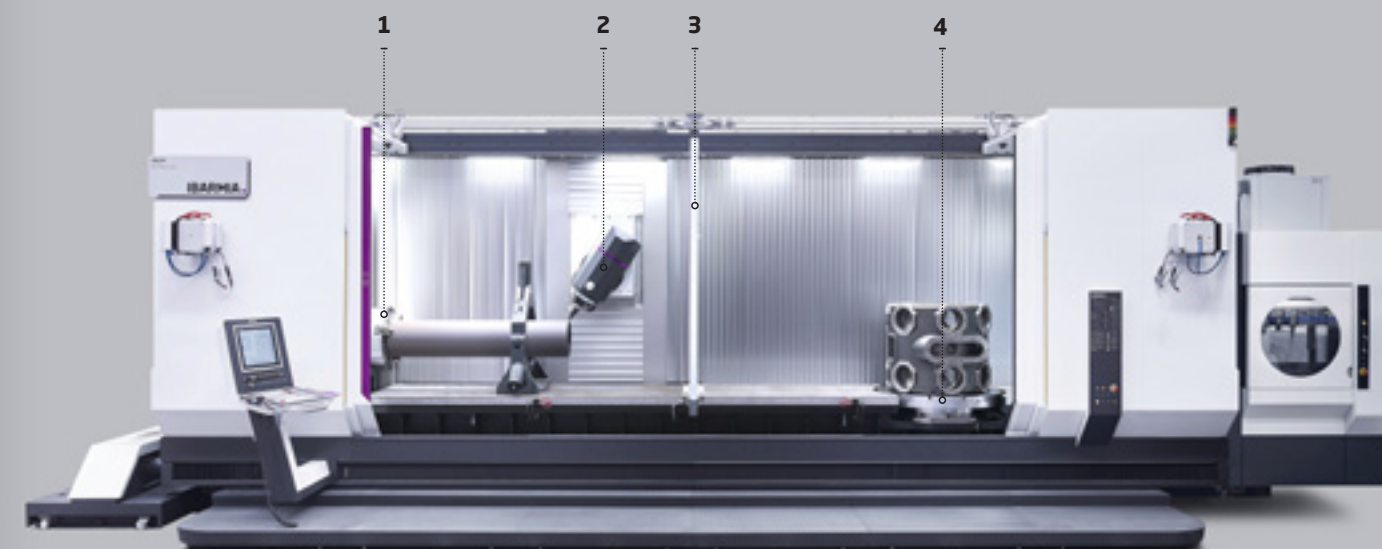
The high flexibility of the program allows the configuration of what is likely the most versatile machining center in the market; a machine that is a workshop in itself, capable of providing the most effective responses to the increasingly volatile and changing demands of the market.



ZM/LS MULTIPROCESS WITH VERTICAL AND HORIZONTAL TURNING CAPACITY; 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.



- 1_ Machine Program Summarizing
- 2_ Application industries
- 3_ Characteristics
- 4_ Create your own machine
- 4.2_ Performance levels
- 5_ Star Edition
- 6_ Technological integration
- 7_ Technical specifications



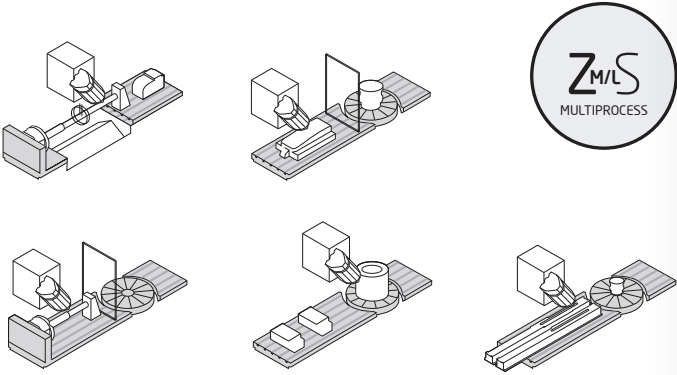
Z SERIES

4.2_ MACHINE PERFORMANCE LEVELS (MODELS)

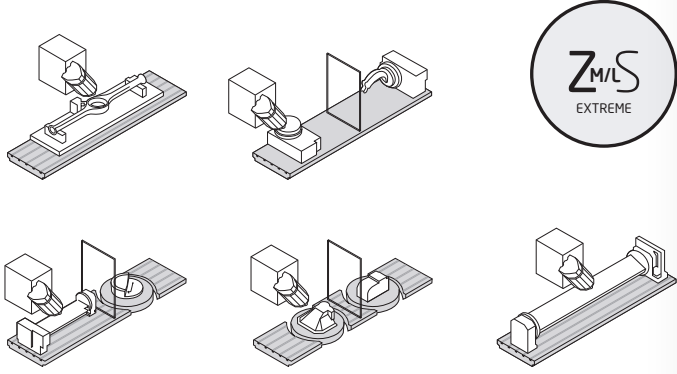
AN UNLIMITED FIELD OF WORK

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.

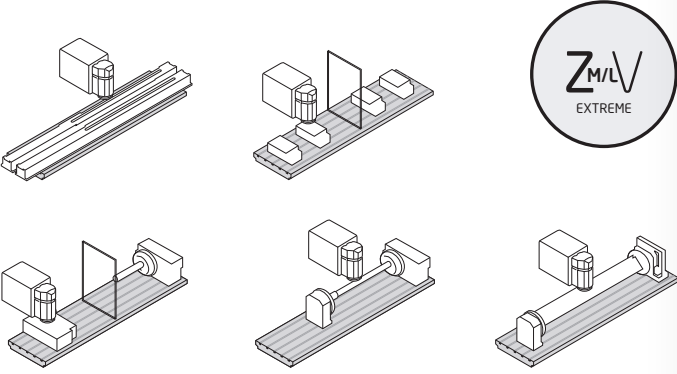
01



02



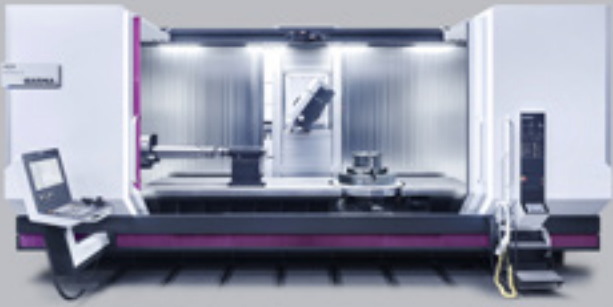
03



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

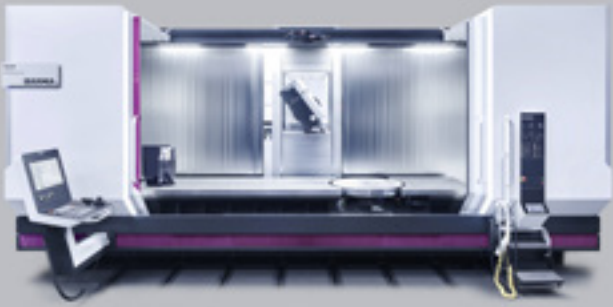
Combine 5 axis milling technology with vertical and/or horizontal turning, grinding and the most advanced gear machining capabilities.



MANUFACTURING
TECHNOLOGY

ZMS - ZLS
EXTREME
5-AXIS
MACHINING
CENTERS

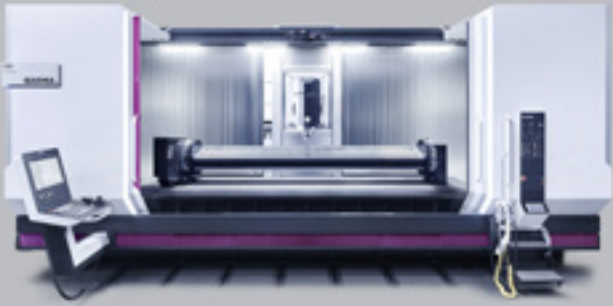
Combine up to 5 axis milling capacity with the large range of working area configuration possibilities so you will be ready for any job at the shortest notice.



MANUFACTURING
TECHNOLOGY

ZMV - ZLV
EXTREME
3 / 4-AXIS
MACHINING
CENTERS

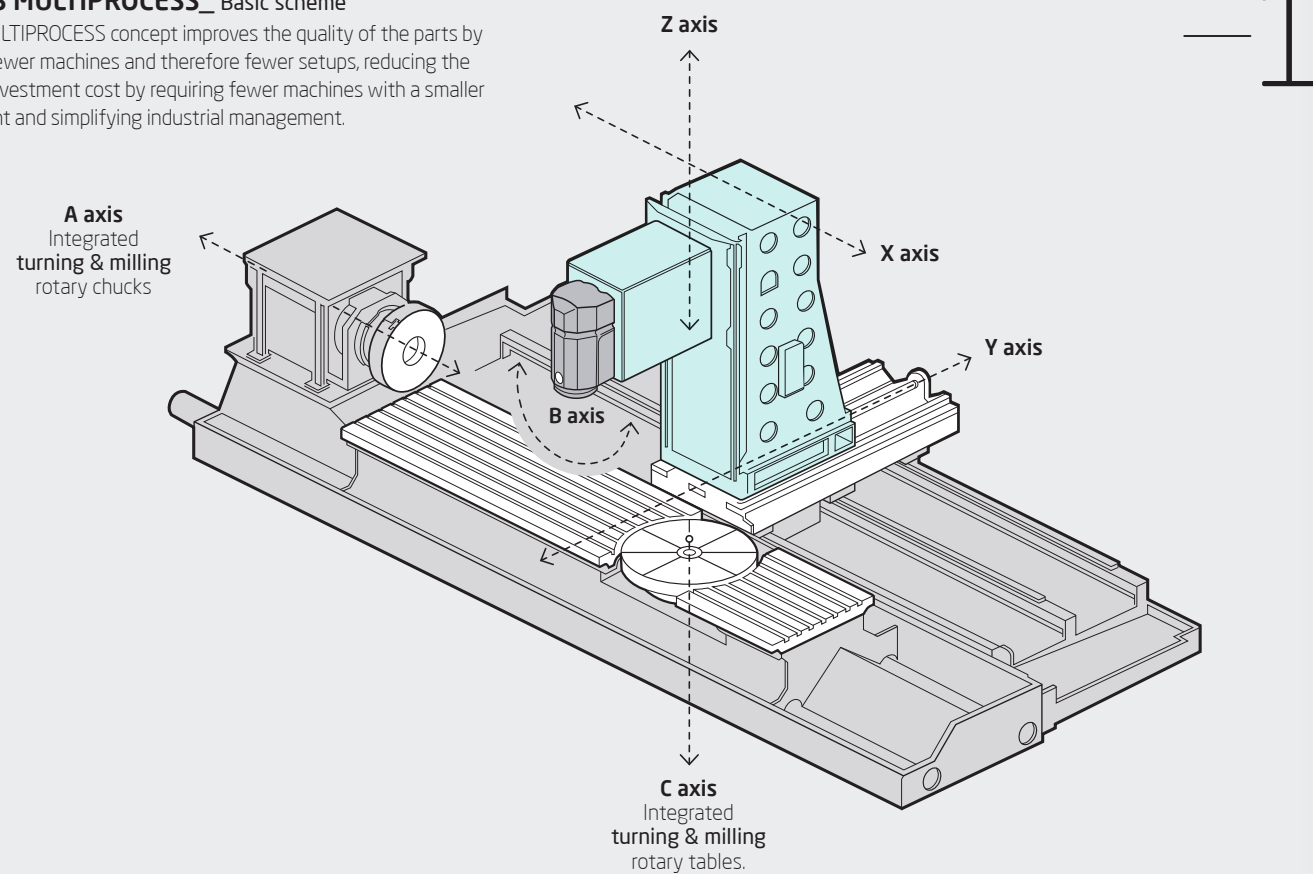
3 axis models or in combination with horizontal rotary tables, to reach the highest productivity.



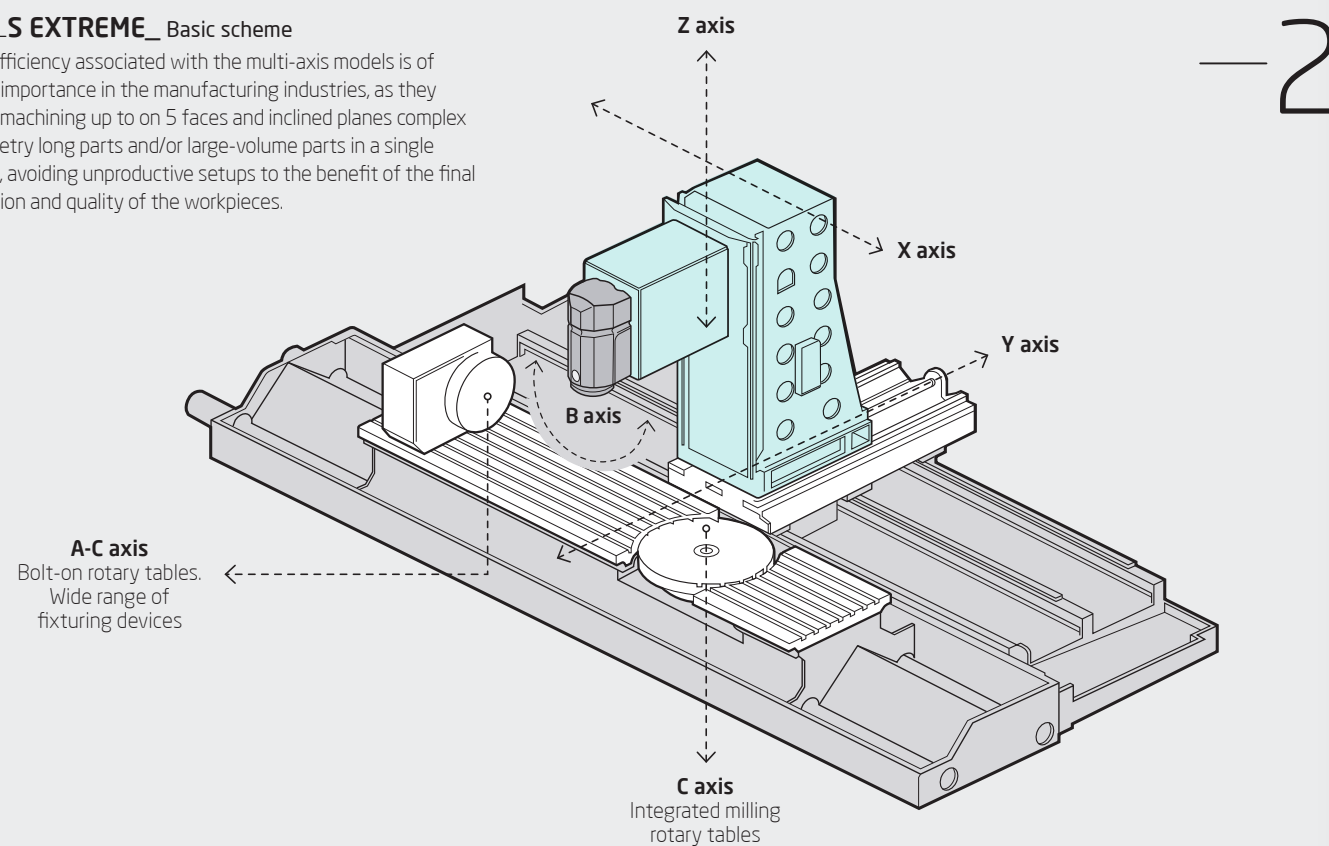
MANUFACTURING
TECHNOLOGY

ZM/L S 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.

**ZM/L S EXTREME_ Basic scheme**

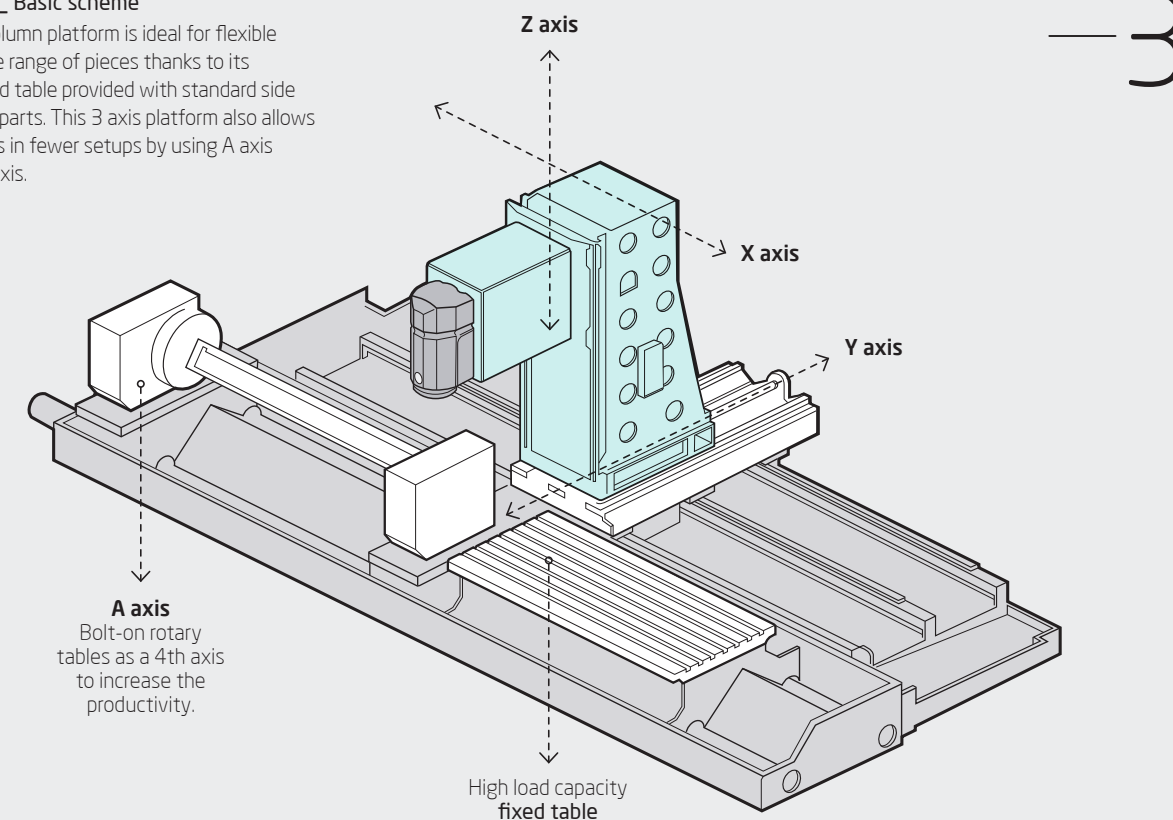
The efficiency associated with the multi-axis models is of great importance in the manufacturing industries, as they allow machining up to on 5 faces and inclined planes complex geometry long parts and/or large-volume parts in a single setup, avoiding unproductive setups to the benefit of the final precision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

**ZM/L V 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.

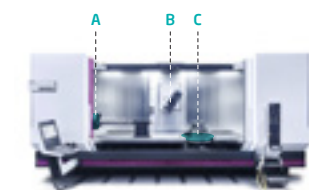


Fixed distance
monoblock
column design

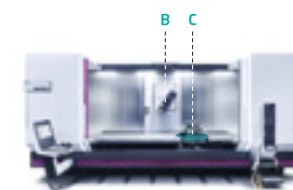
**ROTARY AXES CONFIGURATION**

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

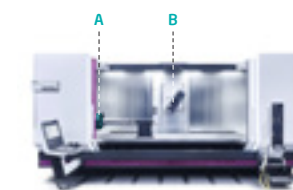
-1



A-C axis
Integrated rotary table and chuck:
Turning & 5 axis milling capacity



C axis
Integrated rotary table:
Turning & 5 axis milling capacity

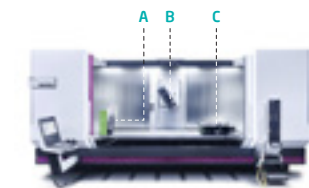


A axis
Integrated rotary chuck:
Turning & 5 axis milling capacity

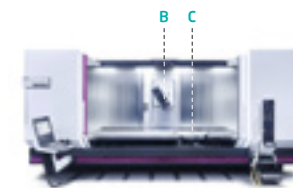


ZS EXTREME
B axis head /
A-C milling axes

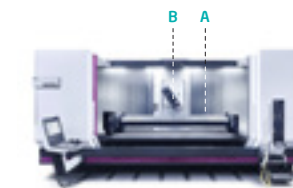
-2



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



C axis
Integrated rotary table:
5 axis milling capacity

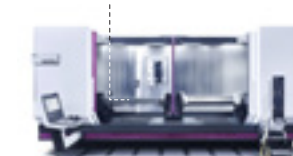


A axis
Trunnion fixtures:
5 axis milling capacity



ZV EXTREME
A milling axis

-3



A axis
Trunnion fixtures:
4 axis milling capacity

- 1_ Machine Program Summarizing
- 2_ Application industries
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- 4.3_ Machine configuration
- 5_ Technological integration
- 6_ Star Edition
- 7_ Technical specifications

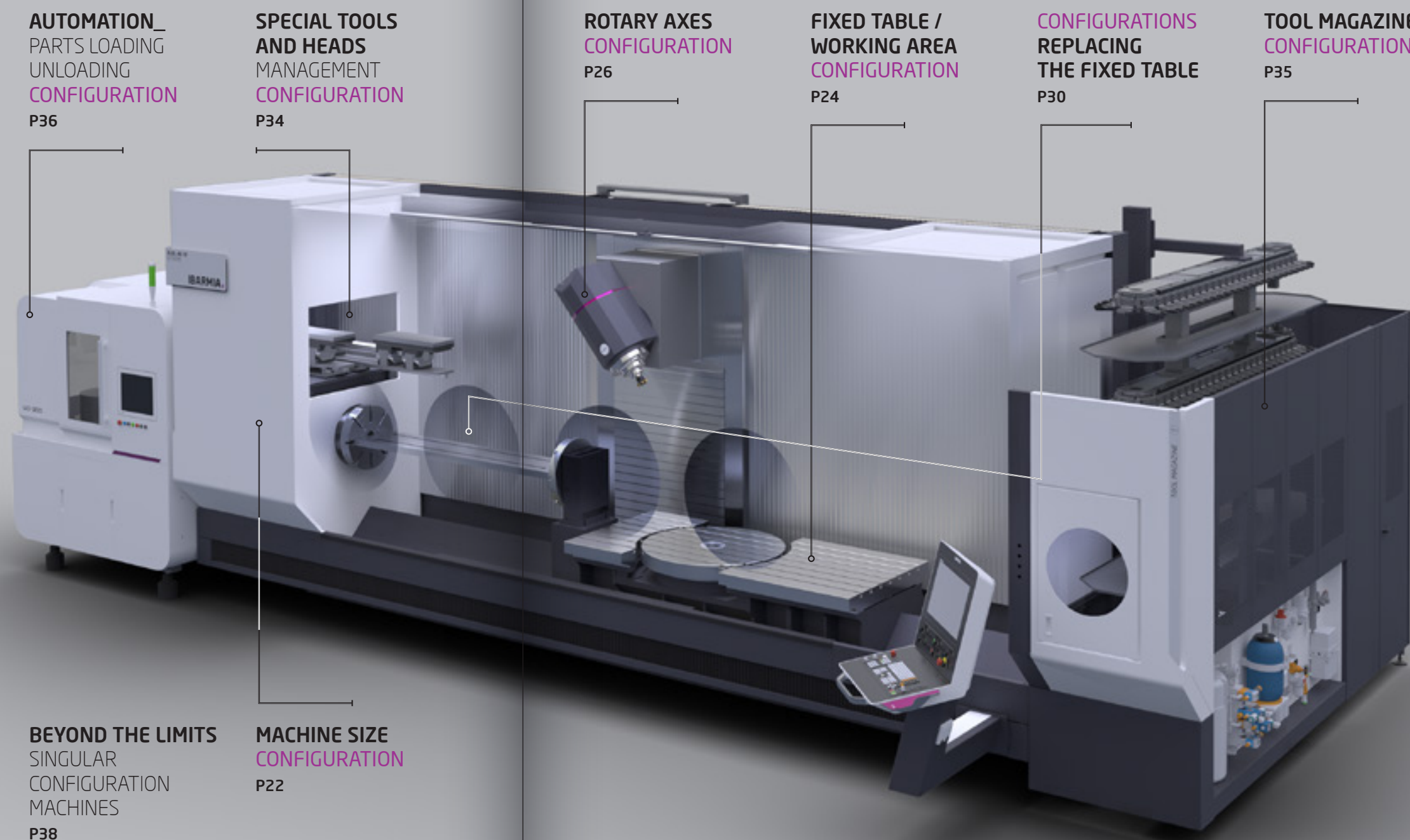
4.3_ MACHINE CONFIGURATION

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.



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.

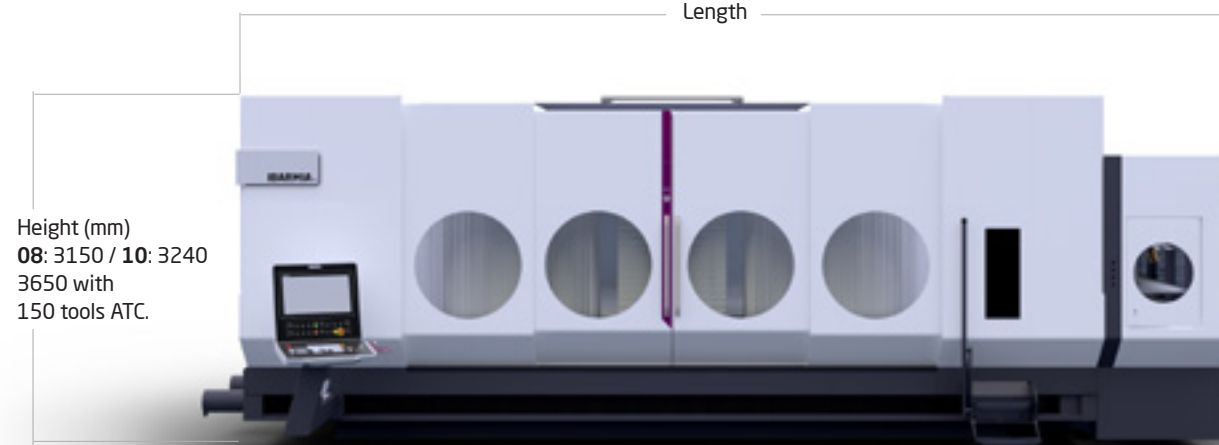
M SIZE MACHINE
STRUCTURE
DESIGNED FOR
**HIGH SPEED
MACHINING**



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

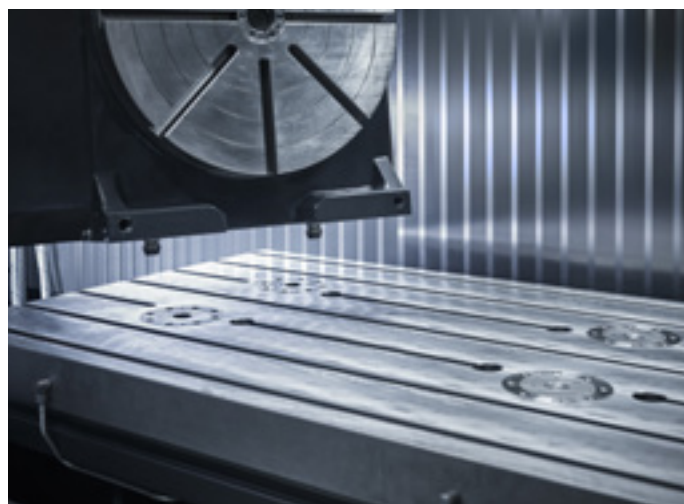


Height
08: 3540 / **10:** 3600 /
11: 3700
4050 with
150 tools ATC

02

TAKE FULL ADVANTAGE OF THE FIXED TABLE

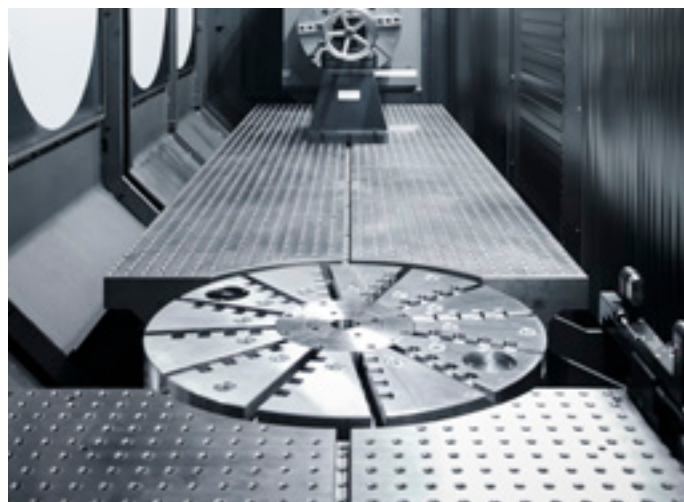
STARTING AT THE BEGINNING, THE FIXED TABLE STANDARD ARCHITECTURE OFFERS MULTIPLE CONFIGURATION POSSIBILITIES TO CUSTOMIZE THE MACHINE TO ALMOST ANY MANUFACTURING REQUIREMENT.

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.



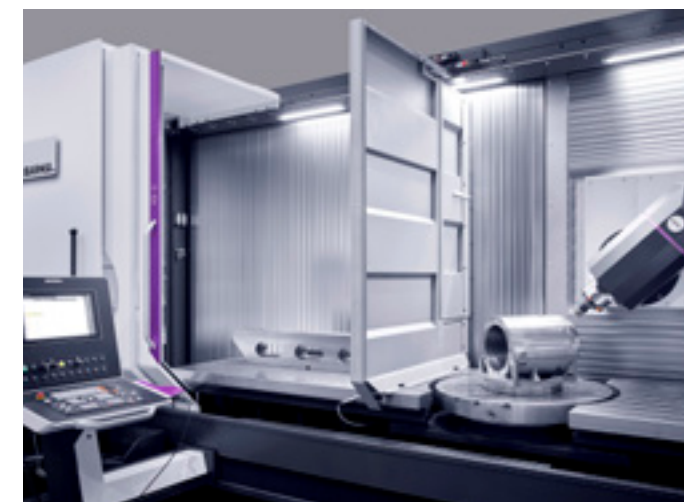
Customize the fixed table
with magnetic clamping systems for a direct positioning of parts and/or devices.

**Z SERIES**

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

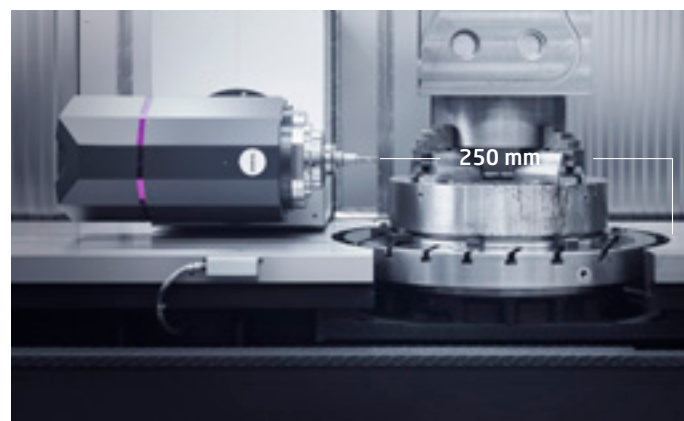
machining" option with a central division wall, independent blocking of front doors, and pendulum cycle working software.

03

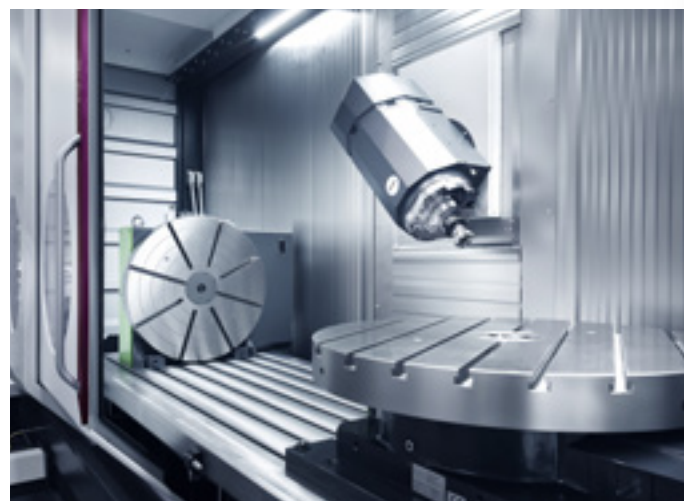
TOWARDS ADVANCED MACHINING

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



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°**



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.



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).



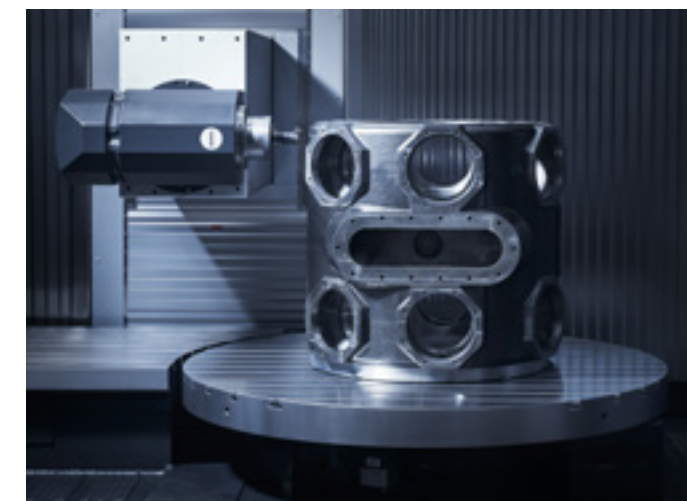
Z SERIES



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.



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



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 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 42).

FIXED TABLE & ROTARY AXES: An unlimited field of work



Fixed table with hydraulic connections.



Threaded fixed table for non-magnetic materials.



Fixed table with magnetic clamping system.



Integrate a wide range of fixturing devices.

FIXED TABLE CONFIGURATION POSSIBILITIES AVAILABLE FOR ALL Z SERIES MODELS



* ZV / ZS MODELS

ZS MODELS →



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



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

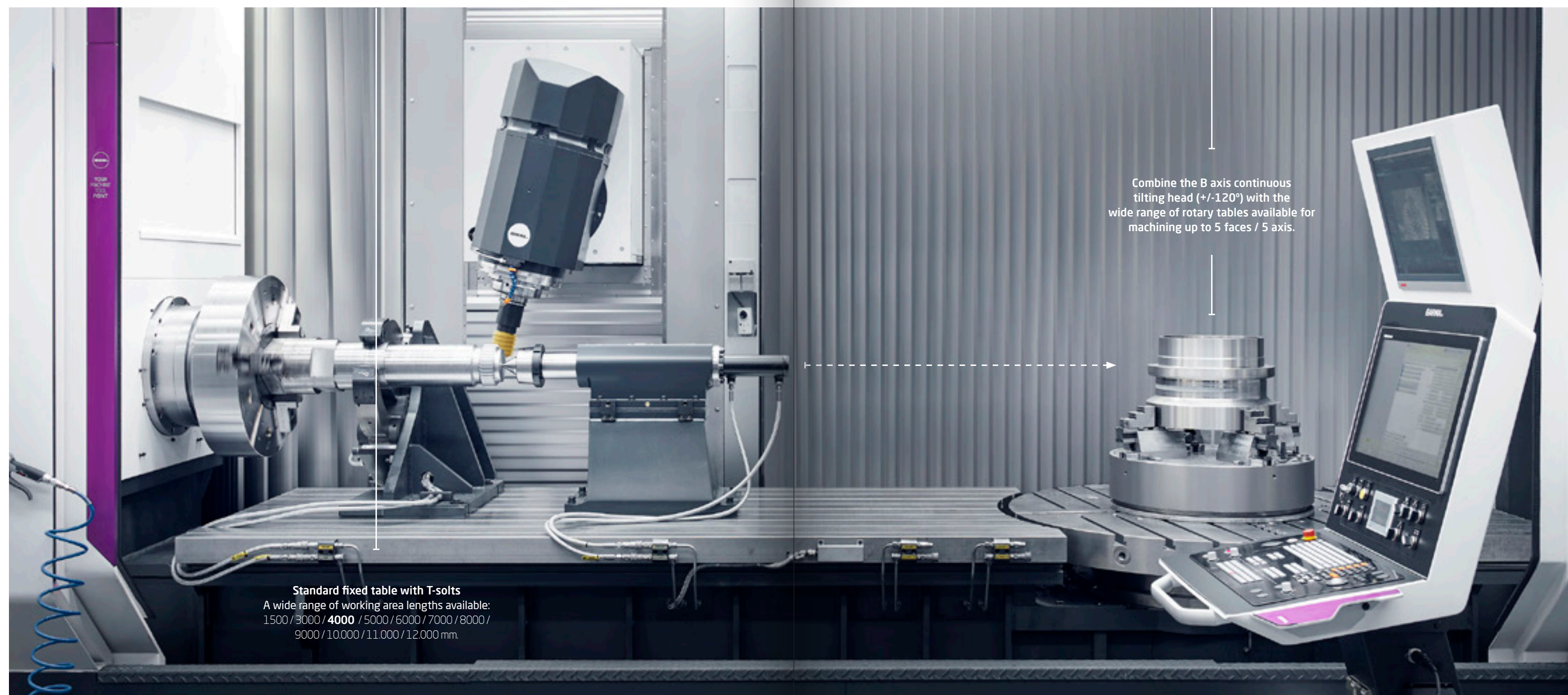


C axis integrated rotary tables for vertical 5 axis milling and turning operations.



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

ROTARY AXES 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.

Combine the B axis continuous tilting head ($\pm 120^\circ$) with the wide range of rotary tables available for machining up to 5 faces / 5 axes.

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**

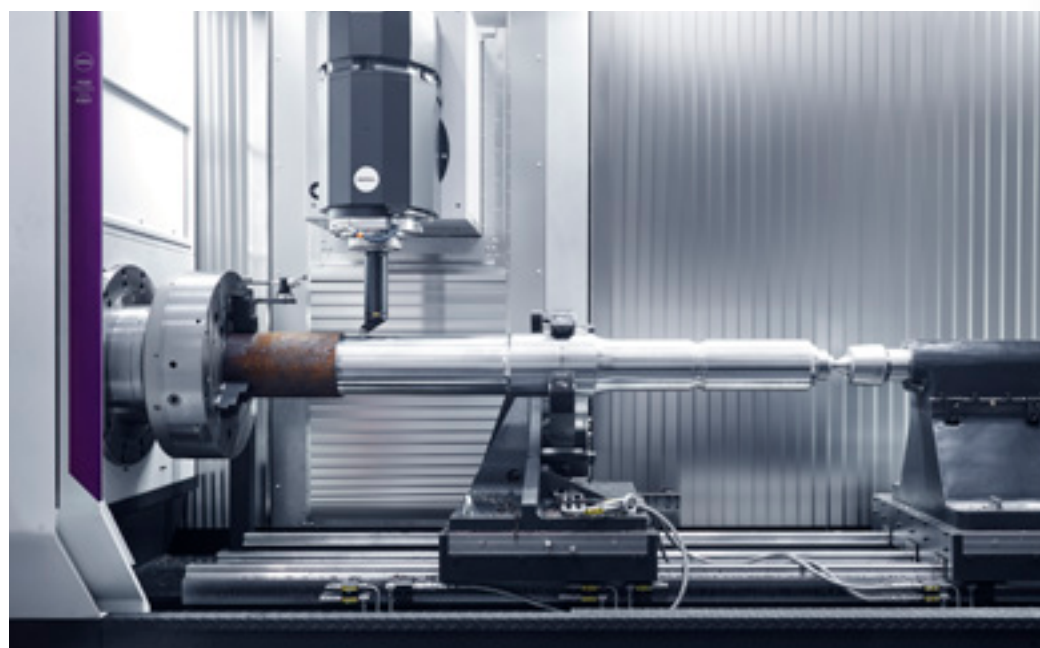
The moving support systems allow the easy moving of the different clamping devices for a quick preparation of short series of pieces with different lengths.

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

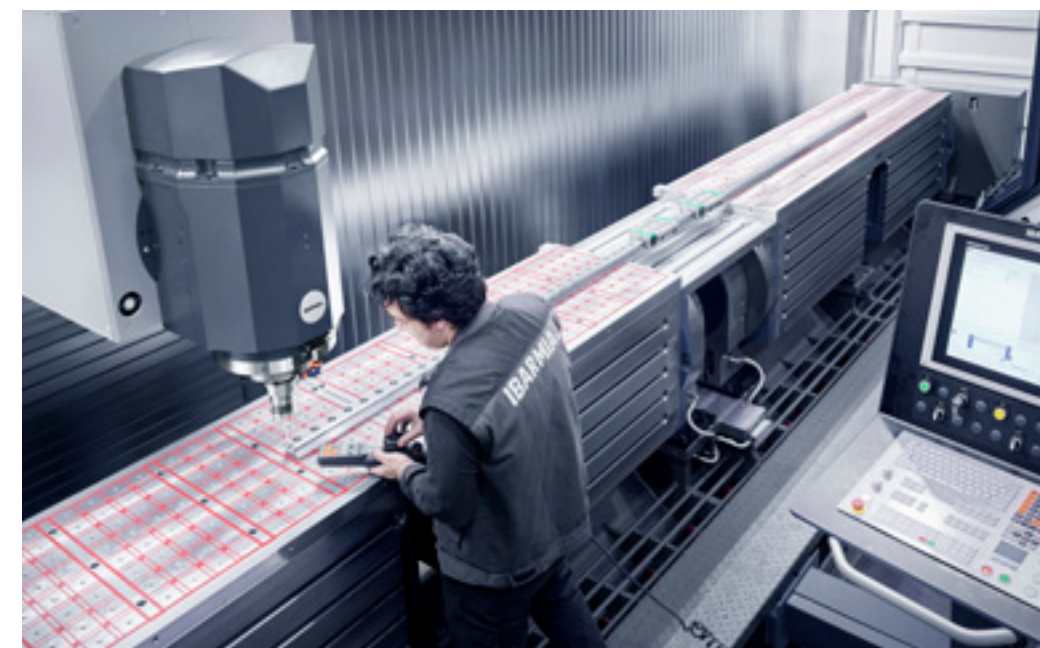
SOLUTIONS FOR INCREASE THE
PRODUCTIVITY
AVAILABLE FOR ALL
Z SERIES MODELS

**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"

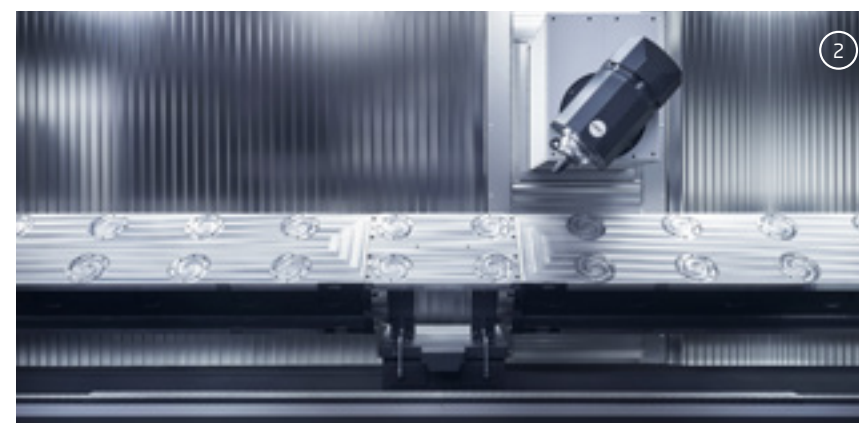
SOLUTIONS FOR INCREASE THE
PRODUCTIVITY
AVAILABLE FOR ALL
Z SERIES MODELS



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.



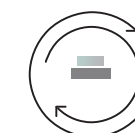
One face single trunnion
on the fixed table.



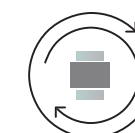
Two faces double trunnion
replacing the fixed table.



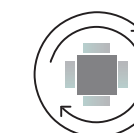
Four faces single trunnion
replacing the fixed table.



01



02

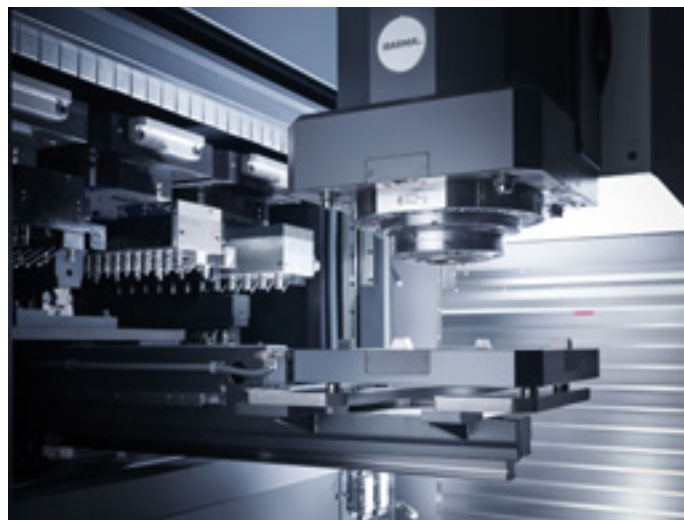


03

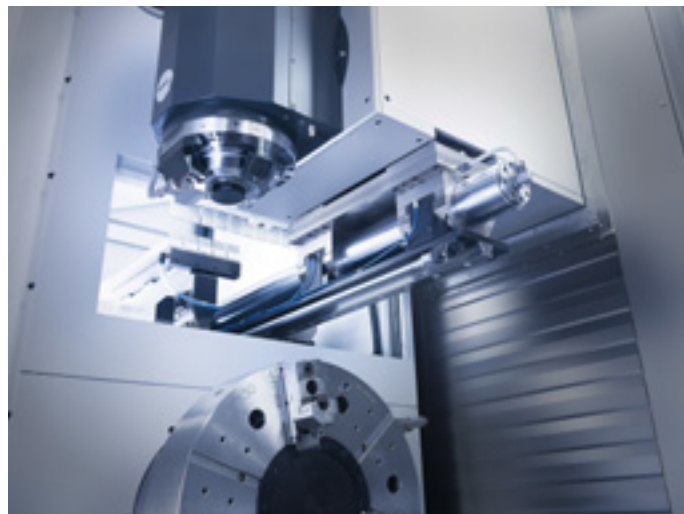
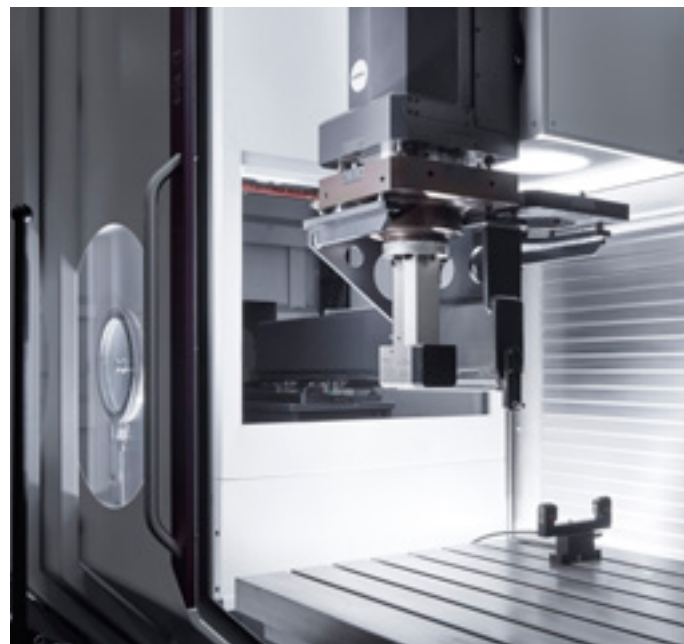
05

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

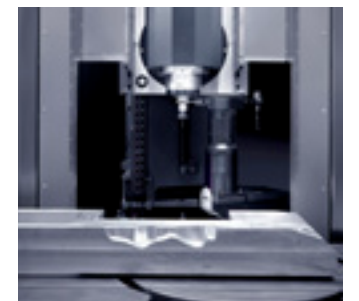
255 tools option

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

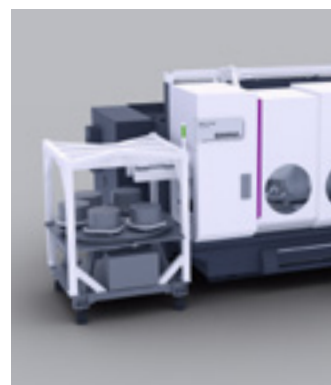
REACHING THE MAXIMUM PRODUCTIVITY

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

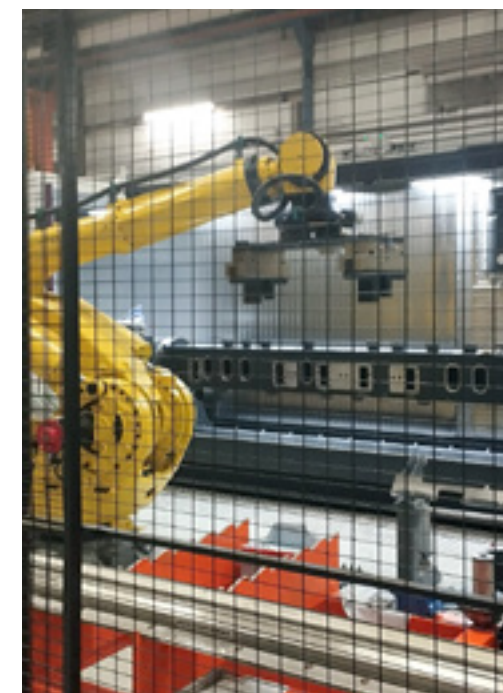
AUTOMATIC PARTS LOADING / UNLOADING CONFIGURATION**LATERAL LOADING / UNLOADING**

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 $\varnothing 650$ mm.

**Z SERIES****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_16.08 MULTIPROCESS_

This multitasking machine, designed for train wheels manufacturing, shows that there are no limits for IBARMIA's moving column architecture: With only 1600 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"



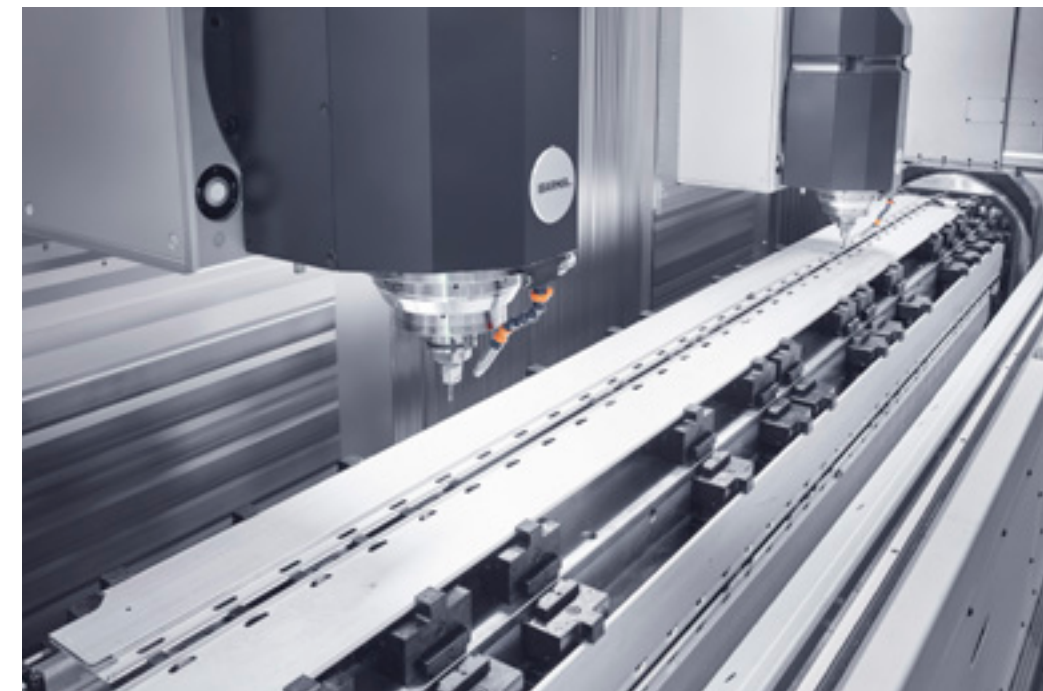
Z SERIES

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_ Technological integration
- 6_ Star Edition
- 7_ Technical specifications



Z SERIES

4.4_ 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.



Totally encapsulated working area and safety windows. (Standard).



Up to 12.000 mm long working fixed table with "T" slots. (Standard).



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



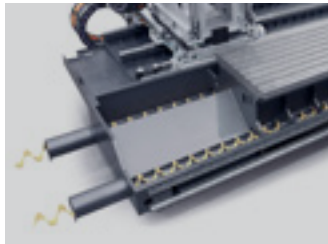
Standard convertible roof for an easy loading/unloading of parts by crane. ((Standard).



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



Chip conveyor with integrated coolant tank. (Standard).



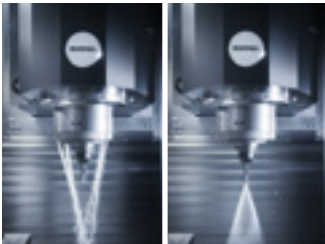
Double auger system for chip evacuation (long tail chip conveyor in ZM 08 model). (Standard).



• Climatized electric cabinet with easy access.
• Programmable central lubrication system. (Standard).



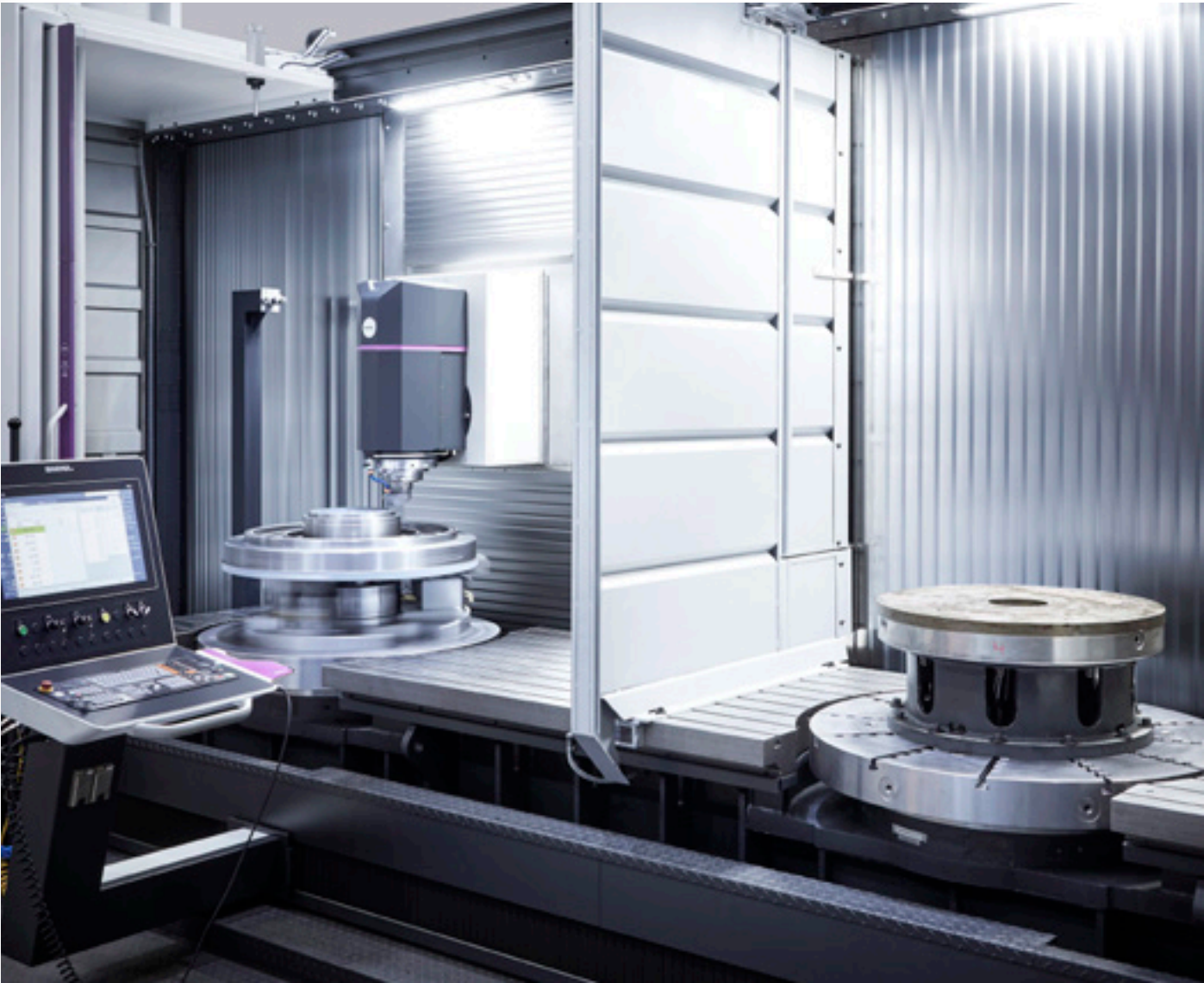
Moving and light control panel with 360° rotation over the entire longitudinal travel. (Standard).



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

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".



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

HEIDENHAIN
FANUC
SIEMENS

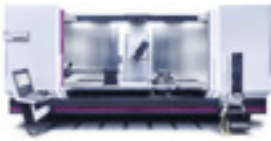
- 1_ Machine Program Summarizing
- 2_ Application industries
- 3_ Characteristics
- 4_ Create your own machine
- 5_ **Technological integration**
- 6_ Star Edition
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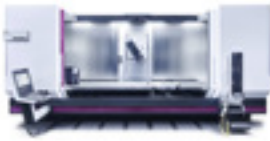
5_ TECHNOLOGICAL INTEGRATION

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



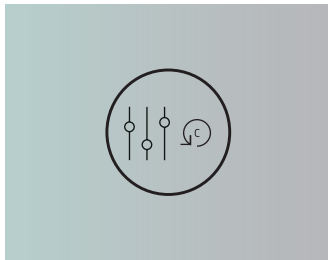
ZS EXTREME
5 axis milling machines

C AXIS AUTOTUNING

ZS MULTIPROCESS / EXTREME

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

- 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.



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.

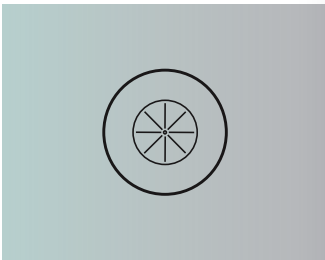


RESIDUAL
IMBALANCE CHECK

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.



Z SERIES

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 ZS multitasking and 5-axis models.

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

Achievable tolerances:
-Surface quality down to 0.8 µm. Depending on the process.



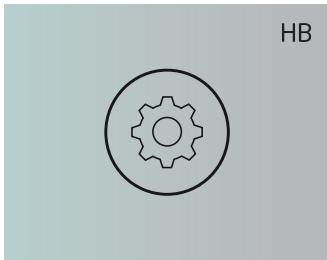
GEAR HOBBING

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).



- 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
- 2_ Application industries
- 3_ Characteristics
- 4_ Create your own machine
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- 6_ Star Edition
- 7_ Technical specifications

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.
 - Climatized 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.



Z SERIES

- 1_ Machine Program Summarizing
- 2_ Application industries
- 3_ Characteristics
- 4_ Create your own machine
- 5_ Technological integration
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- 7_ Technical specifications

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

HIGHLIGHTS & OPTIONALS

1_SPINDLES

ISO 40 **STANDARD**

Spindle taper: SK 40 / BT 40 / HSK A-63.
Power S1 (100%): 30 kW.
Power S6 (25%): 50 kW.
Total available power
from: 2200 rpm.
Torque S1 (100%): 130 Nm.
Torque S6 (40%): 200 Nm.
Max. speed: 12.000 rpm.

ISO 50 **OPTIONAL**

Spindle taper: SK 50 / BT 50 / HSK A-100.
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

Heidehain 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

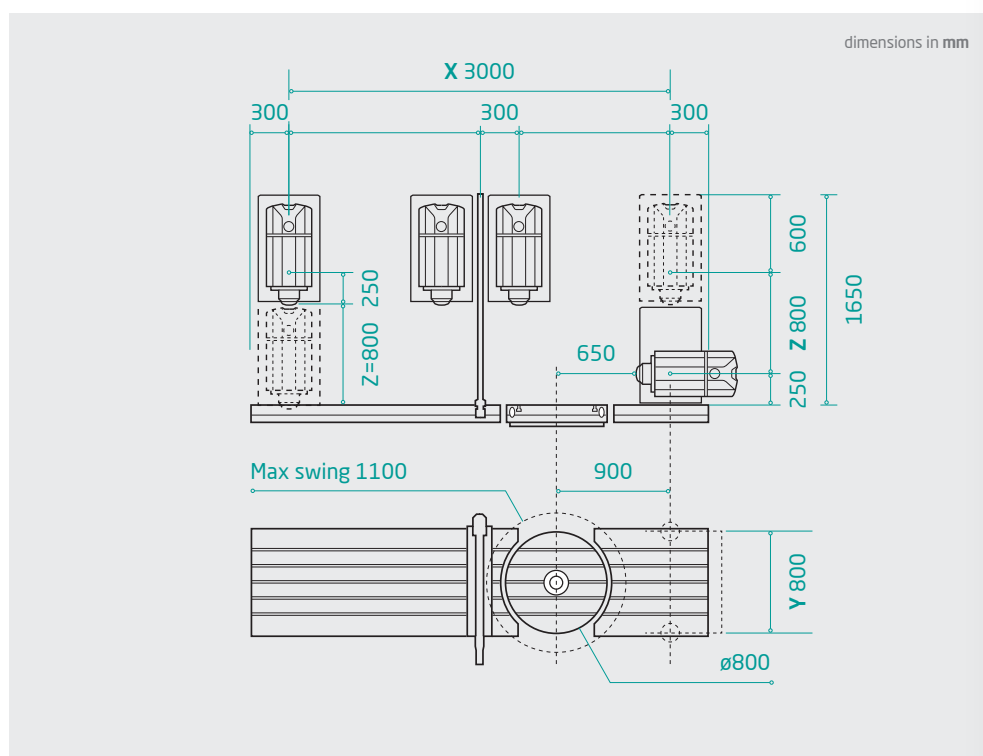
OPTIONAL polar type magazine

220 tools for SK 40 type
spindle taper.

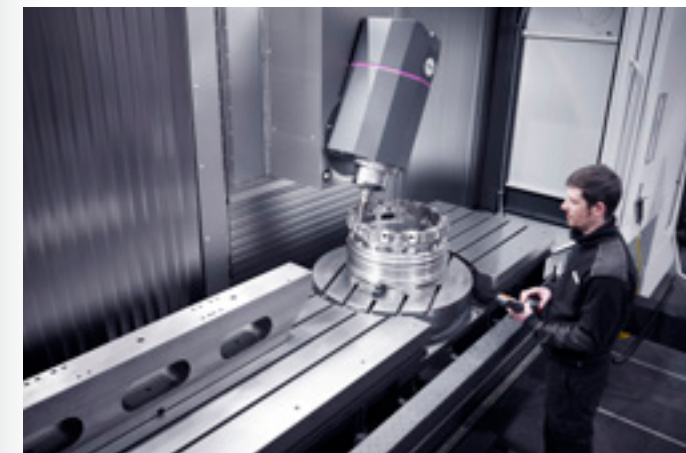
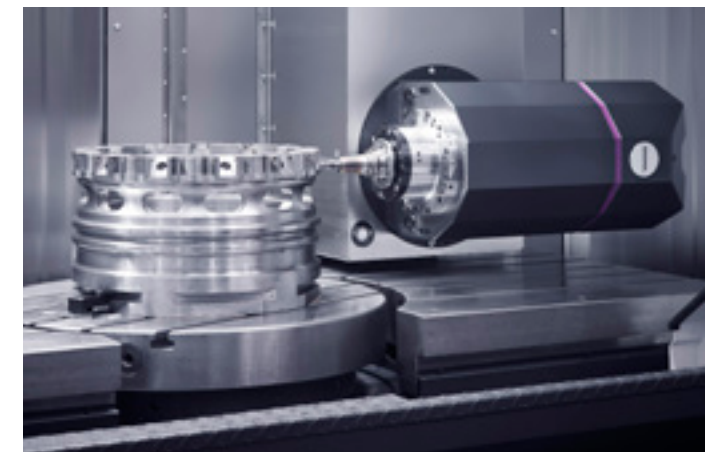
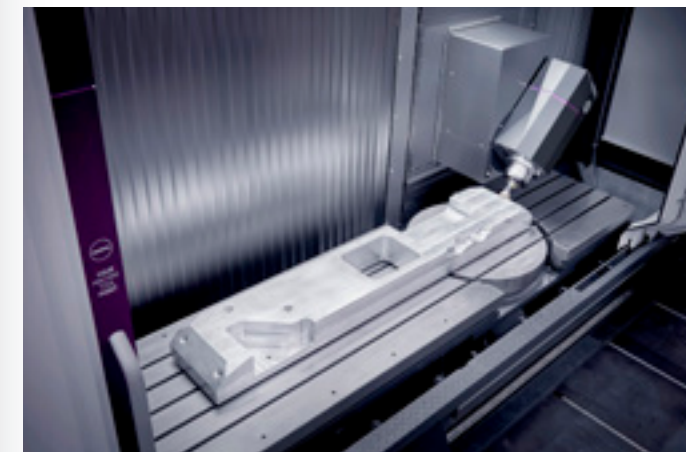
134 or **255** for SK 50 type
spindle taper.

5_WORKING AREA

OPTIONAL NMS; "Nonstop Machining"
pendulum working system.

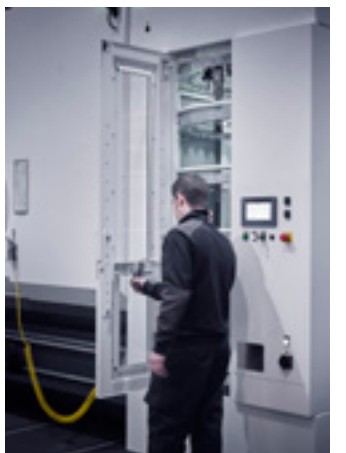


Z SERIES



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 long of the the high load
capacity fixed table (1500 kg/
m²) for machine long parts, and
the integrated rotary table for
manufacturing complex parts
up to in 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 a easy load / upload
tools while the machine is running.

- 1_ Machine Program Summarizing
- 2_ Application industries
- 3_ Characteristics
- 4_ Create your own machine
- 5_ Technological integration
- 6_ Star Edition
- 7_ Technical specifications



Z SERIES

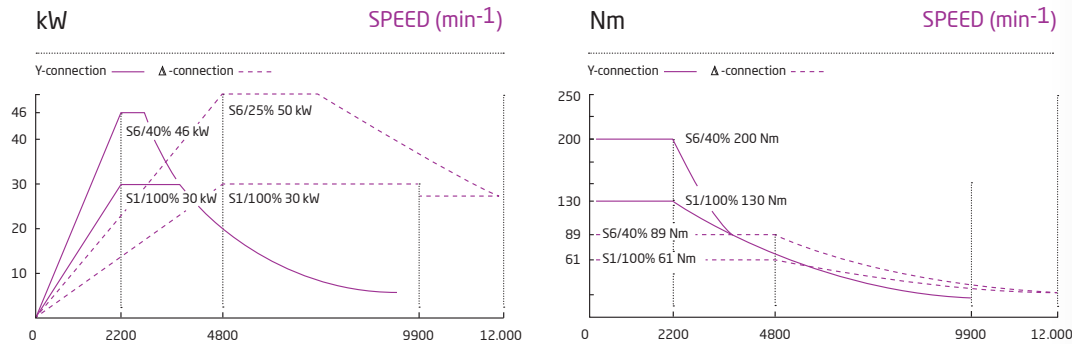
7.1_ LATEST TECHNOLOGY SPINDLES

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

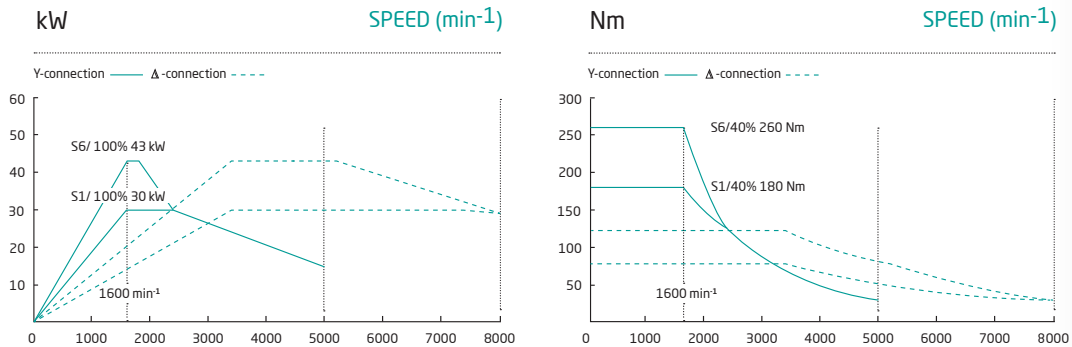


ISO 50 SPINDLES Higher torque spindles on request up to 650 Nm

50.1_ SPINDLE Optimized performance spindle_

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

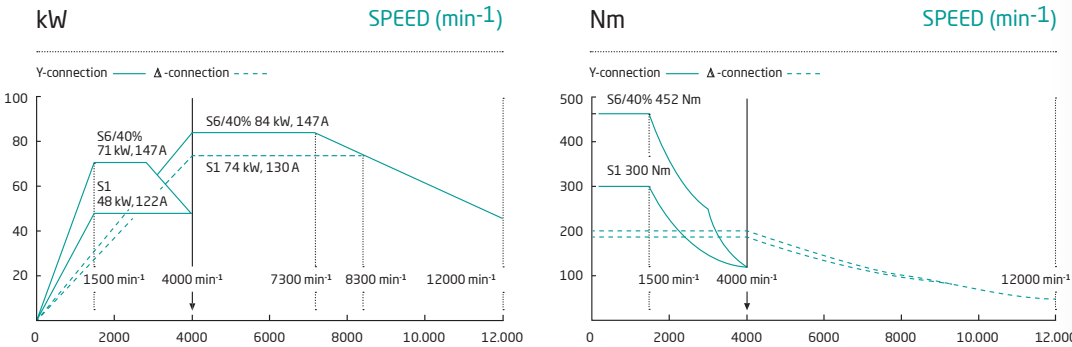
M machine size: OPTIONAL



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

TRAVELS

- X axis travel (length)
- Y axis travel (cross)
- Z axis travel (vertical) (*optional)
- B axis head tilting range
- C axis rotary table maximum swing diameter*
- Piece maximum height
- Distance spindle nose-table. Head in V position
- Distance spindle nose-table. Head in H position*

STANDARD WORKING AREA

- Fixed table dimensions
- Maximum table load capacity
- Number of "T" slots
- "T" slots size
- Distance between "T" slots
- Fixed table height
- C axis turning tables - A axis turning chucks

TILTING HEAD*

- Technology
- Position clamping force

MAIN SPINDLE (Standard)

- Tool holder
- Maximum speed
- Maximum power
- Maximum torque (Nm)

FEED

- Feed thrust X-Y-Z 100%
- Rapid feed for positioning X-Y-Z
- Maximum working feed X-Y-Z
- Rapid feed for positioning in B axis

ACCURACY VDI / DGQ3441

- Positioning Tp X-Y-Z (1000 mm)
- Repeatability
- Measuring system on B axis*
- Positioning accuracy B axis*
- Positioning accuracy C axis*

CAPACITIES

- Milling capacity in steel St 60
- Drilling capacity in steel St 60
- Tapping capacity in steel St 60

TOOL MAGAZINE*

- Number of tools**
- Maximum tool length
- Maximum tool weight
- Maximum tool diameter with full magazine
- Maximum tool diameter with free spaces
- Tool changing time
- Chip-to-chip time

CNC CONTROL

- Available digital controls

M		L		
MACHINE SIZE		MACHINE SIZE		
08	10	08	10	11
*ZM/LS MULTIPROCESS and ZM/LS EXTREME machine performance levels (view on pages 16-19)				
1500 - 12.000 mm				
800 mm	1000 mm	800 mm	1000 mm	1100 mm
800 mm	900 mm	1100 mm		1100 mm (1300*)
+/- 120°				
ø 1100 mm	ø 1300 mm	ø 1200 mm	ø 1400 mm	ø 1500 mm
800 mm	900 mm	1100 mm		
0---800 mm		0---1050 mm		
250---1050 mm		250---1350 mm		
X 1500: X +400 mm; ≥ X 3000: X+600 mm & Y +50 mm				
1500 Kg/m²		2000 Kg/m²		
5	7	5	7	9
18 H7 mm				
125 mm				
1050 mm		1050 mm		1150 mm
Various models available (see on page 27)				
*ZM/LS MULTIPROCESS and ZM/LS EXTREME machine performance levels (view on pages 16-19)				
Torque Motor System				
6000 Nm				
Various models available (view on left page).				
SK 40 / BT 40 / HSK A-63 / CAT 40 / Capto C6		SK 50 / BT 50 / HSK A-100 / CAT 50 / Capto C8		
Up to 12.000 rpm		Up to 12.000 rpm		
Up to 50 kW		Up to 84 kW		
Up to 260 Nm		Up to 452 Nm		
X: 11.992 N / Y: 8521 N / Z: 7669 N		X: 15.021 N / Y: 12.154 N / Z: 10.649 N		
40-40-40 m/min. Option: 50-50-50 m/min.				
30 m/min				
50 rpm				
*ZM/LS MULTIPROCESS and ZM/LS EXTREME machine performance levels (view on pages 16-19)				
8 µm				
5 µm				
Rotary scale				
+/- 5 s				
+/- 4 s				
900 cm³/min		2000 cm³/min		
ø 50 mm		ø 70 mm		
M 33 mm		M 45 mm		
*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		
Fanuc / Heidenhain / Siemens				

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.

WE BELIEVE IN SERVICE AND WE ARE COMMITTED TO THE PROFITABILITY AND RELIABILITY OF YOUR MACHINE;
A PROVEN EFFICIENT SERVICE THAT IS VALUED BY OUR CUSTOMERS.



TELEPHONE SUPPORT
SERVICE BY EXPERT
MULTILINGUAL STAFF



REACTION AND SOLUTION
TIMES ADEQUATE TO THE
CUSTOMER'S NEEDS



HIGHLY QUALIFIED
TECHNICIANS



GLOBAL SERVICE
VOCATION



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.

smart.
SOFTWARE

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.



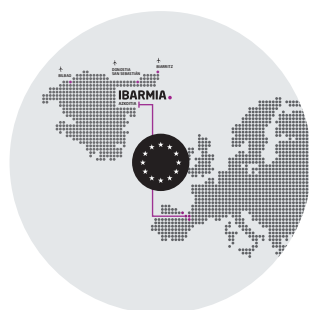
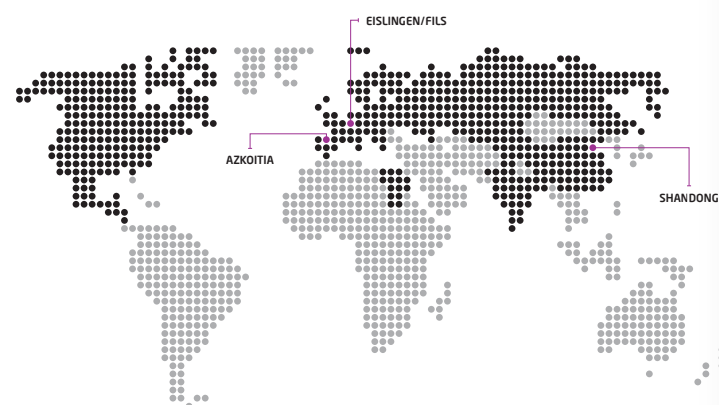


IBARMIA.

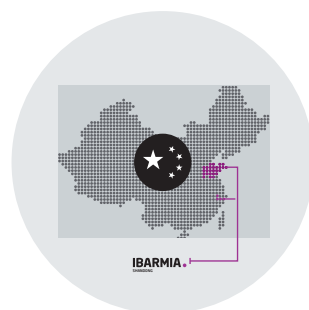
IBARMIA

GOING BIGGER, GETTING CLOSER

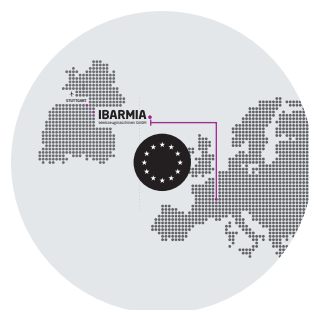
The last few years at IBARMIA have been intense in growth for the company. Determined to stay close to customers, the company has kept deepening the roots in the biggest markets of the world. This tendency will be kept in the future, with further development of these two areas of the world and others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



IBARMIA Azkoitia
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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