

# Z SERIES MACHINE PROGRAM

MOVING COLUMN  
MACHINING CENTRES

**IBARMIA.**  
YOUR MACHINE TOOL POINT



## Z SERIES

### THE MOST FLEXIBLE MACHINE SET UP IN THE MARKET

MOVING COLUMN  
MACHINING CENTRES

- 1 Chuck up to  $\varnothing 630$  mm.  
Available MULTIPROCESS.  
Up to 2000 rpm.

- 2 Torque motor B axis.  
Direct measuring by  
encoder installed on the  
rotating axis.

- 3  $\varnothing 800$  mm -  $\varnothing 1200$  mm.  
Up to 6000 kg.  
Available MULTIPROCESS.  
Up to 800 rpm.

ZVH 58/L4000 MULTIPROCESS





# YOUR MACHINE TOOL POINT



IBARMIA.

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and high torque.

## Z SERIES MACHINE PROGRAM

### CONCEPT\_

Fully convinced\_ It has been more than a quarter of a century since IBARMIA presented in 1986 their first machining centre 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 centres of fixed table and moving column offer superior ergonomics and flexibility.



## ERGONOMICS\_

AN UNRIVALLED PROPOSAL IN TERMS OF ERGONOMICS AND FLEXIBILITY.

By ergonomics we mean full, immediate, comfortable access of the operator to the working table for loading/unloading operations or for control operations during the machining process. If we add a working area designed for easy swarf removal, an easy top access via bridge crane even in the fully enclosed versions, moving control panel with inclined screen and keyboard, wide vision of the working area, total separation of working areas in pendulum cycle... it is not a surprise that this is the favourite design for operators and qualified experts of the sector.

### 1\_ TOTAL ACCESS TO THE WORKING TABLE

A wide opening of the front doors allows an excellent access to the working table to load, unload and fix pieces.

### 2\_ OPTIMIZED CRANE ACCESS\*

The design of the doors allows a wide opening of the roof\*, allowing a crane access to load/unload heavy and/or voluminous pieces.

*\*Optional in ZV CLASSIC.*

### 3\_ AUTOMATIC DOORS\*

No physical effort from the operator to open and close the doors. The system allows an independent closing/opening of each working area in pendulum cycle.

*\*Optional.*

### ERGONOMIC DESIGN

4 \_ The machine bed and guarding allow a space under the table where the operator can place his feet for an ergonomic access to the machine's working area.

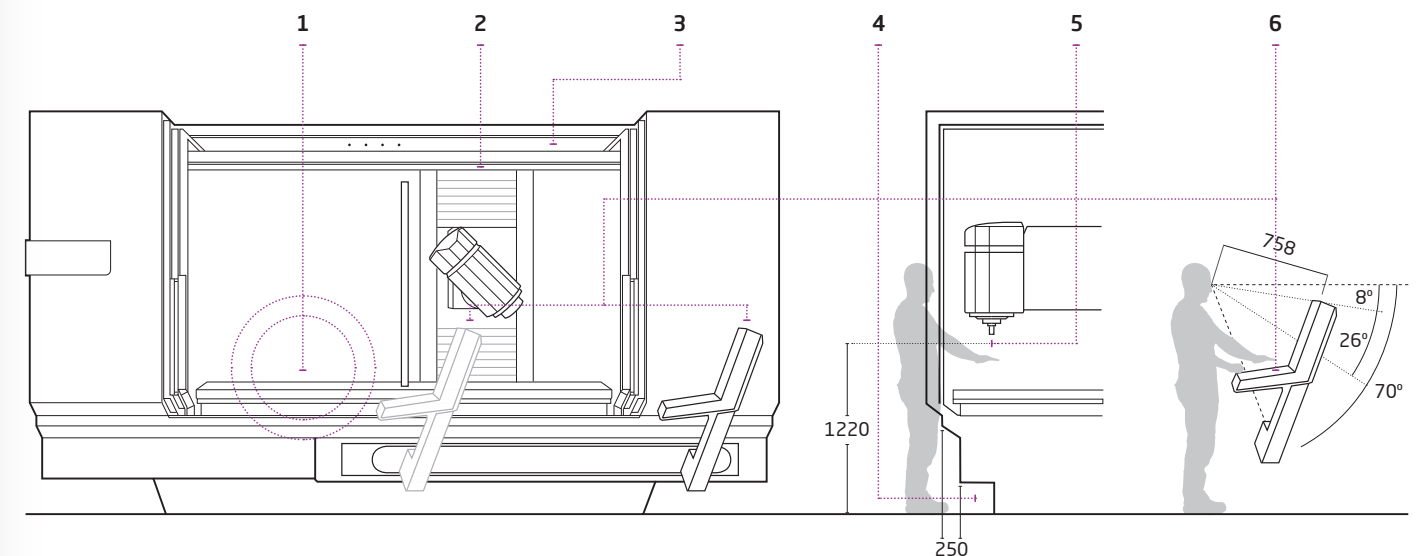
5 \_ Manual tool change or tool status check can be done from a very comfortable position; the distance to the change point is optimal.

### 6\_ CONTROL PANEL

Ergonomic design of the control panel. The inclination and height of the different areas of the panel are designed for an optimum interaction with the operator.

MOVING CONTROL PANEL  
Allows an easier interaction between machine and operator.

LIGHT CONTROL PANEL  
The control panel is very light thanks to the materials used (polyester reinforced with fibreglass), making it very easy to move.



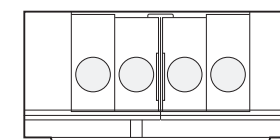
## FLEXIBILITY\_

COMBINATION OF AXES AND PROCESSES: UNPRECEDENTED PRODUCTIVITY & PRECISION.

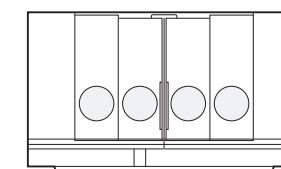
By flexibility we mean capacity to machine pieces in a wide range of sizes: small, medium, and large and from various industrial sectors such as general subcontracting, mould making, machinery making, energy sourcing, automotive and aerospace. The high configurability and the combination possibilities offered by the fixed working table provide an unlimited field of work, a differential value for the customer and a return of investment of maximum viability.

## Construction sizes\_Z SERIES

SK 40



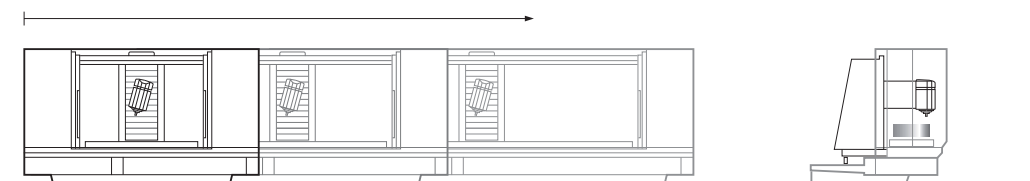
SK 50



Especific machine construction for each spindle size: SK 40 - SK 50

Up to 12000 mm in X axis

Un to 1100 mm in Y axis.



L1600 / 2200 / 3000 / 4000 / 5000 / 6000 / 7000 / 8000 / 9000 / 10000 / 11000 / 12000

## Configurations for ZVH\_ MULTIPROCESS / EXTREME



Machining of the sides and top face of a long piece.



Machining of a piece of complex surface.



Machining of pieces fixed on plates or cubes rotated by a horizontal rotary table and support.



**ZVH headstock**  
B axis +/- 105°  
5 AXIS MACHINING.



Machining in pendulum cycle with an integrated rotary table.



Machining in pendulum cycle with an integrated rotary table on each side.



Machining in pendulum cycle with a rotary table in one side and pieces on the fixed working table on the other side.



Machining in pendulum cycle with integrated rotary tables on each side.



Machining in pendulum cycle with integrated rotary table on one side and horizontal rotary table on the other side.



Machining with a vertical/horizontal rotary table placed over the fixed working table.

## Configurations for ZV\_ EXTREME / CLASSIC



Machining of large pieces along the whole extension of the working table.



Machining of medium size pieces along the whole extension of the working table.



Machining of extra long pieces thanks to side windows on the guarding.



**ZV Classic headstock**  
3 AXIS MACHINING.



Machining of pieces fixed on plates or cubes rotated by a horizontal rotary table and support.



Machining in pendulum cycle of batches of small or medium size pieces, avoiding constant tool changes.



Machining in pendulum cycle with a rotary table in one area and pieces on the fixed working table on the other side.



Machining in pendulum cycle with a horizontal rotary table on each side.



Machining in pendulum cycle with fixed table on one side and a 2 axis rotary table integrated in the machine bed on the other side.



CONSTRUCTION  
FEATURES\_

Every customer, every piece, every material, every process requires a specific performance from the machine. At IBARMIA we give the optimal solution for every case but always following a quality standard ensuring a good performance in terms of rigidity, dynamics, material removing capacity, precision and productivity.

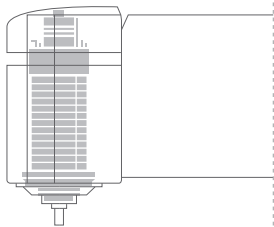
PRECISION IS FIRST ACHIEVED,  
AND THEN MEASURED.

MAIN CHARACTERISTICS

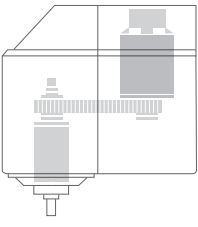


1\_ Linear axes are verified by laser interferometers following norm VDI/DGQ3441 and circularity accuracy by ball-bar.

TYPES OF TRANSMISSION



**MOTOR SPINDLE**  
Motor spindle transmission for very high spindle speed ranges.



**BELT AND PULLEY**  
Belt and pulley transmission for medium spindle speed ranges.



2\_ Machines with an X axis stroke longer than 4000mm are provided with ball screw supports to prevent bending and vibrations in rapid movements.



3\_ Rectified ball screws of high precision with preloaded double nuts for axis movement, using the rotating nut technique on the longitudinal axis.



4\_ Maximum stability and rigidity ensured by the well proportioned distances between guides and the monoblock design of the machine bed. Some models have 3 guides on the longitudinal axis when required.



5\_ Geometric check and volumetric calibration of the machine by laser interferometer on request, (Laser Tracer) following norms ISO 230- 2, -4 and -6. Maximum guarantee of accuracy.



6\_ Standard measuring device on X, Y, Z axes in our machining centres: glass scales.



7\_ Movement on X/Y/Z axis over linear guides with preloaded rolling shoes with two rows of circulating rollers which provide everlasting, rapid and precise movements (maintenance free).



8\_ Structural bodies of maximum rigidity for an optimum performance throughout the machine's life cycle.

# ZVH MULTIPROCESS 40/45/48/ 50/55/58/60

MULTIPROCESS CENTRE:  
TURNING + MILLING.

Moving column with tilting head for milling and turning operations. The combination of the tilting head with milling and turning capacities, with 1 or 2 turning axes (horizontal or vertical turning axis) and the possibility of the use of pendulum cycles, make the ZVH MULTIPROCESS a bet for the highest technology and the maximum equipment display for the industry.



MORE PRODUCTIVITY  
FOR YOUR MACHINING  
PROCESSES, MORE  
COMPETIVENESS FOR  
YOUR COMPANY.

The integration of machining processes in the IBARMIA MULTIPROCESS Series minimizes the amount of machines required and reduces considerably the machining times of complex pieces. But these are not the only advantages of applying the most advanced, groundbreaking and unstoppable technology of the last years, a technology that sets a milestone in the machining universe and clearly raises the bar of its users over their competitors.

The efficiency associated to the MULTIPROCESS centres improves the quality of the final piece as fewer machines and thus fewer piece set ups are required; it reduces the cost of the initial investment as well as the floor space required, eliminates the transit of pieces between machines and simplifies the production management.

SK 40\_ 40 / 45 / 48



SK 50\_ 50 / 55 / 58 / 60



## INTEGRATED VERTICAL TURNING PLATES

High dynamics for turning operations and accurate positioning for milling operations. Wide range of turning speeds for vertical or horizontal turning operations.

## CLAMPING DEVICES

Jaw chucks and clamping devices designed for milling and turning operations. Consulting and/or manufacturing clamping devices for pieces of our customers. Our proven track of 60 years building, most importantly, using machines, back us.

## FLEXIBILITY WITH NO LIMITS

Various works on the turning plate or the fixed table, with the possibility of combining them with the pendulum configuration. We give you the means and support using them. Maximize your performance.

## HSK A-100

Tool holding force and maximum rigidity for milling and turning tools. Please check for other tool holding systems (KM, Capto, HSK-T...)



TECHNICAL CHARACTERISTICS

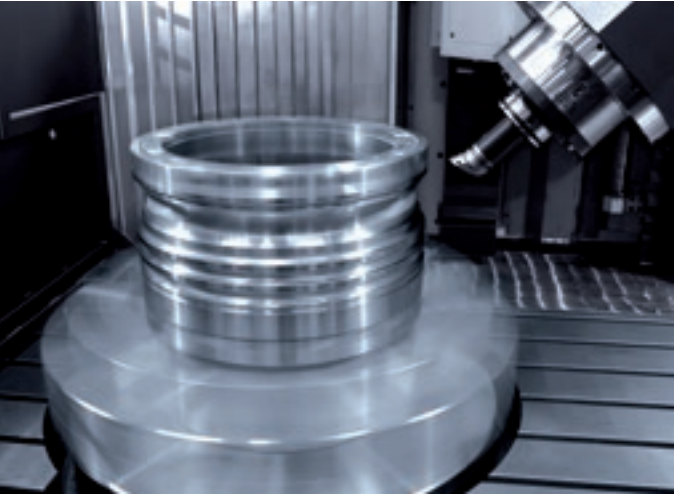
	40	45	48	50	55	58	60
Strokes							
X axis	Up to 12000 mm			Up to 12000 mm			
Y axis	600 mm	800 mm	1000 mm	600 mm	800 mm	1000 mm	1100 mm
Z axis	900 mm			1100 mm			Op. 1300 mm
B axis	+/- 105°			+/- 105°			
Electrospindle							
Spindle taper	HSK A-63. (Op. Capto C6)			HSK A-100. (Op. Capto C8)			
Power / Speed	30 kW - 12000 rpm. (S1 100%)			48 / 74 kW - 12000 rpm. (S1 100%)			



**B AXIS OF HIGH DYNAMICS**  
Head tilting range +/- 105° with motor spindle of 12.000 rpm for milling and turning with a blocking system for the tool.  
Precise assembling by expert hands in a room with constant temperature.  
IBARMIA's own design developed by static and dynamic analysis of the behaviour under efforts in milling and turning operations.



**NEW MACHINING CONCEPT**  
The multiprocess concept reduces time and errors, drastically increasing the productivity.  
Combination of the following processes in one single machine: milling, drilling, tapping, boring, turn/mill and turning.  
Multiple configurations of vertical and horizontal turning axes from Ø250 mm to Ø2000 mm.





# ZVH EXTREME 40/45/48/ 50/55/58/60

5 AXIS AND MULTI FACE  
MACHINING CENTRES

Moving column with tilting head. For 5 axes simultaneous machining by integrating a rotary table and/or multi face machining of pieces of complex geometry. Head: Motor spindle; dynamics and high revolutions. Up to 12000 mm in X axis. 800/1000/1100 mm in Y axis. 1100 mm in Z axis (op. 1300). Specific constructions bodies for size SK 40 or size SK 50.



THE IMPORTANT THING IS  
NOT THE HEAD, BUT WHAT  
WE HAVE INSIDE.

SK 40\_ 40 / 45 / 48



## HIGH PRODUCTIVITY AND FLEXIBILITY WITH NO LIMITS

Possibility of pendulum configuration with 2 independent working areas and different equipment level on each area. Generic works along the table or pendulum work on series of pieces.

## PROCESS CONTROL

We speak about machines with the highest technology and combination of lineal and rotating axes. We use the most advanced CAM tools to support our customers in the most suitable and innovating processes, reducing to a minimum the risk of collision.

SK 50\_ 50 / 55 / 58 / 60



## MOVING COLUMN

Monoblock machine bed, everlasting stability in moving column architecture. High dynamic performance, lineal rapid movements at 45 m/min with high accelerations.

## ATTRACTIVE AND INNOVATING DESIGN

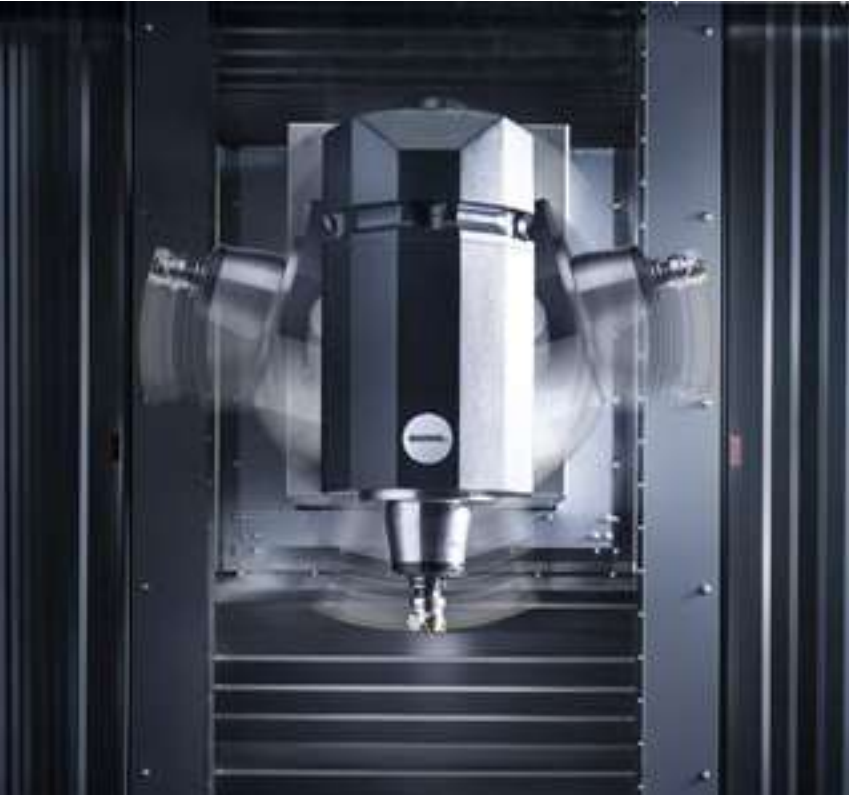
Advanced and clean exterior design making it an attractive and beautiful machine. The circular windows, besides being the IBARMIA corporate identity, give it originality and make it stand out from the crowd. The combination of grey tones with details in the corporate colour violet highlight its lines and make it an elegant and pleasant machine for the user.

Since 2001 we turn the head but still look ahead. In 2001 we decided to add the B axis or continuous tilting head to the valuable advantages of our machining centres of fixed table and moving column. We apply the most advanced technology in the market: Transmission by a torque motor installed on the rotating shaft and direct measuring on the axis.

Result: extraordinary dynamics, automatic recovery after collisions and maximum precision in positioning and repeatability. The high position holding torque, working as a live axis as well as blocked axis, with an additional braking function for the 2nd case, guarantees the axis position during the most demanding machining operations.

TECHNICAL CHARACTERISTICS

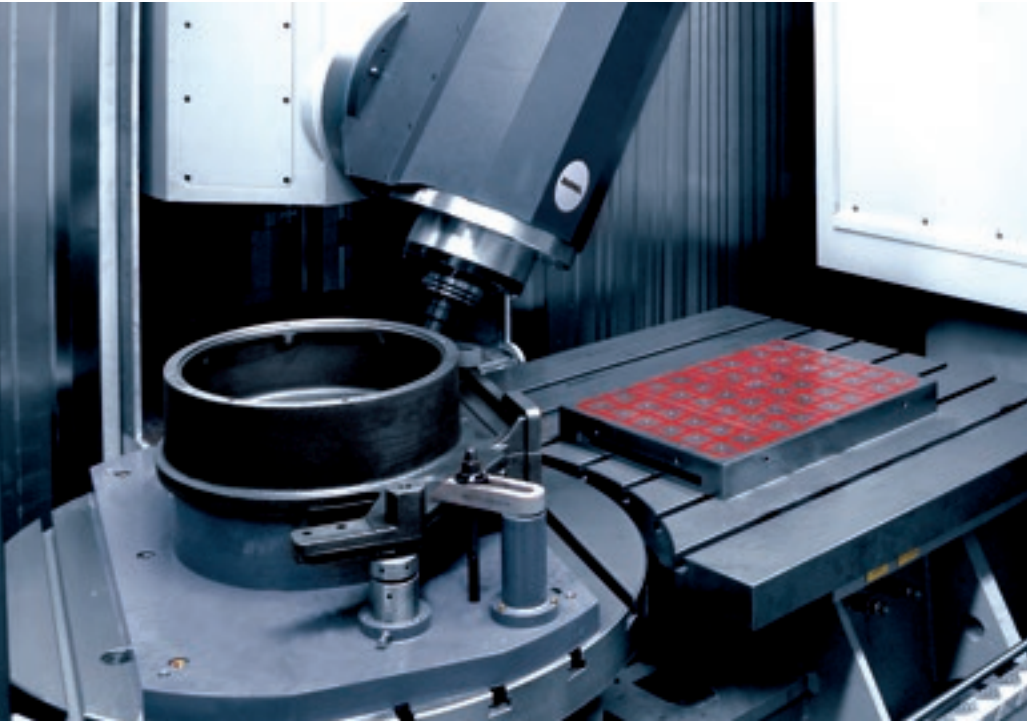
	40	45	48	50	55	58	60
Strokes							
X axis	Up to 12000 mm			Up to 12000 mm			
Y axis	600 mm	800 mm	1000 mm	600 mm	800 mm	1000 mm	1100 mm
Z axis	900 mm			1100 mm			Op. 1300 mm
B axis	+/- 105°			+/- 105°			
Electrospindle							
Spindle taper	SK-40. (Op. BT-40 / HSK A-63)			SK-50. (Op. BT-50 / HSK A-100)			
Power / Speed	27 kW - 12000 rpm. (S1 100%)			48 / 74 kW - 12000 rpm. (S1 100%)			



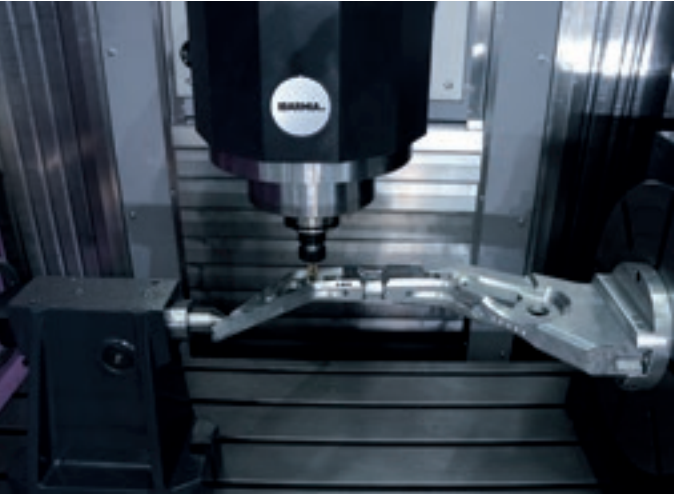
**B AXIS OF HIGH DYNAMICS**  
Head tilting range +/-105° by direct torque motor on the rotating shaft and motor spindle up to 20.000 rpm. Vanguard technology for advanced customers.



**STANDARD CONVERTIBLE ROOF**  
Ergonomic design of doors with a wide and smooth opening, facilitating the loading/unloading of pieces by crane.



**THE SUPER CENTRE THAT OFFERS UNLIMITED POSSIBILITIES: 5 AXES AND MULTI FACE.**  
5 simultaneous axes by integrating a rotary table and/or multi face machining of pieces of complex geometry.





# ZV EXTREME 40/45/48/ 50/55/58/60

CONFORT AND STANDARD SUPERIOR  
FEATURES IN 3 AXES MODELS

Models of 3 axes or in combination with horizontal rotary tables for works along the table, or in pendulum cycle. Head: motor spindle; dynamics and high revolutions. Up to 12000 mm in X axis. 600/800/1000/1100 mm in Y axis. 1000 mm in Z axis (op. 1200). Specific constructions bodies for size SK 40 or size SK 50.



## MATERIAL REMOVING CAPACITY OF A MILLING MACHINE WITH THE DYNAMICS AND FEATURES OF A MACHINING CENTRE.

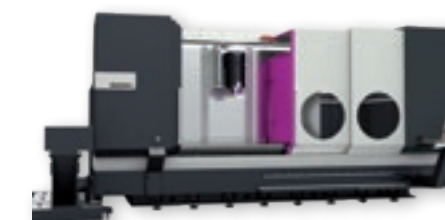
Designed for customers and applications where it is enough with a vertical spindle, but high revolutions are required, the ZV EXTREME is a perfect solution for all the advantages it provides. High revolution range and high turning torque. High positioning dynamics and high accelerations on the axes. Working area fully encapsulated: maximum comfort and safety. Interior vertical protection up to the roof on the X axis: it optimizes the chip and coolant evacuation.

Top enclosure of the working area with roof: it allows the access with a bridge crane. Tool change and tool changing arm out of the working area. Ideal solution to machine light materials that generate chips of high volatility.

SK 40\_ 40 / 45 / 48



SK 50\_ 50 / 55 / 58 / 60



### COMFORT AND SAFETY

Full encapsulating of the working area including roof. Apart from the acoustic advantage for the operator, it ensures a healthier working environment preventing the exit of chips, coolant and steam generated during the machining process. Mist extraction devices offered in option.

### NEW ATC, MORE RELIABILITY AND SPEED

The tool magazine of 24 (40/60) positions, travels with the carriage that makes the longitudinal movement, allowing the tool change at any position on the X axis. A servo controlled device presents the tool to the spindle and makes the tool change in a 180° turn. The entire device stays out of the working area, sheltered from chips and coolant and avoiding any interference with pieces and clamping devices.

### VERTICALITY AND GRAVITY, GUIDELINES FOR THE INTERIOR DESIGN

The chips generated in the machining process are the main reason for failures and maintenance works in the metal removing machine tools. In our battle against the problem we found a solution close to perfection. Enveloping the work area vertically leading to the endless screws that push the chips outside the machine bed.

### SIMPLIFIED MAINTENANCE

The studied positioning of the maintenance and service elements minimizes the time for these operations, inviting the customer to follow the recommended guidelines, improving and extending the machine's life.

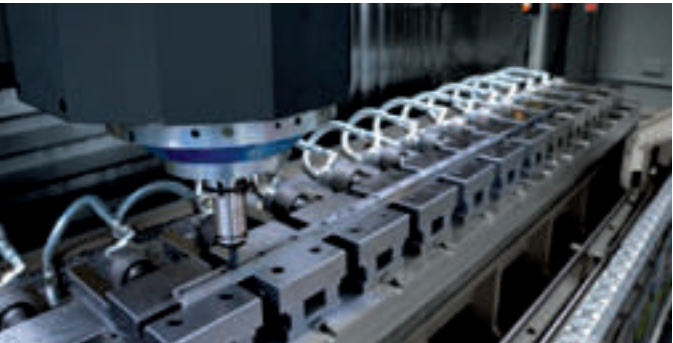
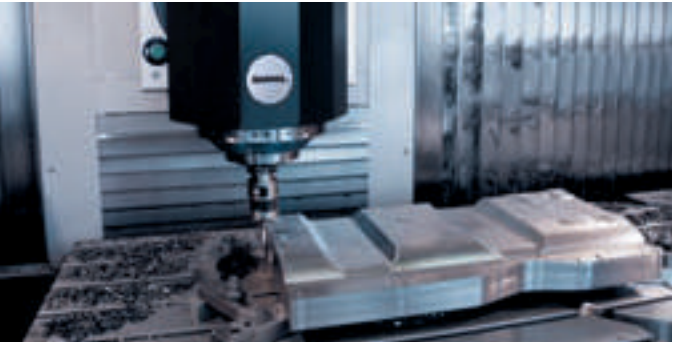
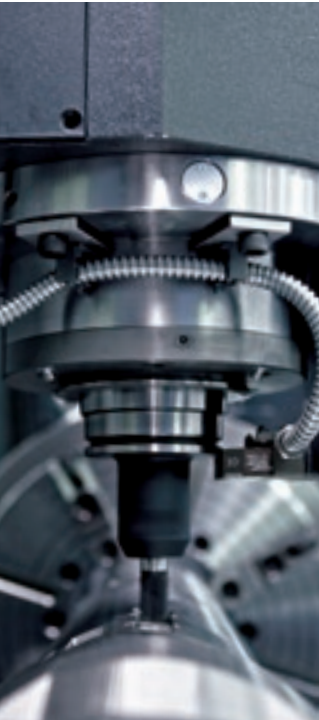


TECHNICAL CHARACTERISTICS

	40	45	48	50	55	58	60
Strokes							
X axis	Up to 12000 mm			Up to 12000 mm			
Y axis	600 mm	800 mm	1000 mm	600 mm	800 mm	1000 mm	1100 mm
Z axis	800 mm			1000 mm			Op. 1200 mm
Electrospindle							
Spindle taper	SK-40. (Op. BT-40 / HSK A-63)			SK-50. (Op. BT-50 / HSK A-100)			
Power / Speed	27 kW - 12000 rpm. (S1 100%)			48 / 74 kW - 12000 rpm. (S1 100%)			

BACKSTAGE

Behind the stage, it all happens on the other side of the curtains, the vertical protections that limit the action field. Here on the backside of the machine the longitudinal carriage travels on well spaced guides. Over the carriage the columns travels transversally (Y axis) and on the front side of the column the headstock moves vertically (Z axis) with a fix distance between main spindle and vertical guides. To balance all these forces, the tool magazine is mounted on the carriage, ensuring an optimal distribution of weights

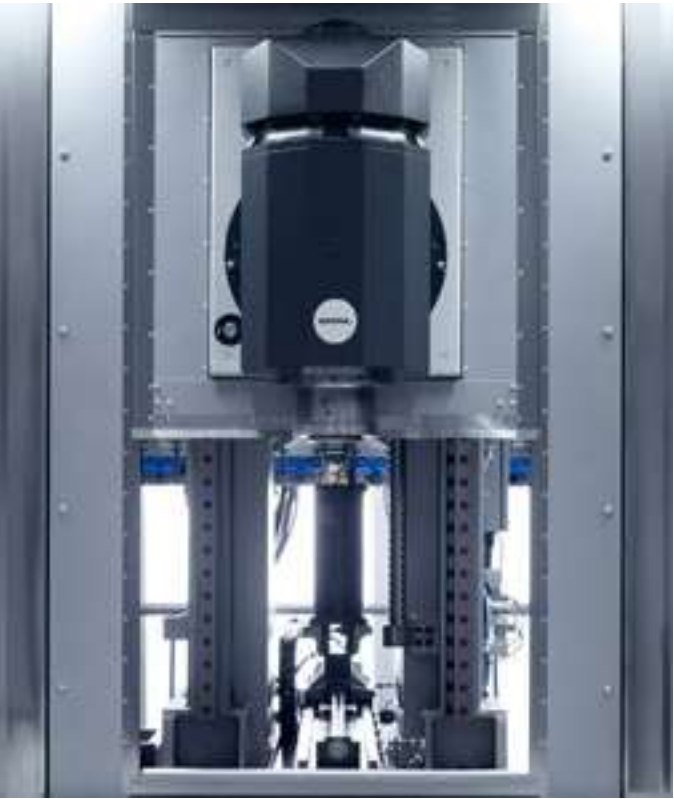


ZV EXTREME

The ideal machine for medium-large series of complex geometries that require precision and speed in the execution. The option of adding different rotary tables adds versatility to the machine. In certain applications, the fixed table may be removed on request to avoid chip accumulation on horizontal areas.



Automatic hydraulic clamping/ unclamping of tools in the ATC. Push button on the frontside of the headstock for tool loading/ unloading from the working position.



A servo controlled device presents the tool to the spindle. Optimized changing sequence for maximum dynamics.



ZV  
CLASSIC  
50/55/58

EVERLASTING TECHNOLOGY: RIGIDITY  
AND RELIABILITY WITH NO LIMITS

Models of 3 axes or combined with horizontal rotary tables for works along the table, or works in pendulum cycle. Classic transmission belt/ pulley: great rigidity and high torque. Up to 12000 mm in X axis. 600/800/1000 MM in Y axis. Constructions bodies for SK 50.



AT IBARMIA WE MACHINE FOR  
PLEASURE AND CONVICTION.  
WE DO NOT UNDERSTAND  
BUILDING MACHINES SO ONLY  
OTHER USE THEM.



SK 50\_ 50 / 55 / 58



TECHNICAL CHARACTERISTICS

	50	55	58
Strokes			
X axis	Up to 12000 mm		
Y axis	600 mm	800 mm	1000 mm
Z axis	800 mm		
Main spindle			
Spindle taper	SK-50. (Op. BT-50 / HSK A-100)		
Power / Speed	35 kW - 5000 rpm. (S1 100%)		

The series of machining centres of fixed table and moving column with vertical spindle is named CLASSIC for being the most similar to that model launched in 1986. The mechanical and electronic improvements along these years are endless but some fundamental concepts have not been modified. We continue using cast iron to build the moving structures of this Series. The main spindles are provided with generous bearings to ensure the maximum rigidity and material removing capacity.

The belt and pulley transmission offers medium speed ranges with a very high reliability. Due to the tall construction of this machine Series, the full enclosure of the working area is made on request.

WORKING TABLE

Spacious working tables with widths for different Y axis strokes of 600/800/1000 mm, they allow the simultaneous setting of different types of pieces with maximum ergonomics.

TOOL CHANGE

The tool magazine of 24 (40/52) positions, travels with the column that makes the longitudinal and transversal movements, allowing the tool change at any position on the X axis.

SK 50

Head spindle (35 kW) and main axis of maximum rigidity for great material removals, HSK A-100 in option. We dimension our machines for the required capacities and efforts.

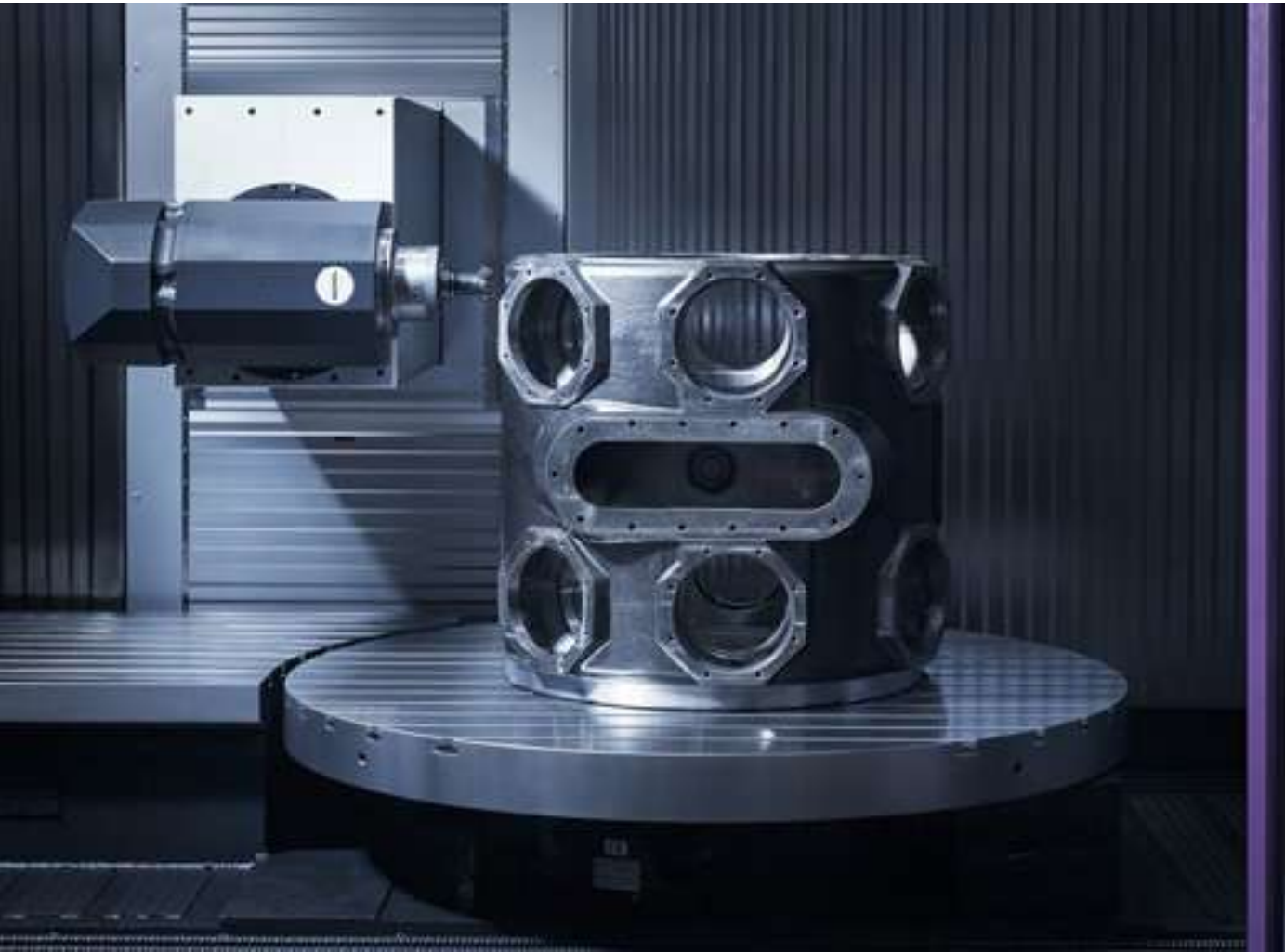
CLAMPING DEVICES

We have built up a lot of experience so we can design clamping devices for pieces of our customers, thanks to a 60 year track record building, and most importantly, using machines.

Z SERIES  
FLEXIBILITY  
WITH NO LIMITS

Because we offer our engineering capability, our experience in machine tool manufacturing and our knowledge about processes to the service of our customers. We analyse their requirement, we propose alternative solutions, we put together their knowledge and experience with ours... In other words, together we design the production solutions that best fit to their specification, achieving excellent results.

WORKING TABLE



The standard ZVH range usually fits rotary tables with a diameter covered entirely by the Y axis; however we could machine even bigger parts by simply rotating the part to machine a diameter up to double the size of the Y axis.

This allows 5 axis machining of heavy parts (up to  $\varnothing 2000$  mm) with all the advantages of the moving column design.

IBARMIA ADAPTS  
THE MACHINE TO YOUR  
SPECIFIC REQUIREMENTS.



Vertical axis integrated rotary table.



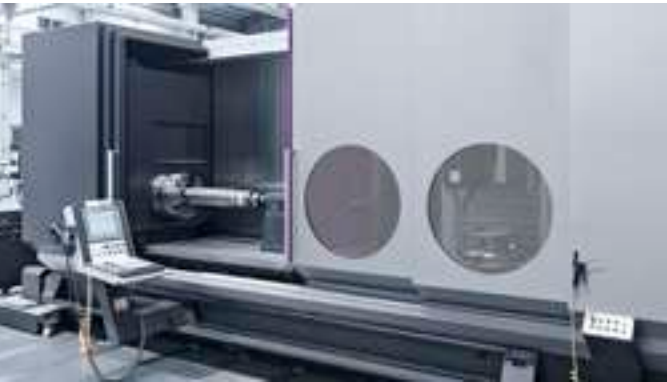
Bolt on rotary table to be used either in horizontal or vertical axis.



Integrated horizontal turning plates.



Extra long machine with X axis up to 12 metres. Ideal for beam type pieces for the aerospace sector.



**NON STOP MACHINING**  
it includes a central division wall, independent blocking of front doors, and pendulum cycle work area management software.



YOUR REQUIRED CONFIGURATION  
IS OUR STANDARD.

WORKING TABLE



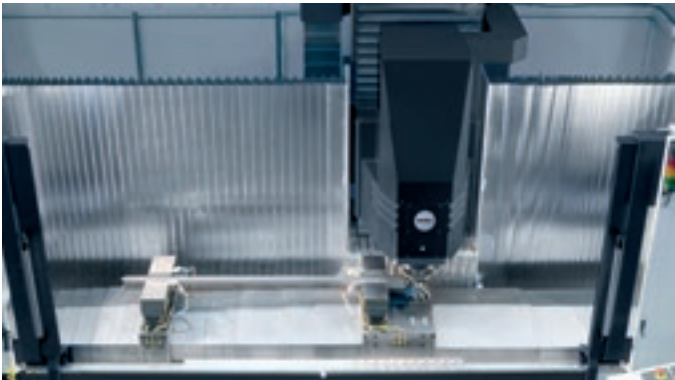
Replacing standard working table for plate fixed between horizontal rotary table and supporting plate.



Trunnion fixture.



Pendulum work application on rotary table avoiding the standard table and facilitating the fall of chips to the endless screws.



CNC controlled longitudinal vices, with open/close cycle synchronized with loading/unloading by gantry robot.

IBARMIA includes in the standard equipment various elements that are often not valued when purchasing a machine but are afterwards missed in the daily work, leading to highly unproductive situations due to machine cleaning and maintenance works. Guardings, protections and enclosures that ensure a clean working environment, higher machine availability, less maintenance requirement...

High standard equipment that can also be further customized. IBARMIA offers a wide range of options in mechanical equipment, designed to increase the productivity and flexibility of our machines.

TOOL MANAGEMENT



Manual positioning longitudinally moving tables to machine extra large pieces.



Specific solutions for customers that need to manage a high number of tools: fixed magazines, rack type configurations, etc..



Pick up station integrated in the machine to hold special tools and angular heads.

# Z SERIES SMART FUNCTIONS



Connected machines provided with the required technology for the most demanding production needs. For example, the SMART POINT platform, designed for smart intelligent management of data during the machining process, or our range of apps for an active support in the manufacturing process.

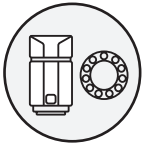
## TOWARDS THE SMART MACHINE



- 1\_ Indirect electrospindle compensation
- 2\_ Variable electrospindle preload
- 3\_ Electrospindle protection
- 4\_ Ball-screw preload control
- 5\_ Gear hobbing
- 6\_ Grinding
- 7\_ Mould pack
- 8\_ Y axis autotuning
- 9\_ C axis autotuning
- 10\_ Residual unbalance check
- 11\_ Cooling on demand
- 12\_ Temperatures reporting
- 13\_ Tool reporting
- 14\_ Status monitoring
- 15\_ Machine production



INDIRECT  
ELECTROSPINDLE  
COMPENSATION



VARIABLE  
ELECTROSPINDLE  
PRELOAD



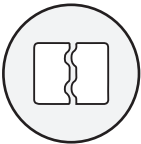
ELECTROSPINDLE  
PROTECTION



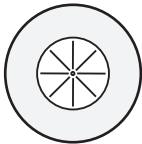
BALL-SCREW  
PRELOAD CONTROL



GEAR HOBGING



MOULD PACK



RESIDUAL  
UNBALANCE CHECK



STATUS  
MONITORING



MACHINE  
PRODUCTION



MACHINE  
MAINTENANCE

# Z SERIES ELECTRONIC EQUIPMENT

Purchasing an IBARMIA machine means choosing from a wide range of configurations to find the most suitable equipment for each customer. From an electronic point of view, we offer the possibility of adding high quality components to increase the machine's performance even more.

## PRESETTING DEVICES



Sender/receiver on fix support  
(must be located inside the  
machining area).



Sender/receiver mounted  
separately (no interference with  
the machining area).



Alignment, fixing of reference  
points and measurement by  
means of contact probes by radio  
waves or infrared beams.



Touch trigger automatic  
presetting probe for length  
and radius (probe must be in the  
working area).

## CNC CONTROL

Freedom to choose and user's comfort, basis for our CNC control proposal.



HEIDENHAIN



FANUC



SIEMENS

Latest generations of CNC controls of the most prestigious manufacturers: HEIDENHAIN, FANUC, SIEMENS.



# IBARMIA.

## YOUR SERVICE POINT

COMMITTED TO THE PROFITABILITY AND RELIABILITY OF YOUR MACHINE.

When a customer becomes part of the IBARMIA family, that special link makes us work together throughout the machine's lifetime. Servicepoint is the human team and their advanced technical means, endeavoured to meet the customer's requirement since the machine goes into their facilities. A high performance team, highly qualified and trained to work in complex situations and under pressure, a team that works together with our customers to get the most of our machines.

### YOUR SERVICE POINT

Because we are committed with the profitability and reliability of your machine, at servicepoint we propose:

#### CUSTOMIZED MAINTENANCE CONTRACTS

Various levels of maintenance contracts adjustable to each customer.

#### SPARE PART MANAGEMENT

We are well aware of the importance that the parts replaced in our machines maintain the same quality as the originals. Our spare part management service ensures that.

#### PERIODIC PREVENTION MAINTENANCE

servicepoint staff checks the machine periodically and tune it, ensuring an optimal availability of the machine.

#### INTELLIGENT DATA REGISTRATION, FILTERING AND PROCESSING

Data recovery applying advance AI techniques to generate information about optimal machine use, life cycle of its components or information about the process.

#### MACHINE RECALIBRATION

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

#### REMOTE AND ONLINE MONITORING AND DIAGNOSE

It allows knowing the machine status from the distance to ensure an intelligent diagnose of the key elements.

#### ASSISTANCE AND LOCAL SERVICE

Objective, 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 time possible.

#### 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 break down times to a minimum, we stock those key elements for hire.

BECAUSE WE ARE NOT INFALLIBLE, WE BELIEVE IN SERVICE.



#### YOUR SERVICE POINT



TELEPHONE SUPPORT SERVICE BY EXPERT MULTILINGUAL STAFF



HIGHLY QUALIFIED TECHNICIANS



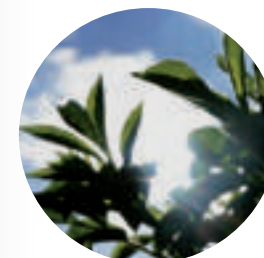
ONLINE AND REMOTE MONITORING AND DIAGNOSE



QUICK REACTION AND SOLUTION TIMES



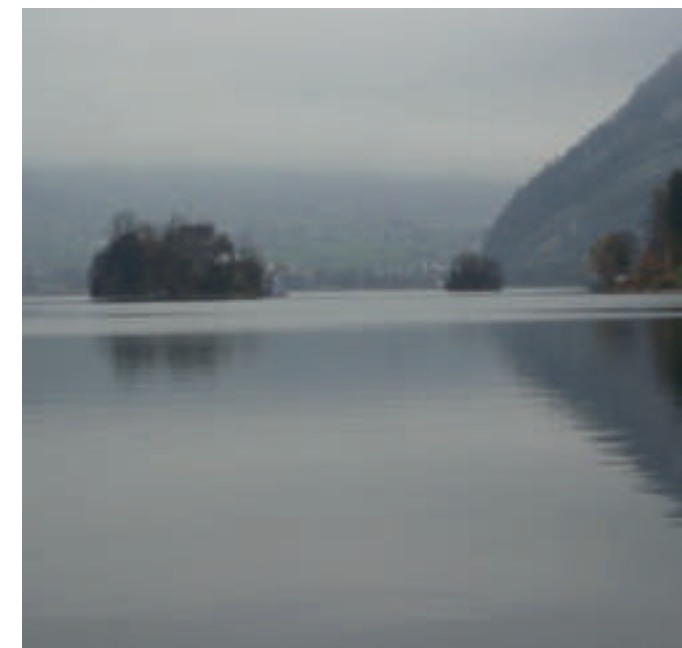
GLOBAL SERVICE VOCATION



## ¿WHERE IS OUR PLANET GOING?



Some people paint it green; others paint it blue. Both colours reflect purity, life, joy, hope. Forests and oceans, trees and waves, meadows and skies, green and blue. But, who cares about colours! The important thing is the meaning. Nature. Nature damaged so many times that we feel as a duty to recover for future generations. Nature that generously provides us with clean resources such as the sun, water and wind. In the past, in the name of evolution, nature has been damaged. Today, evolution provides the technical resources to recover it and the machine tool industry is key for that purpose.



Because we are proud of our commitment, we want to take active part in this change. Our support to the European Initiative "Blue Competence" which gathers companies sensible about the environment, is good proof of that. We show our commitment to sustainability in 2 fields:

- **Internally**, applying ECO design concepts from the beginning all the way through the process to the scrapping of our machines.

- **Externally**, focusing our offers and solutions in key sectors in the sustainability of our planet such as renewable energies.

**IBARMIA.**

ZVH 55/L9000 EXTREME



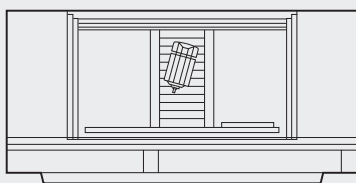


Diego Umantsoro, 6 - Apdo. 35  
20720 Azkoitia (Gipuzkoa) Spain  
T + 34 943 857 000  
ibarmia@ibarmia.com  
[www.ibarmia.com](http://www.ibarmia.com)

**IBARMIA.**  
YOUR MACHINE TOOL POINT



# YOUR MACHINE TOOL POINT



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