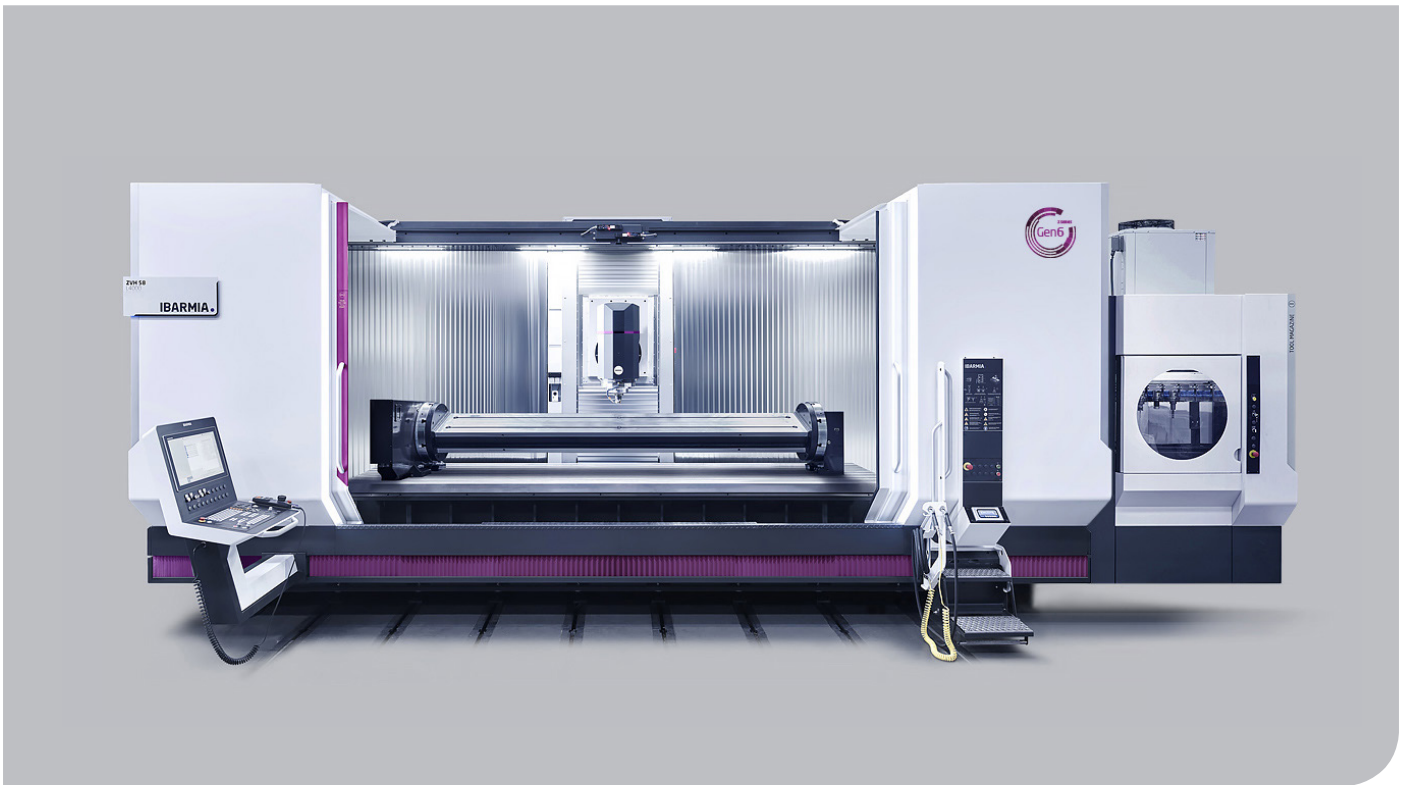


# IBARMIA.

## ZV EXTREME 60

### TECHNICAL SPECIFICATIONS



#### ZV EXTREME

3 axis models or in combination with horizontal rotary tables, IBARMIA can achieve the highest productivity by customizing working areas to specific production systems.



### Z SERIES

**ZV EXTREME**

**ZV 60**

**TRAVELS**

-X axis travel (length)	mm	2200 - 12.000
-X axis travel working in 2 areas (vertical)	mm	2x 465 (L2200) - 2x 2665 (L6000)
-Y axis travel (cross)	mm	1100
-Z axis travel (vertical)	mm	1100 (Op. 1200)

**TABLE**

-Fixed table dimensions	mm	L2200: X+400 mm; <L3000: X+600 mm & Y +50 mm
-Maximum table load capacity	Kg/m <sup>2</sup>	2000
-Number of "T" slots		9
-"T" slots size	mm	18 H7
-Distance between "T" slots	mm	125
-Min. / Max. distance spindle nose / table	mm	V (0---1050)
-Table height	mm	1025

**MAIN SPINDLE**

-Spindle taper		Standard: SK 50 - Optional: BT 50 / HSK A 100
-Maximum speed	rpm	Standard: 12.000 - Optional: 7000
-Maximum power	kW	Standard: 84 - Optional: 75
-Maximum torque	Nm	Standard: 452 - Optional: 700

**CONTROLS**

-Available digital controls		Fanuc / Heidenhain / Siemens
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**FEED**

-Feed thrust X-Y-Z	N	X: 22.971 / Y: 17.255 / Z: 15.529
-Rapid feed for positioning X-Y-Z	m/min	45
-Maximum working feed X-Y-Z	m/min	30

**ACCURACY VDI / DGQ3441**

-Positioning accuracy Tp X-Y-Z (1000 mm)	µm	8
-Repeatability	µm	5

ZV EXTREME

ZV 60

CAPACITIES

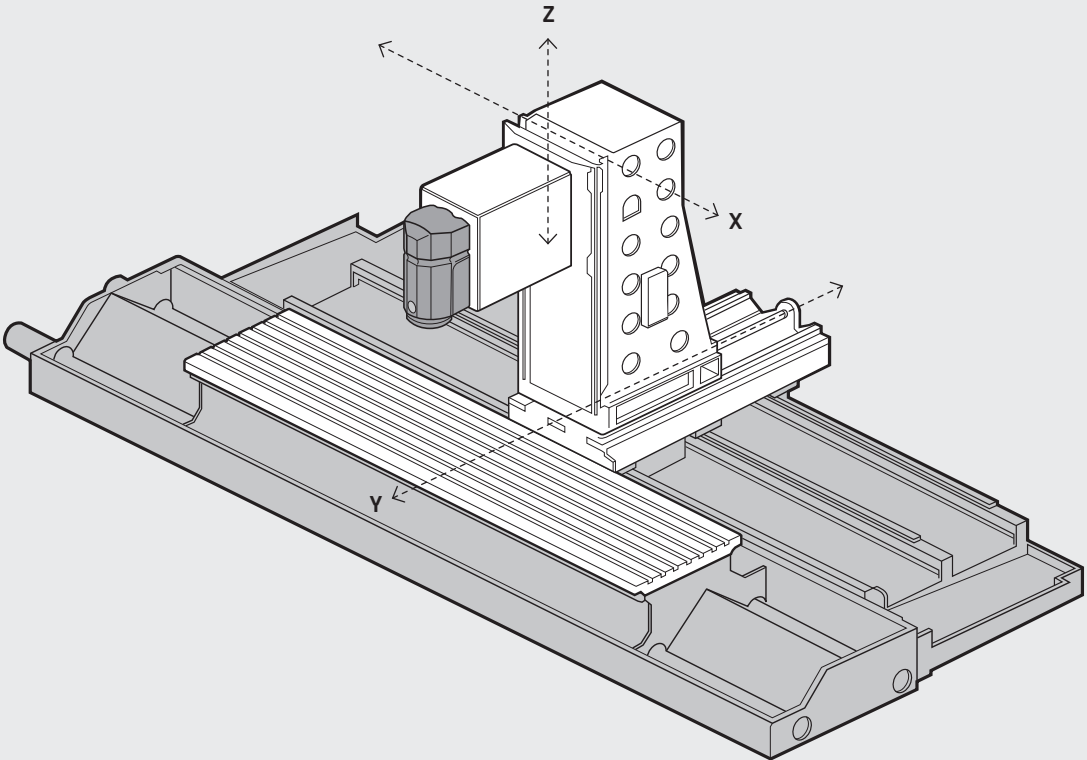
-Milling capacity in steel St 60	cm³/min	1100
-Drilling capacity in steel St 60	Ø mm	70
-Tapping de roscado en acero St 60	mm	M45

TOOL MAGAZINE

-Number of tools		50. Optional: 100, 150, 255
-Maximum tool length	mm	400
-Maximum tool weight	Kg	20
-Maximum tool Ø with full magazine	mm	Ø125
-Maximum tool Ø with free spaces	mm	Ø200
-Tool changing time	s	10
-Chip to chip time	s	12

GENERAL

-Machine painted in 3 colours	RAL	White 9010, Ligth Grey 9006, Dark Grey 7021
-Total power installed	kW	60
-Power connection voltage	V	400 V / 50 Hz
-Required compressed air pressure	bar	6
-Machine length (L2200 / L6000)	mm	5850 (L2200) - 11.650 (L6000)
-Aproximate net weight (L2200 / L6000)	kg	25.000 / 42.500



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## INCLUDED ITEMS IN STANDARD CONFIGURATION

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- 5 axis model: longitudinal X, transversal Y, vertical Z.
- Direct measuring on linear axes X / Y / Z.
- Travelling on lineal guides and ball screws.
- Servomotors with braking system for the axes.
- Rack and pinion system on machines from 6000 mm long.
- Hydraulic counter weight for the head.
- Electrospindle thermal compensation.
- 50 tool ATC magazine.
- Air blast for tool cleaning.
- Totally encapsulated working area.
- Vertical covers on X axis (steel bellows).
- Safety windows.
- Illumination of working area.
- Double auger system for chip evacuation.
- Removable lateral pannels.
- Moving and rotary control panel (360°) along machine bed (except L1600).
- Touch screen 19".
- Chip Conveyor with integrated coolant tank.
- External coolant system around the spindle.
- Programmable central lubrication system.
- Climatised electrical cabinet.
- Machine levelling elements.
- Informative display in black methacrylate.

## OPTIONAL ITEMS

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- Coolant through spindle.
- NSM software and division wall of working areas.
- Transport cart for the division wall.
- ATC magazines up to 255 tools.
- Pick up stations integrated in the machine to hold special tools and angular heads.
- Special tool magazines up to 400 positions managed by arm robot.
- Tool measuring and touch systems.
- Bolt on rotary tables to be used in horizontal axis.
- Special working table configurations.
- Steam and mist aspiration system.
- Spray and air 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.
- 3 light tower with acoustic signal indicating the state of the machine.
- Camera settings and display mode.
- CNC control with touch screen up to 24".
- Advanced HMI.
- Portable electronic hand-wheel with support in the control pannel.