

**BORING AND  
MILLING EXPERTS  
SINCE 1941**

**BL Series  
BED TYPE MILLING MACHINES**

**TECHNICAL SPECIFICATIONS**

**TRAVELS**

X – Table Longitudinal travel	mm	2000 + N x 1000 ... 5000
Y – RAM Cross travel	mm	1000 / 1300
Z – Headstock Vertical travel	mm	1500 / 2000

**RAM - HEADS**

RAM cross section	mm	460 x 520	
<b>Universal Automatic Head 45°</b>	°	1° x 1° - 0,001° x 0,001°	
<b>5-axis Twist type Continuous Head</b>	°	+105 / -120 °	
Spindle power	Mechanical	kW	40
	Electrospindle	kW	48
Spindle speed	Mechanical	min <sup>-1</sup>	6000
	Electrospindle	min <sup>-1</sup>	12000
Max. Spindle torque	Mechanical	Nm	1400
	Electrospindle	Nm	450
Speed gear ranges			2

**RAPID FEEDS**

X,Y,Z	m/min	40
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**TABLE**

Plain Table	<b>BL1-MX1</b>	mm	2400 x 1 000 / 3 400 x 1 000 / 4 400 x 1 000 / 5 400 x 1 000
		Kg	8000
Plain Table	<b>BL1-MX2</b>	mm	2400 x 1 300 / 3 400 x 1 300 / 4 400 x 1 300 / 5 400 x 1 300
		Kg	20000
Rotary Table	<b>BL1-MGX</b>	mm	1 000 x 1 000 / 1 000 x 1 250 / 1 250 x 1 250 / 1 250 x 1 600 / 1 600 x 1 600
		Kg	6000 (MGX-6) / 8000 (MGX-8)

**INNOVATIVE TECHNOLOGICAL OPTIONS**

- AHC - Automatic Head Calibration
- AFC - Adaptive Feed Control
- HDS - Hydrostatic Damping System
- Teleservice Remote Assistance
- In-process workpiece measuring touch probe
- Tool probe / laser calibration system
- Automatic Tool Changer (30-120 tools)
- Full enclosure with integrated conveyors

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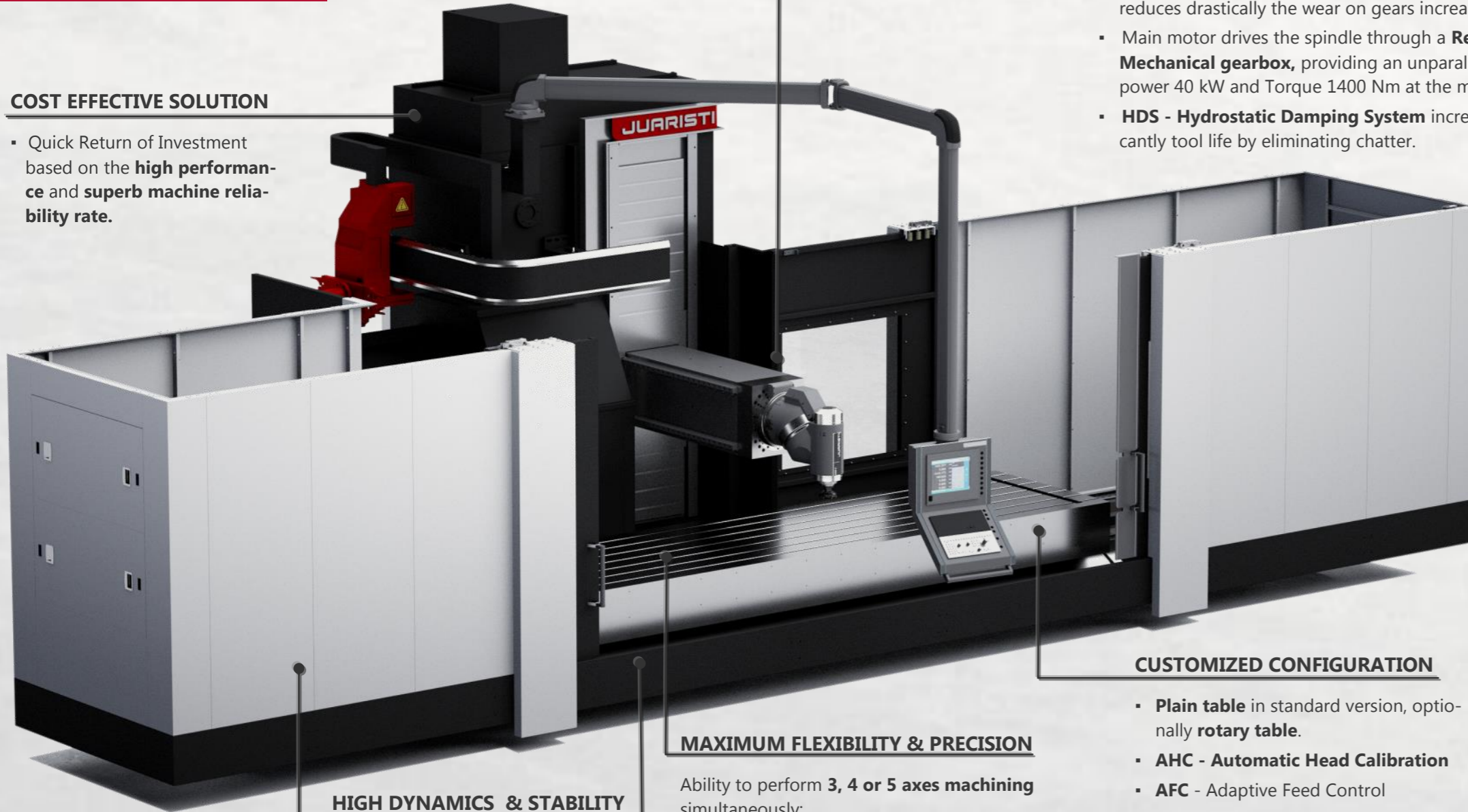


# HIGH PERFORMANCE BED TYPE MILLING MACHINES

## BL1-MX

### COST EFFECTIVE SOLUTION

- Quick Return of Investment based on the **high performance** and **superb machine reliability rate**.



### SAFETY & ENVIRONMENT

- Full enclosure** with integrated chip conveyors guarantee complete coolant and chips collection.
- Easy Access to working area** by means of large sliding doors.

### HIGH DYNAMICS & STABILITY

- 40 m/min feed rate** can be achieved thanks to **oversized structural components** with big size linear guides 65 & 55 and ball screws diameter 80 / 63 mm.

### MAXIMUM FLEXIBILITY & PRECISION

Ability to perform **3, 4 or 5 axes machining** simultaneously:

- Universal Automatic Positioning Head
- Universal Continuous Head
- Twist type Continuous Head
- Mechanical Heads** equipped with 2 ranges gearbox, with high torque up to 6000 min<sup>-1</sup> suitable for **cast iron, carbon Steel, alloy Steel, stainless Steel, etc.**
- Electrospindle Heads** 12000/18000 min<sup>-1</sup> for **aluminum and light metal cutting**.

### DURABILITY ON ACCURACY & LONG LIFE SPINDLE

- Universal Head 1°x1°/ 0,001°x0,001°
- Oil-mist lubrication** system improves performance and reduces drastically the wear on gears increasing their life.
- Main motor drives the spindle through a **Refrigerated Mechanical gearbox**, providing an unparallel Spindle power 40 kW and Torque 1400 Nm at the main spindle.
- HDS - Hydrostatic Damping System** increases significantly tool life by eliminating chatter.

### CUSTOMIZED CONFIGURATION

- Plain table** in standard version, optionally **rotary table**.
- AHC - Automatic Head Calibration**
- AFC - Adaptive Feed Control**
- Teleservice** Remote Assistance
- In-process workpiece measuring** touch probe
- Tool probe** / laser calibration system
- ATC - Automatic Tool Changer** (30-120)

## GREAT MACHINES FOR STANDARD AND COMPLEX PARTS

Dynamic, Powerful and Flexible Milling Machines for most demanding sectors:

- up to **5000 x 2000 mm** and **20 t weight**,
- Aluminium, Steel, Special steels** and **other hard alloys components**.



## BL1-MGX

### 5 AXES MACHINING CENTER

Full B-axis **rotary table** integrated to perform **4 or 5 axes machining**.

