

A large industrial machine, a planer type horizontal boring mill, is shown in a clean, modern factory setting. The machine is primarily black and silver, with a large, flat, rectangular worktable in the foreground. A vertical column rises from the table, supporting a horizontal spindle with a red tool head. A control panel with a screen and buttons is mounted on the side of the column. The background shows a bright, white interior with a high ceiling and a railing.

**JUARISTI**

# **TL-S SERIES**

## **PLANER TYPE HORIZONTAL BORING MACHINES**

High Performance compact Boring Mills

MILLING. BORING. **THE EXPERTS.**



# TL-S SERIES

## Planer type Horizontal Boring Machines

**TL-S boring machines series has been developed by JUARISTI technical department for customers looking for a highly productive compact machine.**

These Horizontal Boring Mills with rotary table provide high dynamics, are equipped with 110-130 mm quill and hydrostatic rotary table with load capacity up to 8 ton.

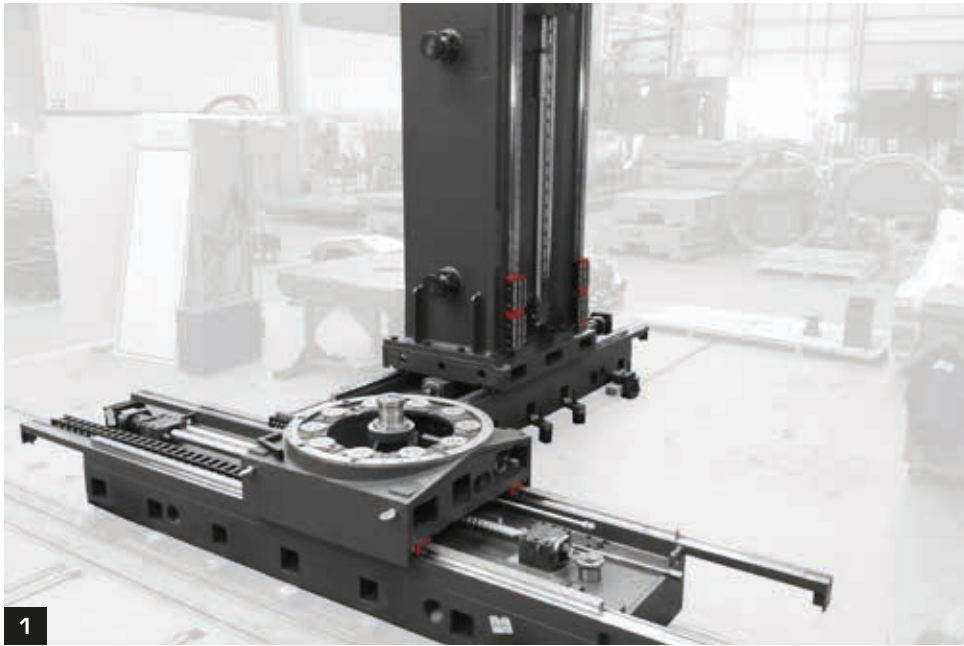
It is a cost effective but very productive solution standing out for its high dynamics (rapid feed 30 m/min) and superb accuracy.

- Ideal option for horizontal boring and milling operations.
- Quick return of investment.
- Optimal vibrations dampening: welded steel column combined with polymeric concrete.
- Hydrostatic table rotation driven by 2 motors-2 pinions in master-slave configuration.
- Chain type ATC fixed to the column.

---

### TL-S SERIES

High performance  
in compact boring mills



1



2



3



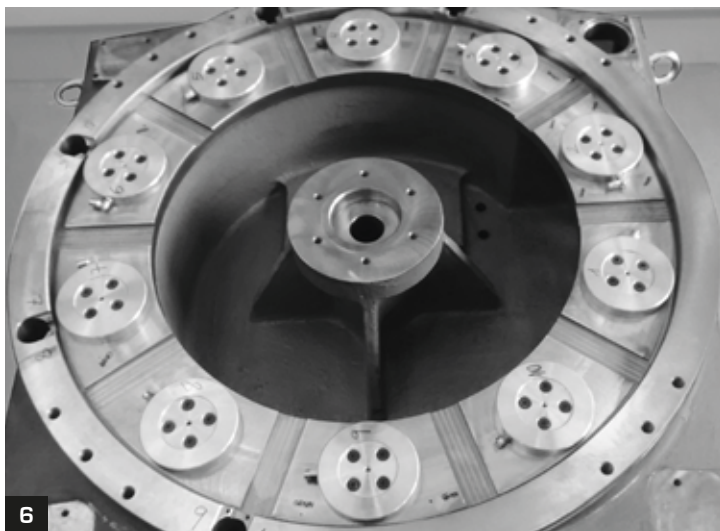
4



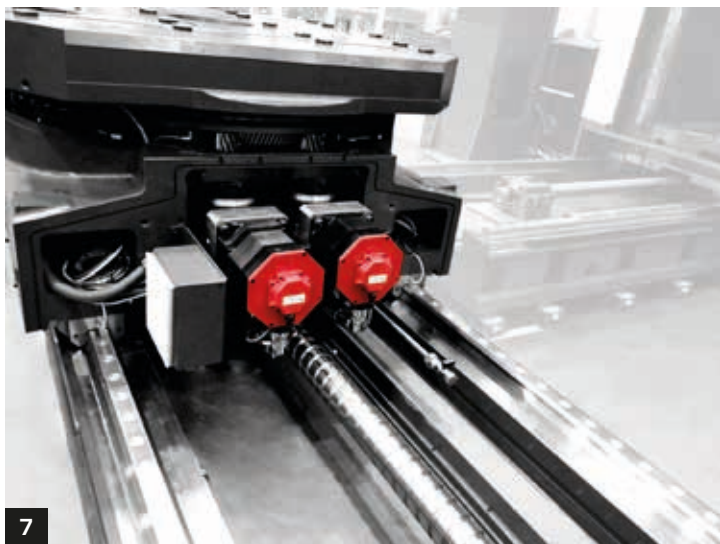
5

**1.** Welded steel column with polymeric concrete and high precision linear guiding system. **2.** Lateral headstock with hydraulic direct counterweight. **3.** Nitratated steel quill guided on hardened sleeve over ultra-precise bearings. **4.** Chain type ATC fixed to the column. **5.** Ergonomic machine control with orientable operator panel. **6.** Long life, wearless rotary table thanks to the hydrostatic guiding. **7.** High accuracy on table rotation with 2-motors (master slave) backlash free system.





6



7

### /// Excellent precision and high productivity



- Great power and high spindle torque [1,600 Nm].
- Absolute linear scales and rotary encoder on all axes, providing high precision level.
- ATC Chain type Automatic Tool Change [30-40-60 tools].

### /// High dynamics and long service life

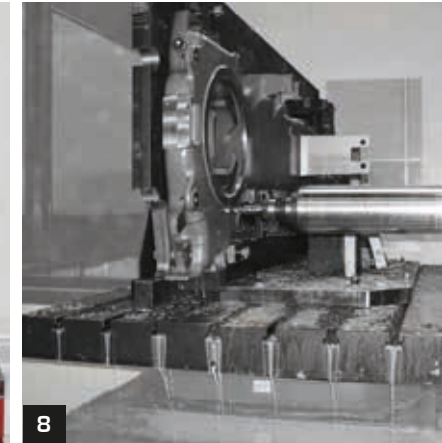
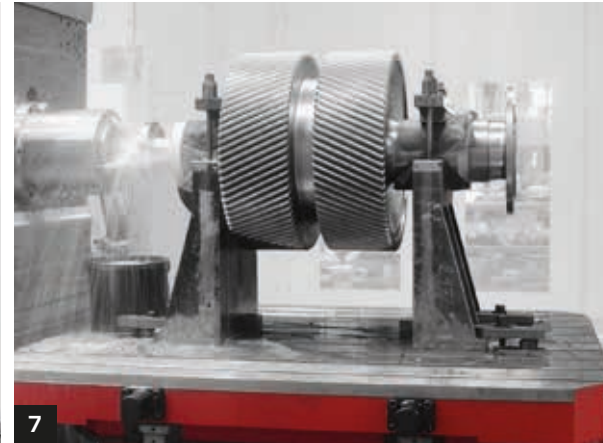
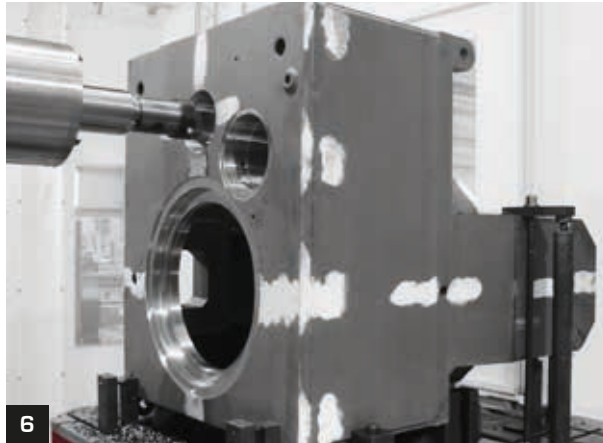
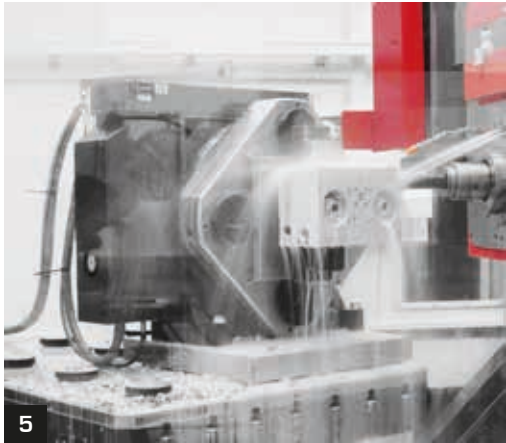
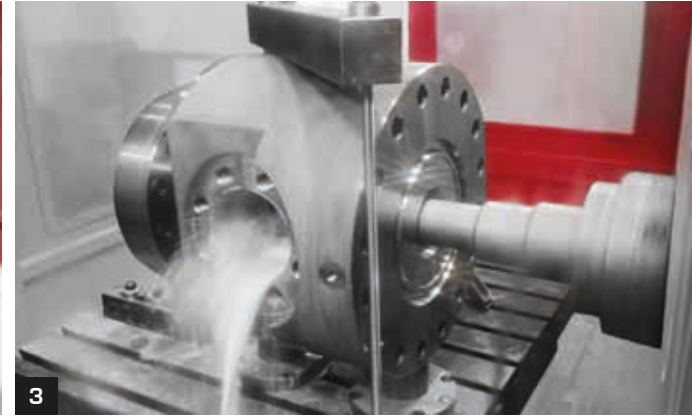
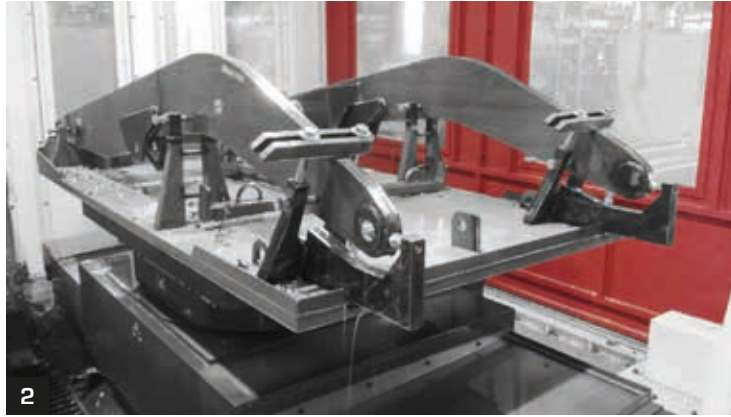
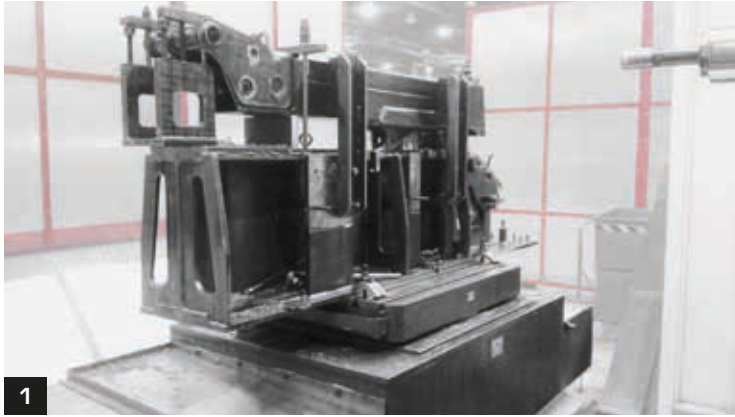


- High dynamics thanks to the optimized design using Finite Element Method (F.E.M.) and direct drives [feed up to 30 m/min].
- Increased rigidity due to the column made of welded steel combined with polymeric concrete.
- Table rotation speed up to 10 min<sup>-1</sup>.

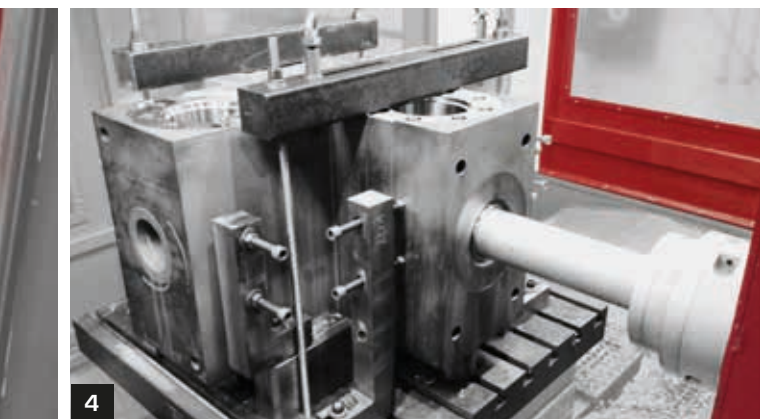
### /// Excellent results on compact machines



- High accuracy level on X, Y, Z axes [up to 3,000/2,000/2,000 mm].
- Compact rotary tables with high positioning accuracy thanks to double motor-double pinion system on master-slave configuration.
- Table capacity 8 ton and size from 1,000x1,000 up to 1,600x2,000 mm.



**1 and 2.** Heavy vehicles and construction machinery. **3 and 4.** Oil & Gas extraction system components. **5.** Control equipments for aeronautic sector. **6.** Components for pumps. **7.** Gears and gear boxes. **8.** Mining equipment machinery. **9.** Power transmission components.



## Ideal option for **boring and milling operations on compact components**

TL-S Horizontal Boring mill is an ideal option for small/medium size machining shops and subcontracting companies due to its compact layout. Despite its limited size, it offers great versatility and excellent quality results on boring, milling and drilling operations on workpieces up to 2,000 mm size.

Its high dynamics and great power allows the machining of various materials such as cast iron, steel and aluminum alloys in different sectors such as capital goods, general machining, construction machinery, Oil & gas, naval, railway, aviation or automotive.



APPLICATIONS IN MOST DEMANDING SECTORS

MILLING. BORING. **THE EXPERTS.**

TECHNICAL SPECIFICATIONS

TRAVELS		TL1-S - MGX8
X - Cross table	mm	1,500 - 2,000 - 2,500 - 3,000
Y - Vertical headstock	mm	1,000 - 1,500 - 2,000
Z - Longitudinal column	mm	1,000 - 1,500
W - Axial boring bar	mm	600
SPINDLE - HEADSTOCK		
Ø boring bar	mm	110 - 130
Tool taper	-	ISO 50
Spindle rotation speed	min <sup>-1</sup>	3,500 - 3,000
Spindle power (S1-100 %)	kW	22 - 40
Spindle torque (S1-100 %)	Nm	900 - 1,400
FEEDS		
Rapid feeds X-Y-Z	m/min	30
ROTARY TABLE (HYDROSTATIC B-AXIS)		
Table size	mm	1,000x1,000/1,250x1,250/1,250x1,600/1,600x1,600
Load capacity	kg	8,000
Rotation speed	min <sup>-1</sup>	10



Main dimensions	A	B	C
TL1-S	X+4,000	Y+2,400	Z+5,700





Closer, faster, more efficient

## COMISSIONING

### Installation

Final installation at the customer's plant by the machine's team of assembly technicians.

### Excellence since day 1

Standardised commissioning protocol to ensure optimum operation and performance.

### Training

Training on the operation and maintenance of our machines taught by our team of assembly and commissioning technicians.

## KEEP IT RUNNING

### Spare parts

Guaranteed spare parts availability with warehouses in Spain, Germany and dealer locations. Wide range of available accessories.

### Immediate assistance

Hotline managed by specialist technicians. Comprehensive assistance system.

### Preventive maintenance

Continuous machine monitoring and analysis for preventive maintenance.

## CONTINUOUS IMPROVEMENT

### Upgrades

Updating of all our machines.

### Optimisation

A wide range of available technological and automated options.

### Consultancy

Technical consulting in all project phases, from before the purchase to our technical service.

## ALWAYS ON YOUR SIDE

### On site support

Our support team has the technical training that ensures optimum performance of our machines.

### One step ahead

Comprehensive assistance system with remote servicing, preventive and predictive maintenance.

# JUARISTI **SERIES**

## The Next Level



### **TL - TX SERIES**

PLANER TYPE HORIZONTAL BORING - MILLING MACHINES

- High precision, high power and capacity thanks to its thermo-symmetric design.
- Capable of boring and 5-sided machining in a single clamping.
- Option to incorporate various heads, accessory magazines and pallets.



### **ML SERIES**

MOBILE COLUMN MILLING MACHINES

- Optimised design for a quick return on investment.
- Development-based Value Analysis with high dynamics and great versatility.



### **TH SERIES**

MULTIFUNCTION MILLING, BORING AND TURNING CENTERS

- Highly automated high performance multifunction centers.
- Milling, boring or turning operations.
- High dynamics and precision thanks to its thermo-symmetrical structure.



### **MX - MX RAM SERIES**

CENTRAL HEAD MILLING - BORING MACHINES

- High-performance in big formats.
- Powerful chip removal and excellent finishes.
- Powerful and efficient thanks to the closed column console design and four-sided guided RAM.



### **BL SERIES**

BED TYPE MILLING MACHINES

- Dynamic, powerful small format milling machines.
- Equipped with state-of-the-art heads.
- High efficiency, long service life and integrated enclosure.



### **MP RAM SERIES**

HYDROSTATIC MOBILE COLUMN BORING MACHINES

- High-power and precision in machining large parts.
- Unbeatable results and a guaranteed highest precision thanks to hydrostatic technology.
- Designed to meet the requirements of the most complex, critical parts with the highest machine durability.

# MILLING. BORING. **THE EXPERTS.**

At JUARISTI, we are experts in delivering solutions for all types of machining operations. Our catalogue spans a wide range of configurations for milling machines, boring machines and machining centers.

We pride ourselves on the quality and robustness of our products, on our close customer cooperation from the consultation during the buying process to our technical service, and on our development of innovations that set us apart to compete globally.

Our technical service network is present in more than 40 countries. The rapid response, spare parts availability and our highly professional technical staff mean we can offer a personalised, professional service that ensures our solutions are reliable.

For more than 75 years, we have led the way in innovation in our sector and provided solutions to customers in the most demanding industries.

## **JUARISTI Boring & Milling Machines**

Basarte Industrialdea 2  
20720 Azkoitia (Basque Country), Spain  
T. +34 943 851 221

[sales@juaristi.com](mailto:sales@juaristi.com)  
[www.juaristi.com](http://www.juaristi.com)

PLAY VIDEO



VISIT US

