



EH INGENIERÍA

HIGH PRECISION MACHINING & INDUSTRIAL INTEGRATION

Custom Tooling, Metalworking Transformation, and Advanced Manufacturing
Engineering for the Automotive & Global Heavy Industry



HIGH PRECISION CERTIFIED STANDARD



AUTOMOTIVE SPEC COMPLIANT



CORPORATE PROFILE

Specialists in metal-mechanical transformation and high-precision component manufacturing, backed by robust infrastructure and dedicated engineering support.

 TIER-1 INDUSTRY APPROVED QUALITY

| MISSION & VISION



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OUR MISSION

To fulfill the regional metalworking manufacturing needs by serving as the ultimate strategic partner for our customers, helping them produce top-tier, high-precision components through high-volume capability and expert technical personnel.



OUR VISION

To continuously develop as an industry leader that represents absolute trust and certainty for our clients' demands, earning state-wide recognition among the top metalworking companies through cutting-edge quality management systems.



| MACHINING & CUTTING

 CNC CAD/CAM INTERPRETATION

CNC MACHINING

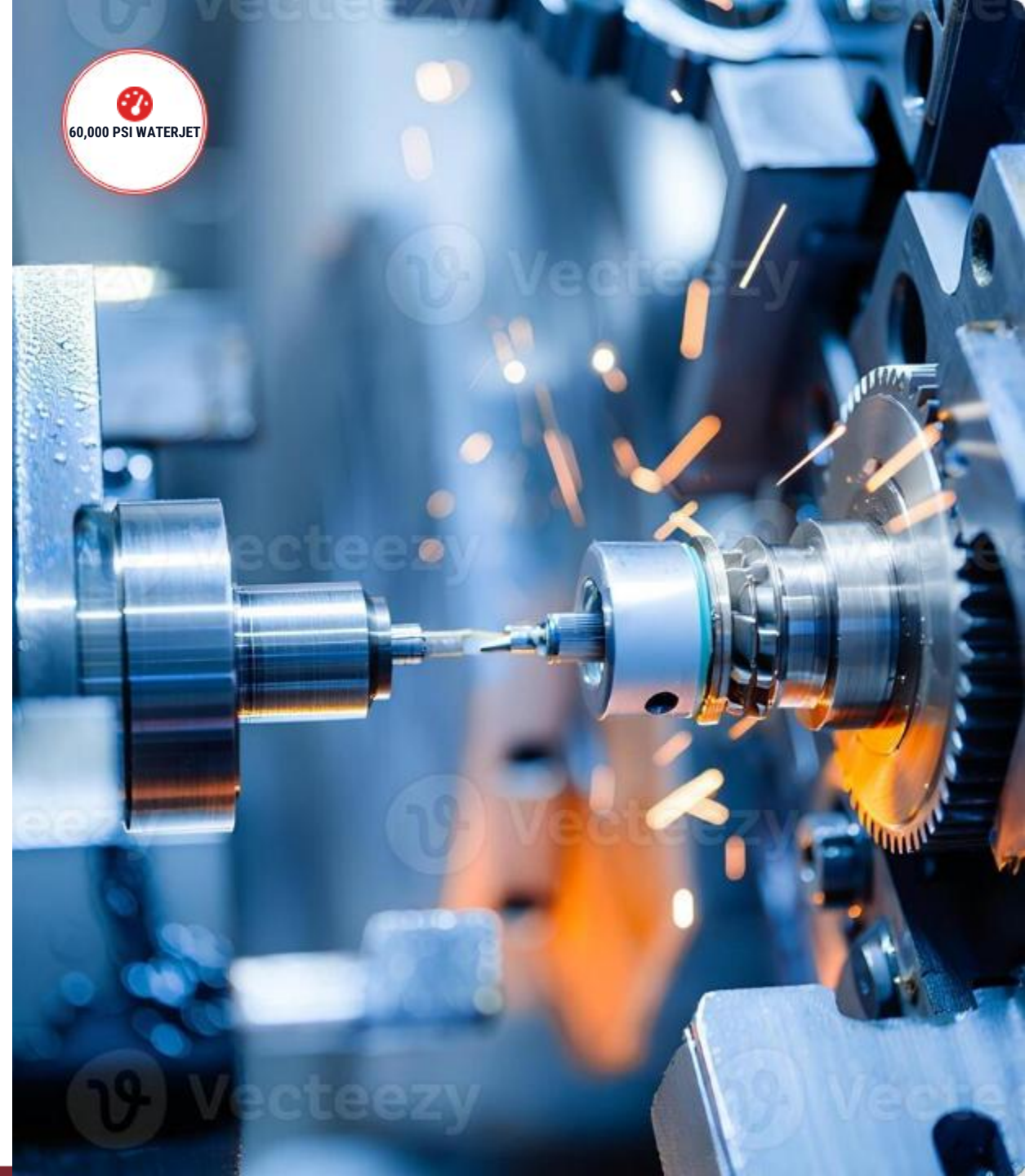
Precision computer numerical control cutting interpreting complex 3D CAD models directly into tight-tolerance finished parts.

ELECTRICAL DISCHARGE MACHINING (EDM)

Precision processing for conductive materials using micro-controlled spark discharges with copper or graphite electrodes.

CNC-LASERSCHNEIDER

CNC Laser cutting machines, 6000Watts and 12000 Watts.



| WELDING & FABRICATION AWS CERTIFICATION



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American Welding Society



SMAW ARC WELDING

Shielded metal arc manual welding process with coated electrodes designed for high structural integrity joint bonds.



GMAW / MIG-MAG

Continuous wire consumable arc welding protected by active or inert gas atmospheres tailored to part structural demands.



TIG & OXY-FUEL

Specialized non-consumable tungsten arc joining for Aluminum, Stainless Steel, Copper, Bronze, and Silver alloys.

TREATMENTS & SURFACE FINISHING



✓ WEAR & CORROSION PROTECTION CERTIFIED

Heat Treatments 🔥	Specialty Coatings 🧪	Surface Finishes ✂️
Carbonitriding / Nitriding	Electroless Nickel / Valenit	Sandblasting (Shot Peening)
Carburizing / Austempering	Hard Chrome / Anodizing	Industrial Bluing (Black Oxide)
Induction & Vacuum Hardening	Copper Plating / Galvanizing	Industrial Powder Coating
Normalizing / Annealing / Stress Relief	Electrochemical Zinc Plating	Technical Part Marking & Tagging

| RAW MATERIAL CAPABILITIES



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- ✓ **Stainless & Machinery Steels:** High mechanical strength and corrosion resistance (4140, 1045, 304, 316, D2, O1) for extreme operating conditions.
- ✓ **Non-Ferrous Metals (Aluminum, Copper, Brass, Bronze):** Excellent thermal/electrical conductivity and rapid machining alloys.
- ✓ **Engineering Polymers (Acetal, Delrin, Polimaq, Nylamaq):** High-grade plastics engineered for ultra-low friction and high-wear resistance.
- ✓ **Specialty Acrylics & Lead:** Custom shielding, protective housings, visual inspection windows, and technical containers.



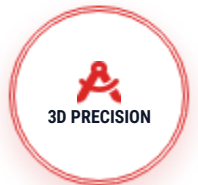
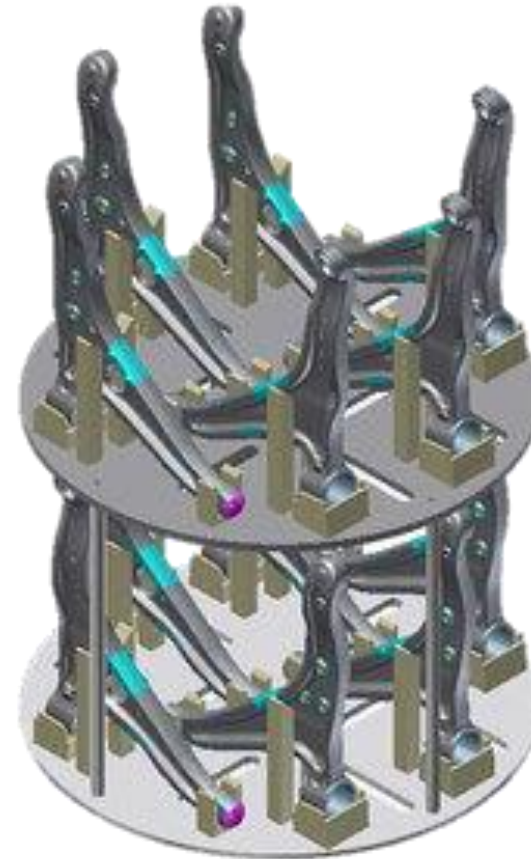
ENGINEERING & 3D CAD DESIGN



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PARAMETRIC CAD/CAM

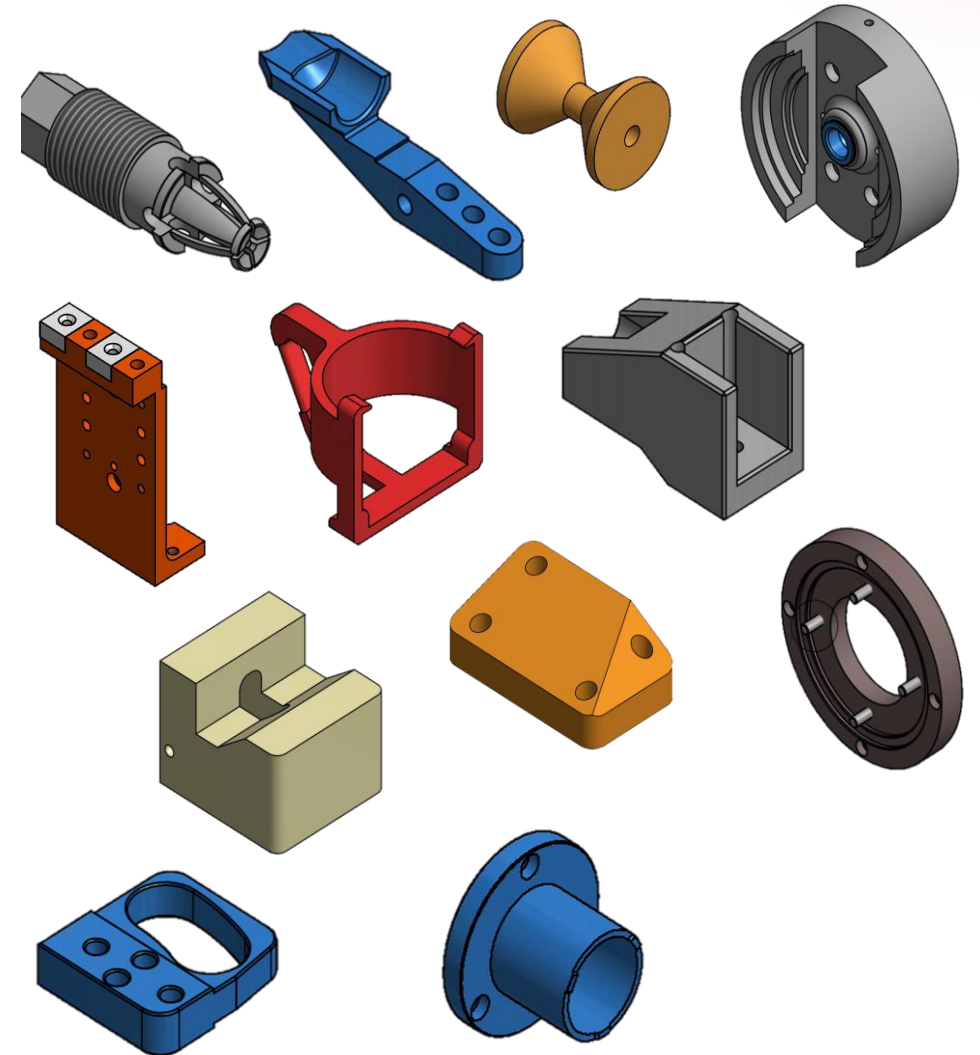
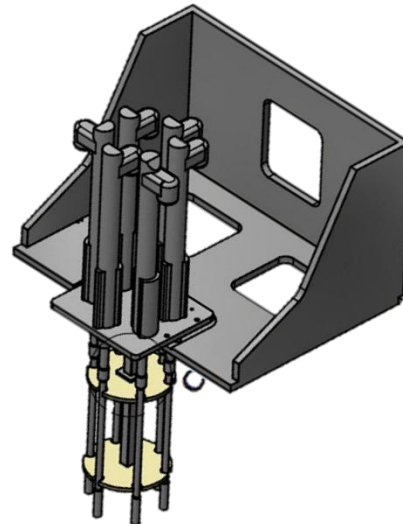
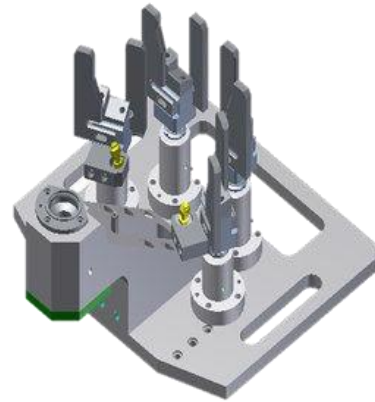
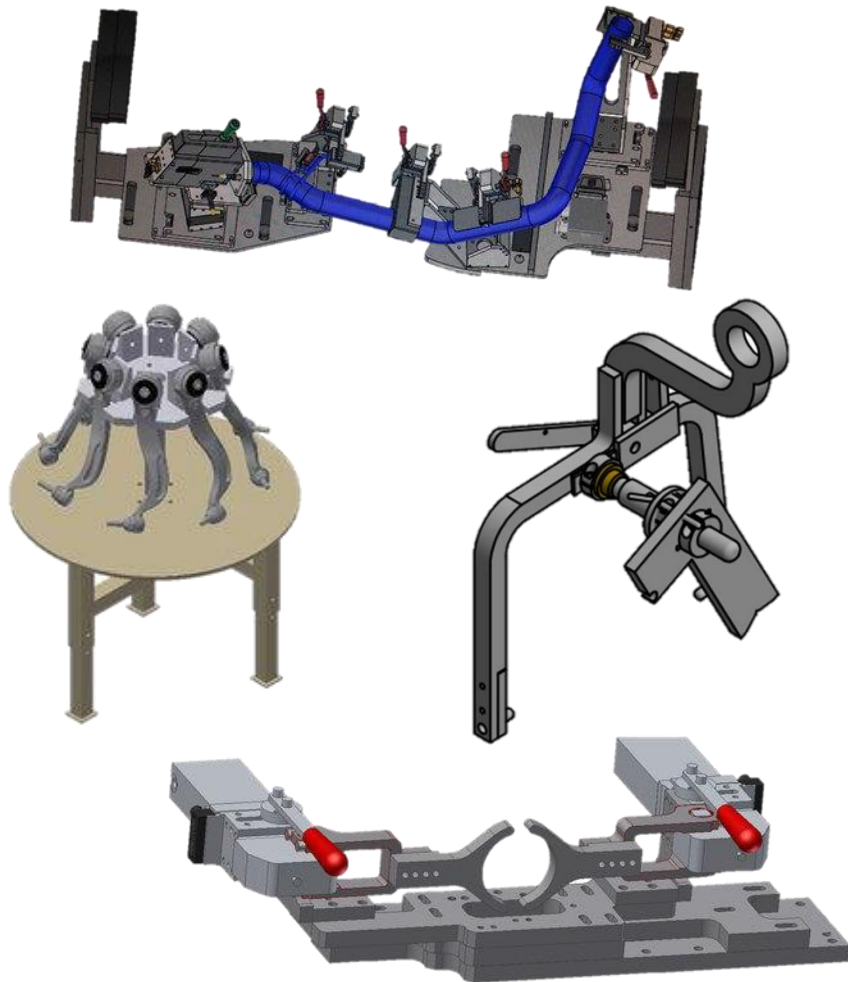
- Complete design and manufacturing of **Fixtures, Jigs, Carriers, and Inspection Gauges**.
- Welding tooling, custom holding nests, and mechanical clamping devices.
- Heavy-duty industrial Racks, Go/No-Go Go Gauges, and Precision Stamping Dies.
- Reverse engineering and seamless adaptation of new part numbers into existing line tooling.



PROJECT EXAMPLES (CAD)



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PROJECT EXAMPLES (MACHINING)



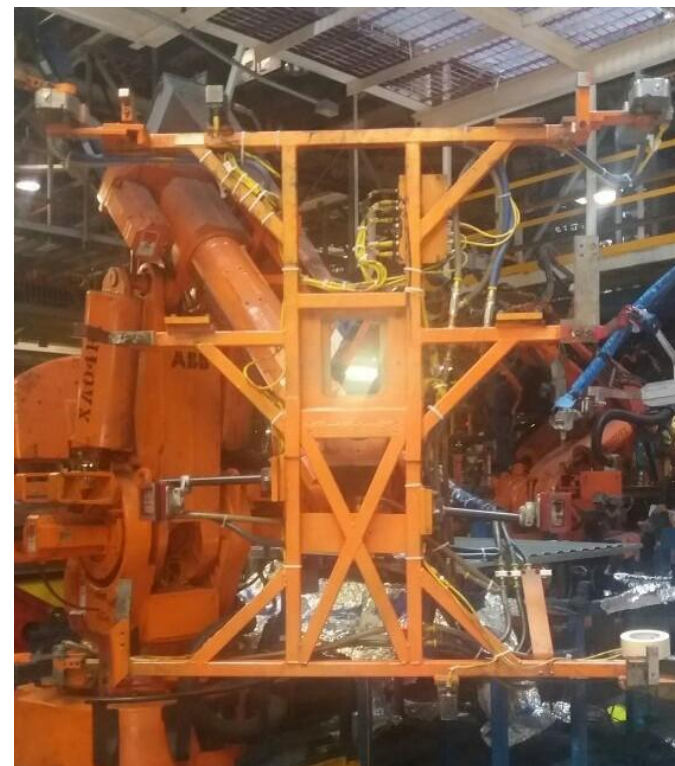
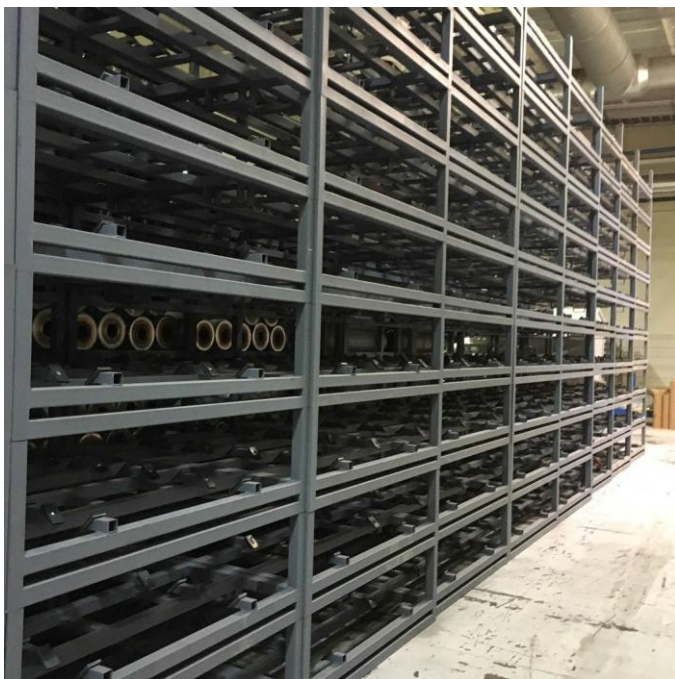
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PROJECT EXAMPLES (WELDING)



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PROJECT EXAMPLES (INTEGRATION)



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| PLANT INFRASTRUCTURE



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2,385

Total Square Meters (m²)



INSTALLED OPERATING CAPACITY

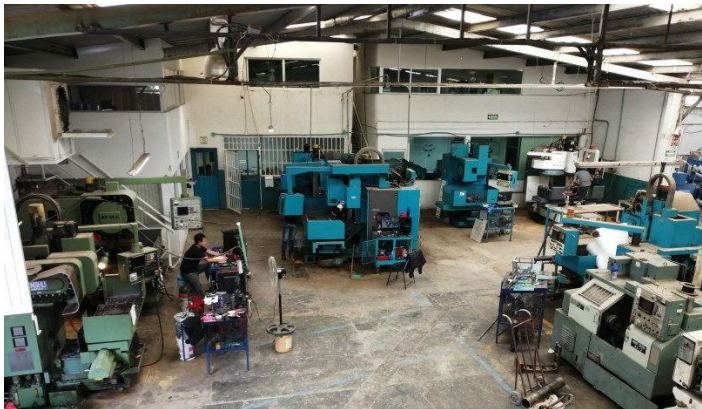
Our plant features strategically arranged functional bays designed for lean material flow and high productivity:

- **Main Production Building:** 1,050 m² for machining and assembly lines.
- **Welding & Heavy Maneuvering Yard:** 590 m².
- **Secondary Facility & Warehouse:** 600 m² (300 m² each).
- **Engineering Offices:** 145 m² for design and administration.

| MACHINERY & INSPECTION FLEET



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- Parallel lathe.
- 1 Graziano Sag 22 mechanical lathe, 2.5 meters between centers, 700 mm spindle diameter, 330 mm swing to carriage, 82 mm bar capacity.
- 3 Conventional vertical milling machine.
- 1 Shaper.
- 3 CNC lathe.
- 3 CNC machining center 4 and 5 axis
- 1 Large-scale CNC machining center.
- 2 CNC wire EDM.
- 2 Face grinder.
- 2 Cylindrical grinder.
- 1 Boring machine.
- 2 Laser cutting machine.

METROLOGY



FARO ARM

The Faro Arm is a portable coordinate measuring machine (CMM) that allows for easy product quality verification by performing 3D inspections.

Measuring range: 1.8 m (6 ft)
Volumetric accuracy: ± 0.034 mm (± 0.0330 mm)
Single-point repeatability: 0.024 mm (0.0229 mm) Weight: 10.7 kg (23.6 lbs)
Operating temperature range: 10°C to 40°C (50°F to 104°F) Temperature rate: 3°C/5 min. (5.4°F/5 min. max.)



HARDNESS TESTER

Power supply: Universal voltage, 100-240VAC, 47 to 63 Hz

This effective and affordable hardness testing machine offers high accuracy and reliability.

Features:

Measures Rockwell A to H and K hardness.

High-stability cast iron construction.

Especificaciones del Durómetro Analógico de Banco N° 3814	
Carga mínima	10kg
Carga máxima	60/100/150kg
Aplicación de carga	Pesos seleccionables
Control de carga	Sistema hidráulico
Panel	Reloj analógico
Profundidad de la garganta	168mm
Altura máxima de la pieza	170mm
Altura/Ancho/Profundidad	760 x 220 x 510mm
Peso	85kg



OPTICAL KOMPARATOR MITUTOYO PH-A14

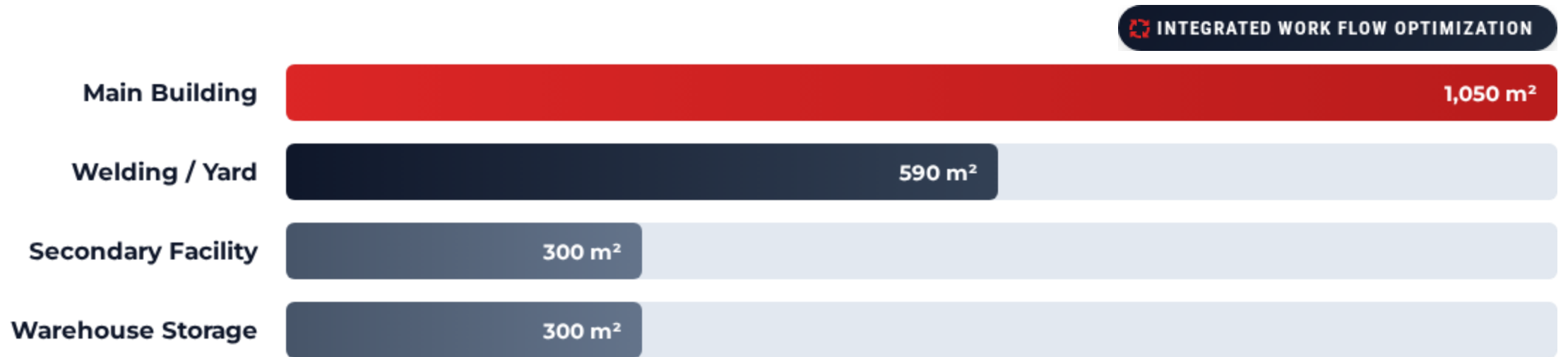
Is a benchtop horizontal profile projector with a 14-inch (356 mm) screen, designed for non-contact inspection and measurement of profiles, angles, and thread pitches, supporting heavy workpieces up to 45 kg with high precision.

- Optical System: Horizontal
- Screen: 14" (356 mm)
- Workstage: Heavy-duty aluminum model with a load capacity of up to 45 kg (100 lbs).
- Measurement Range: 200 mm (8") on the X-axis and 100 mm (4") on the Y-axis.
- Resolution: Integrated linear scales providing a 0.001 mm (.00005") readout.
- Projection Lenses: Compatible with 10x, 20x, and 50x magnification lenses.

FACILITY SPACE DISTRIBUTION (M²)



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Comprehensive facility footprint optimized for continuous industrial workflow, automotive part manufacturing, and heavy-duty tool assembly.



QUESTIONS OR RFQS?

Ready to collaborate on your engineering and machining projects



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Area de ventas



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