



MERTAY MAKINA

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About Us

Established in 2007 in Bursa, Mertay Makina operates within a 2500 m2 facility, comprising Steel Construction and Machining divisions. Our team includes 26 Blue Collar Employees, 17 White Collar Employees, and 3 Management Staff. Specializing in Bespoke Machine Manufacturing, Precision Machining, Steel Construction, Additive Manufacturing, and Welding. We maintain our leading position in the sector by standing out with innovative engineering solutions.



Machine Park

Priminer V6L	3-Axis CNC Milling Machine	1
Priminer V15L	3-Axis CNC Milling Machine	1
Huron IVAC14HAX-2	3-Axis CNC Milling Machine	1
TYPHOON 100817-DEA	3D CMM Measuring Machine	1
Sintratec	SLS Industrial 3D Printer	1
HantenCNC	Laser Marking Machine (UV/Fiber)	2
HantenCNC	2KW Laser Welding Machine	1
OERLIKON MamaWeld GKG 350K	MIG Welding Machine	3
ASKAYNAK INVERTER 315 TIG PULSE	TIG Welding Machine	3
KO-WAY LATHE CS6250B/1500	Lathe	1
KO-WAY K6325A	Vertical Lathe	1
Galileo PVD Coating V-201	PVD Coating Unit	1
ERMAKSAN HGS-A 3100 X6	Guillotine Shear	1
ERMAKSAN AP3120	Hydraulic Press	1
MERTAY MAKİNA	Sandblasting Machine	1
DİS-PA	Profile Cutting Machine	1

Machine Park



Machine Park



3D CAD/CAM Design

- 10 Licenses of SOLIDWORKS CAD
- 1 License of SOLIDWORKS CAM
- 2 Licenses of CATIAV5 CAD
- 1 License of CATIAV5CAM
- 1 License of Visi CAD/CAM
- 1 License of MasterCAM CAM
- 1 License of SINRATEC Nesting

 **SOLIDWORKS**

VISI BY  **HEXAGON**

 **CATIA**

 **AUTODESK
INVENTOR**

Mastercam



Our Capabilites



- CNC Machining
- Bespoke Machinery Manufacturing
- PLC Controlled Workstations
- Automation and Programming
- CMM 3D Measurement
- Conveyors and Assembly Lines
- PVD Coating and Metallization
- Transport Carts and Transport Crates
- Assembly Fixtures and Jigs
- Measurement Control Fixtures
- Plastic and Metal Molds
- Platforms, Steel Constructions, and Occupational Safety Structures
- Additive Manufacturing
- Manufacturing of Workstations
- Integration of industrial machinery and equipment

Automotive Sector

We support the automotive industry with strong in-house CNC machining. Our 3- and 5-axis milling centers allow us to produce precision parts for both our own systems and customer projects. This ensures high accuracy, repeatability, and shorter lead times. In addition to machining, we design and manufacture:

- **Assembly and Test Stations**

Stations for screwing, pressing, gluing, ultrasonic welding, and functional testing.

- **Leak and Pressure Testing Units**

Automated solutions for hydraulic, pneumatic, and vacuum leak detection.

- **Lighting Systems Equipment**

Machines and lines for headlamp and taillight assembly, including metalization and visual inspection.

- **Conveyor and Transfer Systems**

Modular belt, roller, and chain conveyors, with options for lifting, tilting, and multi-level transfer.

- **Custom Fixtures and Tooling**

Fixtures for part holding, assembly, and measurement applications.

- **Vision Inspection Systems**

Camera-based systems for dimensional control, surface inspection, and part presence checks.

We work with Tier-1 and Tier-2 suppliers across lighting, sealing, mirror, and lock systems.



Textile Sector

We support the textile industry with custom machinery, equipment, and structural solutions. Our work helps improve efficiency, safety, and process reliability. Our capabilities include:

- **Cutting and Forming Units**

Systems for cutting, folding, or shaping textile materials and semi-rigid parts.

- **Inspection and Sorting Stations**

Vision-based systems for defect detection, orientation control, and part separation.

- **Packaging and Labeling Machines**

Automated units for bagging, boxing, labeling, and barcode verification.

- **Conveyor and Feeding Systems**

Custom transport systems for moving and positioning parts across production lines.

- **Fixture and Jig Manufacturing**

Simple holders, sewing guides, and part-specific fixtures, designed and machined in-house.

- **Safety and Structural Work**

We build platforms, work safety barriers, support structures, and base frames to meet both operational and safety requirements.

- **Foundation and Installation Support**

We handle foundation preparation and mechanical installation for machines and auxiliary systems

We also provide CNC machining and mechanical sub-assemblies to textile equipment manufacturers. Our experience helps production lines run safer, faster, and with less manual intervention.



Food Sector

We design and build equipment that supports hygienic, efficient, and reliable food production processes. Our work focuses on packaging, handling, and transfer systems.

Our capabilities include:

- **Packaging Machines**

Custom solutions for boxing, bagging, sealing, or labeling food products and packages.

- **Product Separation Systems**

Mechanisms for aligning, spacing, or sorting food items before packaging or further processing.

- **Conveyor Lines**

Stainless steel belt, modular plastic, and roller conveyors designed for food-safe operation. We offer solutions for single or multi-line setups, including incline conveyors and turntables.

- **Safety and Hygiene Structures**

Work platforms, enclosures, and barrier systems built to meet food-grade and occupational safety standards.

We manufacture both standalone equipment and integrated systems. All designs prioritize easy cleaning, durability, and compatibility with existing production lines.



Scientific Sector



Scientific Collaboration

- CERN – European Organization for Nuclear Research:
As part of the Large Hadron Collider (LHC) infrastructure project, we contributed to one of the world's most advanced scientific endeavors by manufacturing precision aluminum cooling plates.
- Cooling Plate Manufacturing: Custom-machined to tight tolerances, ensuring flatness and dimensional stability under thermal load.
- Thermal and Structural Analysis: Validated with advanced simulations prior to production for mechanical and thermal reliability.
- High-Precision CNC Machining: Produced in-house using 3- and 5-axis CNC machines with full quality documentation, including measurement reports and material traceability.

Electrical & Automation Capabilities

At Mertay Makina, we deliver end-to-end electrical and automation solutions tailored for industrial manufacturing environments. Our in-house team designs, integrates, and programs control systems that ensure efficiency, traceability, and operator safety across production lines.

System Design & Integration:

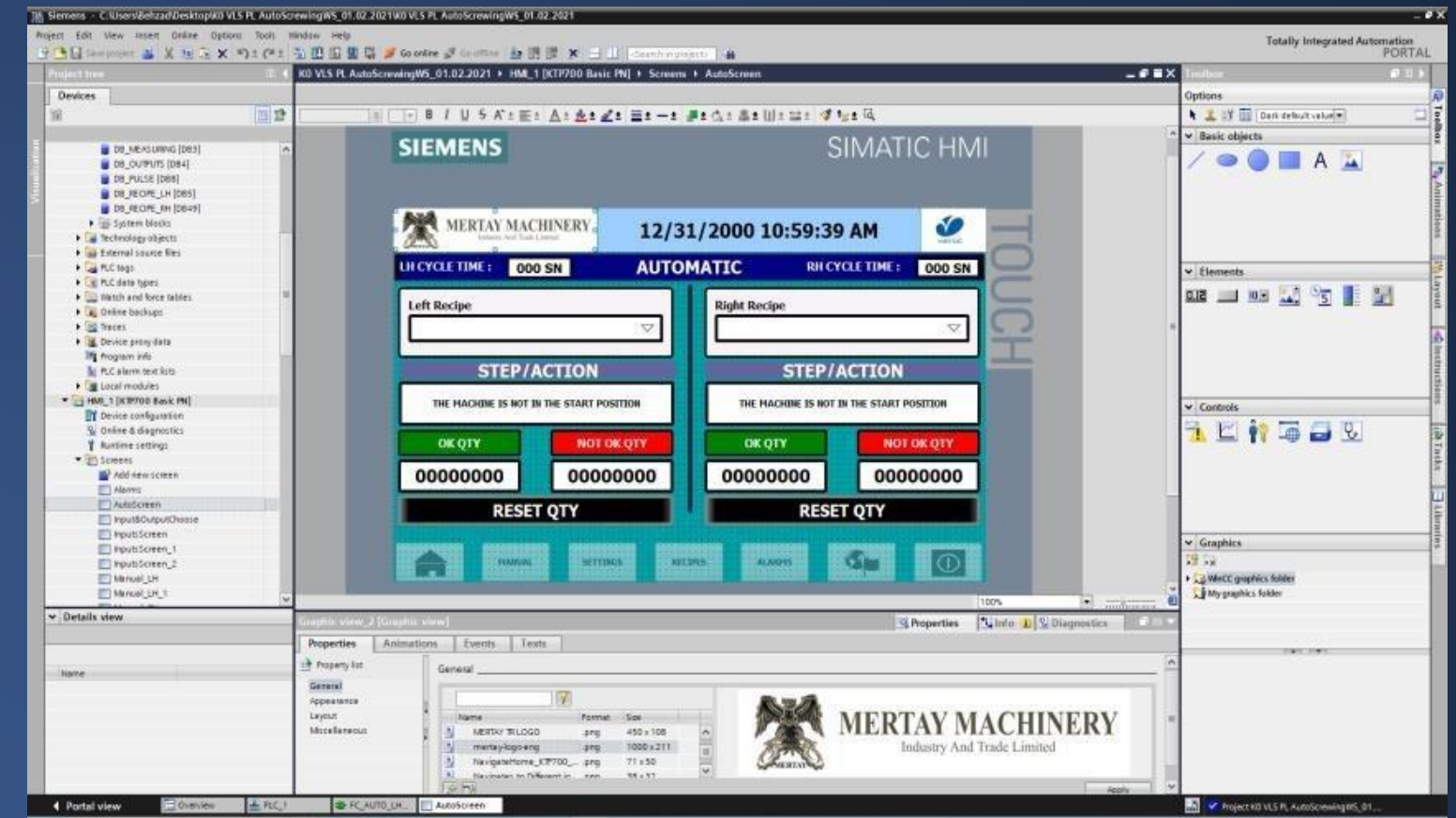
- Custom electrical panel design and manufacturing
- Complete PLC and HMI system integration
- TIA Portal, SCADA, and data acquisition system development
- Sensor, camera, and reader integration for traceability and quality control

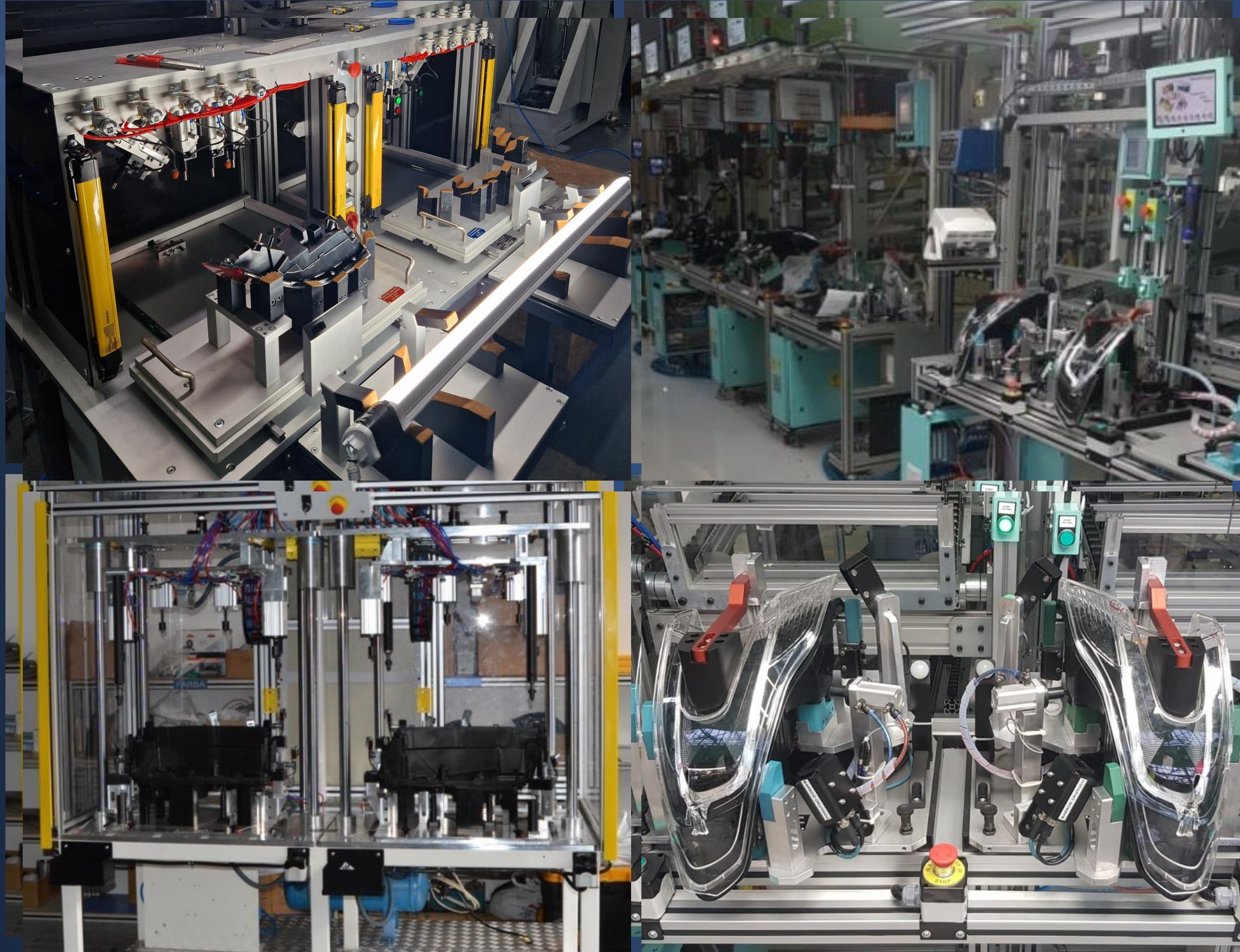
Automation & Programming:

- Operator-specific interface software for assembly and testing stations
- Real-time monitoring, process control, and data logging
- Seamless communication with existing plant infrastructure and MES systems
- Error-proofing logic (Poka-yoke), cycle-time optimization, and digital diagnostics

Capabilities in Practice

- Fully and semi-automatic assembly line control systems
- Smart conveyor systems with PLC-based logic and code-reading capabilities
- Integration of vision systems, DMC readers, thermal and optical sensors



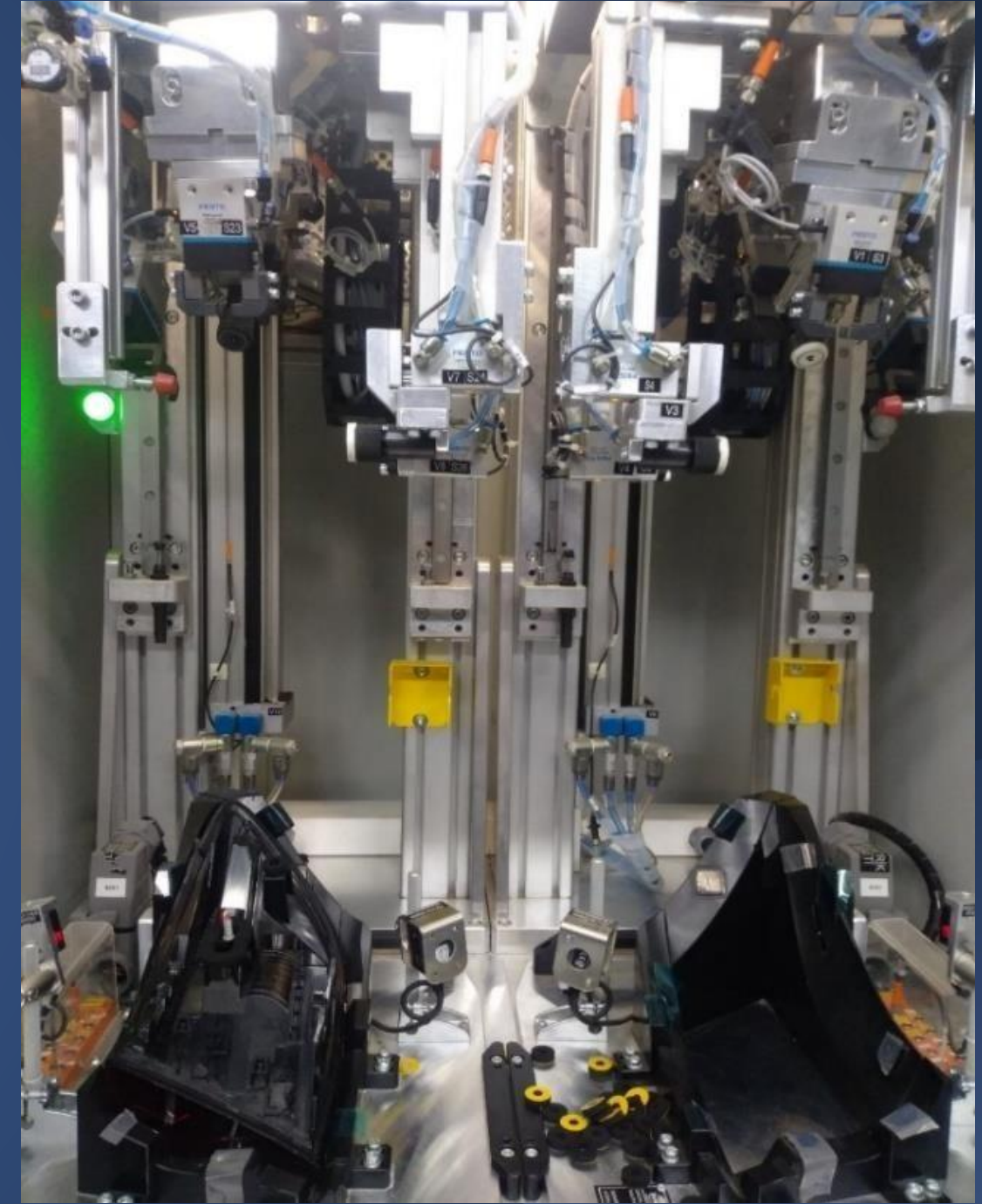
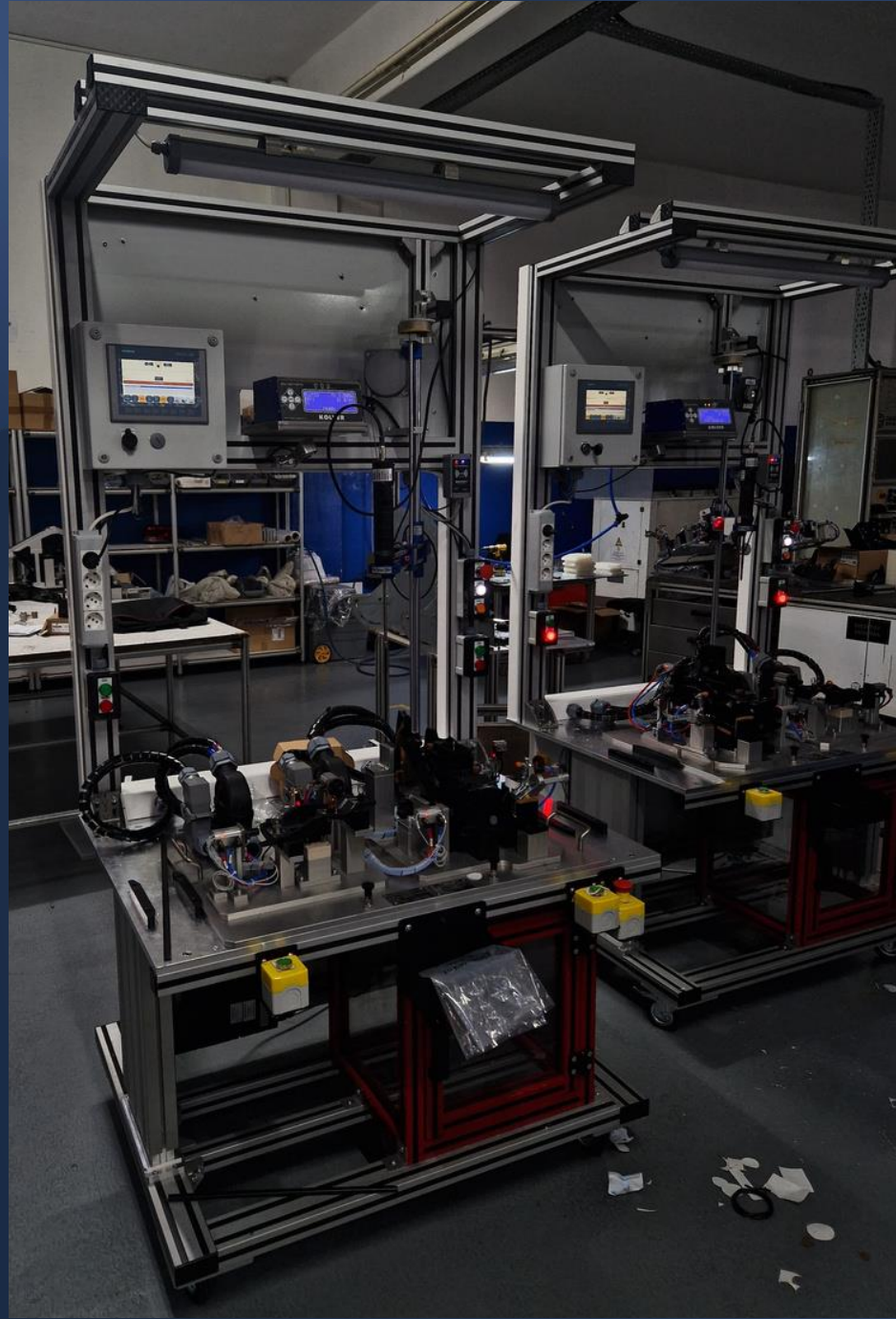


Fixtures and Jigs

At Mertay Makina, we design and manufacture ergonomic, application-specific fixtures and jigs that increase process repeatability, reduce human error, and improve operator safety.

- Custom-designed for part geometry and production flow
- Integrated with Poka-yoke mechanisms, DMC readers, vision sensors, and pressure sensors
- Compatible with PLC-controlled workstations and automated lines
- Focused on ergonomics, durability, and quick-change functionality
- Used in automotive lighting, mirror systems, door modules, and more

Each fixture is developed in close coordination with our customers to ensure full alignment with production requirements and quality goals.





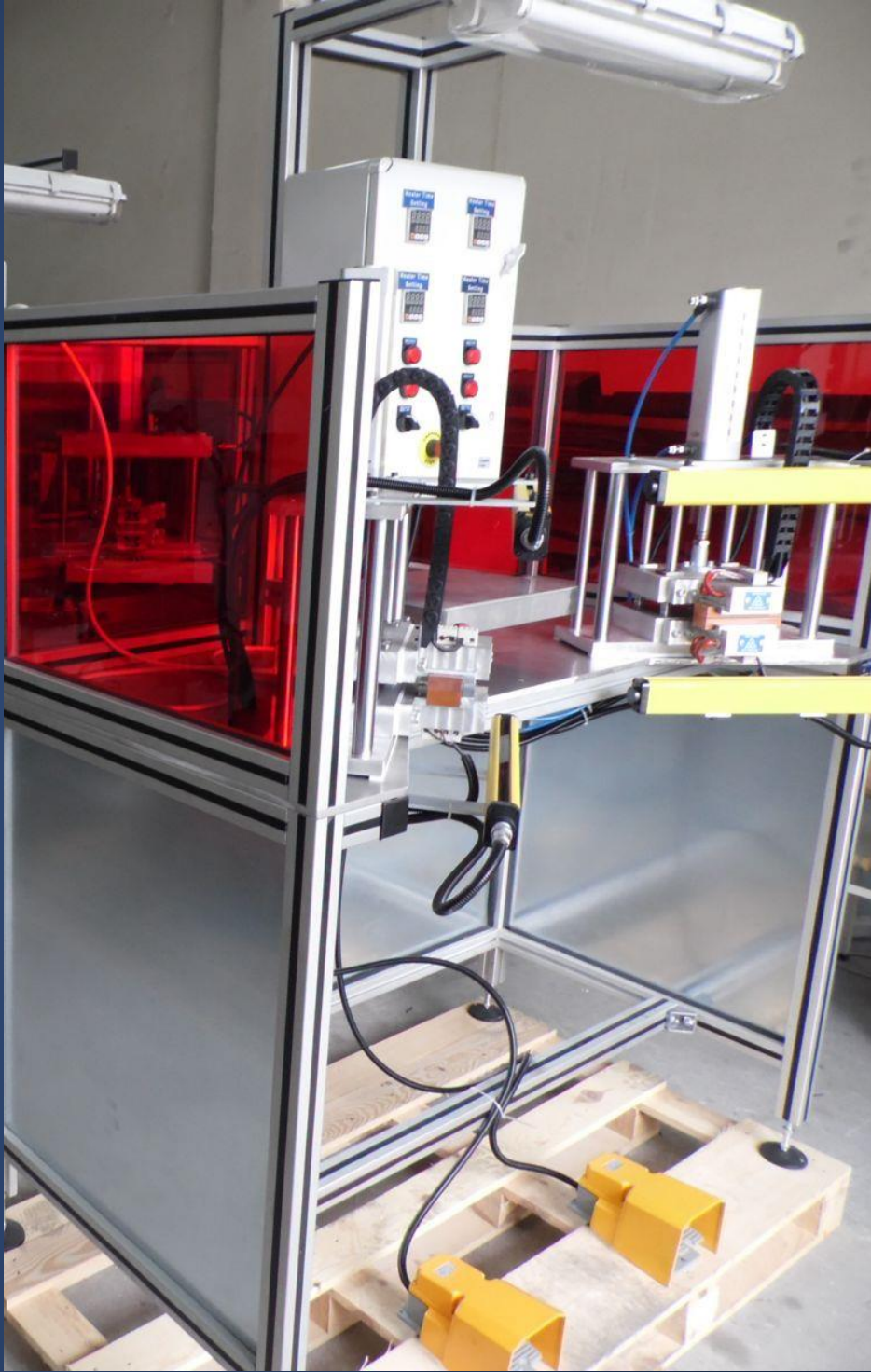
Bespoke - Turnkey Machines

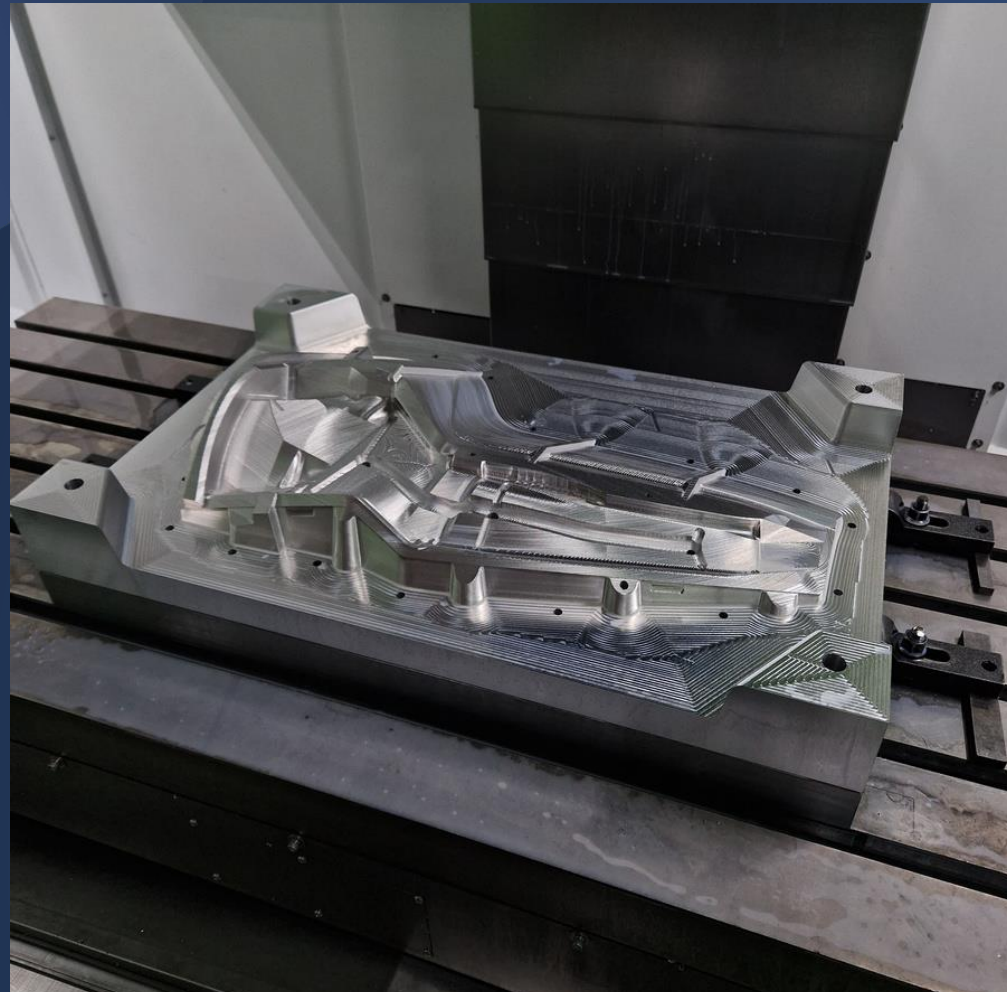
We design and deliver custom-engineered machines tailored to specific production needs, from concept to commissioning.

Our bespoke solutions combine mechanical, electrical, and automation expertise — delivered as turnkey systems that are ready for immediate operation.

- Fully automated and semi-automated machinery
- Custom integration with existing production lines
- Operator-friendly HMI interfaces and safety features
- Full documentation, testing, and on-site installation

Each project is developed in-house, ensuring full control over design, manufacturing, and final delivery.

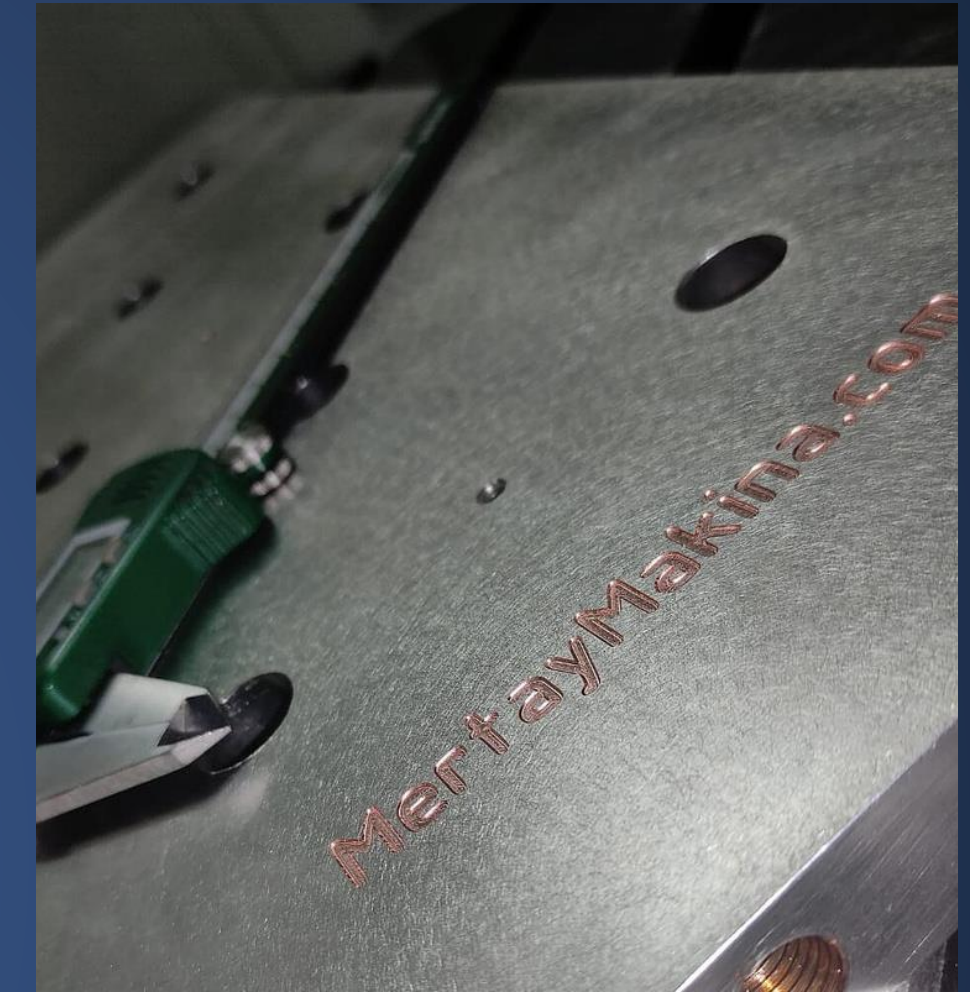




"This mold was designed and CNC-machined in-house for a high-precision forming application. Manufactured using 5-axis machining technology, it features complex geometries, tight tolerances, and excellent surface finish — ready for use in serial production."



"Rapid prototyping with SLS, Multi Jet Fusion and FDM technologies. Ideal for functional testing, design validation, and low-volume part production."



"One of the custom cooling plates designed, thermally analyzed, and manufactured in-house for CERN's Large Hadron Collider (LHC) infrastructure."

PVD Metallization Fixtures

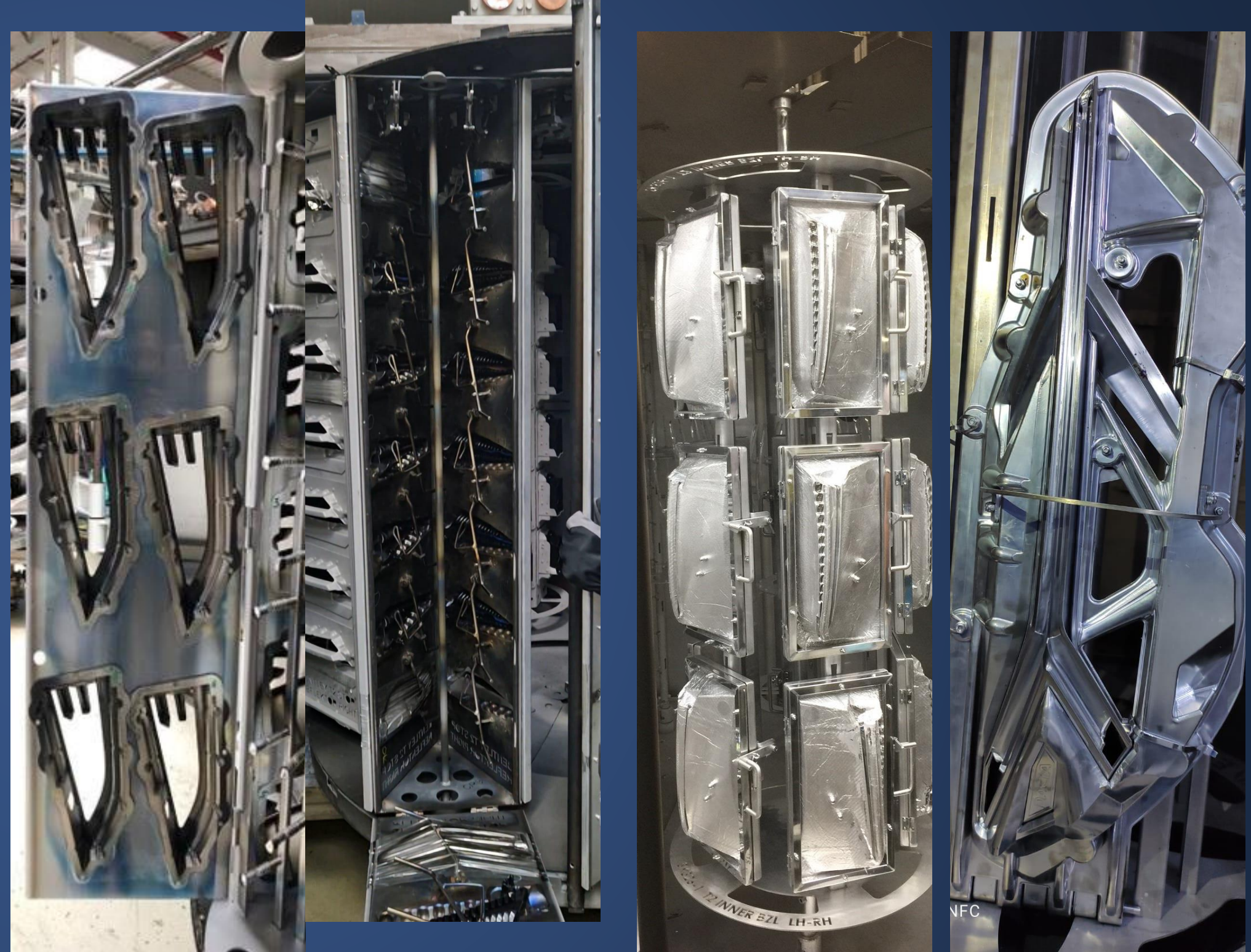
We specialize in the design and manufacturing of custom metallization fixtures used in Physical Vapor Deposition (PVD) coating systems. These fixtures are engineered for precision masking, optimal part exposure, and rapid load/unload cycles.

Designed for automotive lighting components such as headlamps, tail lamps, and signal covers

Supports full and partial aluminum coating applications
Includes carbon fiber, sheet metal, thermoformed, and composite masking solutions

Compatible with leading PVD coating chamber formats
Engineered for repeatability, balance, and thermal stability

Our in-house team ensures that every fixture meets both functional and coating process requirements.





BOSCH

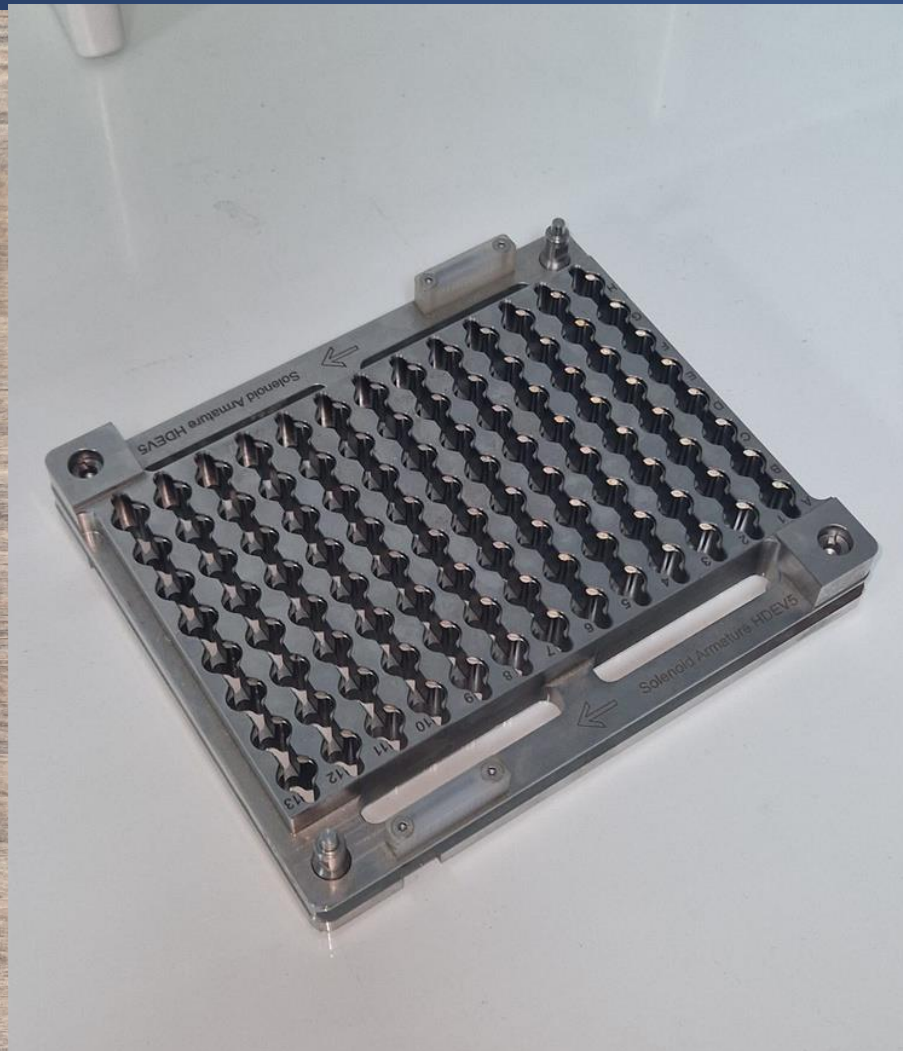
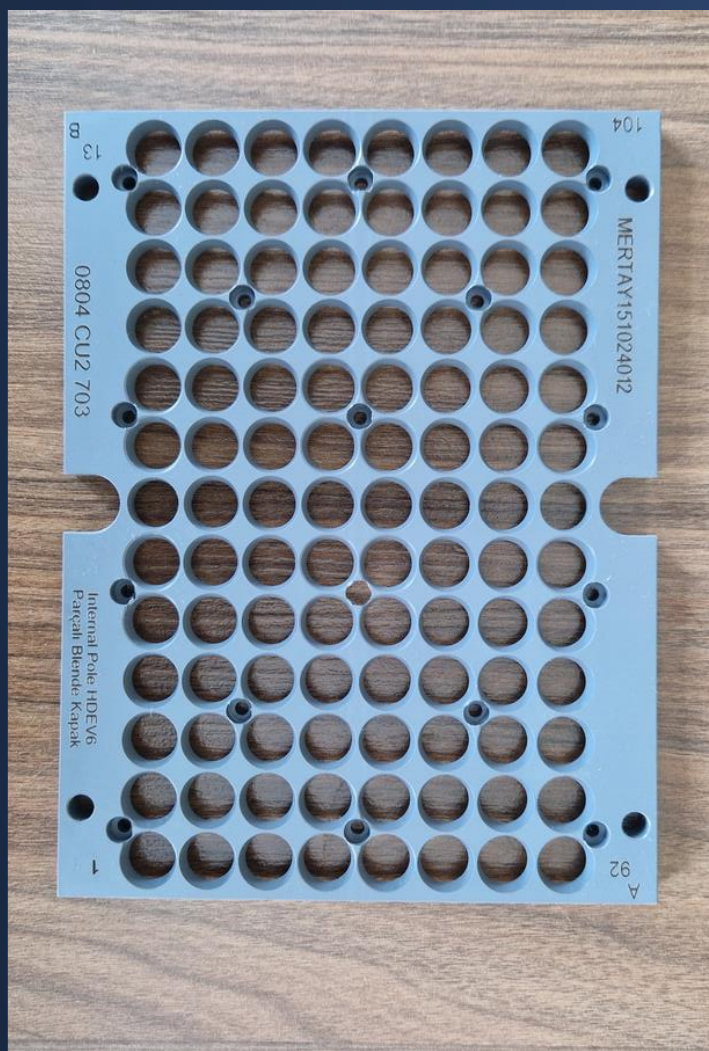
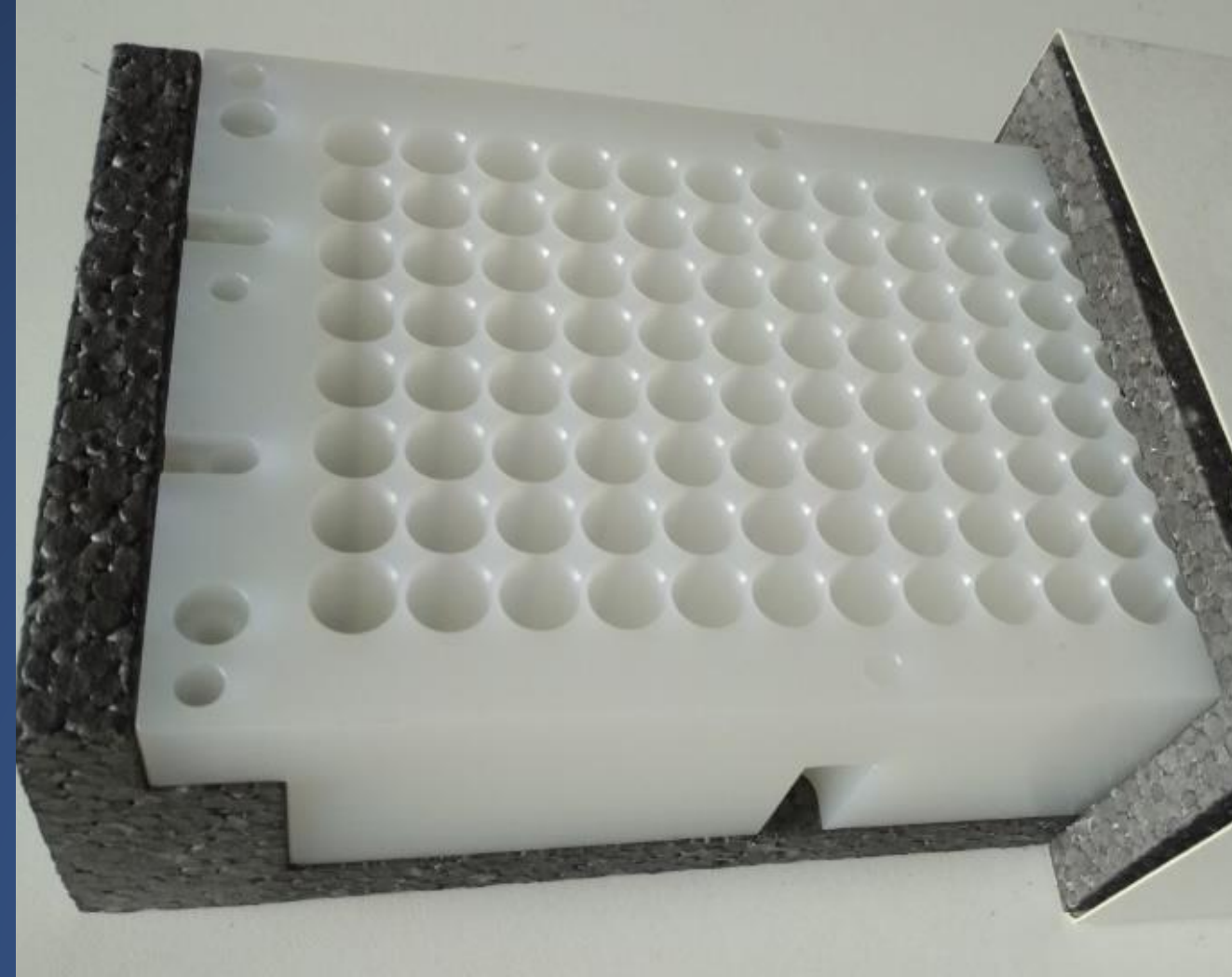
rexroth

A Bosch Company



BOSCH

rexroth
A Bosch Company



BOSCH

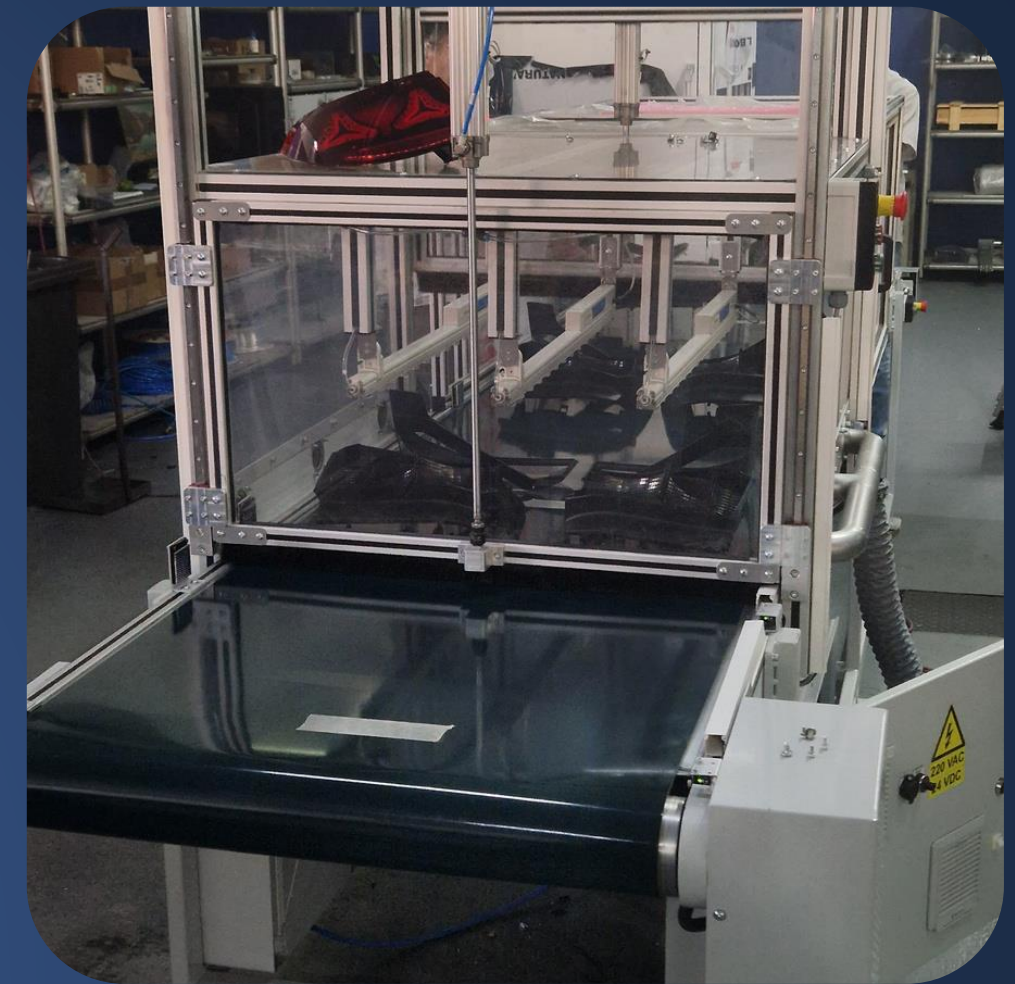
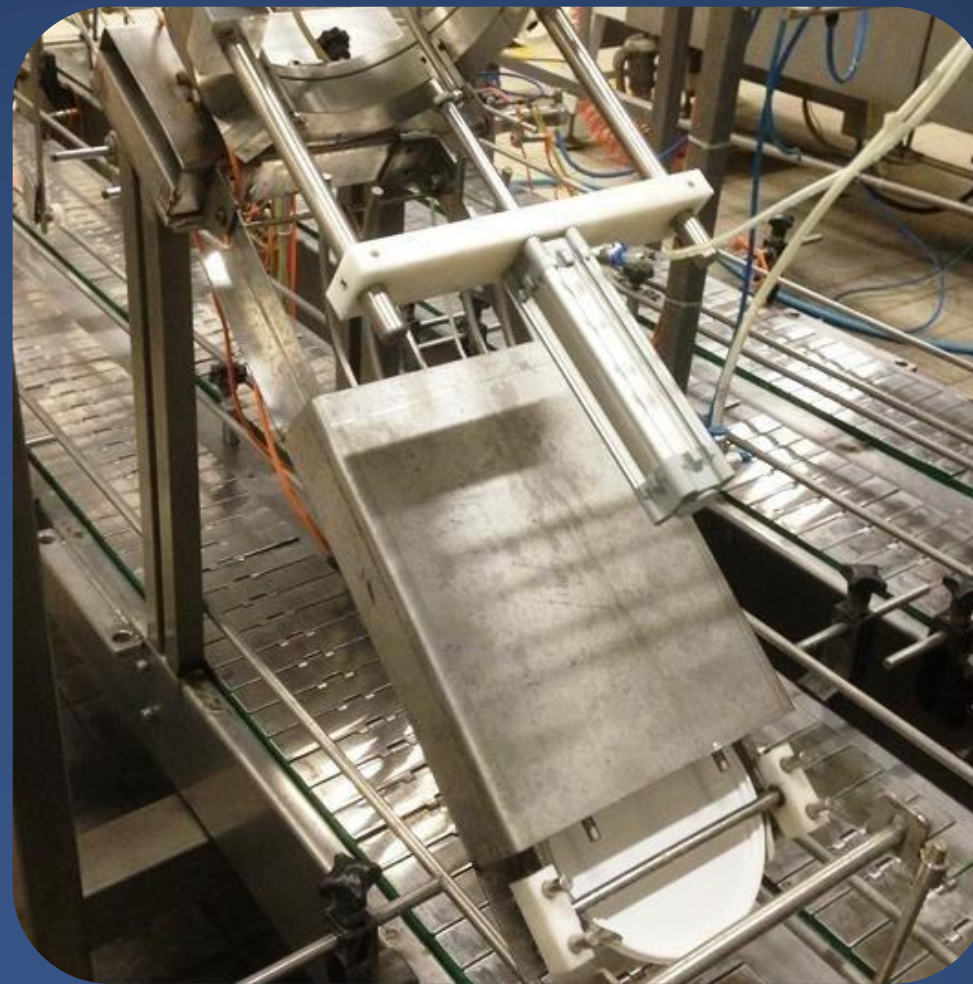
rexroth
A Bosch Company

Conveyor and Assembly Lines

Mertay Makina engineers and manufactures modular conveyor systems and automated assembly lines tailored to specific part geometries, takt times, and station requirements.

- Systems include PVC belt, roller, chain-driven, and gravity conveyors, adaptable for manual, semi-automatic, or fully automatic operations.
- Integration of PLC-based motion control, position sensors, DMC/barcode readers, and traceability modules.
- Custom line balancing, fixture integration, and station sequencing for optimal flow and minimal downtime.
- Designed with operator ergonomics, safety interlocks, and poka-yoke functions to reduce assembly errors.
- Optional SCADA integration for real-time monitoring, cycle time analysis, and data logging.

All systems are engineered and built in-house, ensuring full compliance with project specifications and industry standards.



Our Certificates



CERTIFICATE

**MERTAY METAL SAÇ MAKİNA GIDA TEKSTİL
TURİZM OTOMOTİV SANAYİ VE TİCARET
LİMİTED ŞİRKETİ**

FETHİYE OSB MAH. PEMBE CAD. NO:9
NİLÜFER / BURSA / TÜRKİYE

*Has been assessed and found to Comply with the Requirements of:
Denetlenmiş ve aşağıdaki standardın gerekliliklerine uygunluğu görülmüştür:*

ISO 9001:2015

*The Quality Management System is applicable to:
Kalite Yönetim Sistemi:*

MANUFACTURING OF AUTOMOTIVE ASSEMBLY LINES, CNC MACHINED PARTS, JIGS
FIXTURES AND TOOLS, CONVEYORS, SHEET METAL FORMING, VACUUM METALLIZATION
RACKS, AEROSPACE SECTOR PARTS, FORMING OF METAL

OTOMOTİV MONTAJ HATLARININ, CNC PARÇALARININ, APARATLARIN, FİKSÜRLERİN,
KONVEYÖRLERİN, METAL KAPLAMA PLANETLERİNİN, HAVACILIK SEKTÖRÜNE YÖNELİK
METAL PARÇALARININ İMALATI, METALLERİN ŞEKİLENDİRİLMESİ

Certificate Number: QMS-10464 Initial Certification Date: 07.07.2023
Belge Numarası: QMS-10464 İlk Belgelendirme Tarihi: 07.07.2023

Certification Period: 3 Years Certificate Validity Date: 06.07.2025
Belgelendirme Periyodu: 3 Yıl Belge Geçerlilik Tarihi: 06.07.2025



IQR Uluslararası Belgelendirme Hizmetleri Ltd.Şti.
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CERTIFICATE

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TURİZM OTOMOTİV SANAYİ VE TİCARET
LİMİTED ŞİRKETİ**

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*Has been assessed and found to comply with the requirements of:
Denetlenmiş ve aşağıdaki standardın gerekliliklerine uygunluğu görülmüştür:*

ISO 14001:2015

*The Environmental Management System is applicable to:
Çevre Yönetim Sistemi:*

MANUFACTURING OF AUTOMOTIVE ASSEMBLY LINES, CNC MACHINED PARTS, JIGS
FIXTURES AND TOOLS, CONVEYORS, SHEET METAL FORMING, VACUUM METALLIZATION
RACKS, AEROSPACE SECTOR PARTS, MACHINES, FORMING OF METALS

OTOMOTİV MONTAJ HATLARININ, CNC PARÇALARININ, APARATLARIN, FİKSÜRLERİN,
KONVEYÖRLERİN, METAL KAPLAMA PLANETLERİNİN, HAVACILIK SEKTÖRÜNE YÖNELİK
METAL PARÇALARIN, MAKİNELERİN İMALATI, METALLERİN ŞEKİLENDİRİLMESİ

Certificate Number: EMS-004082 Initial Certification Date: 30.11.2024
Belge Numarası: EMS-004082 İlk Belgelendirme Tarihi: 30.11.2024

Certification Period: 3 Years Certificate Validity Date: 29.11.2025
Belgelendirme Periyodu: 3 Yıl Belge Geçerlilik Tarihi: 29.11.2025



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TURİZM OTOMOTİV SANAYİ VE TİCARET
LİMİTED ŞİRKETİ**

FETHİYE OSB MAH. PEMBE CAD. NO:9
NİLÜFER / BURSA / TÜRKİYE

*Has been assessed and found to Comply with the Requirements of:
Denetlenmiş ve aşağıdaki standardın gerekliliklerine uygunluğu görülmüştür:*

ISO 45001:2018

*The Occupational Health and Safety Management System is applicable to:
İş Sağlığı Ve Güvenliği Yönetim Sistemi:*

MANUFACTURING AND SALES OF MACHINERY AND SPARE PARTS

MAKİNA VE YEDEK PARÇALARININ İMALATI VE SATIŞI

Certificate Number: 2022/OHSMS/00111754 Initial Certification Date: 26.10.2022
Belge Numarası: 2022/OHSMS/00111754 İlk Belgelendirme Tarihi: 26.10.2022

Certification Period: 3 Years Certificate Validity Date: 25.10.2024
Belgelendirme Periyodu: 3 Yıl Belge Geçerlilik Tarihi: 25.10.2024



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Our Work Partners Around the World

Robert Bosch GmbH

- Turkey
- Germany
- Mexico
- United States

Plastic Omnium Lighting

- Morocco
- Poland
- Czechia

Odelo Automotive Lighting

- Turkey
- Slovenia
- Bulgaria
- China
- Germany



Our Work Partners Around the World

CERN

- Switzerland
- France

Oldrati Group

- Italy

KASTO Maschinenbau GmbH

- Germany

Hyundai Motorsport GmbH

- Germany

Tesla Gigafactory Berlin-Brandenburg

- Germany

Rudolf Nieberding GmbH

- Germany

Maximator GmbH

- Germany



Our Work Partners Around the World

Feka Automotive Lighting

- Serbia

Sütaş Food and Beverage HQ

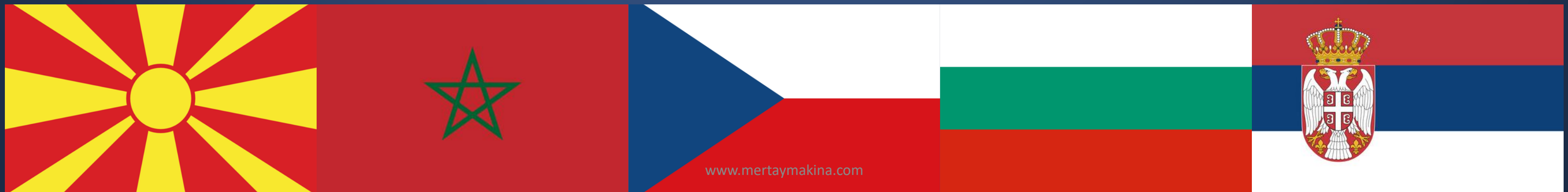
- North Macedonia

Irico Gualchierani Handling

- Italy

ELBA Lighting Technology

- Romania



- 1.Germany
- 2.United States
- 3.Mexico
- 4.Switzerland
- 5.France
- 6.Italy
- 7.Morocco
- 8.Poland
- 9.Czechia
- 10.Slovenia
- 11.Bulgaria
- 12.China
- 13.Serbia
- 14.North Macedonia
- 15.Romania







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29





THANK YOU FOR YOUR ATTENTION

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