

LABORMET DUE



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> Automotive

Market Channel / Automotive OEM/OES / Passengers Cars /
Internal Combustion Engines / Customer's Product / Automotive
Aftermarket / Commercial Vehicles, Trucks & Buses / HEV-PHEV-
BEV Propulsion Systems / Plastic & Rubber Transformation /
Competence Area / Agricultural, Earth Moving Machines And
Special Off-Road Vehicles / Cold Forming / Sheet Metal /
Components Subsystems & Systems / Sport, Super & Hypercars /
Battery Systems / Manufacturing Technologies & Production
Management / Motorcycle / Challenges / Micromobility /
Transmission / Energy Infrastructure / Suspension System, Wheels
& Tires / Gravity & Die Casting / Testing, Validation And Certification
/ Steering System / Brake / ESC / Surface Treatments (Coating,
Painting, Etc.) / New Materials / Consultancy / Exteriors / Textile /
Seat System / Interior Trim / Industry 4.0 / Interiors: Dashboard,
Instrument Panel, Driver Interface / Construction & Assembly /
Electronics/ Electric Parts / Embedded Systems / Sensing (Radar,
Lidar, Camera) / Infotainment / Power Supply, Charging & Refueling
Systems



> Railway

Rapid Prototyping & Additive MFTG / Competence Area / Bogies &
Running Gear / Plastic & Rubber Molding / Customer's Functional
Segments / Other Rolling Stock Subsystems / Rolling Stock / Cold
Forming/sheet Metal / Rolling Stock Traction & Control /
Production Management & Technologies / Control System
Components / Challenges / Molds Construction / Brakes & Brake
Systems / Lighting · Safety Lighting & Interior Lighting / Prototyping
/ Wheels - Wheelsets - Axles / Gravity & Die Casting / Surface
Treatments (Coating, Painting, Etc.) / Testing, Validation &
Certification / New Materials / Textile / Consultancy / Industry 4.0

> Other key sectors

Aerospace, Mechatronics

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> More about LABORMET DUE

Labormet Due guarantees for all the equipment supplied: installation and training of personnel, after-sales assistance, requalification, and certification.

At the same time, Labormet Due has its metrology and industrial computed tomography laboratory.

Reverse engineering, evaluation of the porosity, internal control of the defects are just some examples of what the tomographic technique can offer.

Typically the purchase of this instrument scares users for its costs and the management and logistical costs that it entails, the offer of the service quantifiable in "projects" or overtime represents an ideal solution both for customers who have continuous requests for analysis and sporadic customers.

In this field, the company works for various leading companies in the aerospace sector, which more and more often require advanced control techniques to guarantee the highest quality in products.

To provide products and services compliant with the quality standards of the Aeronautics, Space, and Defense supply chains, Labormet Due has obtained the following certifications:

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- ISO 9001: 2015

- EN 9100: 2018

Quality Control and material characterization instruments:

- scanning electron microscopes SEM, Micro-analysis EDX, WDX, EBSD, atomic force microscopes AFM, scanning acoustic microscopes SAM, x-ray diffractometer XRD, x-ray fluorescence spectrometer XRF
- systems for industrial x-ray computed tomography
- machines for test traction, compression, and resilience testing and other static mechanical tests
- specific instruments for the control of physical and mechanical characteristics of the rubber
- bench hardness testers HV HR HB, universal, portable hardness tester
- chemo-mechanical durability, fingertip & hand abrasion testers, multi-functional and high dynamic scratch/punch/abrasion testers, universal surface testers, 3D optical measurement systems, micro-calorimetry tests for wear and coating thickness testing
- stereoscopic microscopes, optical and confocal, digital cameras, image analysis systems for metallography and cleaning control details
- furnaces and heat treatment plants
- optical 3D measurement machines (non-contact), roughness, profilometers, roundness
- machines and consumables for the preparation of metallographic samples
- resonant testing systems and machines for dynamic materials testing
- development of leading software for the analysis and visualization of industrial computed tomography data
- climatic chambers, rooms for corrosion tests in salt spray, heat treatment furnaces for environmental simulation equipment in general

Industrial X-Ray Computed Tomography Services:

- Failure analysis

- Reverse Engineering

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