



ROMEXPO S.A.
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1. METAL PROCESSING

- ☐ Machine tools: lathes, milling machines, CNC machines, machining centers
- ☐ Precision cutting: laser, plasma, waterjet
- ☐ Tools, clamping devices, abrasive materials
- ☐ Surface treatment and finishing
- ☐ Metallurgy, foundry and refractory products
- ☐ Welding and joining technologies

2. ARTIFICIAL INTELLIGENCE IN MANUFACTURING (AI IN MANUFACTURING)

- ☐ AI and machine learning for manufacturing process optimization
- ☐ AI-based predictive maintenance
- ☐ AI solutions for quality control and machine vision
- ☐ Practical AI applications in factories: case studies and live demonstrations

3. ROBOTICS AND AUTONOMOUS SYSTEMS

- ☐ Industrial robots and collaborative robots (cobots)
- ☐ Automated guided vehicles and autonomous mobile robots (AGV/AMR)
- ☐ Automated handling, palletizing and assembly systems
- ☐ Sensors, actuators and control systems

4. INDUSTRIAL AUTOMATION AND DIGITALIZATION (INDUSTRY 4.0)

- ☐ Digital twins and industrial simulation
- ☐ Industrial Internet of Things (IIoT) and industrial cloud
- ☐ Industrial software: ERP, MES, CAD/CAM/CAE
- ☐ Virtual and augmented reality in industrial environments

5. DRIVES, TRANSMISSIONS AND MOTION CONTROL

- ☐ Hydraulic and pneumatic systems
- ☐ Motors, gearboxes and power transmissions
- ☐ Bearings and precision motion components
- ☐ Electric drives and servo motors

6. INDUSTRIAL INSTRUMENTATION, TESTING AND MEASUREMENT

- ☐ Dimensional measurement and control equipment
- ☐ Non-destructive testing (NDT)
- ☐ Real-time process monitoring
- ☐ Industrial metrology and calibration

7. ADDITIVE MANUFACTURING, ADVANCED MATERIALS AND COMPOSITES

- ☐ Metal 3D printing and additive manufacturing technologies
- ☐ Superalloys, metal matrix composites and hybrid materials
- ☐ Nanomaterials and functional anti-corrosion coatings
- ☐ Hybrid metal-plastic components for automotive and aerospace



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8. ENERGY TECHNOLOGIES FOR SUSTAINABLE PRODUCTION

- ☐ Electrification of industrial processes
- ☐ Green hydrogen and decarbonization of the metal industry
- ☐ Energy storage and UPS systems
- ☐ Circular economy: metal recycling and recovery

9. 5G AND INDUSTRIAL COMMUNICATIONS

- ☐ Private 5G networks for factories
- ☐ M2M communications and industrial wireless connectivity
- ☐ Network infrastructure for connected factories

10. INDUSTRIAL CYBERSECURITY

- ☐ Protection of industrial control systems (OT security)
- ☐ Data security in connected production environments
- ☐ Compliance and cyber resilience solutions

11. ELECTRICAL ENGINEERING AND COMPONENTS

- ☐ Electrical equipment and materials
- ☐ Cables, conductors and distribution networks
- ☐ Power supplies: batteries, accumulators, UPS units

12. LOGISTICS, WAREHOUSING AND INDUSTRIAL HANDLING

- ☐ Lifting and handling systems (platforms, forklifts)
- ☐ Warehouse and logistics center automation
- ☐ Industrial packaging
- ☐ Traceability and automatic identification

13. METAL-BASED MOBILITY AND TRANSPORT

- ☐ Metal components for electric vehicles
- ☐ Aluminum and lightweight alloys for automotive and aerospace
- ☐ Charging infrastructure and electric mobility

14. RESEARCH, INNOVATION AND EMERGING TECHNOLOGIES

- ☐ Invention and applied research in the metal industry
- ☐ University-industry technology transfer
- ☐ Start-ups and spin-offs in future technologies
- ☐ Frontier technologies: biofabrication, smart materials, advanced computing applied to industry

15. GENERAL SERVICES AND OFFICIAL PARTICIPATIONS

- ☐ Specialized consulting, financial and HR services
- ☐ Education, professional training and trade associations
- ☐ Official participations and 100% Romanian-made products

