



MICROPLASMA

CAPABILITY STATEMENT

Engineering, Procurement & Manufacturing for Naval and Industrial Applications

Since 1992, MICROPLASMA has manufactured certified components, custom-fabricated equipment and precision parts for the shipbuilding, petrochemical, energy, nuclear, hydropower and industrial sectors.

From technical requirements and material procurement to manufacturing, quality control, documentation and delivery, we provide integrated project execution from our production facility in Romania.

SINCE 1992 | 34+ YEARS | 50+ SPECIALISTS | ISO 9001:2015

“Microplasma, Quality is our strength, Challenge us!”

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COMPANY OVERVIEW

A Romanian Engineering and Manufacturing Partner

Established in 1992, MICROPLASMA is a privately owned Romanian company specialising in the manufacture of naval and industrial components, custom-fabricated equipment, precision-machined parts and reconditioning solutions.

Originally founded to manufacture spare parts for the petrochemical industry, the company has expanded its capabilities across shipbuilding, energy, nuclear, hydropower, refining, industrial and agricultural applications.

Our team supports projects from initial technical requirements through material selection, procurement, production, inspection, documentation, packaging and final delivery.

Production is carried out at our facility in Năvodari, Romania, using documented quality procedures, full material traceability and manufacturing processes adapted to customer drawings, specifications and applicable standards.

KEY FACTS

1992	34+	50+	ISO 9001:2015
Year Established	Years of Manufacturing Experience	Skilled Specialists	Certified Quality Management System

WHY MICROPLASMA

Integrated Project Execution

We coordinate technical review, material procurement, manufacturing, quality control, documentation and delivery through a single production partner.

Custom Manufacturing

Components and assemblies are manufactured to customer drawings, technical specifications and project-specific requirements.

Certified Quality

Documented production processes, material traceability and recognised certifications support demanding naval and industrial applications.

Diverse In-House Capabilities

Machining, laser cutting, fabrication, welding, metal coating, zinc electroplating, component reconditioning and technical assistance are available through one manufacturing organisation.

Multi-Industry Experience

More than 34 years of practical manufacturing experience across naval, petrochemical, energy, nuclear, hydropower, industrial and agricultural projects.



PRODUCTS & MANUFACTURING SOLUTIONS

Standard and custom-engineered products manufactured to customer drawings, technical specifications and applicable project requirements.



SECTION 1

MARINE DOORS & OUTFITTING

Custom-manufactured marine doors, hatches and deck equipment for commercial, naval and specialised vessels.

Product Range:

B-15 fire-rated doors · A-0, A-30 and A-60 door configurations · Watertight doors · Weathertight doors · Gastight doors · Access hatches · Watertight hatches · Tank-cleaning hatches · Flush and swing hatches · Loading hatches · Marine gangways · Ladders and skid-proof steps · Manholes · Tank vents · Deck fittings

RINA type approval is held for specified B-15 and A-60 single-leaf hinged fire-door configurations.

SECTION 3

PRECISION-MACHINED COMPONENTS

Small and medium-sized components, assemblies and replacement parts manufactured or restored according to customer drawings and dimensional requirements.

Product Range:

Shafts · Crankshafts · Bearings and bushes · Cylinder sleeves · Connecting rods · Pistons · Mechanical assemblies · Hydropower components · Custom replacement parts · Close-tolerance machined components

SECTION 2

INDUSTRIAL SEALING SOLUTIONS

Custom and standard sealing components for petrochemical, refinery, energy, marine and process-industry applications.

Product Range:

Spiral-wound gaskets · Double-jacketed gaskets · Soft-material gaskets · Metallic gaskets · Industrial expansion joints · Naval expansion joints · Flanges · Custom sealing elements

Products can be manufactured according to customer drawings, operating conditions, material requirements and applicable standards. Long-standing supply relationships in this segment include OMV Petrom, KazMunayGas and Rompetrol.

SECTION 4

CUSTOM METAL FABRICATION

Custom-manufactured steel and stainless-steel products for naval, energy, industrial and agricultural applications.

Product Range:

Cable ladders and cable-support systems · Hydropower structures and assemblies · Agricultural equipment components · Agricultural steel structures · Custom industrial frames · Stainless-steel marine furniture · Stainless-steel industrial furniture · Perforated panels and screens · Bespoke metal assemblies

MANUFACTURING & TECHNICAL CAPABILITIES

Precision manufacturing, component restoration and field-support services developed through more than 34 years of naval and industrial experience.

SECTION 1

CNC LASER CUTTING

Precision cutting of sheet, plate, pipe and tube according to customer drawings and digital files.

Materials: Carbon steel · Stainless steel · Aluminium · Other specified metallic materials, subject to technical review

Applications: Industrial components · Structural parts · Flanges and profiles · Perforated panels · Cable-support components · Custom-fabricated assemblies

SECTION 2

MACHINING & COMPONENT RECONDITIONING

Machining of new parts and restoration of worn components to specified dimensions and drawing tolerances.

Capabilities: Turning · Milling · Drilling · Surface restoration · Dimensional correction · Shaft and crankshaft reconditioning · Bearing and bush reconditioning · Cylinder sleeve reconditioning · Mechanical component repair

SECTION 3

FABRICATION & WELDING

Manufacture of custom assemblies, structures and equipment using documented fabrication procedures.

Capabilities: Carbon-steel fabrication · Stainless-steel fabrication · MIG/MAG welding · TIG/WIG welding · Assembly and fitting · Structural fabrication · Custom manufacturing to drawing

SECTION 4

ARC-SPRAY METAL COATING

Restoration of worn or undersized components through arc-spray metal deposition. The process can rebuild functional surfaces with limited heat input and minimal distortion of the base component.

Applicable Base Materials: Carbon steel · Cast iron · Copper · Brass · Aluminium

SECTION 5

ON-SITE LEAK SEALING

Technical intervention and sealing services for industrial installations and operating equipment.

Applications: Water pipelines · Steam pipelines · Oil pipelines · Pumps · Turbines · Process installations · Industrial piping systems

SECTION 6

ZINC ELECTROPLATING

In-house weak-acid zinc electroplating for long-term corrosion protection of industrial components.

Capabilities: Zinc coating · Blue passivation · Barrel processing · Frame loading · Batch processing · Corrosion-protection finishing

SECTION 7

TECHNICAL ASSISTANCE

Workshop-based and on-site support for manufacturing, component restoration and industrial maintenance requirements.

Support Available: Technical feasibility review · Drawing and specification review · Material-selection support · Repair-method assessment · On-site inspection · Equipment and component repair · Sealing and reconditioning support · Heat-treatment coordination · Manufacturing documentation

QUALITY & COMPLIANCE

MICROPLASMA operates through documented manufacturing and inspection procedures designed to provide consistent quality, material traceability and project-specific compliance.

Quality documentation can be prepared according to contractual requirements and may include material certificates, dimensional inspection records, manufacturing documentation and applicable conformity records.

CERTIFICATIONS & AUTHORISATIONS

ISO 9001:2015 CERTIFICATE OF APPROVAL

Lloyd's Register · ISO 9001 — 0031248

Certified quality-management scope covering the design and manufacture of sealing elements and spare parts, together with component reconditioning by machining and metal coating for the chemical, petrochemical, energy, shipbuilding and machine-tool industries.

NAVAL & INDUSTRIAL SERVICE PRODUCER AUTHORISATION

Romanian Naval Authority — ANR · 52528 SAPNI-SP HM/419-1

Authorisation covering mechanical works, deck equipment and fittings, machining and component reconditioning by metal coating for naval and industrial applications.

NATO COMMERCIAL AND GOVERNMENT ENTITY CODE

Romanian Ministry of National Defence / NATO · NCAGE 007EL

MICROPLASMA is registered within the NATO Codification System as a NATO-coded economic entity.

RINA TYPE APPROVAL — B-15 FIRE DOOR

RINA Services S.p.A. · FPE021824XR

Type approval for a specified single-leaf hinged B-15 fire door manufactured in accordance with IMO Resolution MSC.307(88), 2010 FTP Code, Part 3.

RINA TYPE APPROVAL — A-60 FIRE DOOR

RINA Services S.p.A. · FPE011725XR

Type approval for a specified single-leaf hinged A-60 fire door manufactured in accordance with IMO Resolution MSC.307(88), 2010 FTP Code, Part 3.

INDUSTRIES SERVED

SHIPBUILDING & NAVAL

Marine doors, hatches, deck equipment, outfitting components, stainless-steel furniture and custom-fabricated assemblies.

ENERGY

Custom-fabricated components, replacement parts, cable-support systems and maintenance solutions.

HYDROPOWER

Machined parts, equipment components, assemblies and component-reconditioning services.

PETROCHEMICAL & REFINING

Gaskets, expansion joints, machined spare parts, leak-sealing solutions and component reconditioning.

NUCLEAR

Manufacturing and technical support for specialised components subject to applicable customer, quality and documentation requirements.

INDUSTRIAL & AGRICULTURAL

Custom machinery parts, steel structures, fabricated assemblies and surface-treated components.

DISCUSS YOUR NEXT PROJECT WITH US

Send us your drawings, technical specifications or bill of materials for manufacturing review and quotation.

Our team can assess:

- Technical feasibility
- Materials and manufacturing processes
- Required quantities
- Applicable standards
- Inspection and documentation requirements
- Packaging and delivery conditions
- Target production schedule

REQUEST A QUOTATION

For an accurate technical and commercial proposal, please include:

- Drawings or 3D files
- Material specifications
- Required quantity
- Applicable standards
- Inspection requirements
- Required documentation
- Delivery location
- Requested completion date

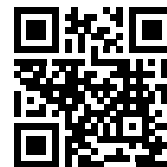
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