

MANUFACTURING

High-precision components
with exceptional dimensional
and shape accuracy

- **3- and 5-axis CNC**
milling and turning
Tolerances up to $\pm 0,01$ mm
- **EDM technologies**
Tolerances up to $\pm 0,003$ mm
- **Grinding**
Tolerances up to $\pm 0,003$ mm

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We are ready to act as a technological and manufacturing partner for companies operating in maritime security, autonomous systems, and sensor technology. We are actively seeking participation in European programmes and calls (Horizon Europe, EDF) where we can provide reliable manufacturing and engineering support across the development and industrialisation phases of innovative projects.

MATERIALS

- Aluminum alloys
(5xxx, 6xxx, 7xxx series)
- Titanium
- Stainless, duplex and hardened
steels
- Composite materials
- Technical plastics

ASSEMBLY

Subcomponents and final
systems, with full **CMM** validation
of geometry and dimensional
accuracy

SURFACE TREATMENTS

- Hard and decorative anodizing
- Chemical nickel plating
- Stainless steel passivation
- Microblasting

APPLICATION AREAS

- Mechanical parts for autonomous platforms
- Precision mounts, shielding components, structural frames,
and cooling elements
- Protective housings and adaptive parts for navigation units
- Vibration-, corrosion-, and pressure-resistant components
for dynamically stressed environments

CERTIFICATES

- EN ISO **9001**, EN ISO **14001**, EN ISO **45001**
- **AS9100** (certification in progress)

MECASYS specializes in the custom manufacturing of precision mechanical components for demanding technical applications. With advanced machining equipment and deep technological expertise, we deliver complex metal and composite parts optimized for the aerospace, defense, automotive, mechanical engineering, optics, and plastic components sectors.