

BÜCKER + ESSING

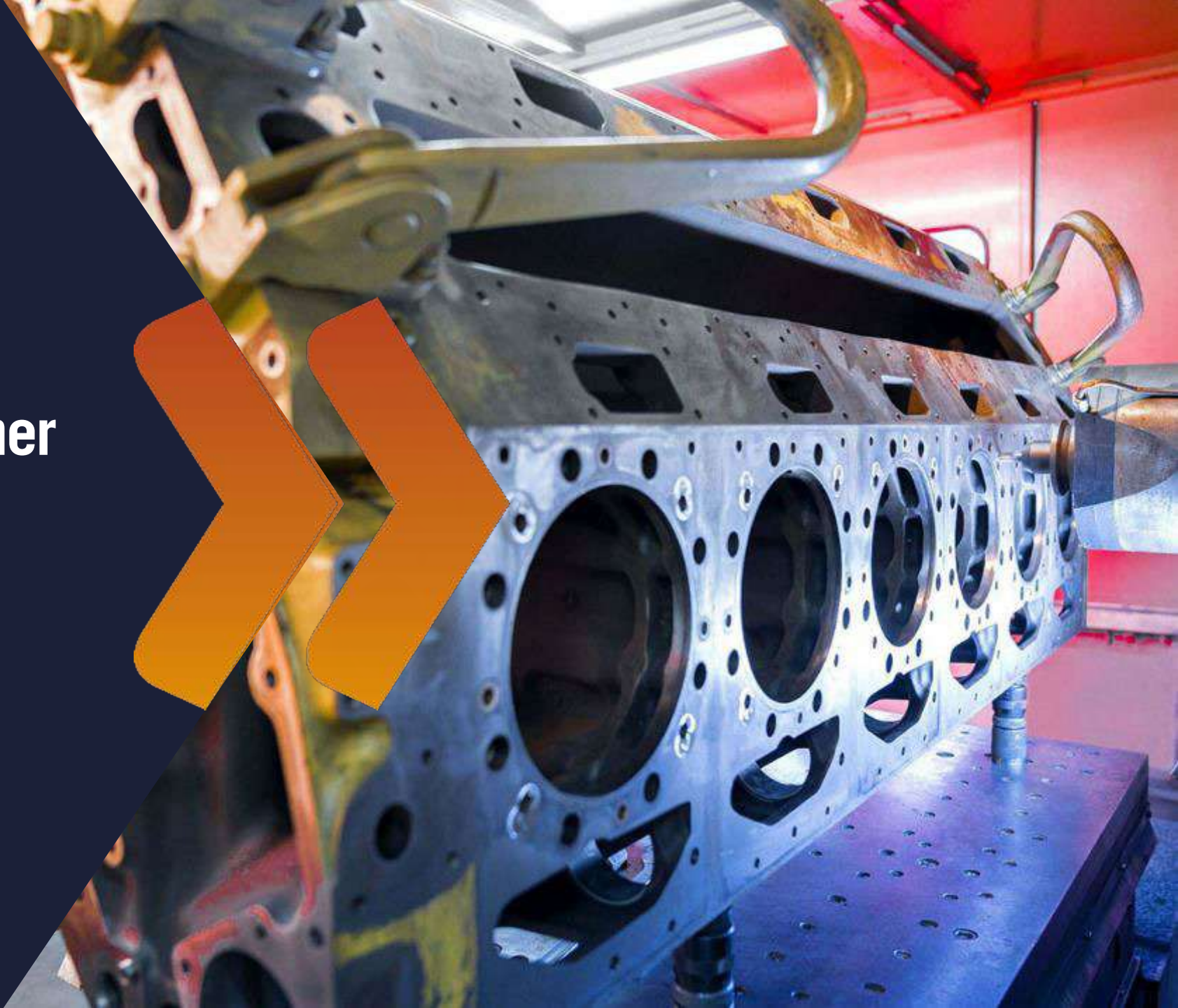


MEMBER OF ELEVION GROUP

Your technology partner
for engines, pumps,
compressors



Greece | April 2026





➤ **Facts and figures**

➤ **SERCOO Group | Elevion Group**

➤ **Gas engine technology**

➤ **Diesel engine technology**

➤ **H2 engine technology**

➤ **Mechanical processing**

➤ **Rotating Equipment Service**



Technology that moves us



We are a technology partner for engines, pumps and compressors.

By repairing, retrofitting and optimising them, we create sustainable and economical solutions for energy, transport and industrial companies.

Regionally based, **globally active**



Mobile Services
Installation and removal service



160

Employees



Engine competence since

1963



600

Engine overhauls p.a.



2

Locations in Lingen

Our products and services



Gas, Diesel, H2 engines



**Pumps, compressors,
crankshafts**



Mobile Services



B2B Services



Exchange engines



Components

Quality-assured overhaul processes



Disassembly



Cleaning

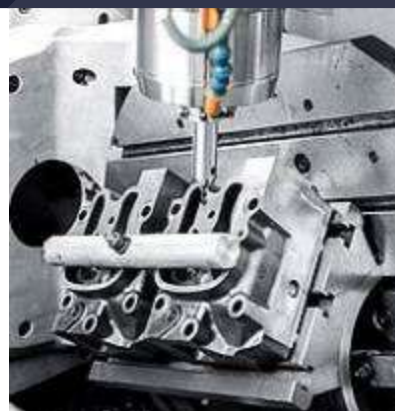


Inspection &
Documentation

Mechanical
processing

Assembly &
Quality control

Transport &
Logistics



Quality – signed and sealed



**DIN EN ISO
9001:2015**



**RAL-GZ 797
for engine
overhaul**



**Germanischer
Lloyd for wire and
powder flame
spraying**



**SCC-certified
service
technicians**



**ATEX repairs on
pumps,
compressors, etc.**



**ECM
Maintenance of
Railway engines**

Mechanical processing

The background image shows a large industrial machine, likely a lathe or a similar turning machine, with several long, cylindrical metal components (possibly shafts or pipes) being processed. The machine has a large, circular, metallic structure with various bolts and components. The components are arranged in a row, and the machine is in a workshop or factory setting.

**Mechanical processing and
manufacturing of large
components for
engines and plants**

Surface technology

Retrofit

Laser measurement

Engineering

Mechanical processing

Mechanical processing of components

- Individual reprocessing of large components:
crankshafts up to 8.5 m length, camshafts, piston rods, bearings and cylinder heads

Manufacturing of components

- Components for expiring and small series and special applications

Surface technologies

- Corrosion and wear protection through
metal coating/spraying, submerged arc welding, laser cladding, sandblasting
- Cold gas coating for component salvage

Laser measurement

- Using a mobile laser tracker
- 3D laser scanning of plants and products
- Building management, reverse engineering, deformation analyses



CNC machining centre

Processing of
components up to 7x3 m

Drilling, milling,
grinding, spindling

Engine blocks,
compressor and pump housings,
Bearing and bushing passages

Rotating Equipment Service



**Repair, overhaul and
maintenance of
rotating equipment**

Field Services

Engineering

Revamp & Retrofit

SCC & ATEX

Compressor service

Screw and piston compressors

- Revision, maintenance and repair

Valves, packages and components

- Overhaul, design and manufacture of compressor valves
- Overhaul, design and manufacture of sealing elements
- Design and manufacture of pistons and guide rings
- Grinding of piston rods, crossheads and push rods

Components for discontinued series, small batches and special applications

- Manufacturing

Mobile Services

- Overhaul, maintenance and repair onsite

Spare and wear parts

- Engineering and supply, also express service



Best case: ethylene gas compressor overhaul



Overhaul of stage cylinders in Lingen & assembly on site



Crankshaft inspection & measurement



Crankshaft spread measurement

Best case: screw compressor overhaul



Dismantling



New bearings



**Processing of damaged
bearing journals**



Assembly



Reinstallation

Best case: Overhaul of 6 compressors for turnaround



Dismantling



Transport



Overhaul of piston rods



Thread of bearing races



Overhaul of piston compressor



Assembly

Pump service

Industrial centrifugal pumps of all types

- Revision, maintenance and repair of

Components and assemblies

- Repair and maintenance with the latest CNC technology
- Engineering
- Retrofits for adapting pumps to changed operating conditions

Service

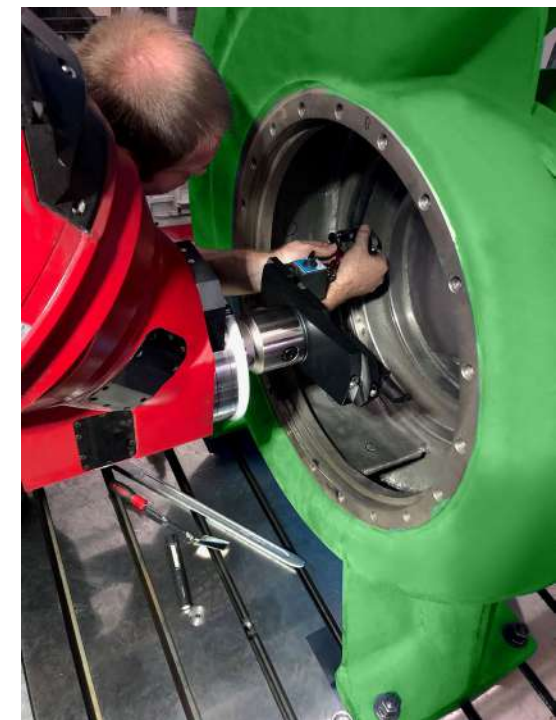
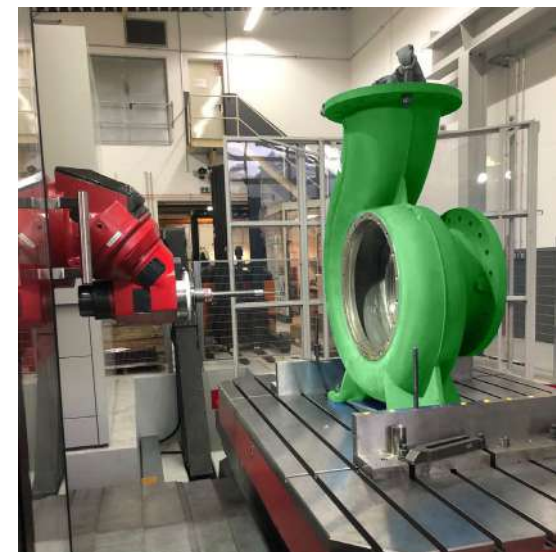
- Certified energy consulting for pumps
- Training (basic/advanced course)

Mobile Services

- Overhaul, maintenance and repair onsite

Spare and wear parts

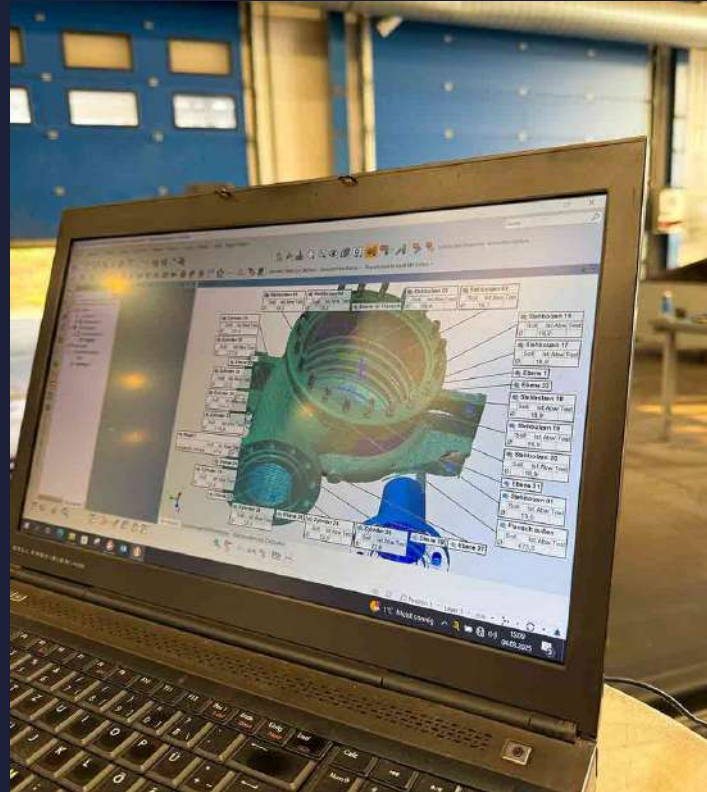
- Delivery and manufacture of spare parts, also express service



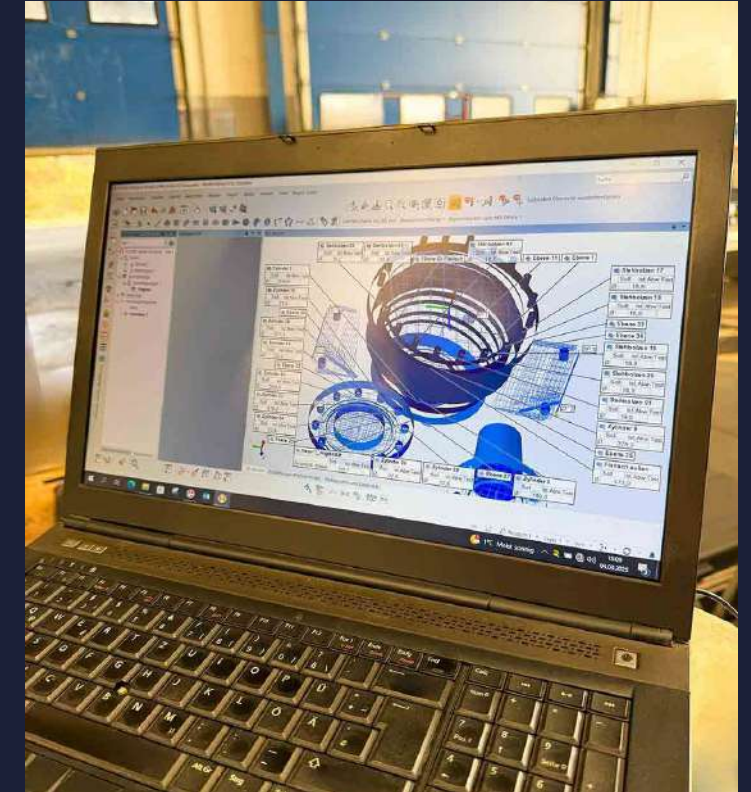
Best case: Pump reverse engineering



3D Scan



Digitalisation



Re-engineering and production

Field Services

- Partial or full inspections of Rotating Equipment
- Qualified service technicians (SCC certified, flange note)
- Status analysis on site
- Preventive overhauls
- Turnkey installations of all kinds
- Personal support on site
- Removals of machines or plants
- Troubleshooting mode – 24/7 service

Technical Support

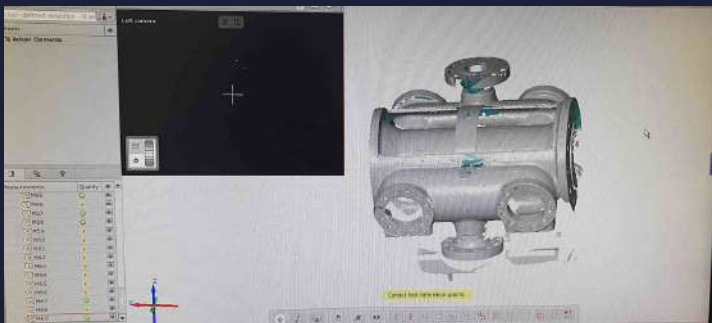
- Technical consulting
- Machine failure analysis (root cause)
- Feasibility studies FEA – carried out with partner companies
- Retro & Reverse Engineering



Reverse Engineering & new production

- Reverse Engineering of assemblies and parts
 - Engineering – improvement of reliability and service life
 - Documentation in OEM standards
-
- Cylinders, cylinder heads, crankshafts, crankcases
 - Parts for discontinued construction series, small series, special applications
 - Individual production of large parts (crankshafts up to 9 m in length, eccentric shafts, special industrial shafts, etc.)

Best case: cylinder production



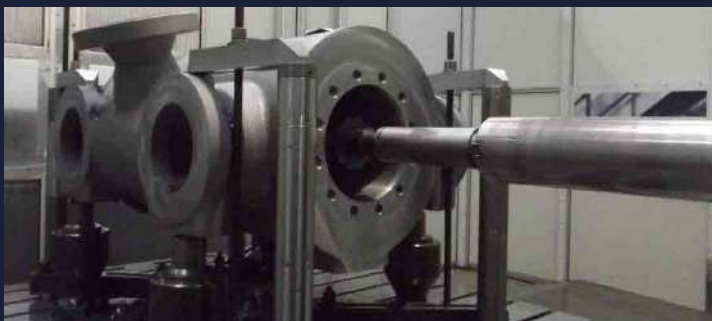
3D Scan + Digitalisation



Mould production



Cast cylinder



Mechanical processing



New cylinder



Installation

Surface technologies

- Surface coating by means of arc welding and metal spraying
- Repairs in a laser deposit welding process
- Repairs in a gas dynamic cold spray process (stationary and mobile)
- Focus on investment-intensive parts and individual parts



Best case: cold gas coating



Crack inspection



Cold gas coating



New ultrastrong surface



Custom planning



Quality control

**Component recovery.
Like-new condition.
15% of original price.**



Mobile Services

Mechanical engine repairs onsite

- Mobile cylinder liner repair

Mobile honing, lapping, milling

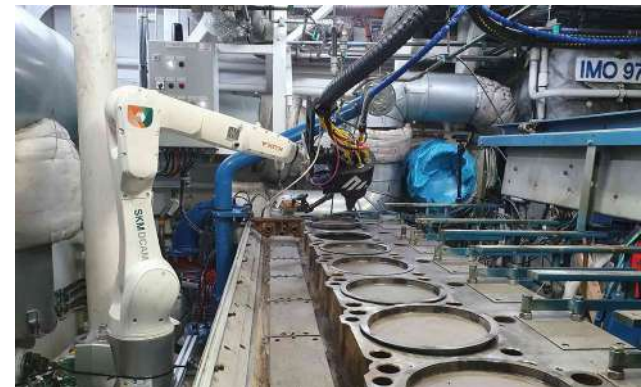
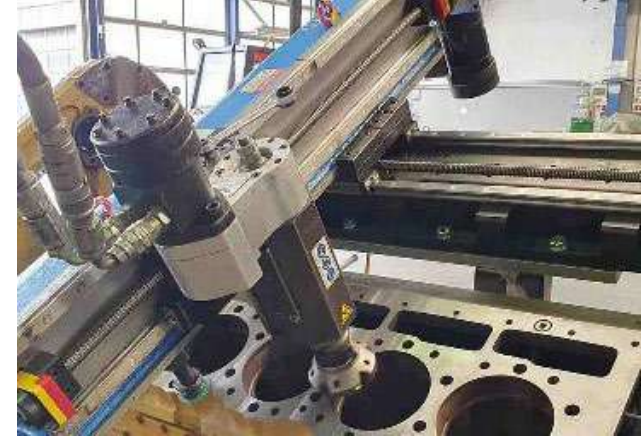
- e.g. of liners and cylinders

Mobile cylinder liner fitting repair

By lapping the liner seats and inserting a tombac ring

Mobile laser welding

Mobile cold gas coating



Mobile measuring by laser tracking

- Measurement of machines, components, parts before dismantling
- Alignment of machines, components, parts during refitting (foundations etc.)
- Measurement of large machines and components on site
- Dimensional deviation analyse, control measurements and calibrations



Best case: mobile cold gas coating on board



Ship engine repair on board



Enclosure of engine room



Mobile cold gas coating



Crankcase before



Crankcase after

**Engine repair on board.
Fast and cost efficient.**

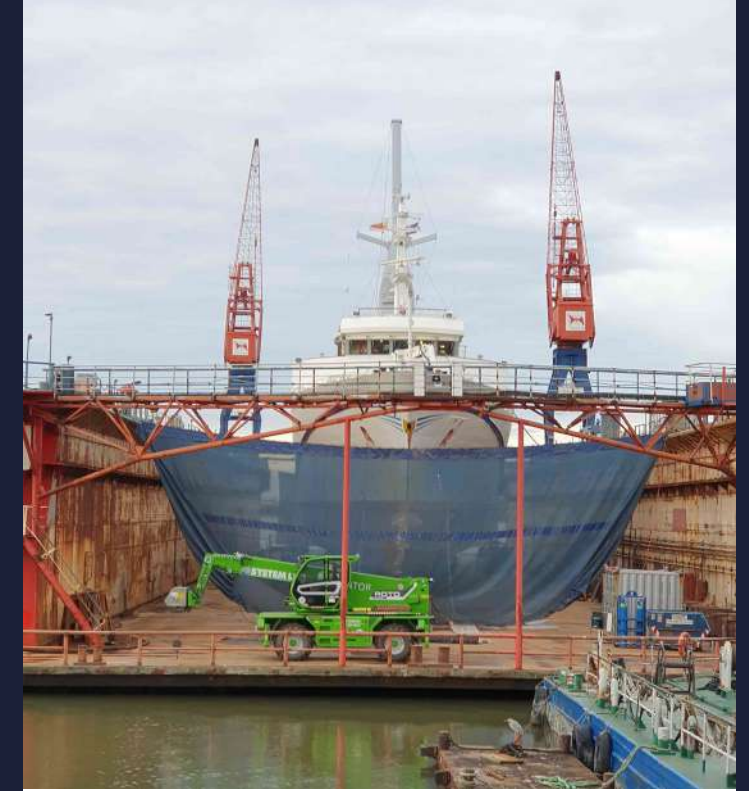
Best case: mobile laser welding



Mobile laser welding



Control room



Engine repair on board