



EMHA

Factsheet

DEVOTED TO PROGRESSION

EMHA's ambitions? To be the best in the sectors we work in. To achieve its ambitions, EMHA uses working method based on expertise, innovation and commitment. This lets us guarantee our clients of good advice, efficient project execution and reliable support in product usage and maintenance.



61 years experience

Established in 1961.



1 world wide service solution

Our experienced engineers and technicians offer world wide service and support.



3 locations

2 x The Netherlands
1 x Germany



85 employees

Highly Involved, well trained and educated.



3 segments

Installation and diagnostic experts for marine, offshore and industry

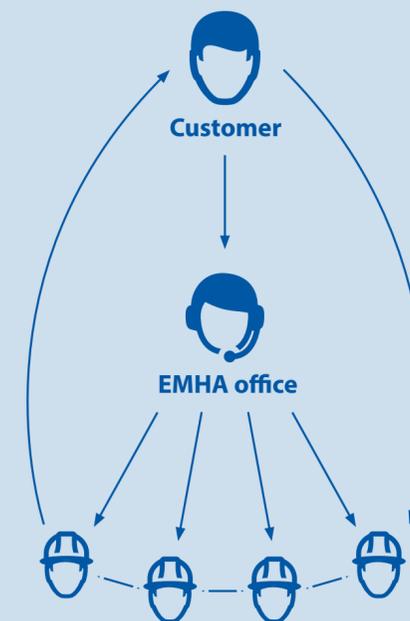


Maximum added value

Involve EMHA in the entire process and achieve maximum added value.

Direct and easy contact

Directly in contact with the specialist you need. We are proud to be a flat and informal organization. If your issue requires an additional specialist, this specialist is present at EMHA and will be directly involved.





On-Site Machining

- Line Boring
- Flange Facing
- Milling
- Drilling
- Tapping
- Honing
- Pipe Cutting
- Bevelling
- Circular Welding
- Key Milling



Engineering

- Axial vibration calculations (Whirling)
- Bending Stress in the shaft line
- Chockfast® application calculations
- Class design approval support
- Classification calculations
- Concept, basic & detailed design (3D CAD)
- Degrees of freedom of resiliently mounted installations
- Engineering support
- Fabrication, installation & (de)commissioning support
- Feasibility studies support
- Gap/Sag calculations
- Machine alignment calculations
- Meclev® application calculations
- Shaft alignment calculation incl. strain gauges (gap & sag)
- Shaft alignment calculations and analysis
- Static and dynamic analysis and calculations (FEA)
- Torsional vibration calculations (TVC)



Noise & Vibration

- Building Specifications & Standards (Review & Advice)
- Resilient Mounting of Propulsion Installations
- Torsional Vibration Calculation (TVC)
- Axial Vibration Calculation
- Resilient Mounting System for Generator Sets
- Evaluation of Propeller Design
- Structural Vibration Analysis (FEA)
- Secondary Noise Sources
- Insulation & Privacy Plan
- Noise Levels Prognosis
- Site Visits
- Sea-Trial & Harbour Condition Measurements
- Shipyard support
- Owners rep. Support



Machinery Installations

- Installation of Rotating and Reciprocating Equipment
- Installation of Complete Propulsion Installations
- Installation of Auxiliary Equipment
- Installation of Construction Parts
- Application of Chockfast® Epoxy Solutions
- Levelling and Grouting of Machinery According to Api-Rp-686
- Replacement of Rotating and Reciprocating Equipment
- Meclev® Mechanical Foundation Solutions





Piping & Construction

- Baseplates & frames
- Carbon & Stainless steel, aluminium
- Foundations
- Manufacturing of tailored products
- NEN-EN 1090 certified constructions
- On-site installation
- PED compliant piping
- Piping & Constructions
- Prefabrication services
- Supporting constructions
- Welding support



Alignment & 3D Survey

Alignment

- Machine Alignments
- Cardan Alignments
- Machine Train Alignments
- Soft Foot Measurements
- Gap/Sag Alignments
- Jack Load Measurements
- Strain Gauge Measurements
- Line Bore Measurements and Alignments
- Crankshaft Deflection Measurements
- Thermal Growth Measurements & Analysis

3D-Survey

- Laser Scanning
- Laser Tracking
- Dimensional Measurements
- Deformation Measurements
- Deformation Monitoring
- "Shaft Build" Measurements
- As-Build Measurements
- Complex Alignments
- Position Setting-Out
- Pipework Scanning
- Constructions

We Can Measure For You:

- Geometric Position Determination
- Straightness
- Concentricity
- Parallelity
- Squareness
- Volumes and Surfaces
- Assembly Contact Faces
- Flatness
- Circumference
- Shape





Monitoring

We have Custom Built Monitoring Systems for:

- Load Control and Monitoring
- Load Cell Service, Recondition and Repair
- Forces in Mooring Cables, Chains, Tensioners, Cranes, Winches and Suction Pipes
- Structural Inclination and Winch Cable Pay-Out
- Monitoring Systems for Deep Sea Applications
- Equipment Calibration
- Strain Gauge Applications



Diagnostics

Field Measurements:

- Troubleshooting
- Shaft Power
- Bollard-Pull
- Vibration
- Torsion
- Pressure
- Temperature
- Sound
- Stress
- Emission (SOx, NOx)

Various Analyses:

- Troubleshooting
- ODS and Modal Analysis
- Condition Monitoring
- Thermography
- Combustion Pressure
- Torque Measurements



Certificates

- VCA ** 2017/6.0
- NEN-EN-ISO 9001:2015
- NEN-EN 1090-2:2018
- Certificate AOSS0000GRN, Alignment of propulsion shafting and installation of rotating machinery DNVGL-CP-0484



Metallurgical failure examination

We Investigate Damage Through Metallurgical Research on Parts of Complex Structures:

- Fractography
- Microstructural Examination
- Quality Control
- Expert Witness
- Root Cause Failure Analysis
- Field service diagnostics
- Side visits

