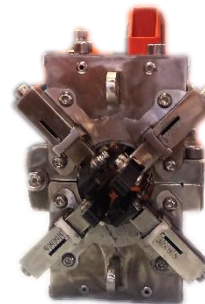
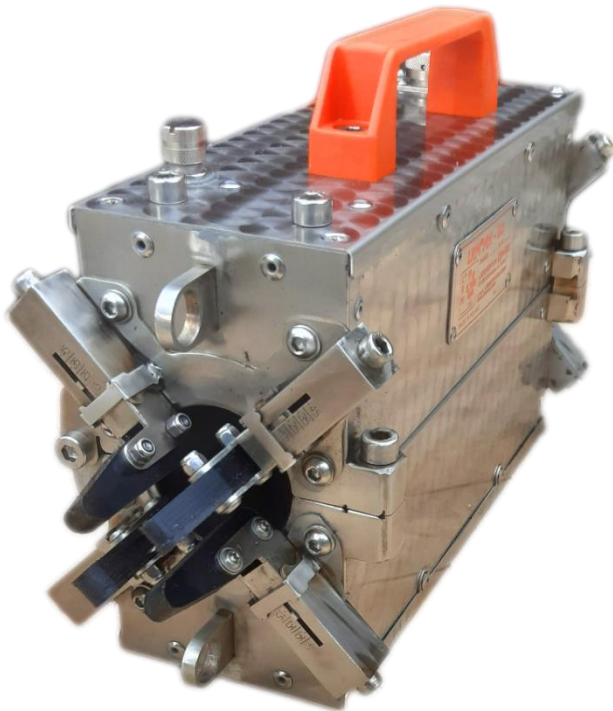


## Measuring Head MH-60

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 Ph 02 9979 8777 Email: sales@endetek.com.au www.endetek.com.au



### Destination:

**Measuring Head MH-60** is designed for Non-destructive Inspection (**MRT- Magnetic Rope Testing**) of Wire Ropes. **MH-60** is part of the **LRM<sup>®</sup>XXI** Diagnostic System.

### Measuring Range:

- Standard solution: nominal diameters from **18mm** up to **42mm**.
- Dedicated solution: the measuring range of the MH-60 model can be shifted about  $\pm 10\%$  at the customer's request.

### NOTE:

Dedicated Measuring Head solution for MRT inspection of the locked coil construction of wire rope and umbilical armour is required.

### Operation with LRM-XXI diagnostic system:

- Guiding system: slides (preferred for strands wire ropes) or wheels. One adjustable set of guiding system for the entire test range.
- Recorder types: **LRM<sup>®</sup>XXI** or **LRM<sup>®</sup>XXI-B**.
- Encoder types: detachable solution types **LRM<sup>®</sup>RI-1** or **LRM<sup>®</sup>RI-2** (ability to operate in time mode, without encoder).
- Connection cables: All types of **LRM<sup>®</sup>CA** connection cables with lengths from 0.5m to 60m.

### Operating temperature range:

- From  $-25^{\circ}\text{C}$  up to  $55^{\circ}\text{C}$ .

**Built-In Sensors:**

- **LF (Local Fault)** based on **MFL** Method (**M**agnetic **F**lux **L**eakage):
  - Magnetic flux to analog signal converter based on copper coils.
  - Dedicated to detecting short/long wire discontinuities, corrosion pitting, strands loosening, fatigue changes in wire material.
  - Dedicated **LF** Sensor Inserts (**LF-I**) - 2 types sets.
  - Speed compensation of LF signals is implemented - Amplitude of LF sensor indication is not dependent on inspection speed in range from 0,05m/s up to 10m/s.
  - Accuracy of LF indications according to EN12927:2019 and ASTM E1571-11 standards.
- **LMA (Loose of Metallic Area)**:
  - Magnetic flux to analog signal converter based on hall effect elements.
  - Dedicated to detecting changes in metallic cross-sections area caused by mechanical abrasion or corrosion. It also detects shape deformation and fatigue-related material changes, wire breaks with longer distance between broken ends.
  - Accuracy of LF indications according to ASTM E1571-11 standard.
  - The amplitude of the LMA indication is independent of the inspection speed.

**NOTE:**

The application of LF and LMA sensors allows to meet the discard criteria according to ISO 4309:2017 (Annex C) as well as EN 12927:2019 where the LMA sensor is not required.

**Construction:**

- IP Ratings for all components is minimum IP67 (The MH underwater operational solution available upon request).
- Strong magnetic field due to NdFeB permanent magnets.
- Durable against mechanical damage, external and chemical factors due to composite housing construction of stainless steel and nylon.
- Simple design, no protruding parts, very easy to clean from grease with available chemicals.
- Dedicated attachment points for rigging.
- Transported in heavy-duty, waterproof plastic cases with wheels.

**Dimensions & Weights:**

- Dimensions net (dimensions gross - with guiding system and handle):
  - Length: 270mm (394mm).
  - Height: 176mm (216mm).
  - Width: 120mm (120mm).
- Weight:
  - Net weight: 13,5kg.
  - Gross weight: 14,5kg.

**NOTE:**

At the customer's request, the dimensions of the MH can be customized to meet the requirements of conducting MRT inspections in areas with limited space or access.