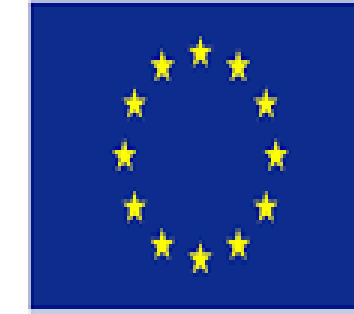




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Research and experimental facilities at UniKL
Joint research, research training, academic mobility between
MARE Partners

1

Partner: Universiti Kuala Lumpur



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Name of equipment: Hydraulic Universal Testing Machine

Technical specification : Tests the mechanical properties of materials

Purpose: Research

Quantity : 1





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Name of equipment: Tabletop Scanning Electron Microscope (SEM)

Technical specification :Provides high-resolution in
microscopic samples

Purpose: Research

Quantity : 1





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Name of equipment: Spectrometer

Technical specification : Analyzes the composition of materials

Purpose: Research

Quantity : 1





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Name of equipment: Hydraulic Specimen Mounting Press

Technical specification : Prepares specimens for testing

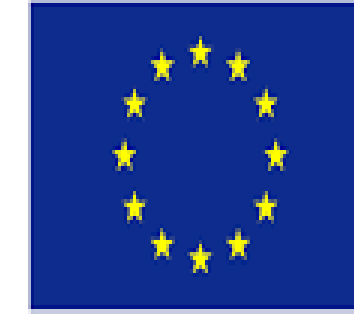
Purpose: Research

Quantity : 1





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Name of equipment: Station Hand Grinder

Technical specification : Cuts specimens for metallographic analysis

Purpose: Research

Quantity : 1





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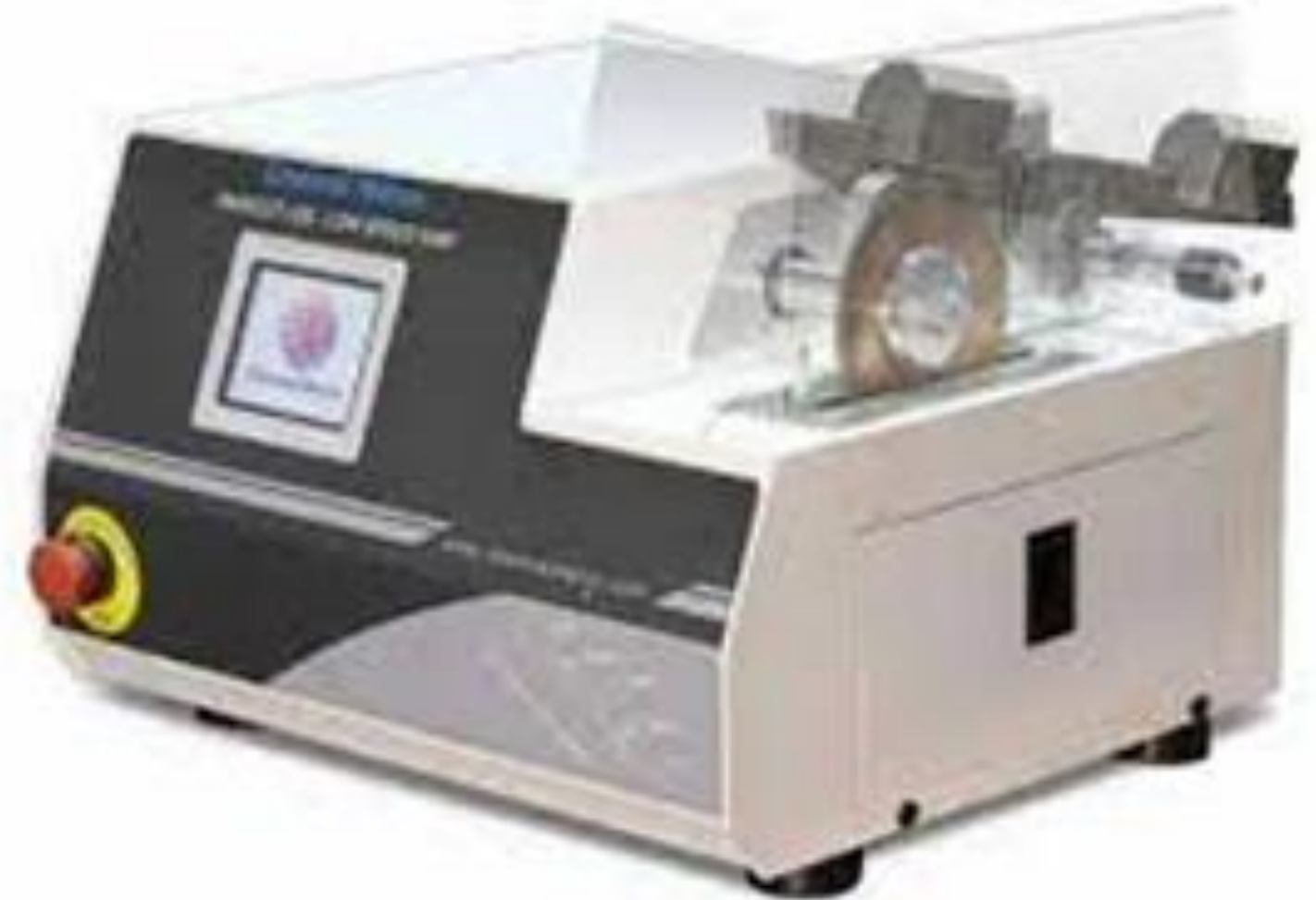
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Name of equipment: Bain Cut Machine

Technical specification : Cuts specimens for metallographic analysis

Purpose: Research

Quantity : 1





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Name of equipment: Polisher Machine

Technical specification : Polishes materials for microscopic examination

Purpose: Research

Quantity : 1





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Name of equipment: Microscope complete with camera and Imaging Workstation

Technical specification : Observes and captures images of s

Purpose: Research

Quantity : 1





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Name of equipment: Hardness Tester

Technical specification : Measures the hardness of materials

Purpose: Research

Quantity : 1





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Name of equipment: Impact Tester

Technical specification : Determines the impact resistance of materials

Purpose: Research

Quantity : 1





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Name of equipment: Notching Machine

Technical specification : Creates notches in materials for testing

Purpose: Research

Quantity : 1





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Name of equipment: Dye Penetrant Open Cracks Inspection - NDT Educational Kit - Magnetic Kit

Technical specification : Detects surface defects in materials

Purpose: Research

Quantity : 1





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Name of equipment: Magnetic Particle Inspection - Contour Probe

Technical specification : Detects defects and irregularities
in ferrous materials

Purpose: Research

Quantity : 1





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Name of equipment: Magnetic Particle Inspection - Permanent Magnet Probe

Technical specification : Detects defects in ferrous materials

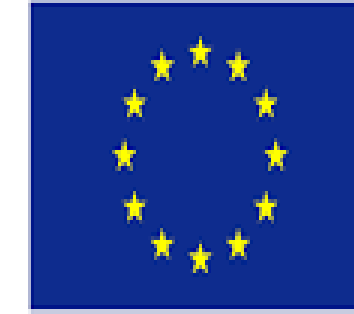
Purpose: Research

Quantity : 1





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Name of equipment: Magnetic Particle Inspection - NDT Educational Kit - Magnetic Kit

Technical specification : Teaches non-destructive testing using magnets

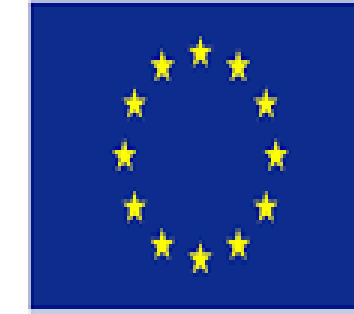
Purpose: Research

Quantity : 1





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**Name of equipment: Magnetic Particle Inspection - High Intensity
UV-A-LED Inspection Flashlight**

Technical specification : Enhances defect visibility during inspection

Purpose: Research

Quantity : 1





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Name of equipment : Magnetic Particle Inspection - Hand Unit

Technical specification : Applies magnetic particles for inspection

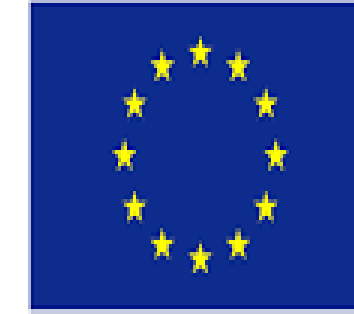
Purpose: Research

Quantity : 1





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Name of equipment: Magnetic Particle Inspection - Sensor Unit

Technical specification : Measures magnetic fields for inspection

Purpose: Research

Quantity : 1





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Name of equipment: Radiographic Interpretation - View Lite

Technical specification : Interprets radiographic images of materials

Purpose: Research

Quantity : 1





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Name of equipment: Radiographic Interpretation - Speedmaster

Technical specification : Enhances radiographic image quality

Purpose: Research

Quantity : 1





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Name of equipment: Portable Ultrasonic Tester

Technical specification : Detects internal defects in materials using ultrasound

Purpose: Research

Quantity : 1





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Name of equipment: Furnace

Technical specification : Heats materials for various tests and processes

Purpose: Research

Quantity : 1





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Name of equipment: Portable Hardness Tester

Technical specification : Measures the hardness of materials on-site

Purpose: Research

Quantity : 1





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Name of equipment: Coating Thickness Gauge 1

Technical specification : Measures the thickness of coatings on surfaces

Purpose: Research

Quantity : 1





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Name of equipment: Coating Thickness Gauge 2

Technical specification : Measures the thickness of coatings on surfaces

Purpose: Research

Quantity : 1





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Name of equipment: Coating Thickness Gauge 3

Technical specification : Measures the thickness of coatings on surfaces

Purpose: Research

Quantity : 1





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Name of equipment: Ultrasonic Thickness Gauge

Technical specification : Measures the thickness of materials using ultrasound

Purpose: Research

Quantity : 1





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Name of equipment: Laboratory Dryer

Technical specification : Dries materials for analysis or storage

Purpose: Research

Quantity : 1





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Name of equipment: Distilled Water System

Technical specification : Produces high-purity water for lab use

Purpose: Research

Quantity : 1





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Name of equipment: Digital Balance

Technical specification : Weighs materials with high precision

Purpose: Research

Quantity : 1





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Name of equipment: PH Meter

Technical specification : Measures the acidity or alkalinity of solutions

Purpose: Research

Quantity : 1





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Name of equipment: Fumehood

Technical specification : Provides a controlled environment for handling chemicals

Purpose: Research

Quantity : 1





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Name of equipment: Organic Furnace

Technical specification : Heats materials in controlled atmospheres for experiments

Purpose: Research

Quantity : 1





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The Material Testing Laboratory

The Material Testing Laboratory at UniKL MIMET (Universiti Kuala Lumpur Malaysia Institute of Marine Engineering Technology) plays a crucial role in supporting the institution's educational and research activities related to materials used in marine engineering and technology. This laboratory serves as a dedicated space equipped with specialized equipment and facilities to conduct various tests and experiments on materials.





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Terms of use:

- o Under the cooperation agreements all equipment and facilities for study and research are provided at no charge.
- o Payment for consumables is a subject to additional agreement on a case-by-case basis.

Contact information:

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- o E-mail: khairulanuar@unikl.edu.my