



MEDAN ENGINEERING SERVICES LIMITED



ONSITE INSTALLATION TOOLS & WORKING EQUIPMENT

At Medaan Engineering Services Limited, we maintain a comprehensive inventory of specialized tools, diagnostic systems, and heavy-duty equipment to support:

- ▶ Hydraulic systems maintenance and repairs
- ▶ Vessel emergency intervention and onboard servicing
- ▶ Container cargo crane installation, troubleshooting, and overhaul
- ▶ Our equipment is selected to meet **international marine, mechanical, and industrial standards**, ensuring safe, efficient, and high-quality service delivery.



2. HYDRAULIC SYSTEMS – TOOLS & EQUIPMENT

2.1 Hydraulic Diagnostic & Testing Equipment

Hydraulic Pressure Test Kit

Model: HPTK-1

OEM: PCI Hydraulics

Origin: USA

Description: Measures system pressure

Range: 0–10,000 PSI (0–700 bar)

Year of Manufacture: 2021

Year of Purchase: 2023



Digital Flow Meter

Model: F-2000

OEM: Blue-White

Origin- USA

Description: Measures hydraulic flow rate

Accuracy: $\pm 1\%$, Flow: 1–500 L/min

Year of Manufacture; 2023

Year of Purchase: 2024



Hydraulic Data Logger

Model: HIOKI –LR8515

OEM: LEGATOOL

Origin: Thailand

Description: Records system performance

Technical Data: Multi-Channel real-time logging

Year of Manufacture: 2001

Year of Purchase: 2025



Temperature Sensor

Model: Helect

OEM: Helect

Origin: China

Description: Measures oil/system

Range: -20°C to 200°C

Year of Manufacture: 2001

Year of Purchase: 2025



2.2 Hydraulic Maintenance Tools

Hydraulic Torque Wrench

Model: ENERPAC W8000X

OEM: Enerpac

Origin: USA

Description: Precision bolt tightener

Torque Range: 100–10,000 Nm

Year of Manufacture: 2001

Year of Purchase: 2024



Hose Crimping Machine

YMC 51c

OEM: GZ Industrial

Origin: China

Description: Hydraulic hose fabricati

Capacity: 1/4"-2" hoses

Year of Manufacture: 2002

Year of Purchase: 2023



Portable Hydraulic Power Pack

Model: HPP18E

OEM: HYCON

Origin: Denmark

Description: Power source for too

Pressure: up to 700 bar

Year of Manufacture: 2001

Year of Purchase: 2025



Seal Installation Tool Kit

Model: NOVFLON

OEM NOVFLON

Origin: India

Description: Cylinder seal replacement

Technical Data: Multi-size compatibility

Year of Manufacture: 2003

Year of Purchase: 2025



2.3 Lifting & Hydraulic Support Equipment

Hydraulic Jacks

Model:POWERAM

OEM: POWERAM

Origin:USA

Description: Heavy lifting operation

Capacity: 10–200 ton

Year of Manufacture: 2001

Year of Purchase: 2024



Hydraulic Cylinders

Model: Zeus ZH-B

OEM : Zeus Hdratech

Origin: United Kingdom

Description: Controlled pushing

Stroke: up to 500 mm

Year of Manufacture: 2001

Year of Purchase: 2025



Chain Blocks & Lever Hoists

Model: VEVOR

OEM: VEVOR

Origin: ChinaDescription:Manual Lifting

SWL: 1–20 tons

Year of Manufacture: 2001

Year of Purchase: 2025



3. VESSEL INTERVENTION REPAIR EQUIPMENT

3.1 Marine Mechanical Tools Heavy Duty Impact Wrenches

Model: KINCROME

OEM: KINCROME

Origin: Australia

Description: Bolt loosening/tight

Torque: up to 3,000 Nm



Pneumatic Tool Set

Model: YT2430

OEM: Amtech

Origin: USA

Description: Air powered repair tools

Operating Pressure: 6–8 bar



Industrial Tool Kits

Model: Snap On

OEM: SnaoOn

Origin: USA

Description: General mechanical repairs

Technical Data: Complete metric & imperial set



3.2 Welding & Fabrication Equipment

Arc Welding Machine

Model: ARC200

OEM: GZ Industries

Origin; China

Description: Structural welding

Output: 400–600A



MIG/TIG Welding Machine

Model: Clarke Weld MIG 130EN

OEM: Clark Wekd

Origin: USA

Description: Precision Welding

Technical Data: Multi-processs Capability



Gas Cutting Set

Model: Generic

OEM; Generic

Description: Metal Cutting

Technical Data: Oxy-acetylene System



Portable Grinding Machine

Model: GWS22

OEM: BOSCH

Origin: Germany

Description: Surface finishing

Technical Data: 5"–9" discs



3.3 Inspection & NDT Equipment

Ultrasonic Thickness Guage

Model: 6+ PRO

OEM: CYGNUS

Origin: UK

Description: Corrosion/metal thickness

Range: 1–300 mm



Dye Penetration Test Kit

Model:Magnaflux

OEM: Magnaflux

Origin:USA

Description: Surface crack detection

Technical Data: Visible & fluorescent



Borescope Camera

Model: DS360

OEM: DEPSTECH

Origin: China

Description: Internal inspection

Technical Data: Flexible scope, HD display



3.4 Access & Safety Equipment Scaffolding Systems

Moedl: Generic

OEM; Generic

Description: Elevated work access

Technical Data: Certified modular system



Safety Harness & Lifelines

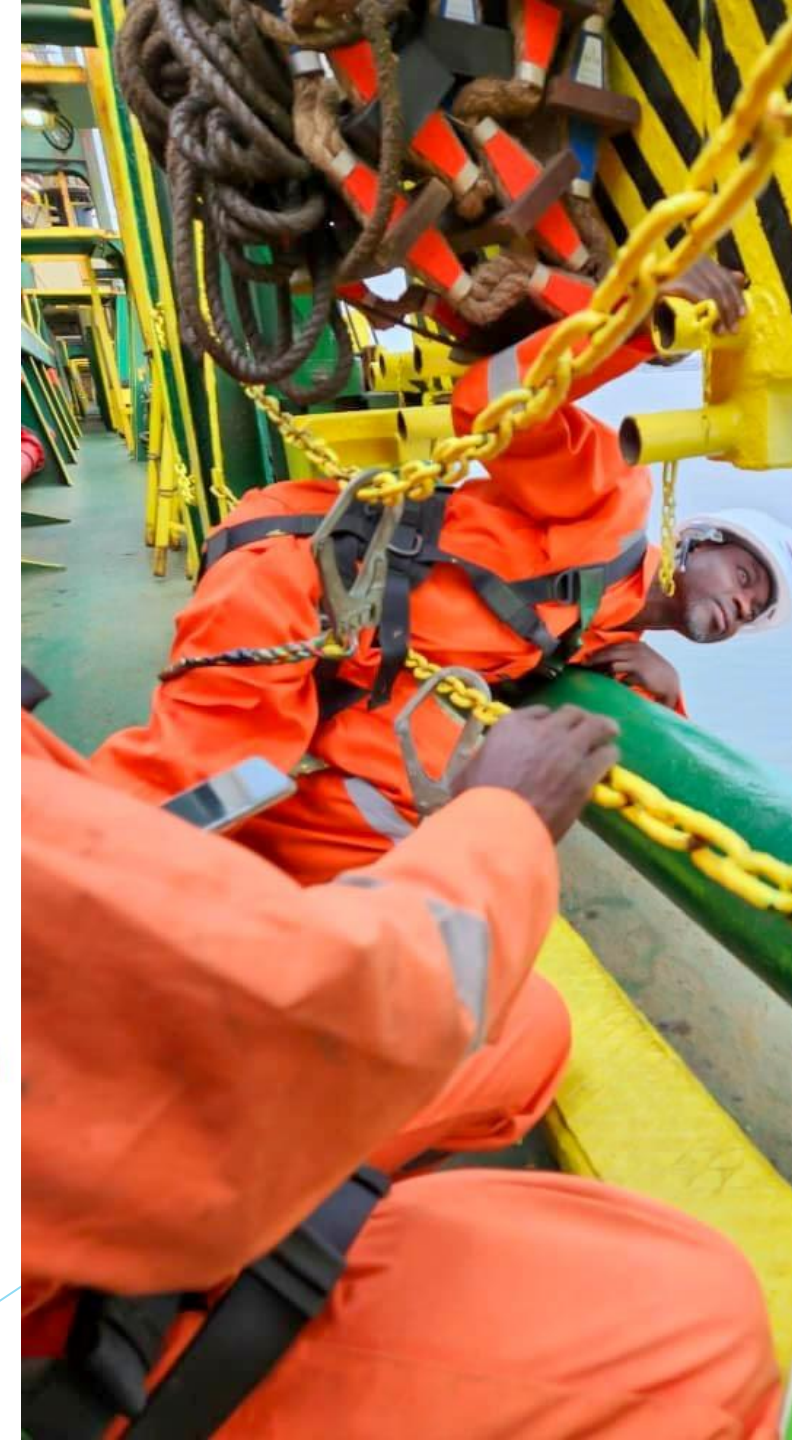
Model: Generic

OEM: Generic

Origin: China

Description: Fall prevention

Technical Data: EN/ISO Compliance



Gas Detectors

Model:700 Series

OEM: TELEDYNE

Origin:USA

Description: Hazard monitoring

Technical Data: Multi-gas detection



4. CARGO CRANE SERVICE EQUIPMENT

Torque Multiplier

Model: ANAE Series

OEM: TOPTUL

Origin: Taiwan

Description: High torque bolt tighten

Technical Data: Up to 20,000 Nm



Bearing Puller Tool

Model” Generic

OEM: Generic

Origin: China

Description: Component removal

Technical Data: Hydraulic/Mechanical



Alignment Tools

Model: TKSA 41

OEM: SKF

Origin: Sweden

Description: Shaft alignment

Technical Data: Laser alignment system



4.2 Electrical & Control System Tools

Digital Multimeter

Model: PMB225c

OEM: PEAKMETER

Origin: China

Description: Electrical Testing

Technical Data: CAT IV rated



Insulation Tester (Megger)

Model: 3215A

OEM: KYORITSU

Origin: Japan

Description: Insulation resistance

Technical Data: 500V–5kV



PLC Diagnostic Tools

Model: NRS122511

OEM; Noregon

Origin: USA

Description: Control system trouble

Technical Data: Multi-brand comp



4.3 Load Testing Equipment

Load Cells

Model: APY-1 5-200KLB

OEM: Gedge Systems

Origin: Australia

Description: Load Measurement

Capacity: up to 200 tons



Test Weights

Model: Generic

Oem: Generic

Origin: China

Description: Calibraton testing

Technical Data: Certified Weights



Crane Test Software

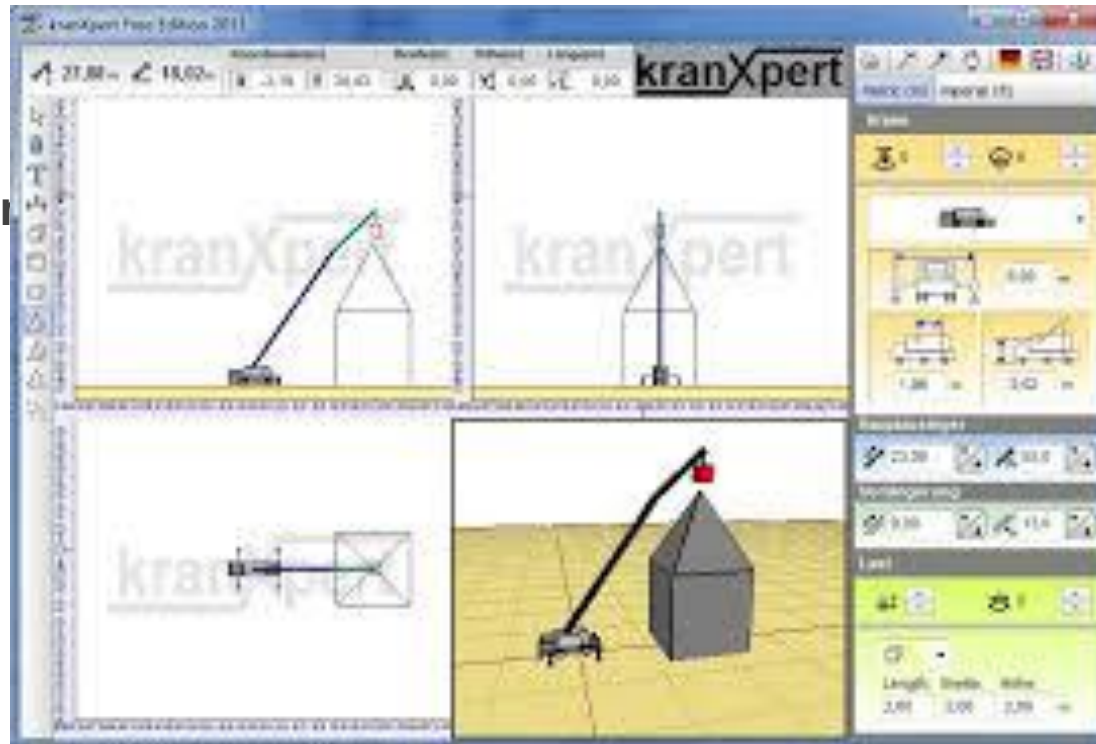
Model: KranXpert

OEM:KranXpert

Origin: USA

Description: Performance Analysis

Technical Data: Real-time data logging



5. Power & Support Equipment

Diesel Generator

Model: SDG2000

OEM: FIRMAN

Origin: China

Description: Power supply onsite

Capacity: 20–500 kVA



Air Compressor

Model: B5900

Oem: ABAC

Origin: Italy

Description: Pneumatic tool

Pressure: 8-12 bar



Lighting Towers

Model: LTW20

OEM: Wacker Neuson

Origin: USA

Description: Night operations

Technical Data: LED floodlights



Mobile Workshop

Model: FAW 4x4

OEM: FAW

Origin; China

Description: Onsite

Technical Data: Full



6. Personal Protective Equipment (PPE)

- ▶ Flame resistant coveralls
- ▶ Safety Helmets (EN397 Compliant)
- ▶ Steel-toe boots(S3 standard)
- ▶ Safety gloves (cut & heat resistant)
- ▶ Eye & Face Protection
- ▶ Respiratory protection: for confined spaces



SUMMARY

- ▶ At Medaan Engineering Services Limited, we are committed to the highest standards of operational excellence and workplace safety. We take the deployment of modern, industry-grade tools and equipment seriously — ensuring that every project is executed with precision, efficiency, and cutting-edge technology. Equally, we place strong emphasis on the use of Personal Protective Equipment (PPE) across all our operations, making it a non-negotiable requirement for every engineer, technician, and site personnel. For us, getting the job done right means getting it done safely.

