



COMPANY PROFILE

EHM TECHNICAL SERVICES LTD

Project management | Commissioning | Hydraulics | ATEX | Technical personnel

Who we are

EHM Technical Services is a UK specialist in hydraulic and control systems for the energy sector. We manage hydraulic scope inside project teams, commission the packages ourselves, inspect what is installed, and supply the engineers and technicians who know the equipment.

On large projects, hydraulic packages are bought from vendors and judged by a project team that rarely includes a hydraulic specialist. Problems are found late and vendor variations are hard to challenge. EHM fills that gap. We work across FPSOs, production platforms, subsea production systems, renewables and naval and marine vessels, at the vendor's works, in the yard and on site. We are independent of any manufacturer, so we work on any make of equipment.

Project management

A hydraulic and controls specialist in or alongside your PMT, from specification and vendor review to FAT witnessing and handover.

Commissioning

FAT, SAT, flushing, pressure testing, pre-commissioning and start-up of complete topside and subsea packages.

Hydraulics

Installation, overhaul and life extension of hydraulic and control systems, small bore tubing and hose inspection.

ATEX

ATEX / IECEx inspection of electrical equipment in hazardous areas, verification documentation and remedial support.

Why clients use EHM

- **Specialists.** Hydraulic and control systems are our core discipline.
- **More than manpower.** We take on and deliver complete scopes, and supply people when that is what the job needs.
- **Any make of equipment.** No manufacturer ties and no waiting on OEM lead times.
- **One team from specification to start-up.** The people who review a package can test it, commission it and hand it over.
- **People vetted by engineers.** Everyone we put forward has been assessed by engineers who know the equipment.
- **Short-notice mobilisation.** Individuals or complete crews, with certificates in place.

REGISTERED

United Kingdom
Office in Norwich

WORKING FROM

Dubai, Singapore and
Vietnam

SECTORS

Oil and gas, subsea,
renewables, naval and
marine

EQUIPMENT

Any make, manufacturer
independent

1 Project management

We sit in or alongside your project management team and own the hydraulic and controls scope technically, so that packages arrive right and vendor claims are judged by someone who knows the systems.

- Specification and vendor package review
- FAT witnessing on your behalf
- Technical review of vendor variations
- Technical bid evaluation and vendor surveillance
- Interface management between package, yard and site
- Commissioning planning, punch lists and handover records

2 Commissioning

We commission complete packages and hand over the test records and documentation the next stage needs.

- FAT and SAT execution and support
- Hydrostatic pressure testing
- Function testing and loop checks
- Fluid power diagnostics and tuning
- Flushing to NAS 1638 / ISO 4406
- Pre-commissioning, commissioning and start-up
- Control logic testing and valve proving
- System integration and handover

3 Hydraulics

Refurbishment and life extension

- Package overhaul and upgrade
- Obsolete component replacement with compatible alternatives
- Cylinder and actuator rebuilds
- Valve and manifold servicing
- Documentation for recertification

Installation and inspection

- Installation of HPUs, WHCPs and accumulator systems
- Instrument tubing fabrication and installation
- Small bore tubing inspection: installation quality, supports, fitting make-up and leak paths
- Hose inspection, hose registers and replacement planning

SYSTEM	TYPICAL SCOPE
Hydraulic power units (HPUs), topside and subsea	Overhaul, filtration and control upgrades, flushing, pressure testing, commissioning
Wellhead control panels (WHCPs) and well control racks	Valve replacement, tubing and instrumentation rework, logic validation, pressure testing, commissioning
Chemical injection skids and units (CIUs)	Pump upgrades, pressure regulation, pulsation dampener installation, commissioning
Topside umbilical termination units (TUTUs)	Installation checks, flushing, pressure testing, commissioning
Ballast and cargo valve control systems	Control valve replacement, actuator refurbishment, instrumentation upgrades, shutdown loop testing
Winch, mooring and offloading hydraulics	Strip-down, hydraulic motor overhaul, brake system testing, load cell calibration, function checks
Master control stations and subsea control modules	Interface testing, bench testing, component overhaul, FAT support, commissioning
Subsea distribution units and flying leads	Pressure testing, flushing and actuation tests, termination, continuity and interface checks

4 ATEX

- ATEX / IECEx visual and close inspection of electrical equipment in hazardous areas
- Compliance audits
- Hazardous area verification and documentation
- Findings recorded with remedial actions, and remedial support

5 Technical personnel

We supply certified engineers and technicians for construction, hook-up, commissioning, maintenance and shutdown work. Because we carry out this work ourselves, we only put forward people we would use on our own jobs. People are supplied as individuals or as a complete crew with a working supervisor. CVs and certificates are provided before mobilisation. Personnel are available across the UK, Europe, the Middle East, Asia and other regions.

TECHNICIANS	TYPICAL WORK
Instrument tube fitters (small bore tubing)	Tubing fabrication, installation, leak testing and pressure testing
Hydraulic technicians	HPU builds, hose and system flushing, pressure testing, contamination control
Commissioning technicians	FAT and SAT execution, valve proving, function testing
Instrumentation and control panel technicians	Installation, calibration, loop checks, panel assembly and testing
Mechanical technicians	Equipment assembly and strip-down, piping systems, seal replacement
Electrical technicians and ATEX inspectors	Terminations, panel wiring, fault finding, inspection in hazardous areas
Subsea and process technicians	SCM servicing, flying lead installation, chemical injection skid operation
ENGINEERS	TYPICAL WORK
Hydraulic engineers	Circuit design review, system sizing, flushing procedures, performance optimisation
Commissioning engineers	Planning and delivery from pre-commissioning through to start-up and handover
Instrumentation and control engineers	Loop design, logic verification, PLC, SCADA and HMI interface validation
Mechanical and electrical engineers	Package design review, retrofit planning, power distribution, hazardous area compliance
Subsea and process engineers	Control system integration, umbilical interfaces, SIT management, chemical injection systems

Who we work with

- EPC contractors who need hydraulic expertise in the project team and certified crews for construction and commissioning
- Owners and operators who need ageing packages brought back to specification without OEM lead times
- Package vendors who need commissioning support for the systems they build
- Shipyards delivering naval and offshore vessels

Sectors and standards

Sectors we serve

- Oil and gas: FPSOs, platforms and jack-ups
- Subsea equipment and package vendors
- Renewables
- Naval, marine and shipping
- Decommissioning and life extension

Standards we work to

- NAS 1638 / ISO 4406 fluid cleanliness
- ATEX / IECEx requirements for hazardous areas
- API RP 14C and API 17H
- Mandatory training for site personnel, including BOSIET, H2S and working at height

Our team's project experience

Our team's background covers FPSO, platform and naval projects in the UK, Brazil, West Africa, the Middle East, Singapore, Vietnam and China. Examples include:

REGION	SCOPE
Brazil	Refurbishment and integration of FPSO wellhead control panel and chemical injection packages
Singapore	Complete overhaul and testing of mooring winch systems
Africa	Subsea control panel upgrades and deployment support
UAE	Ballast system modernisation with instrumentation upgrade

How to engage us

1. Tell us the scope

The system or package, its location and the timescale. Or the roles, numbers and dates if you need people.

2. We respond quickly

A proposal for the work, or CVs and certificates for the people, with rates and mobilisation dates.

3. We mobilise

One point of contact throughout, and the same team from start to handover.

Contact us

For hydraulic project management, commissioning, ATEX inspection or technical personnel.

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