



# Modular Products

Global Supplier of solutions that protect people and equipment from explosion, fire and noise hazards



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## Overview

Mech-Tool's Modules are purpose designed to meet specified explosion, thermal, jetfire and acoustic performance criteria and can be constructed from carbon steel and stainless steel. Larger modules that exceed allowable transportation limits can be supplied in one piece from our riverside facility for onward sea transportation. Mech-Tool has the capability and facilities to design, build and load-out modules exceeding 3000 tonnes.



## Capabilities

- Design, engineer, assembly, fit-out, pre-delivery testing, transportation & installation
- Design loads – in addition to normal transportation & handling loads we can address seismic, explosion, thermal and acoustic requirements
- Mains power distribution and lighting, DC emergency power, security, fire detection, alarm systems and HVAC
- Modularised option for larger units offering ease of shipping and minimal sitework
- Larger units available in kit-form for site assembly
- Services include site installation, site supervision, offshore surveys, risk assessment & safety audits
- All component fully tested and certified
- Quality Accreditation to ISO 9001:2000

## Typical Uses Include

- Accommodation modules
- Switchgear and instrumentation modules
- Laboratory modules and control cabins
- Local equipment rooms and turret equipment rooms
- Pre-assembled units (PAU)
- Firewater pump and generator enclosures
- Turbine and compressor enclosures
- Safe haven and overnight accommodation shelter
- Telecommunication cabins
- Process and packaged equipment modules



## **Modular Products – Project Listing**

McNulty Offshore – Galloper Offshore Wind Farm - 2010  
Electrical Control Room & Day Rooms (Temporary Accommodation Modules)

Shell E&P Ireland Corrib – 2009  
Instrument Cabin designed to fit HVAC & Electrical components in a tight space internally

AMEC, BG Armada – 2009  
Laboratory module including HVAC/Electrical fit out

Wood Group, Total Dunbar – 2009  
VSD Module

Balfour Beatty Engineering Services Ltd, Sellafield - 2009  
Design, Manufacture & Supply of a multi services processing module

AMEC Black & McDonald, ExxonMobil Canada Thebaud – 2009  
4 No Additional Living Quarters

Heerema Greater Gabbard Offshore Wind Farm – 2009  
LER & Accommodation Modules

Foster Wheeler Fawley Refinery – 2009  
Blast Resistant Building

McGill Services Ltd, TAG Sea Dragon Oban B - 2008  
Fire Rated Accommodation Modules

McGill Services Ltd, ConocoPhillips Britannia - 2008  
Fire Rated Modules & Structures

Whessoe Volker Stevin JV, Dragon LNG – 2007  
Jetty Monitoring Building

McGill Services Ltd, BP Valhall - 2006  
11No. 4-man Temporary Accommodation Modules

ABB, BP Saqqara - 2006  
Fire and Blast Rated LER Module complete with Electrics & HVAC

Sulzer Pumps, BP Ula – 2006  
Acoustic Enclosure (3 Stage Compressor Chain)

Shell UK Exploration & Production, Shearwater - 2006  
Flat pack LER Module for offshore assembly

SLP Engineering, ATP Wenlock Inde - 2006  
Blast Rated Workshop and Sampling Module including electrics & HVAC



## Modular Products – Project Listing

Aiken Group, BG Armada - 2006

4 No H60 Fire Rated Accommodation Modules complete with 2 No H60 fire and blast rated covered stairtower modules and module support frame (MSF)

KBR, Chevron Captain – 2006

3 No A60 Fire rated accommodation modules complete with all electrics, HVAC and internal fit-out of furniture

Solar Turbines Europe, Woodside Energy Vincent – 2006

5-off Titan packages in 316 stainless steel. Packages include A0 fire and blast rated enclosures, combustion inlet system, exhaust system and ventilation systems

Enterprise Engineering, Apache Alpha – 2005

Transformer Room

Inter-Project Resources, BP Forties Bravo – 2005

Acoustic Enclosure

Solar Turbines Europe, Statoil Volve – 2005

2-off Titan GT generator packages with A0 fire and blast rated enclosures with combustion intake and enclosure vent systems all in 316 stainless steel

ConocoPhillips, Calciner Control Room – 2004

Blast Rated Module

Weir Pumps, ExxonMobil Sable Tier II – 2004

A60 Firewater Pump Enclosures including electrics & HVAC

Bluewater Energy Services, Exxon Neftegaz Sakhalin I - 2004

Switchgear Module fully fitted out including electrics & HVAC

ABB Ltd, Sakhalin Energy Sakhalin I - 2004

Switchgear Modules fully fitted out including electrics & HVAC

KCA Deutag, AIOC Azeri East & West - 2004

Heavy tool store complete with platforms, handrails, gratings, ladders and electrics

Solar Turbines Europe, TotalFinaElf Dalia - 2003

2-off Taurus 70S packages for Sulzer pump sets in 316 stainless steel complete with H0 rated enclosure, ventilation system, combustion intake and T3 exhaust silencer with stacks

Transfield Worley Woodside Alliance – Goodwyn 'A' - 2003

2 No H60 Rated Modules

Bechtel - British Gas Miskar A Platform - 2003

2 No A60 Rated Modules + Cladding & Doors

Liverpool University – 2002

Blast & Acoustic Enclosure



## **Modular Products – Project Listing**

Amec, Shell Nigeria – Bonga FPSO – 2001  
Waterflood Laboratory

Heerema, British Gas – Juno – 2001  
Design & Manufacture of Local Instrument Room & Battery Room & Emergency Overnight Accommodation Modules fully fitted out including electrics, HVAC and architectural

LPN, Ring of Light – 2001  
Engineer, Procure, Manufacture and Delivery of 2 No Telecommunication Modules

360 Networks – 2000  
Design, Engineer, Procure, Manufacture and Delivery of 1 No Trailer mounted Disaster Recovery Vehicles (DRV)  
Fit-out : Internal Finishes, Complete Electrical and Mechanical Fit-out including HVAC, WC, Mess Room, Electrical Testing & Commissioning

Level 3 – Pan European Fibre Optic Network – 1999/2000  
Design, Engineer, Procure, Manufacture & Delivery of 3 No Trailer mounted Disaster Recovery Vehicles (DRV's)  
Fit-out: Internal Finishes, Complete Electrical and Mechanical Fit-out including HVAC, WC, Mess Room, Electrical Testing & Commissioning

Level 3 - Pan European Fibre Optic Network – 1999/2000  
Design, Engineer, Procure, Manufacture and Delivery to Site and Commissioning of 61 No Telecommunication Modules  
Fit-out: Internal Finishes, Complete Electrical and Mechanical Fit-out including HVAC & Electrical Testing and Commissioning

Kvaerner Oil & Gas, Amerada Hess – Triton FPSO – 1998/99  
Design & Manufacture of Main Switch Room & Turret Equipment Room Modules  
Fit-out : Installation, Testing & Commissioning of Control, Fire & Gas Systems plus Electrical & HVAC Services

Brown & Root, British Gas Easington Catchment Area – 1999  
Design, Manufacture, Load-out of 2 x Equipment / Overnight Stay Modules  
Fit-out : Internal Partition, Toilet Unit, fixed & loose furniture & floor finishes. Supplied Electrical & Mechanical Services including HVAC & Electrical Installation, Testing & Commissioning

Brown & Root, BP – ETAP Development 1996/7  
Fire Rated Paint Store  
Fit-out: Supply fixed furniture & Electrical Equipment



## Modular Products – Project Photographs

### Sea Dragon Oban B

41 No Fire Rated Accommodation Modules combined into 3 sections for transport





## Sea Dragon Oban B

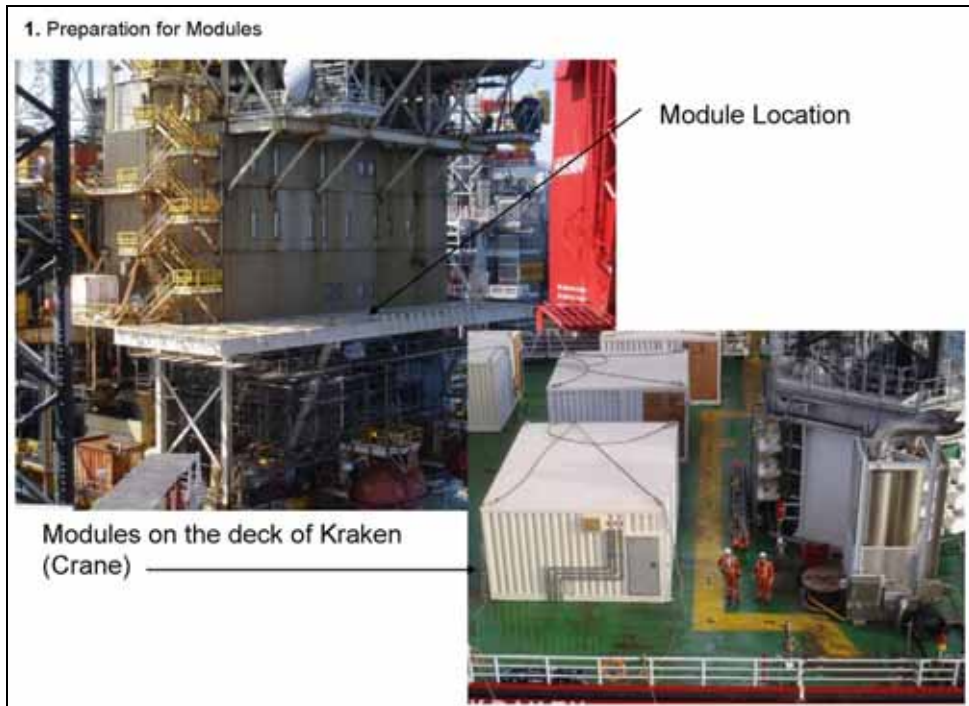
41 No Fire Rated Accommodation Modules combined into 3 sections for transport





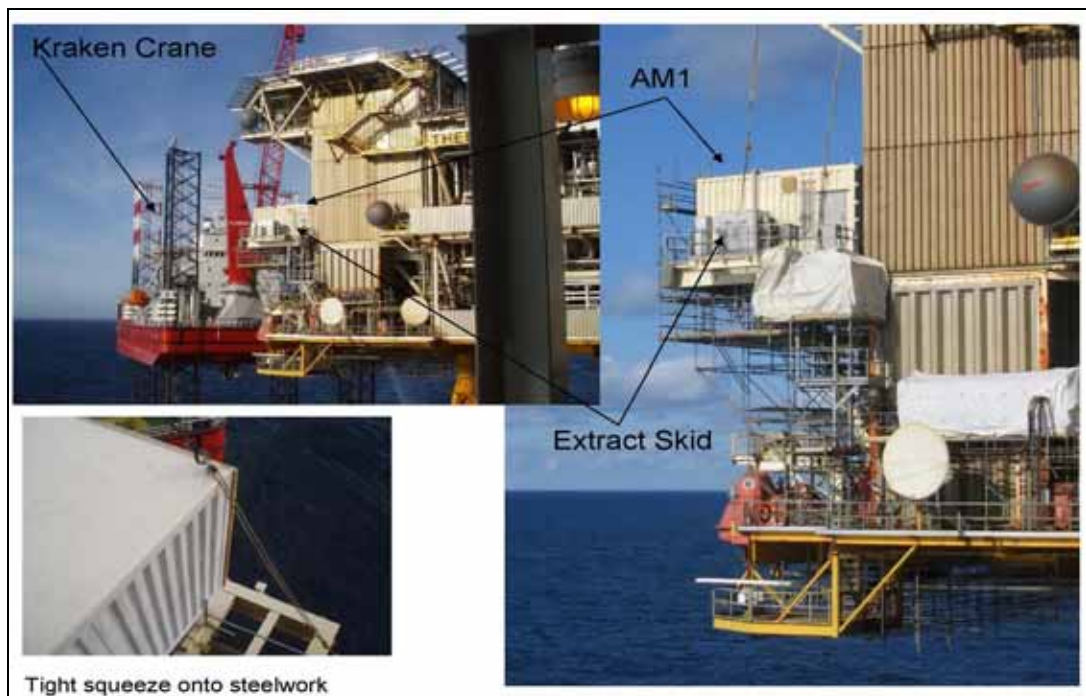
AMEC Black & McDonald, ExxonMobil Canada Thebaud

4 No Additional Living Quarters





**AMEC Black & McDonald, ExxonMobil Canada Thebaud**  
**4 No Additional Living Quarters**





**McGill Services Ltd – ConocoPhillips Britannia**

**Accommodation Modules & Structures**





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**McGill Services Ltd – ConocoPhillips Britannia**

**Accommodation Modules & Structures**





**McGill Services Ltd – BP Valhall**

**11 No 4-man A60 Fire Rated Accommodation Modules**





**Aiken, BG Armada**

**4 No H60 Fire and blast rated accommodation modules complete with 2 No H60 fire and blast rated covered stairtower modules and module support frame (MSF)**





**ABB, BP Saqqara**

**Fire and blast rated LER Module complete with electrics & HVAC**





**KBR, Chevron Captain**

**3 No A60 Accommodation modules, locker room, gymnasium module complete with electrics, HVAC & internal fit-out and module support frame (MSF)**





**ConocoPhillips, Humber Refinery Calciners Module**

**Fire & Blast Rated Calciners Module 21m long x 6.6m wide x 3.8m high**





**Bluewater Energy Services, Exxon Neftegas Sakhalin I**

**Switchgear Module Substation**

**Fire & Blast Rated Switchgear Module fully fitted out including electrics & HVAC system - 18.5m long x 4.5m wide x 4.0m high**





## Bluewater Energy Services, Exxon Neftegas Sakhalin I

Mech-Tool supplied switchgear module in situ at Sakhalin Island mooring station





**ABB, Sakhalin Energy, Sakhalin I**

**Switchgear Module Substations**

**A60 Switchgear Modules fully fitted out with electrics & HVAC system and installation of switchgear units.**

**Modules assembled at site to provide units of over 20m in length x 15m in width.**





**Sulzer Pumps UK, Woodside Energy Enfield**

**A60 Firewater Pump Enclosures including electrics & HVAC**





**Bechtel, BG Tunisia Miskar Platform**

**A60 Rated Electrical Equipment and Control System Modules**

Electrical Equipment Room - Carbon steel fully painted 9m long x 7m wide x 4.4m high

Control Systems Room - Carbon steel fully painted 9m long x 5m wide x 4.4m high





**AMEC, Shell Nigeria Bonga FPSO**

**Waterflood Laboratory**

Carbon steel module approx 6.7m long x 3m wide x 3m high, fully painted with internal fit-out of laboratory equipment and first stage electrics/safety lighting





## Heerema, British Gas Juno

3 No stainless steel modules fully fitted out including electrics, HVAC and architectural

Local Instrument Room - (LIER) 11.5m long x 4.5m wide x 3.9m high

Emergency Overnight Accommodation (EOA) - 9.5m long x 4.5 m wide x 3.1m high

Battery Room - (BATT) 5.0m long x 2.0m wide x 3.0m high





**KBR, British Gas – Easington Catchment Area**

**2 No High Integrity Fire Rated Equipment/Overnight Stay Modules**  
**Fit-out: Internal partition, toilet unit, fixed & loose furniture & floor finishes**  
**Supplied electrical and mechanical services including HVAC & electrical installation, testing & commissioning**

**Cleeton: 4.9m wide x 4.0m high x 12m long**  
**Neptune: 6.4m wide x 3.7m high x 14.85 long**





**Kvaerner Oil & Gas, Amerada Hess – Triton FPSO**

**Local Equipment Room & Turret Equipment Room Modules**  
Fit-out: installation, testing & commissioning of control, fire & gas systems plus electrical & HVAC services

**Local Equipment Room**



**Turret Equipment Room**





**Harland & Wolff – BP Schiehallion FPSO**

**Blast & Jet Fire Rated Escape Tunnel, 150m long complete with 5 Airlocks  
Fully serviced tunnel fitted out with communications, electrical, lighting and HVAC  
systems**





### Level 3 Communications – Pan European Fibre Optic Network

Equipment Accommodation Modules & Disaster Recovery Vehicles

Fit-out: Internal finishes, complete electrical and mechanical fit-out including HVAC & electrical testing a commissioning

