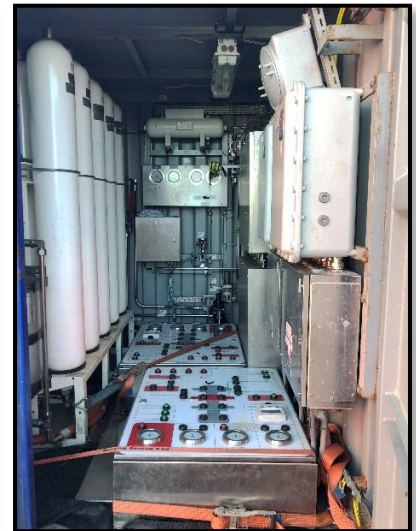
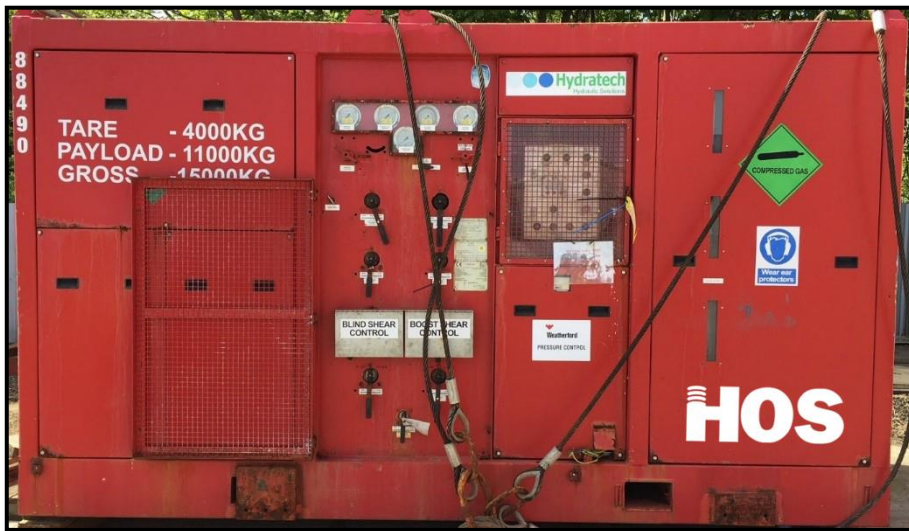


# HOS

## Portable BOP Control System

ATEX CE and NORSOK compliant for Zone 1 Areas

Nine function BOP Closing Unit complete with two Remote Control Panels and separate containerised Shear Boost Unit Certified for use in Zone 1 areas.



### Key Features

- Nine Station and Sized for 13 5/8" Cameron Type 'U' BOP stack with a Maximum Operator Pressure of 5000 psi for Shear Boost Functions and 3000 psi for Standard Functions.
- Three off Pneumatic Air Pumps, One off Electrically driven Pump 400-440VAC 50/60 Hz
- 3000 Litre Reservoir (792.5 USG)
- 20 x 50 Litre Accumulators (100 Litres / 264 USG)
- ATEX Code: Group II Category 2G Temperature Class T4 X (Zone 1).
- Hydraulic System in accordance with API 16D section 4.2.3 and NORSOK D-001
- Two off Electrical Remote-Control Panels with Visual and Audible Alarms
- Four off Accumulator Relief Valves



## Portable BOP Control System

ATEX CE and NORSOK compliant for Zone 1 Areas

### Engineering Data – Portable BOP Control System – Main Unit

Operating Pressure	:	3,000 psi Maximum
Relief Valve Operation	:	3,300 psi
Overall Dimensions	:	4,390 mm x 2,000 mm x 2,642 mm Approx.' (L x W x H)
Total Weight	:	11,000 kg Approx.'
Temperature Range	:	-20°C through +40°C
Humidity	:	90% (Marine Environment)
ATEX Code	:	Group II Category 2G Temperature Class T3
Main Voltage Range	:	3ph 400-440 VAC 50/60 Hz
Full Load Current	:	100 A
Control Voltage	:	230 VAC 60 Hz
Air Supply	:	87 psi (6 Bar)
Air Consumption	:	423 CFM (12000 LPM) @ 6 Bar (87 psi) for a 1-1/2" line.
Accumulators	:	20 x 50 Litre Bottles pre-charge with N2 to 1,350 psi
Hydraulic Tank Volume	:	3,000 Litres / 792.5 USG
Control Panel Functions	:	Air Motor / Pump Aggregates – On / Off
	:	Bleed Down Valve
	:	Annular Regulation – Manual Adjustment
	:	Manifold Regulation – Manual Adjustment
	:	Annular – Open / Close
	:	Upper Pipe Ram – Open / Close
	:	Shear / Blind Ram – Open / Close
	:	Lower Pipe Ram – Open / Close
	:	Upper Choke Line – Open / Close
	:	Upper Kill Line – Open / Close
	:	Lower Choke Line – Open / Close
	:	Accumulator Pressure – Indicator Gauge
	:	Manifold Pressure – Indicator Gauge
	:	Annular Pressure – Indicator Gauge
	:	Air Supply Pressure – Indicator Gauge
	:	Emergency Stop
Alarm Panel Functions	:	Electric Pumps Running – Indicator Lamp (Green)
	:	Air Pumps Running – Indicator Lamp (Green)
	:	Boost Pump Running – Indicator Lamp (Green)
	:	Low Fluid Level – Indicator Lamp (Red)
	:	High Fluid Temperature – Indicator Lamp (Red)
	:	Main Manifold Total Flow – Indicator Meter
	:	Shear Boost Total Flow – Indicator Meter
Remote Control Panels x 2	:	All main Control and Alarm Functions



## Portable BOP Control System

ATEX CE and NORSOK compliant for Zone 1 Areas

### Engineering Data – Portable BOP Control System – Shear Boost Unit

Operating Pressure	:	5,000 psi Maximum
Overall Dimensions	:	3084mm x 2440mm x 2626mm (L x W x H)
Total Weight	:	500kg Gross Approx.'
Temperature Range	:	-20°C through +40°C
Humidity	:	90% (Marine Environment)
ATEX Code	:	Group II Category 2G Temperature Class T3
Control Voltage	:	230 VAC 50/60 Hz
Air Supply	:	87-116 psi (6-8 Bar)
Air Consumption	:	247 CFM (7000 LPM) for a 1-1/4" line
Accumulators	:	10 x 50 Litre Bottles pre-charge with N2 to 5000 psi regulated at 3000 psi

### Engineering Data – Basis of Re-certification

Machinery Directive 2006/42/EC	:	IEC EN 61508 – Functional Safety of Electrical / Electronic /
ATEX Directive 94/9/EC ANNEX VIII	:	Programmable Electronic Safety Related Systems
Pressure Equipment Directive 97/23/EC	:	IEC 62061 - Safety of Machinery
ISO 4413 Hydraulic Fluid Power – General Rules and Safety Requirements for Systems and their Components	:	NORSOK D001 – Drilling Facilities NORSOK E-001 - Electrical Systems NORSOK R-003 - Safe Use of Lifting Equipment NORSOK R-CR-002 – Common Requirements for Lifting Equipment
BSEN 14121 – 2007 Safety of Machinery – Risk Assessment	:	NORSOK S-006 – HSE Evaluation of Contractors NORSOK Z-006 - Preservation
EN 13480 – 2009 Metallic Industrial Piping	:	NORSOK Z-007 - Mechanical Completion & Commissioning
BS 2917 – 1993 – Specification for Graphical Symbols for Fluid Power Systems	:	NORSOK Z-015 – Temporary Equipment
BS 4575 – 1979 – Guide for Hydraulic Equipment and Systems	:	Area Classification Zone 1 ATEX Code Group II Category 2 Temperature Class T3
BS 5200 – 1986 – Specifications for Dimensions of Hydraulic Connectors and Adapters	:	Temperature Range -20°C through +40°C Humidity 90%



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