

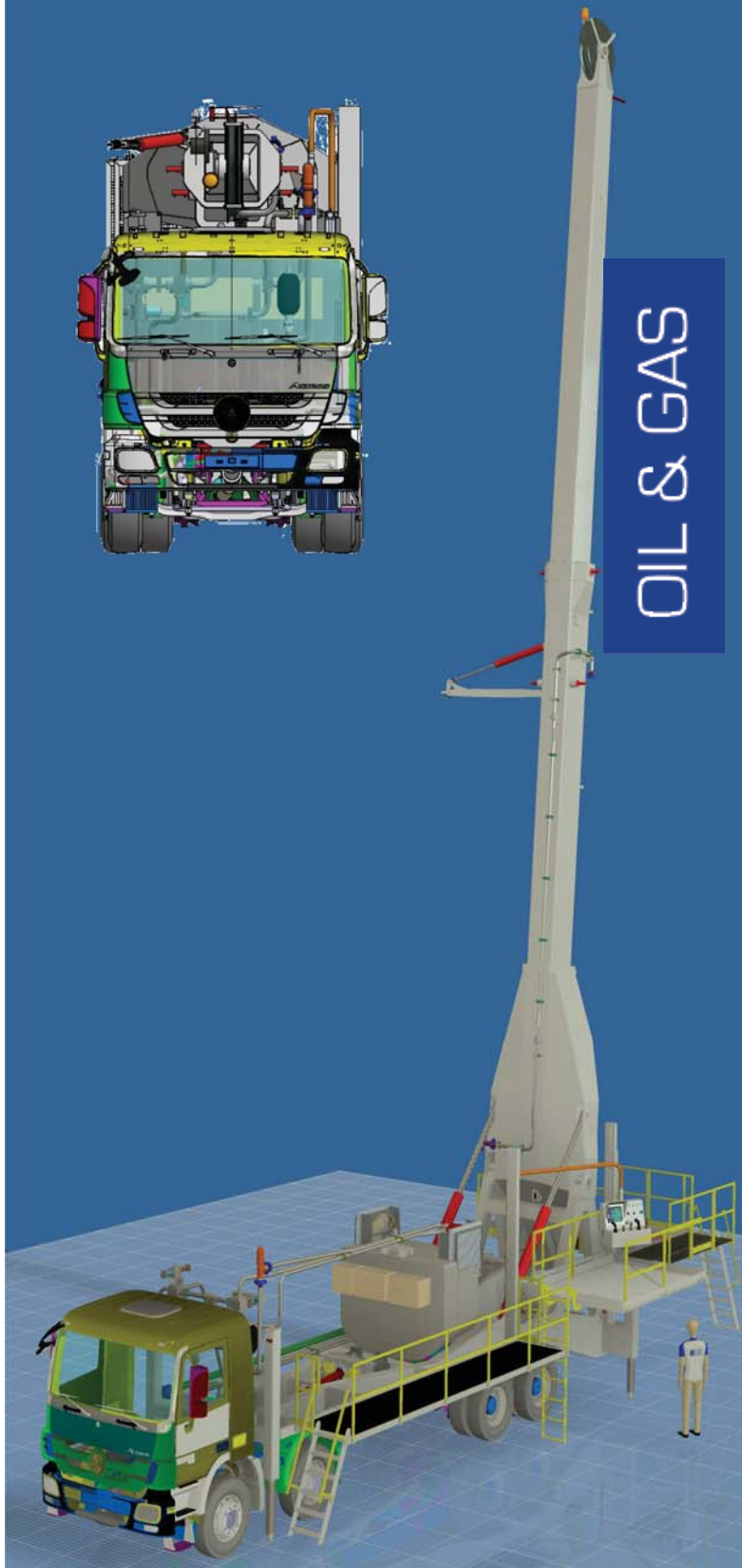
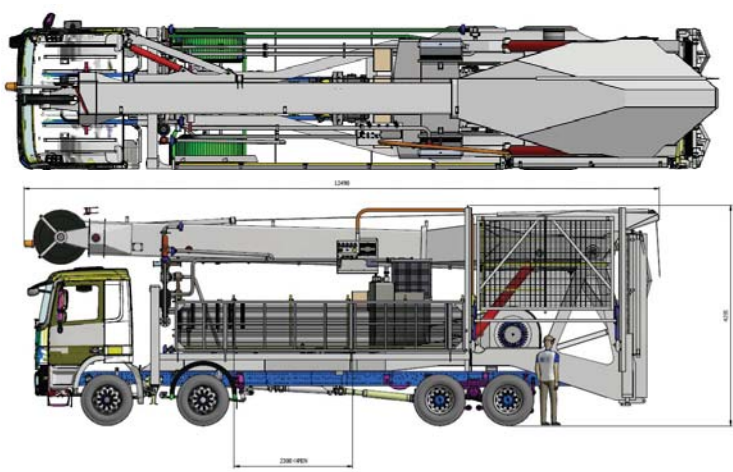


XDR 220

RAPID RESPONSE WORKOVER RIG

The XDR 220 is the heavy duty model of XDR's well servicing range. Capable of lifting 180,000lbs with overpull up to 220,000lbs, the XDR 220 has been engineered to take on the toughest well servicing projects. Equipped with XDR's revolutionary Power Snub Drill, the XDR 220 can perform well flushing, workover, completions and snubbing, resulting in higher productivity at a reduced cost.

Every XDR 220 is compatible with vertical wellhead configurations and offers ease of access to site, rapid deployment through fast well site setup times and safer operations with reduced crew numbers through innovative design and embedded control features.



BENEFITS OVER CONVENTIONAL RIGS

- XDR Workover Rigs are 90% Faster to setup.
- 50% Fewer crew required.
- 38% Faster winch speeds.
- Significant reduction in time to complete the job.
- Flushby rig contract rates and additional Drill Module rate when being used on site.
- 3000m Wireline winch onboard XDR rig
- Integrated XDR rig, pipe handler, mud system and well control.

- Automated flushing manifold on board the XDR rig if required. Enables reverse circulation with the flip of a switch on the main operator's panel.
- Customisable to clients requirements.
- API Compliant on delivery.
- In country training, parts and service
- Lower maintenance costs due to engineering and design.
- Reduced plant foot print.

THIS ALL ADDS UP TO GREATER PRODUCTIVITY, SAFER WELL SERVICING AT LOWER COSTS

Technical Specifications:

Rig and Deck Dimensions	Packed up rig dimensions: 14.0 m long, 2.7 m wide, 4.5 m high. Deck 8.7 metre long fully welded deck structure - plate, channel & RHS/four levelling jacks, with rear jacks on outrigger slides
Mast	Multi telescopic box section Mast; crown sheave height above ground 27.5 metres (90 foot), capable of pulling double lengths of tubing. Variable operating mast angle to 10.
Hook Load	Operating hook load mast extended 81,600 Kg (180,000 lbs.), 100,000Kg (220,000lbs) retracted. Pick-up hook load mast at 10 degrees past vertical 10,000 Kg (22,046 lbs.).
Cantilever Work Platform	Variable from ground 0.8 to 4.2 metres - Cantilevered style including 2 step ladders with hydraulically operated lift and tilt wings
Operators Platform	Variable from 2.1 to 3.8 metres. Hydraulic Walkway to Operators side of rig including stand-up handrails.
Winches	100,000 Kg (220,000 lbs.) variable speed hydraulic draw works (single line pull) 50mm rope. 3,000 metre (10mm rope) Sandline Winch - swabbing, net payload at 3,000 metres, 1,200 Kg (2,640 lbs). Jib Winch 3,000 Kg (6,600 lb.) located at the top of mast outer boom 12 metres above ground.
Power Unit	Mercedes Benz Actross 580 HP diesel engine provides the power for the Rig via the PTO.
Main Hydraulic Pumps	Main Pumps and Motors are Bosch Rexroth/Sauer/Linde.
Fluid Pumps	5000 Psi test pump. Charge Pump - 4" Hydraulically Driven, or equivalent
Water Manifold	5,000 psi water control manifold, suction and hoses for connection to well. 5,000 psi manifold system from horsehead at top of mast outer boom to deck connection hammer union. 1,000 Litres water onboard
Control System	All rig functions and gauges including pressure testing. All engine controls - Shut down in panel/telescopic mast locked indicator. 2 Emergency stops on rig, including remote emergency stop located at muster point. Emergency rig saver with remote control. PLC - Digital display monitors pump flow, core functions and prevents winch overwind.
Standards	During the design and quotation stage for our products we work closely with our clients to understand their specific build standards and requirements. An indicative list is API 4F, API 9B, API 8C, AS3000, AS 1418, AS 4024
Safety Features	Rig auto level, crown saver, auto lift weight capability reduction dependant on over centre angle, over lift capacity control, redundancy on PLC controls, auto shut out of setup functions when in winching mode.
Power Swivel	The XDR 220 is compatible with standard oil field equipment including Power Swivels and tubing tongs



Rig Carrier

The rig carrier for the XDR 220 is the Mercedes Benz Actros 580hp. The Actros was chosen due to a number of unique specifications:

1. The Actros engine produces 580 HP and this is channeled through a PTO providing power to all operations on the XDR 220.
2. The thermo cooling pack allows the rig to operate stationary at full power, in 50 degree celsius ambient temperature.
3. The Actros' chassis is custom-built by Mercedes for the XDR 220, this allows the rig to operate without the need for transport permits across Australia.

These technical specifications are based on theoretical engineering calculations. Actual capacity will depend on specific calculations and materials. Exploration Drill Rigs Pty Ltd reserves the right to change or make modification to designs and specifications without prior notice or obligation.