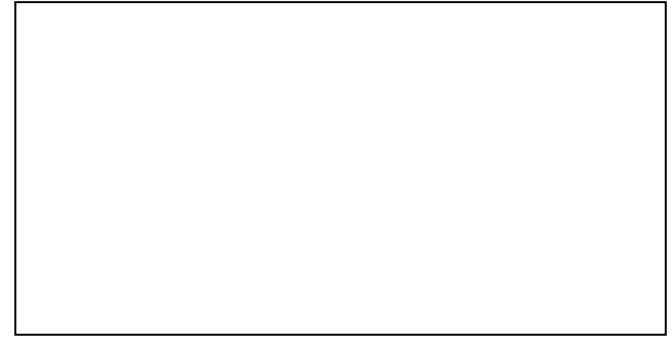


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The XDR 250 package that is available for sale is comprised of an XDR 250 workover rig, XDR Range 3 Catwalk and 2 XDR Tubular Magazines.



Workover rig and associate equipment will be produced in accordance with applicable API Products Specifications and standards. Standards are to be agreed prior to issue of final supply agreement.

Suitable to work at ambient temperature from 0°C to +55°C.

Hazardous area compliant with API RP 505. Zone 2 is 3 Metres.

Some equipment may be made in XDR Premises in Australia, India, UAE

Any equipment not clearly specified in this document is not included in DRI's scope of supply.

Drill Rig Spares Pty Ltd has patent protection, in Australia and overseas, for the technologies it develops. This includes technologies the subject of this document for which protection is being sought. Patents pending to images and descriptions of our technologies.

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TABLE OF CONTENTS

1. XDR 250 RIG TECHNICAL SPECIFICATIONS 2

2. XDR RANGE 3 CATWALK TECHNICAL SPECIFICATIONS 6

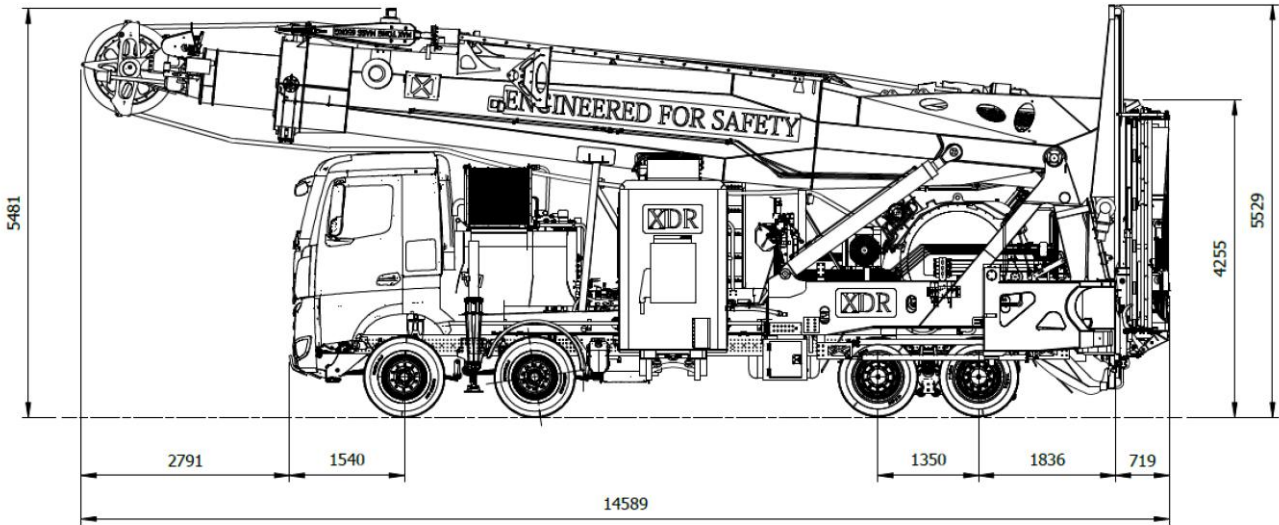
3. XDR TUBULAR MAGAZINES..... 8

4. XDR XENON 9

8. XDR MUD SYSTEMS 10

9. BENEFITS OF XDR EQUIPMENT 11

XDR 250 Rig mounted on a custom Mercedes Arocs 4858 580hp. SIL 2 Rated



1. XDR 250 Rig Technical Specifications

ITEM NO.	EQUIPMENT	DESCRIPTION & SPECIFICATIONS (Base Package)	EQUIPMENT OPTIONS (Not included in base options)
1	MAST	• Make: XDR250 • Type: Telescopic Single (Range II) • Freestanding mast which is hydraulically raised and extended. • Mast is designed and built to API 4F monogram • Mast Height: 24.00 mt (79ft) Bottom of crown to ground • Static Hook Capacity Single Line 105,00Kg (225,000 lbs) • Mast luffing to 10 degrees Pick-up hook load from 5 degrees to 10 degrees past vertical 18,000 Kg (39,650 lbs.)	
2	RACKING CAPACITY	N/A WE DO NOT RACK IN MAST	
3	LIGHTING PLAN	TO BE ADVISED	
4	MAST SAFETY	• 2 x Crown Saver (1 x Automatic, 1 x Manual Pendant) • Alarm System • Auto lift capability reduction dependent on mast angle past 5	

		degrees 2 x Remote emergency shutdown, auto shutout of setup functions when in winching mode - Floor Saver - Mast Overpull Protection	
5	AUXILLIARY WINCHES	1 x 3,000Kg Jib Winch 2 x 3,800Kg Auxiliary tugger winches - NOTE: The auxiliary winches also double up as the torque rein system during power swivel operations, maximum power swivel torque is 10,450 ft lb	
6	STANDPIPE	2" Pipe 5000 psi with integral butt weld 1502 hammer unions bolted to the mast	
7	ANCHORING SYSTEM	- Free standing non-guyed mast - Maximum wind rating 111km/h (60 knots) unexpected wind load, 80km/h maximum working wind rating 2 x Grillage beams for rear outriggers, 2 x Jack stands for front jacks	
8	TRAVELLING BLOCK/HOOK	- Verope Single Line 56mm, 3 : 1 safety factor @ 225,000lb, no travelling block, no reeving - Dual Load Path Bullhorn 225,000 lb WLL bail Link Ears (102T)	

9	WORK PLATFORM	- Make: XDR - Hydraulic Cantilever Work Platform variable from ground 2,300 to 6,500 mm (21ft), setup height 1,800mm (5.9ft) - Work area is 18 m2. - Hydraulic operating work floor, certified man riding for 2 men. - Capable of 90°, 180° & 270° operations Handrails, kick rails, tool board. Two points of access / egress - Distributed safe work limit of 3,000kg. - Work Platform is hydraulically deployed reducing lifting of heavy loads and increasing Rig Up / Down efficiency - Automatic locking pin system	Option For 6.5 metre work platform
10	A/C CONTROL CABIN	- Make: XDR - Two points of access / egress - The A/C control cabin is packed on the rig during transport. It is handled with a telehandler, placed on the work platform and locked in using a cylinder.	

RIG CARRIER

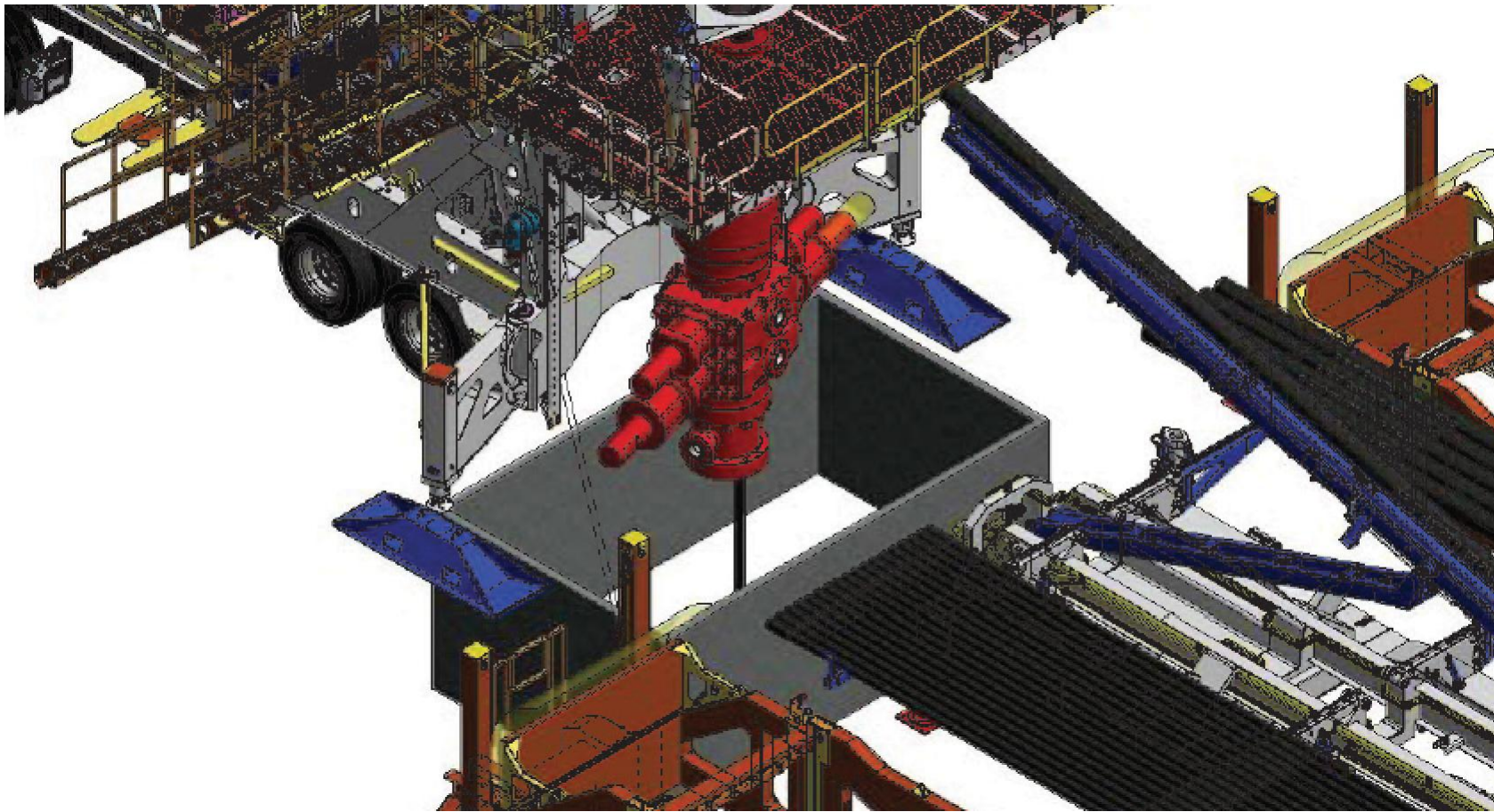
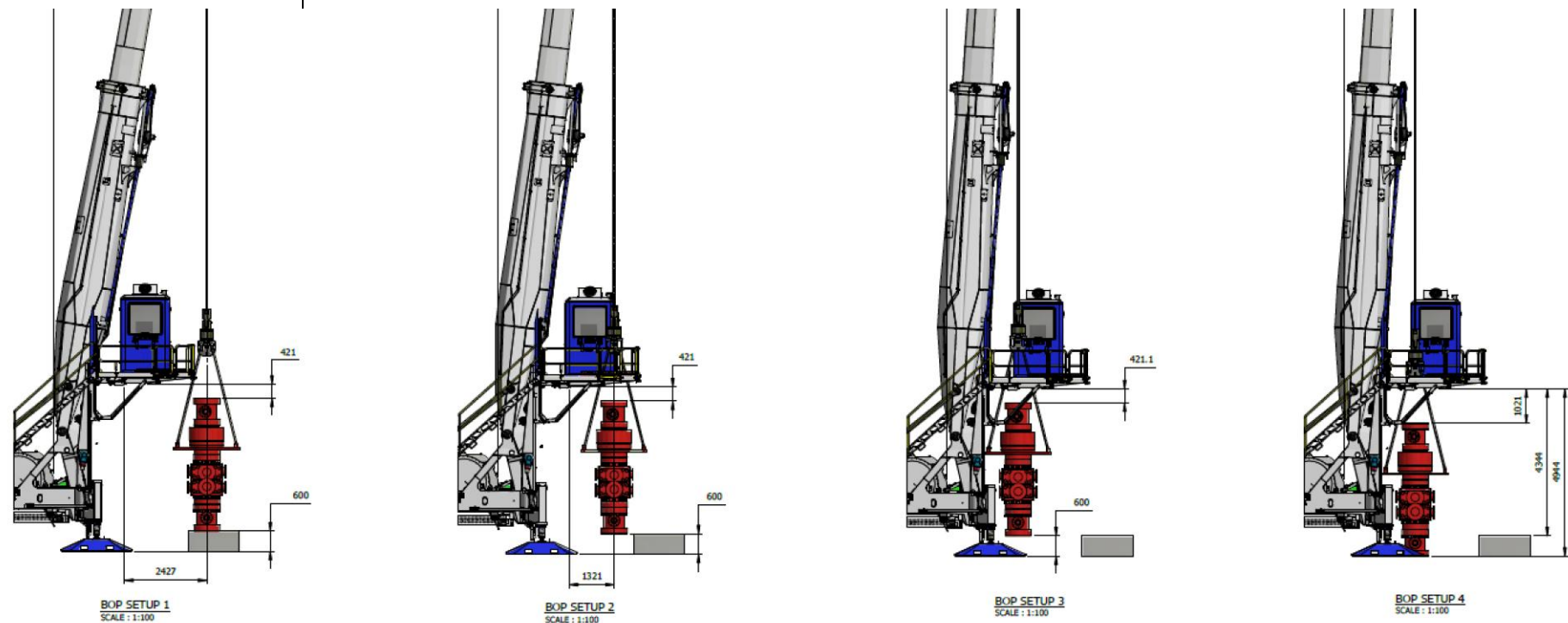
11	CARRIER	- Make: Mercedes Benz - Arocs 4858 Self-propelled - Left hand drive - Transport Dimensions 14.589mt (L) x 3.5mt (W) x 5.5290mt (H) - Headlights, revolving beacons (front and rear), blinkers, side lights. - Unit equipped with anti-lock braking system(ABS)	
12	CARRIER POWER TRAIN	- Arocs 580 HP - High Ambient Temperature Radiator - Rig Saver, Spark Arrestor - Thermal Lagging - PTO for Hydraulic and Rig Air Systems	
13	TRANSMISSION	Automatic transmission	
14	LEVELLING JACKS	2 x Mechanical Hydraulic Locking Jacks At The Front 2 x Fold Out Outrigger Jacks At The Back	
15	FUEL TANK	1 X 420 lt Fuel Tank C/W Check valve and Drain	
16	HYDRAULLIC SYSTEM	- PTO Driven HPU from Carrier Engine 850 lt Hydraulic tank - Parker gold cup pumps 6 Brevini hydraulic drive motors, 6 sets of wet disk park brakes or equivalent. 5 of the 6 brakes are capable of holding the full load of 225,000. - Powers all Carrier Auxiliary Equipment for Rig Set-up - Provides oil to Power Tong - Powers Hydraulic Power Swivel (no additional HPU required)	
17	PNEUMATIC SYSTEM	- Driven from Carrier Engine 18 CFM @ 125PSI 100 lt Tank capacity	

DRAWWORKS AND HOISTING

18	DRAWWORKS	- Make XDR 102,000 Kg (225,000 lbs.) lift capacity - Variable speed hydraulic draw works (single line pull), 56mm rope - Integral Hydraulic Braking, Wet Disk Park Braking - Dynamic brake for controlled lowering of load	
19	DRILL LINE	56mm Verope - No Spooler Required, - Grooved drum	
20	TUGGER WINCHES	2 X Pullmaster M8 Tugger winches on either side of the crown. Maximum lift 3,800kg each. Can be operated simultaneously.	
21	DEADLINE ANCHOR	N/A	
22	CROWN	- Crown Saver, electronic and anti-collision - Floor Saver - Overpull Limiter - All crown block sheaves mounted on tapered roller bearings, fitted with jumper bar covering 100 degree arc. - Crown block assembly manufactured in accordance with API spec 4F (4th edition). - Crown block sheaves manufactured in accordance with API spec 8C (5th edition). - Drawworks sheave 44" (1,120 mm) x 1 - Tugger Winch sheaves 20" (510 mm) 2 (Each rated to 2,000kg). - One certified pad-eye (10 metric ton SWL) for installation of the ESP cable sheave and another pad eye for rigging up secondary retention mounted at top of base boom.	
DRILLER CONSOLE			
23	CONTROL DESK	- All required Controls to Operate the Carrier Equipment inside an air-conditioned cabin - Adjustable to suit various operations	
24	CONTROL SYSTEM	- XDR Xenon Operating System - PLC controlled via 1 x Driller HMI Screen - Integrated IP 67 rated levers and joy-sticks - Full rig control feedback. SIL 2 rated	Full integration of all the plant is possible for our system along with live telemetry with Full Xenon Telemetry package
25	HMI SCREENS	- Standpipe Pressure - Rig Air Pressure - Electronic Weight Indicator - Hydraulic System Pressure - Weight on Bit - Weight on drill line, to name a few	
26	REMOTE BOP CONTROLS	Wall mount API 16D Compliant wall mount Control panel Supplied by Customer to be fitted into the back of the Air-Conditioned control cabin, OR PLC screen	Not supplied by DRI
27	REMOTE MUD PUMP CONTROLS	- Remote Controls for Operation of the XDR Mud Trailer System	Optional feature requiring additional HMI Screen, and XDR Xenon integration.

MAST LUFFING

- Dimensions for luffing in the BOP to well centre using the XDR 250 rig



The rear outriggers can span a 5 metre wide cellar.

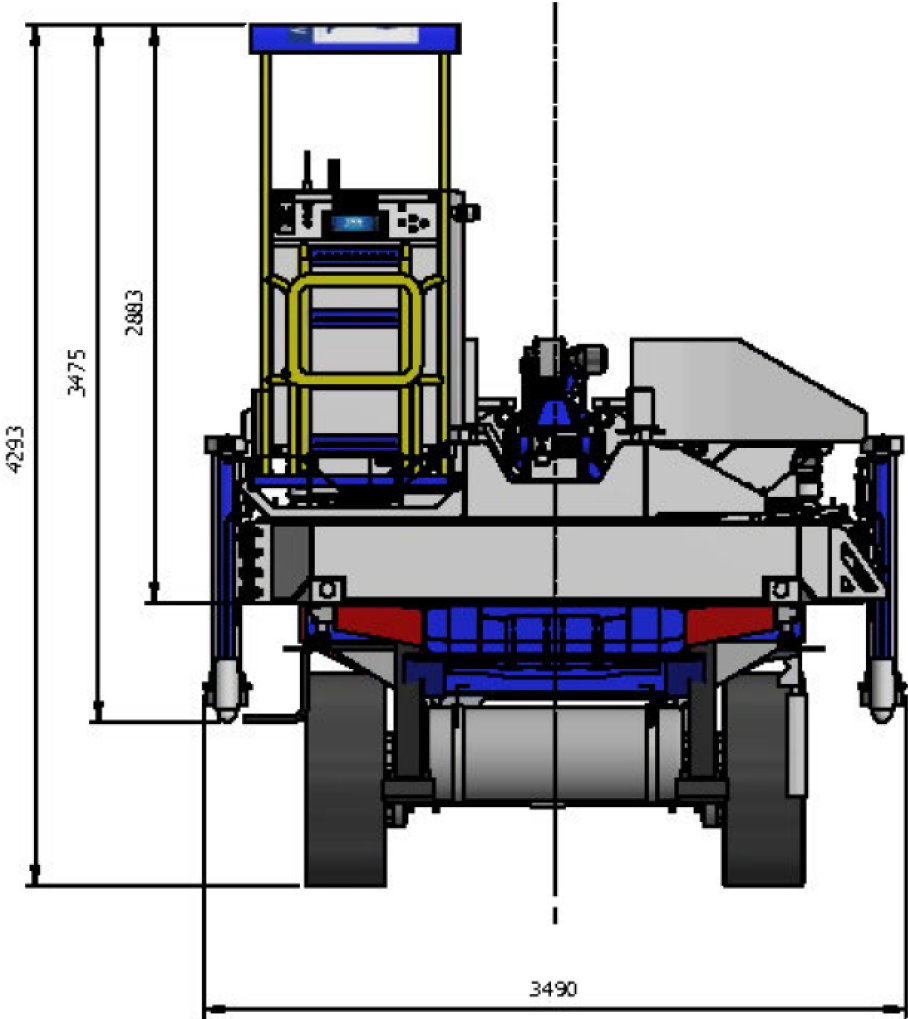
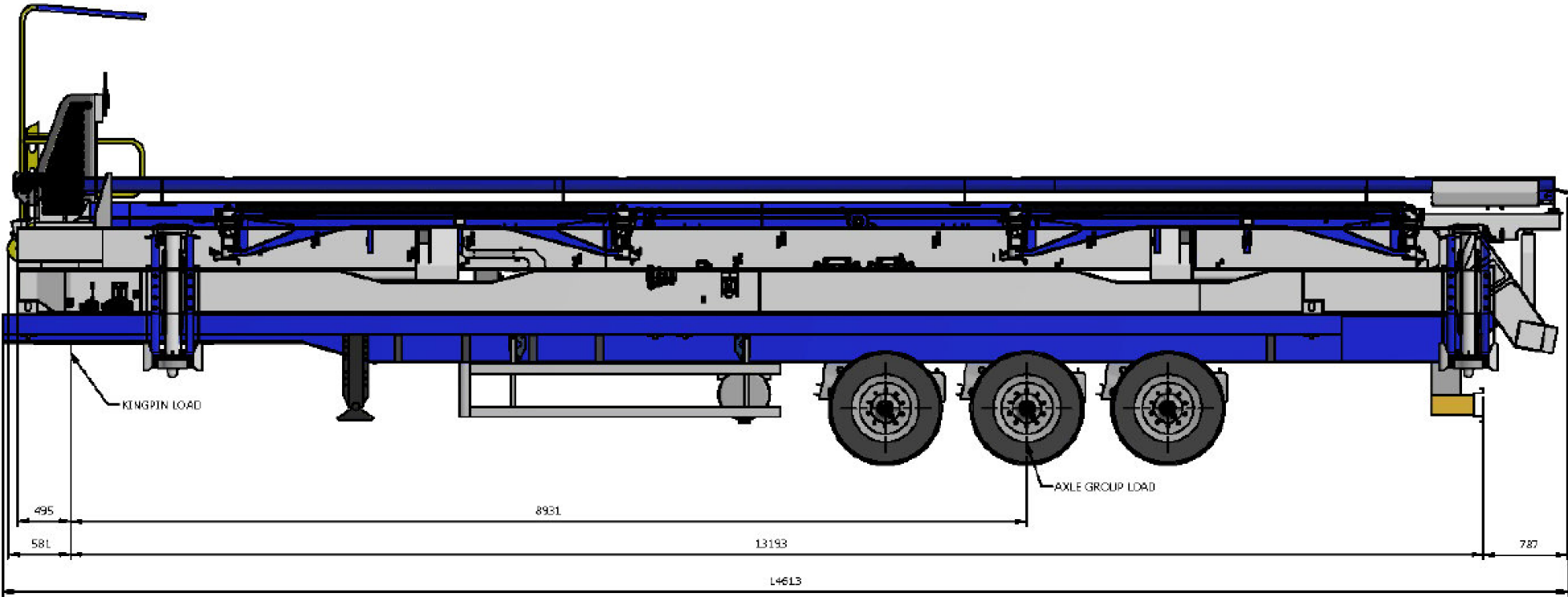
2. XDR Range 3 Catwalk Technical Specifications



ITEM NO.	EQUIPMENT	DESCRIPTION & SPECIFICATIONS (Base Package)	EQUIPMENT OPTIONS (Not included in base options)
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1	CATWALK OVERVIEW	- The XDR Range 3 Catwalk has many design features which may not be found on other catwalks. Including: - Rotating Trough - Kicker Mechanism - Self-Supporting Arms - Rotating Upper Chassis for better alignment with well centre - User defined stop points for tripping in and out, providing PLC controlled stopping - Safety Integrity assessed control systems - IECEX rated remote control - Integration with XDR Rig and Magazines - The XDR Catwalk uses a rotating trough and kicker mechanism to ensure complete control of tubulars during tripping operations.	
2	CATWALK TROUGH	- Maximum Lift 1,000 kg - Maximum Height 6.5m - Maximum Length API 5CT Range 3 - Sucker Rod Sizes 5/8" to 1-1/8" API 11B - Standard Tubing Sizes 2-3/8" to 4-1/2" API 5CT - Standard Casing Sizes 4-1/2" to 8-5/8" API 5CT - Rotation On DS & ODS Sides 90 Degrees from vertical - Skate For Pulling & Pushing tubulars - Interchangeable head, size dependent - Tubular Processing Per Hour 100 Joints - Slew Capability At Full Height Both DS & ODS 5 Degrees horizontally	
3	CATWALK ARMS	- Maximum Capacity per side 5,000 kg - Maximum Length API 5CT Range 3 - Minimum Length 7,2m - Running Surface (For Lower noise) - Ultra-high-molecular-weight polyethylene (UHMWPE) - Levelling System (Independent or Together) - Electronic Inclinometer	
4	CONTROL SYSTEM	- Full PLC control with HMI and control paddles - XDR Xenon Operating System - IECEX rate remote control - Semi-Automated processing of tubulars - Onboard inclination sensors - Onboard absolute encoders for distance measuring	Full integration of all the plant is possible for our system along with live telemetry With Full Xenon Telemetry package

		SIL 2 Rated with control Safety Interlocks	
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3. XDR Tubular Magazines

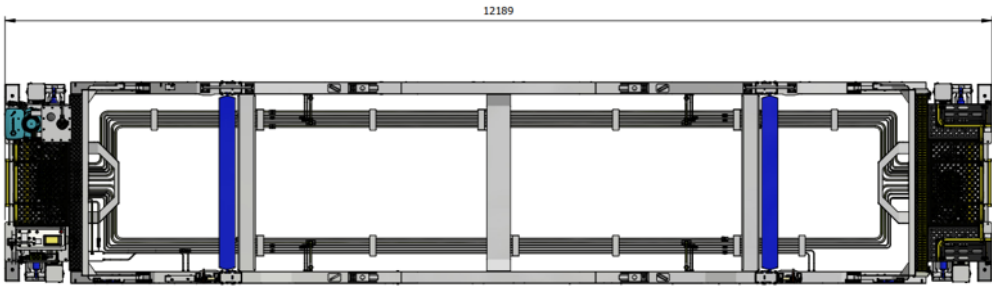
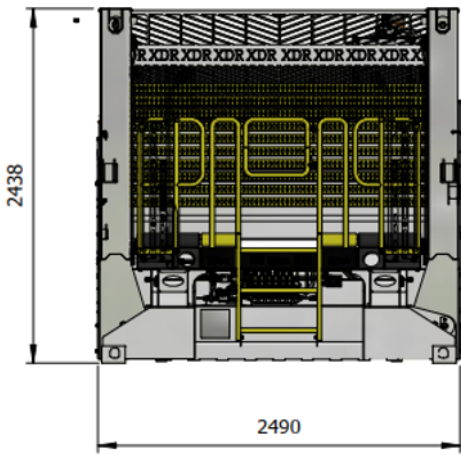
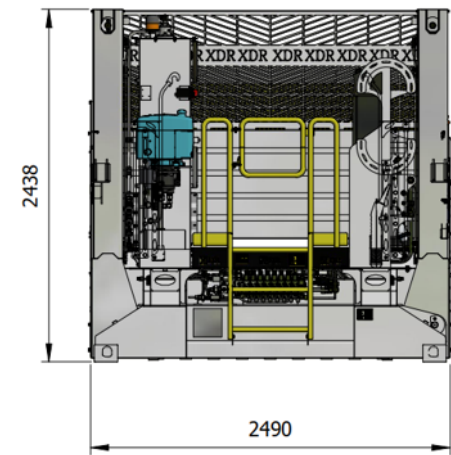


Figure 4: Side Elevation Magazine Dimensions - Travel



The XDR tubular magazines are designed to either carry tubulars/drill string to and from site as well as store and inspect production tubing. The magazines either deliver or retrieve tubulars from the XDR catwalk. This allows for seamless processing of tubulars without direct human intervention.



ITEM NO.	EQUIPMENT	DESCRIPTION & SPECIFICATIONS (Base Package)	EQUIPMENT OPTIONS (Not included in base options)
1	PIPE MAGAZINES RANGE 2 ONLY	- Self jack up and transported on a flatbed trailer. - Uses standard 40ft container lock positions. - Range II tubulars 9.6metre maximum length. 2 7/8 Tube 240 Units 3 1/2 Tube 160 Units 4 1/2 Tube(not drill pipe) 126 Units - Auto levelling - Variable pitch and yaw for uneven terrain to ensure alignment with XDR Catwalk - Maximum payload is 30,000kgs - Can process 100 joints per hour	Full integration of all the plant is possible for our system along with live telemetry With Full Xenon Telemetry package.

4. XDR Xenon



XDR Xenon is the Operating System at the heart of all XDR 3rd Generation Oilfield Equipment, with an exceptionally high level of functionality. Xenon is designed to increase productivity, reduce non-productive time, add layers of safety and simplify troubleshooting of any issue that may arise. It is fully customisable to client’s needs.

The standard Operating System is scalable with additional options.

- Xenon Live telemetry**

This package provides the transmission of wanted parameters from any piece of XDR plant on site to anywhere in the world. This includes equipment activities, hydraulic fluid levels, mud flows and pit volume totalization and trending graphs.
- Xenon Live Integration**

This package provides the ability for the Rig operator to control the plant on site from the Rig Control Cabin.
- Xenon Live Remote Control**

This package allows for:

 - Repetitive tasks like transferring tubulars from the magazine to the catwalk and catwalk to rig floor, from the site office.
 - One operator to operate the magazines and catwalk from a climate-controlled environment via a PC or Laptop.
 - VOIP, team members on site can be linked in live to communications between themselves.
 - Reduced the numbers of personnel required to operate the rig site and takes them out of harm’s way.

The system is programmed in C# which is ISO/IEC 23270 compliant.
- Xenon Live Maintenance**

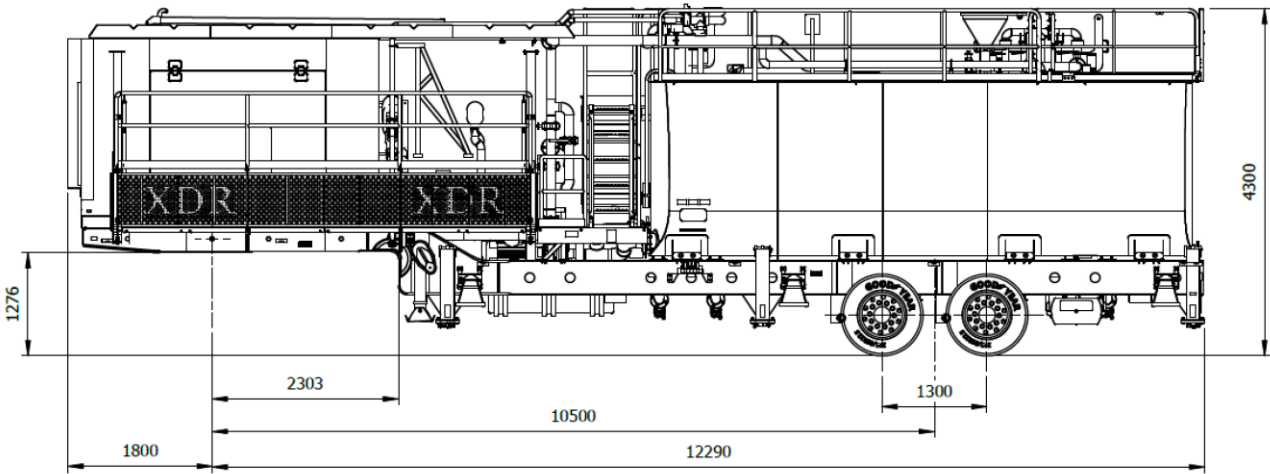
This package allows for the mechanical movement of moving parts to be monitored and alerts sent to the maintenance department to prepare spares. This includes hydraulic, engine and gear box oils, drawworks rope change and triplex pump lubrication.
- Xenon Live Black Box**

Xenon Black Box, tracks up to
for more than 12 months of operation. In the case of an incident, the CSV files can be easily graphed, showing precisely the position of joy sticks, hydraulic
pressures, hook loads and many other parameters to understand the causes contributing to an incident.

175 data points and is capable of storing data

Uniquely in the industry, our core technologies are fully scalable. We have worked with many clients to understand what they need and have an
exceptional
Manufacturing
validated technology

from our Flexible
ing technology



8. XDR Mud Systems

Although not included in this package, XDR has a range of Mud Trailers and tanks that are unique in design and can all be integrated with the XDR plant on site. The Mud system can be started, stopped and controlled from the Workover rigs main screen.



9. Benefits of XDR Equipment

- a) Significantly reduced crew numbers due to simple setup and integration of plant and controls;
- b) Rapid setup and packup;
- c) The ability to trip up to 100 joints per hour when using the XDR Hands Free System;
- d) 14 Rig packages already operating in Australia with Non Productive Time of less than 1% annually;
- e) No requirement for slip and cut;
- f) Low-cost maintenance;
- g) Drawworks speed and lift capacity control to avoid drill string damage;
- h) Catwalk, Magazines and power swivels are powered by the XDR Workover rig, eliminating other HPU’s on site;
- i) Small plant foot print reducing loads between wells;
- j) Workover rif outriggers can span 5metre wide cellars;
- k) Online troubleshooting from Australia, needs internet connection;