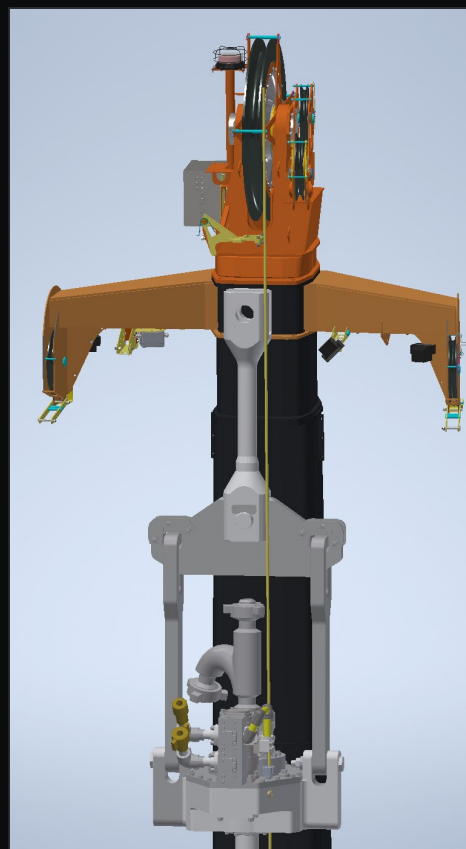




ZERO EMISSION • 160,000 LB • ZONE 1

XDR Electric

Workover rig package — the lifting power and speed of a large diesel unit, without the emissions, the noise or the maintenance burden.



160,000 lb

LIFTING CAPACITY

12,500 ft·lb

ROTARY TORQUE

Zone 1

IECEX / ATEX

515 kW

EU DRIVE VARIANT

CERTIFIED & COMPLIANT

IECEX / ATEX ZONE 1 • EUROPEAN ROAD-GAUGE • FULL PLC AUTOMATION AND INTERLOCKS • RANGE 3 ELECTRIC CATWALK

EXPLORATION DRILL RIGS PTY LTD
REDBANK, QUEENSLAND, AUSTRALIA

RIG PACKAGE
XDR.COM.AU

THE PACKAGE

The next generation of safe, efficient, zero-emission well servicing.

XDR's Electric Workover Rig Package brings world-leading Australian engineering into the European market: a fully electric, **road-legal**, high-performance workover system designed for the next decade of safe, low-emission well servicing. Built from the ground up for efficiency, safety and regulatory compliance.

160,000 lb Lifting capacity from a compact footprint	12,500 ft·lb Rotary torque using a power swivel	Zone 1 Explosive atmospheres, 5 m radius, IECEx / ATEX	Zero Diesel emissions, and markedly lower noise
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STANDARDS, COMPLIANCE AND SCOPE

HAZARDOUS AREA

Zone 1 explosive atmospheres, 5 m radius. All electronics within the zone IECEx or ATEX certified.

CONTROL SYSTEM

Safety-rated PLC with interlocks, logic checks and automated protections.

DRIVE VARIANT

515 kW single electric motor (Europe) or twin 602 hp permanent-magnet motors (Australia).

ROAD TRANSPORT

European road width and axle regulations — unrestricted transport across EU member states without escorts or special permits.

STATIC PROTECTION

Anti-static sheaves throughout; all cylinders earth-bonded to prevent static discharge.

SCOPE OF SUPPLY

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

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01

Fully electric powertrain

High performance, zero emissions

A single electric drive delivers smooth, controllable power through a high-efficiency VFD system. Cooling, braking resistors and climate-controlled AC units are integrated directly into the rig chassis — no external power modules, no auxiliary equipment.

- High-torque electric motor, VFD-controlled for precise, smooth operation
- Onboard braking resistors for controlled energy dissipation
- Low noise, low maintenance, zero diesel emissions
- Suited to ESG-driven operators and urban or regulatory-sensitive fields

OPTION Hybrid battery pack for regenerative power

TWO DRIVE VARIANTS



EUROPE

515 kW

Single electric motor, VFD-controlled. Engineered to European road-gauge and hazardous-area requirements.



AUSTRALIA

2 × 602 hp

Twin permanent-magnet motors — one driving rig operations, one driving the mud pump.

MEASURED AGAINST DIESEL

A working week of the electric rig, measured against a working week of a diesel unit and normalised per unit of hoisting work (load × travel), used roughly **twelve times less energy for the same lifted load** — 0.06 against 0.75 kWh per kip-m — while doing more hoisting in the week. The diesel's continuously running engine is the dominant factor. Single-week samples of differing jobs, on different measurement bases; indicative rather than a controlled trial.

02

Heavy-duty lifting and drilling

Serious performance from a compact footprint

The rig is suited to a wide range of well servicing, workover and light drilling applications.

- 160,000 lb lifting capacity
- 12,500 ft-lb rotary torque using a power swivel
- High-speed tripping and controlled drilling capability
- Smooth, consistent torque delivery from the electric drive

03

European road-gauge compliant

Go anywhere

Engineered specifically to meet European road-gauge requirements, allowing unrestricted transport across EU member states without escorts or special permits.

- Fully compliant with European road width and axle regulations
- Steerable tri-axle system for tight, congested well sites
- Compact transport profile with rapid setup and pack-up
- Suited to mature fields, urban pads and restricted-access locations



POWER SWIVEL AT WELL CENTRE – 12,500 FT-LB ROTARY TORQUE, DRIVEN BY THE ELECTRIC POWERTRAIN



03 / CONTROL, SAFETY AND XENON

04

Advanced safety through full PLC control

Interlocked, monitored, logged

The entire rig is controlled by a safety-rated PLC system with interlocks, logic checks and automated protections, to ensure safe operation under all conditions.

- Full PLC automation with interlocks
- Real-time monitoring of critical systems
- Controlled mast movements and safe-load logic
- Integrated diagnostics and fault reporting
- Reduced operator workload and human-error exposure

05

Certified for hazardous environments

Zone 1, 5 metre radius

The rig is designed to operate safely in Zone 1 explosive atmospheres, meeting stringent European regulatory requirements for gas-prone fields.

- All electronics within the zone are IECEx or ATEX certified
- All sheaves manufactured from anti-static materials
- All cylinders earth-bonded to prevent static discharge
- Electrical and hydraulic systems designed for hazardous-area compliance



One operating system for the *whole site*.

Xenon sits at the heart of every piece of XDR third-generation oilfield equipment — built to increase productivity, cut non-productive time, add layers of safety and simplify troubleshooting. The standard operating system is scalable with the packages below.

01	Transmits selected parameters from any piece of XDR plant on site to anywhere in the world — equipment activity, hydraulic fluid levels, mud flows, pit volume totalisation and trending graphs.
Xenon Live Telemetry	
02	Gives the rig operator control of the plant on site from the rig control cabin.
Xenon Live Integration	
03	Repetitive tasks — magazine to catwalk, catwalk to rig floor — run from the site office. One operator runs the magazines and catwalk from a climate-controlled environment via PC or laptop. VOIP links the site team live. Fewer people are needed at the rig site, and they work out of harm's way. Programmed in C#, ISO/IEC 23270 compliant.
Xenon Live Remote Control	
04	Monitors the mechanical movement of moving parts and alerts the maintenance department to prepare spares — hydraulic, engine and gearbox oils, drawworks rope change and triplex pump lubrication.
Xenon Live Maintenance	
05	Tracks up to 175 data points and stores more than 12 months of operation. After an incident the CSV files graph directly, showing joystick positions, hydraulic pressures, hook loads and other parameters that contributed to it.
Xenon Live Black Box	

Xenon is XDR's control and telemetry brand — the PLC that runs the machine, the telemetry that streams off it, and **Xenon Prevent**, the back end that watches it. Prevent reads the rig's live telemetry and judges it against norms written by XDR's own engineers, working from the signal map taken from the rig's own control program. Deterministic safety checks — chassis stability, hook load against interlock state — sit above an AI layer that cross-references pressures, the loads they serve and the control states they depend on into subsystem findings. Issues become numbered cases with memory rather than alarms that fire and vanish, so the crew hears about the new, the worsening and the neglected, and is left alone otherwise.

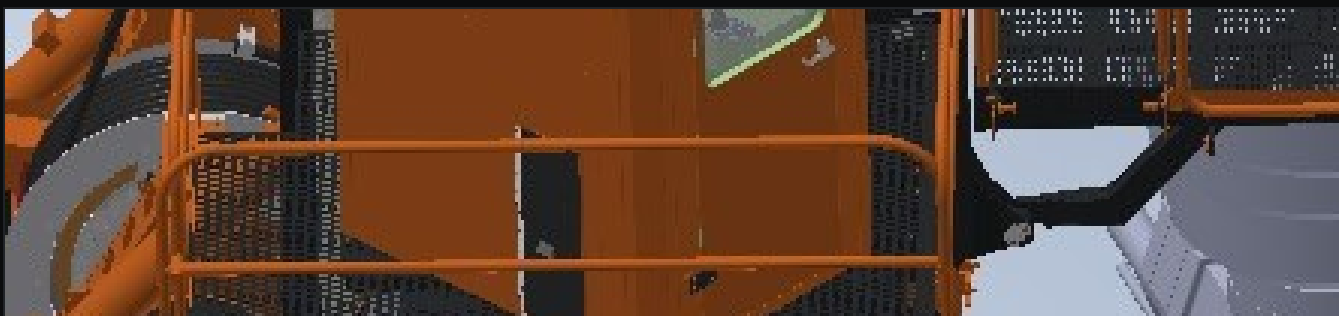
06

Operator-focused design

Cabin on the driller's platform

During setup the control cabin mounts directly onto the driller's platform — a major upgrade over traditional hoists and truck-mounted units.

- Clear line of sight to well centre
- Direct access to controls and instrumentation
- Climate-controlled, low-noise working environment
- Improved ergonomics and reduced fatigue



CONTROL CABIN ON THE DRILLER'S PLATFORM — CLEAR LINE OF SIGHT TO WELL CENTRE

07

Range 3 electric catwalk

Complete tubular handling

The rig is paired with a standalone Range 3 electric catwalk, engineered for high throughput and safe tubular handling — creating a complete, integrated plug-and-abandon workover package.

- Electric motor driving a hydraulic pump — no rig power required
- Fully PLC-controlled actuation
- Handles Range 3 tubulars with precision
- Steerable twin-axle rear for tight-site manoeuvrability
- Fully compliant with European road transport regulations



RANGE 3 ELECTRIC CATWALK — SELF-POWERED, PLC-CONTROLLED, ROAD-LEGAL ACROSS EUROPE

Six differences that *show up on the invoice*.

Drawing on XDR's field-proven technology base, the electric rig inherits the operational advantages measured across the XDR fleet. Six of them, and what each is worth.

	XDR	CONVENTIONAL HOIST
Setup and pack-up time	30 min / 30 min	120 min / 120 min
	Hydraulic man-riding platform, no guy lines to deploy, final adjustment by the mast over the well.	
Rig road gauge	Package is within legal road width	Package is not within legal road width
	Eliminates waiting on daylight or permits — around six hours per well.	
Drill line	Single line, so no slip and cut	Line runs through the travelling block; slip and cut required on ton mileage
	Removes slip-and-cut time and the risk exposure that comes with it.	
Emergency drawworks brake	Fitted	Not available
	Addresses a long-standing safety concern across the industry.	
Crew	Runs with reduced manpower — eight to operate the XDR package	Not capable
	Four fewer people per unit, so eight saved per 24 hours, before oncosts.	
Non-productive time	Under 1% for XDR hoists working in the field	Around 5% reported
	20.4 hours saved per well — equivalent to 3.9 additional wells per rig per year.	

IN SUMMARY

More than a piece of equipment.

Zero-emission electric power

160,000 lb lifting capacity

12,500 ft-lb rotary torque

Zone 1 compliance with IECEx / ATEX components

Steerable tri-axes for tight-site access

Full PLC automation and interlocks

Road-legal transport across Europe

A standalone Range 3 electric catwalk

Proven XDR reliability and reduced NPT



XDR ELECTRIC RIG ON SITE –
AUSTRALIAN TWIN PERMANENT-MAGNET
VARIANT

Decarbonisation

Zero diesel emissions at the wellsite, and a measured energy advantage over an equivalent diesel unit.

Regulatory compliance

Zone 1 hazardous-area certification and European road-gauge compliance engineered in, not bolted on.

Long-term cost reduction

Lower maintenance burden, reduced crew, and higher annual well throughput per rig.

Operational efficiency

Faster setup, faster tripping, fewer people, and less non-productive time per well.

Safety performance

Safety-rated PLC control, interlocks and automated protections, monitored continuously by Xenon Prevent.

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