



850 KG LIFT · 100 JOINTS/HOUR · IECEX REMOTE

TUBULAR HANDLING · TRAILER-MOUNTED

Range 2 Catwalk

Range 2 catwalk — rotating trough, lifting kicker and a skate that runs the full length at 80 m/min.



850 kg

MAXIMUM LIFT CAPACITY

5.3 m

LIFT HEIGHT AT 23°

80 m/min

SKATE TRAVEL SPEED

30 min

SETUP, BY ONE OPERATOR

HANDLES

RANGE 2 TUBULARS 2-3/8" TO 4-1/2" · RANGE 2 SUCKER RODS 5/8" TO 1-1/8" · TWO 6.5 M RACK RAILS PER SIDE AT 10,000 KG EACH

EXPLORATION DRILL RIGS PTY LTD
REDBANK, QUEENSLAND, AUSTRALIA

CATWALK SPECIFICATION
XDR.COM.AU

THE CATWALK

Positive control of every tubular, *end to end.*

The XDR Range 2 catwalk handles Range 2 tubulars and sucker rods at **100 joints per hour**. A rotating trough and lifting kicker give a smooth trough with **no cut-outs**, and a skate with an integrated grab runs its full length at 80 m/min. It takes hydraulic power from the rig through quick connects, and sets up in half an hour by one operator.

850 kg Maximum lift capacity to 5.3 m at 23°	100 Joints per hour, Range 2 tubulars and sucker rods	80 m/min Skate and integrated grab, full trough length	10,000 kg Per rack rail, two rails each side
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STANDARDS, COMPLIANCE AND SCOPE

ROAD COMPLIANCE

RVCS compliant chassis with ADR compliant 12–24 V multivolt LED lighting and marking. 14,060 × 2,495 × 4,300 mm, GVM 30,000 kg.

HAZARDOUS AREA

IECEx wireless remote control — Jay Electronique Beta 6 ATEX remote with Timo transceiver.

TUBULAR RANGE

Range 2 tubulars 2-3/8" to 4-1/2"; Range 2 sucker rods 5/8" to 1-1/8".

SCOPE OF SUPPLY

No sub-frame skids are included. Any equipment not clearly specified in this document is not included in XDR's scope of supply.

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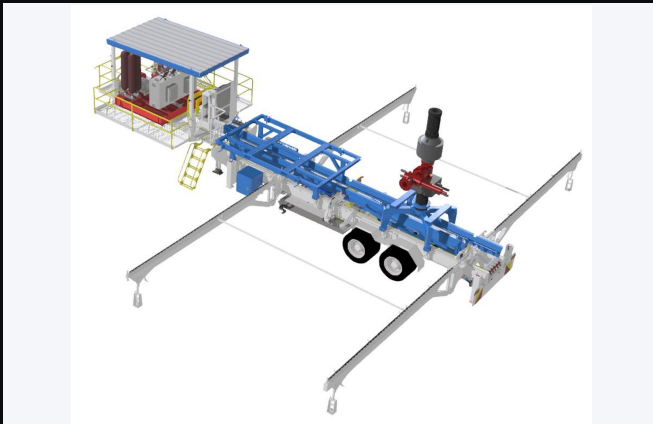
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THE UNIT

Rack rails out. *Trough to well centre.*

Two 6.5 m rack rails fold out each side, each rated to 10,000 kg and hydraulically adjustable through $\pm 3^\circ$ to suit the pipe. UHMWPE rolling edges protect the tubulars and cut the noise. The skate and integrated grab run the full length of the trough at 80 m/min.



GENERAL ARRANGEMENT, RACK RAILS DEPLOYED – BOP AND KOOMEY UNIT SHOWN FOR CONTEXT ARE NOT INCLUDED IN THE BASE PACKAGE



RACK RAILS LOADED – UHMWPE ROLLING EDGES PROTECT THE PIPE

01 / HANDLING AND STORAGE

EQUIPMENT	DESCRIPTION & SPECIFICATION – BASE PACKAGE	NOTES
01 Trailer	- Overall transport dimensions 14,060 mm (L) × 2,495 mm (W) × 4,300 mm (H) - GVM 30,000 kg - Custom designed and manufactured RVCS compliant chassis, complete with ADR compliant 12-24 V multivolt LED lighting and marking systems - Twin Hendrickson axles with Wabco EBS braking - SAF Holland king pin and landing legs	
02 Pipe handling	- Maximum lift capacity 850 kg - Maximum lift height 5.3 m at 23° - Range 2 tubulars from 2-3/8" to 4-1/2" - Range 2 sucker rods 5/8" to 1-1/8" - Handling speed of 100 joints per hour - Rotating trough and lifting kicker design, giving a smooth trough with no cut-outs - Skate and integrated grab, travelling the full length of the trough at 80 m/min - Upgraded 1,000 mm trough extension, packed and unpacked manually, with a spring-loaded mechanism to reduce manual handling risk	
03 Suckerrod handling	- Pony arms and kicker system on each side of the trough, to reduce flexing of sucker rods - Aluminium arm extensions to assist sucker rod handling - Stop pins and positions for additional flexibility in setup	
04 Pipe storage	- Two 6.5 m adjustable rack rails per side, each capable of holding 10,000 kg - Rack rails hydraulically adjustable through ±3° to suit different pipe conditions - UHMWPE rolling edges to prevent pipe damage and reduce operating noise	

02 / CONTROL AND SETUP

EQUIPMENT	DESCRIPTION & SPECIFICATION – BASE PACKAGE	NOTES
05 Hydraulic system	— Connects to the rig for all hydraulic power requirements, via quick connect hoses — Electric over hydraulic valves for all operating controls — Manual controls for the jack legs	
06 Control system	— Control panel mounted on the trailer gooseneck for operator visibility — IFM PLC control, allowing manual and semi-automatic operation of the catwalk — XDR Xenon operating system, with the full Xenon Live package range and Prevent	
07 IECEX wireless remote	— Wireless control of the catwalk using an IECEx remote — Usable for semi-automatic functions and manual skate control — Jay Electronique Beta 6 ATEX wireless remote with Timo transceiver	
08 Setup	— Four chassis jacks for levelling the catwalk on uneven ground — Kelly Nut jack leg design removes the hydraulic load from the jacks, preventing uncontrolled movement in the event of a hydraulic leak — Set up for operations in 30 minutes by one operator	
09 Electrical	— All catwalk control and lighting circuits are 24 V — One light with emergency backup over the operator's area and stairs — Four welded earthing pucks, 50 mm diameter, 25 mm high, M10 thread	



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.

03 / ONBOARD SYSTEMS

EQUIPMENT	DESCRIPTION & SPECIFICATION – BASE PACKAGE	NOTES
10 Auxiliary power unit	— Air-cooled diesel close-coupled to an 18 cc hydraulic pump — 60 l hydraulic oil tank with return line filter and desiccant breather — Quick connect fittings for easy connection to the catwalk hydraulic system — Integrated 24 V battery system, allowing the PLC to run independently without electrical power to the catwalk — Trickle charging 24 V system, keeping batteries fully charged when the catwalk is on 240 V power	
11 High pressure test pump and water tank	— High performance triplex pump, 25 lpm at 5,800 psi — 1,000 l stainless steel water tank — Hydraulic drive in a steel toolbox with a swing door for ease of access — Variable pressure control and datalogging through the PLC — 20 m 5,000 psi hose reel, to connect to equipment without moving the catwalk — Gernie mode available through the PLC for cleaning operations	
12 Light tower	— Hydraulically actuated fold-up light tower, extending to 8 m from ground level — Four independent 24 V LED floodlights — 28,800 lumens of light output	

04 / SITE EQUIPMENT

EQUIPMENT	DESCRIPTION & SPECIFICATION – BASE PACKAGE	NOTES
13 Transport skid	— Mounts onto the catwalk using container twist locks, for additional transport between well sites — Customisable to suit the customer's storage and transport needs — Refer to drawing GH02-00-005C-01 for transport skid weight and size limitations	NOTE No sub-frame skids are included
14 Aircompressor	— 240 V, 3 hp air compressor — 16 cfm / 453 lpm air flow capacity — 125 l compressed air storage tank — Integrated into the catwalk chassis with permanently mounted electrical feed and isolators	
15 Jack pad storage	— Storage for eight jack pads, 600 × 600 × 50 mm, for the jack stools	
16 Trailer fitout	— Four wheel chocks to suit trailer weight requirements, with storage — Ring type wheel nut indicators fitted to all wheel nuts — Placard showing required wheel nut torques	



TRANSPORT SKID IN USE – BOP STACK AND TOOL SKID CARRIED ON THE CATWALK BETWEEN WELL SITES, ON CONTAINER TWIST LOCKS

Two additions to the *base package*.

Everything specified on pages 4 to 7 is included in the base package. The items below are quoted separately.

Koomey unit mounting

Koomey unit mounted on the trailer gooseneck with 360° maintenance access via hydraulically actuated platforms, under an integrated roof structure for all-weather operation. Integrated hydraulic and pneumatic tubing to quick connects at the end of the trailer, integrated 415 V supply to a connection point at the trailer end, and a lighting package for 24-hour operations and inspection. Koomey unit (2.3 m W × 2.1 m L × 2.2 m H) and hoses to the BOP to be free issued by the client.

Hydraulic stairs

Two hydraulically actuated access stairs — one fitted to the catwalk, one fitted to the mud trailer.



KOOMEY MOUNTING OPTION — CLIENT-SUPPLIED UNIT ON THE GOOSENECK, UNDER THE INTEGRATED ROOF STRUCTURE, WITH 360° ACCESS ON HYDRAULIC PLATFORMS



WHY OPERATORS SPECIFY IT

Built to keep hands off the pipe.

100 joints per hour

The rotating trough and lifting kicker keep positive control of every tubular, with the skate and integrated grab running the full length of the trough at 80 m/min.

Thirty minutes, one operator

Four chassis jacks level the catwalk on uneven ground and the unit is set up for operations in half an hour by a single person.

Fails safe on the jacks

The Kelly Nut jack leg design takes the hydraulic load off the jacks, preventing uncontrolled movement if a hydraulic line lets go.

A smooth trough, no cut-outs

The lifting kicker design removes the cut-outs a conventional trough needs, so nothing catches and tubulars run clean end to end.

Hands off the pipe

An IECEx wireless remote drives the semi-automatic functions and manual skate control, so the operator works clear of the load.

20 tonnes of pipe on board

Two 6.5 m rack rails per side, each rated to 10,000 kg, hydraulically adjustable through $\pm 3^\circ$ with UHMWPE rolling edges to protect the pipe and cut noise.

SUPPLIED BY

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SCOPE

No sub-frame skids are included. Any equipment not clearly specified in this document is not included in XDR's scope of supply.

Specifications are subject to final configuration and to agreement of applicable standards prior to issue of the supply agreement.

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