

ENGINEERED TO DRILL ULTRA-LONG REACH WELLS.

Maximize efficiency and cut well time.

ADR ULTRA[™]
Automated Drill Rig

Experience the next-generation, high-performance ADR ULTRA[™] automated walking rigs - designed to surpass expectations in innovation, efficiency, and safety.

Ensign United States Drilling Inc.

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THE RIG WITH MORE.

Our customers asked for a more powerful rig to drill long lateral sections in horizontal wells. And a more agile rig to move from pad to pad quickly. We delivered both AND MORE.

MORE POWER, MORE TORQUE, MORE RACKING CAPACITY

- 35,000 ft racking capacity for of 5-1/2" pipe
- More torque to handle bigger pipe and longer laterals
- 3,000 HP drawworks for faster block speeds
- 5 x 1,475 HP gensets for a total of 7,375 HP
- 3 x 2,000 HP mud pumps rated for 10,000 psi

MORE EFFICIENCY

- Modular unitized loads for efficient rig moves
- Side Saddle design to facilitate sim-ops and reduce flat time
- Integrated top drive and traveling block stay in the mast during pad-to-pad rig moves
- Umbilical system capable of up to 300 ft reach for large multi-well pads
- Offline stand building capabilities
- Integrated BOP handling system

MORE AUTOMATION

- EDGE AUTOPILOT™ application
- 3rd party applications to best suit our customers needs like ATC (Auto Toolface Control) and ROP (Rate of Penetration) Optimization

MORE OPTIONS

- Battery Energy Storage System (BESS)
- Highline power capable
- Hands free robotic tubular handling
- Managed Pressure While Drilling (MPD) ready

— HOW FAR DO YOU WANT TO GO? — 3 MILE — 4 MILE — 5 MILE —>

The ADR Ultra is built to maximize drilling efficiency and reduce costs.

DRILLING AUTOMATION	EDGE AUTOPILOT™ and 3rd party apps
COMPLETE RIG FLOOR AUTOMATION	Optional on request
HOOK LOAD	1,000,000 lbs
SETBACK CAPACITY	1,000,000 lbs
RACKING CAPACITY 5 1/2" DP (6 5/8" TJ)	35,000 ft
DRAWWORKS	3,000 HP AC
DRILL LINE SIZE	1-1/2"
TOP DRIVE (ft-lbs torque)	80,000 ft-lbs
IRON ROUGHNECK TORQUE (MAKE/BREAK)	100,000 ft-lb / 120,000 ft-lb
# PUMPS	3 - 2,000 HP AC
CROWN HEIGHT	147 ft
WALKING	X/Y
WALKING WITH FULL SETBACK CAPABILITY	YES
CRANES REQUIRED FOR RIG UP/RIG DOWN	YES (box on box structure)
ADVANCED LIGHT & SOUND MITIGATION SOLUTIONS	YES
OFFLINE STAND BUILDING	YES
BOP TROLLEY CAPACITY	50 tons (100,000 lbs)
ROTARY TABLE SIZE	37.5"
SUBSTRUCTURE FLOOR HEIGHT	30 ft
CLEAR WORKING HEIGHT	25.5 ft



SAFETY FROM GROUND TO CROWN.

As a leader in oilfield safety, we design and built the ADR Ultra with rig technology that protects workers and reduces industrial accidents. The ADR Ultra continues the legacy of keeping every worker safe, every day with automated controls, ergonomic architecture, quality BOP handling system, optimal automatic rig floor.

▶ Watch our commitment to a perfect HSE record.

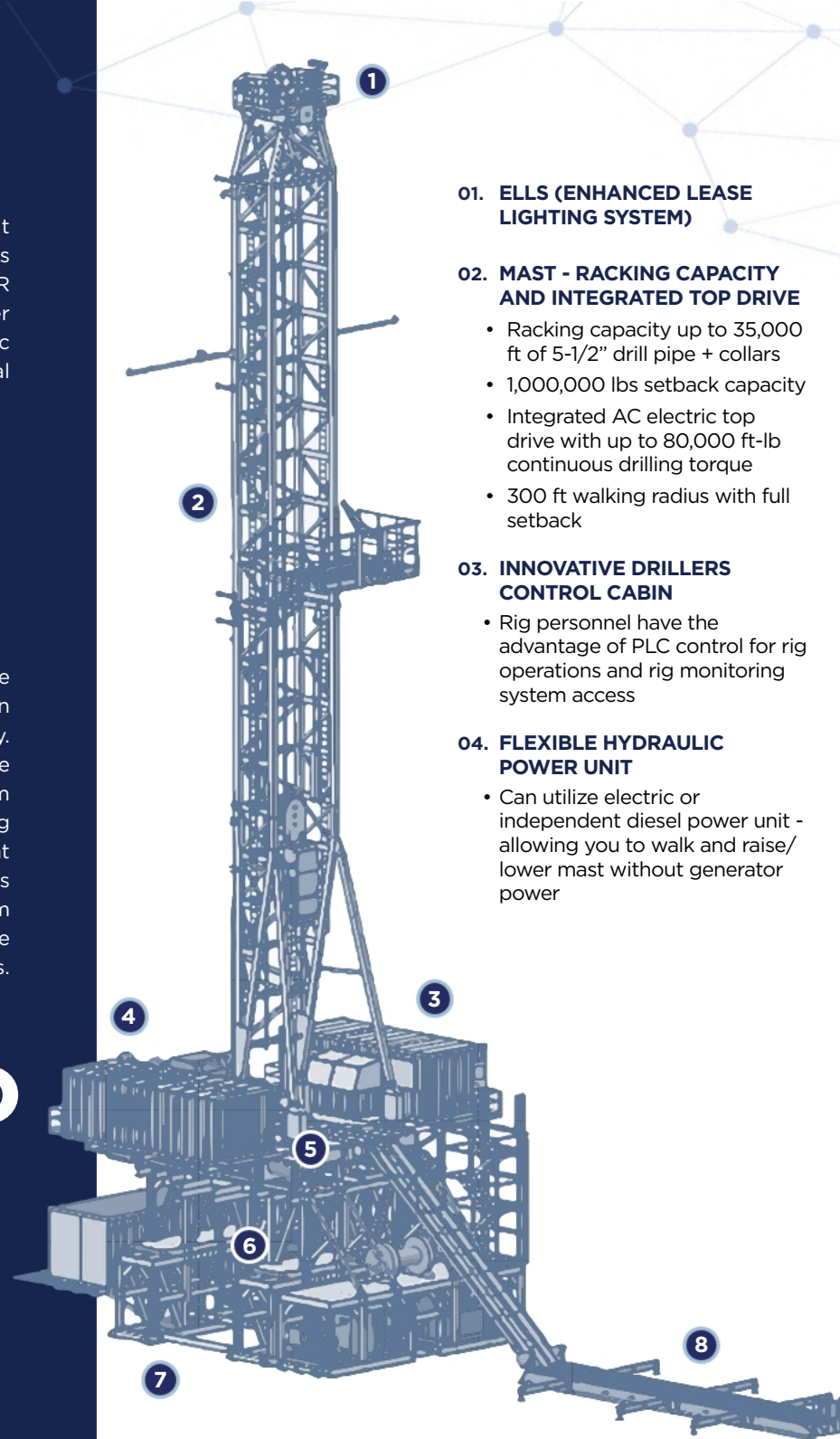
EDGE
AUTOPILOT™ BY ENSIGN

DRILL EFFICIENTLY.

The ADR Ultra coupled with EDGE AUTOPILOT suite of applications adds next level process automation to help deliver YOUR wells safer and more efficiently. Utilizing our Automated Drilling System (ADS) we automate routine back to bottom and off bottom sequences, allowing the driller to focus on optimizing the drilling process delivering consistent and efficient performance throughout the well process. Ensign is constantly adding to our suite of applications from our development team and third parties to find the best optimization tools to suite our customers needs.

HOW FAR DO YOU WANT TO GO?

ADR ULTRA™
Automated Drill Rig



01. ELLS (ENHANCED LEASE LIGHTING SYSTEM)

02. MAST - RACKING CAPACITY AND INTEGRATED TOP DRIVE

- Racking capacity up to 35,000 ft of 5-1/2" drill pipe + collars
- 1,000,000 lbs setback capacity
- Integrated AC electric top drive with up to 80,000 ft-lb continuous drilling torque
- 300 ft walking radius with full setback

03. INNOVATIVE DRILLERS CONTROL CABIN

- Rig personnel have the advantage of PLC control for rig operations and rig monitoring system access

04. FLEXIBLE HYDRAULIC POWER UNIT

- Can utilize electric or independent diesel power unit - allowing you to walk and raise/lower mast without generator power

05. RIG FLOOR DESIGN

- Build BHA and stands offline
- Up to 37 1/2" rotary table
- 3,000 HP dual AC motor input drawworks
- Efficient single speed gearbox design
- Fast block speeds to allow tripping times up to 4,000 ft/hr
- Iron roughneck and automated slips are driven remotely from the drillers control cabin
- Complete rig floor automation package to remove people from line of fire, improving safety and consistency. *Available upon request*

06. BOP HANDLING SYSTEM AND INTEGRATED STUMP

- 100,000 lbs BOP handling system allows for pad drilling and efficient well to well walks
- Offline BOP testing

07. SIDE SADDLE SUBSTRUCTURE

- Integrated X/Y walking system and umbilical system provide you with optimal flexibility on a multi-well pad
- 30' floor height to accommodate large BOP Stacks
- Wellhead clearance in both directions
- Major equipment integrated into sub boxes for faster rig up

AUTOMATED PIPE HANDLER

- 08. Power Catwalk with 10,000 lbs tubular capacity and integrated walking system