



ENSIGN | drilling

We built the **ADR[®] 1500**
to exceed expectations.

The next generation in full size walking rigs
ADR[®] 1500 Automated Drilling Rig Series



WALK WITH ACCURACY.

The ADR 1500 walks on both X + Y axes, for the best mobility and flexibility of any rig on the market. Spend less time walking, and more time drilling with the ADR 1500. Its advanced motion control lets you shift between the X + Y axes in minutes, walking directly to your next well with a full setback, which, on a multi-well site, saves you hours of walking time.



SAFETY FROM GROUND TO MAST.

As a leader in oilfield safety, we design and built the ADR 1500 with rig technology that protects workers and reduces industrial accidents. The ADR 1500 continues the legacy of keeping every worker safe, every day with automated controls, ergonomic architecture, quality BOP handling system, and rig-up without cranes.

▶ Watch our commitment to a perfect HSE record



MOVE IN LESS TIME.

The ADR 1500 transports faster than other full-sized rigs. When you're ready to move, so is the ADR 1500. It's a fully modular system, engineered to dismantle, load and re-assemble with the speed of a military operation, with trailerized complex/backyard and steerable mast dollies. Other full sized rigs can take up to 10 days to move. With the ADR 1500 you'll be on your new site in a fraction of the time; ready to spud, saving you time and money.



DRILL EFFICIENTLY.

The ADR 1500 lets you build stands offline, while you drill. Start drilling stands rather than joints. The ADR 1500 has either a rotating mousehole or a mousehole with pipe spinners so your crew can build double or triple stands while the rig is in full operation. You'll stay on bottom - drilling longer and saving time on non-productive tripping and directional re-orienting tasks.

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.

POWER IN MOTION

How far do you want to go? The ADR 1500 is built to maximize drilling efficiency and reduce costs.

ADR 1500 SERIES	ADR 1500	ADR 1500i	ADR 1500s
MAST HL	750K #	750K #	800K - 1,000K #
RACK CAP (ft of pipe)	19,500'	22,500'	26,500'
RACKING CAPACITY	500 kip	600 kip	700 kip
PIPE SIZE	5" or 5.5"	5" or 5.5"	5" or 5.5"
TOP DRIVE (ft-lbs torque)	37,500 ft-lbs	37,500 ft-lbs	70,000 ft-lbs
# GENS (total cum HP)	3300 KW (4425 HP)	3300 KW (4425 HP)	4400 KW (5900 HP)
# PUMPS	2 - 1600	3 - 1600	3 - 1600/2000
AUTOMATED DRC² ENABLED	Edge Auto Pilot (full suite)	Edge Auto Pilot (full suite)	Edge Auto Pilot (full suite)
WALKING	X/Y	X/Y	X/Y
CRANES REQUIRED FOR RIG UP/RIG DOWN	NO	NO	YES
ADVANCED LIGHT & SOUND MITIGATION SOLUTIONS	YES	YES	YES

2 MILE — 3 MILE — 4 MILE →

¹ Depending on availability, rental charge may apply

² DRC - Drilling Rig Controls

ADR[®] 1500

The rig with more.



01. ELLS (ENHANCED LEASE LIGHTING SYSTEM)

- Optional equipment

02. MAST - RACKING CAPACITY AND INTEGRATED TOP DRIVE

- 136' cantilever-triple moves in 1 or 2 sections to accommodate those hard to move areas.
- In most markets, no cranes are required for rig-up or rig-down.
- Racking capacity up to 26,500' of 5" or 5° (127 mm) drill pipe + collars.
- Integrated 350/400 ton AC electric top drive with 37,500 ft-lbs continuous drilling torque.

03. INNOVATIVE CONTROL CABIN

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

04. FLEXIBLE HYDRAULIC POWER UNIT

- Hydraulic power unit has both electric and diesel power - allowing you to move with or without generator set power

05. RIG FLOOR DESIGN

- Mousehole allows you to build BHA and stands offline.
- 1500 hp AC electric drawworks.
- Up to 37 1/2" rotary table
- Powered mousehole or mousehole with pipe spinner and dedicated winch for offline stand building.

06. BOP HANDLING SYSTEM AND INTEGRATED STUMP

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

07. SUBSTRUCTURE - INTEGRATED SELF MOVING SYSTEM MOVES IN ANY DIRECTION WITH FULL SETBACK

- Integrated X/Y walking system and umbilical system provide you with optimal flexibility on a multi-well pad.
- Up to 28' floor height to accommodate large BOP Stacks.
- Rig can walk up to 1' per minute with full setback.
- Some models have 36" (0.91 m) clearance for walking over existing wellheads through entire substructure.

08. AUTOMATED PIPE HANDLER

- Wheeled pipe handler has opening to clear wellheads and can be moved with a standard rig-loader.

09. HIGHER PERFORMANCE MODULAR

- Custom dolly provided for each mast section when moved in 2 sections.
- Substructure moves in as few as 3 loads. Total centre section moves in as few as 11 loads.

Ensign ADR[®] 1500 Specifications.

	ADR 1500	ADR 1500i	ADR 1500s
Crown height	136'	136'	142'
Hook load	750,000 lbs	750,000 lbs	800,000 lbs
Setback capacity	500,000 lbs	600,000 lbs	700,000 lbs
Rotary table load	750,000 lbs	750,000 lbs	800,000 lbs
X/Y Walking capability	Yes	Yes	Yes
Walking with full setback capability	Yes	Yes	Yes
Racking capacity 5" DP	19,500	22,500	26,500
Racking capacity 5 1/2" DP (6 5/8" TJ)	19,500	22,500	26,500
Offline stand building	Yes	Yes	Yes
BOP trolley capacity	100,000 lbs	100,000 lbs	100,000 lbs
Table opening	27 1/2"	27 1/2"	37 1/2"
Substructure floor height	23' 6"	23' 6"	28'
Clear working height	20' 6"	20' 6"	23' 6"
Top drive (fully integrated)	Tesco 350/400 EXI 800	Tesco 350/400 EXI 800	Tesco 500 ESI 1350
Top drive load capacity	800,000 lbs	800,000 lbs	1,000,000 lbs
Top drive drilling torque	37,500 ft-lb @ 112 rpm	37,500 ft-lb @ 112 rpm	70,000 ft-lb @ 100 rpm
Drawworks	Pacific Rim 1500 AC	Pacific Rim 1500 AC	Pacific Rim 1500 AC
Drawworks single line pull	98,633 lbs	98,633 lbs	98,633 lbs
Drill line size	1 3/8"	1 3/8"	1 3/8"
Iron roughneck	NOV IR 3080	NOV IR 3080	Forum FH-100
Iron roughneck torque (make/break)	60,000 ft-lb/80,000 ft-lb	60,000 ft-lb /80,000 ft-lb	80,000 ft-lb /100,000 ft-lb
Generator power total	3539/4050 HP	4050 HP	5,400 HP
Mud pumps	1,600 hp (x2)	1,600 hp (x3)	1,600 hp (x3)
Active mud volume	982 US bbl	982 US bbl	1,163 US bbl
Centre section loads	Approx. 11	Approx. 11	Approx. 19
Complex loads	Approx. 15	Approx. 17	Approx. 21



Ensign United States Drilling Inc.

15015 Vickery Drive
Houston, TX 77032
TEL 832.431.4700

18287 Weld, Co Road 394
La Salle, CO 80645
TEL 970.284.6977

info@ensignenergy.com
ensignenergy.com

