

apollo™



India's First **Horizontal Directional Drill (HDD) Machines**

www.apollotechno.in | www.apollotechnoint.ae



Horizontal Directional Drill (HDD) Machines

R Series Models

The Apollo A800 R is designed to cater small to medium size underground infrastructure construction projects, equipped to face tough hard ground and difficult jobsite conditions. The equipment is constructed with a quality rack-pinion system and powered by a 160hp Ashok Leyland engine. Along with this powerful engine, thrust / pullback force has increased to 19.810 tons with a rotational torque rating of 6500 Nm that is ideal for longer distance jobs and larger diameter applications.

The R-series is equipped with advanced electricals and powerful hydraulics, which helps to deliver optimum performance in various soil conditions. The equipment offers a rod loading system with a set of drill rods on board to reduce manpower requirement and increase job efficiency. For error-free operations, the R-series also features 3 selectable rotation speeds for different ground conditions. To help ensure smooth drilling operations, two joysticks are integrated into the ergonomically crafted operator cabin, which equipped with 10" DCI Aurora remote display panel that is compatible with any DCI locating system. The joystick control is designed to match natural wrist and arm positioning during operation to reduce operator fatigue. Air-conditioned cabin with rotating operator seat provides surround view for maximum comfort to monitor the operations. The R-series uses sealed & lubricated track rollers, carrier rollers and idlers that provide excellent service life, which help to keep the equipment working longer in the field. Additional features like, auto-drill and half-rotation, which enhance the ease, flexibility and performance in harder soil conditions.

Apollo single piece forged drill rods provide the optimal range of strength and more flexibility with finished threads.



A600R



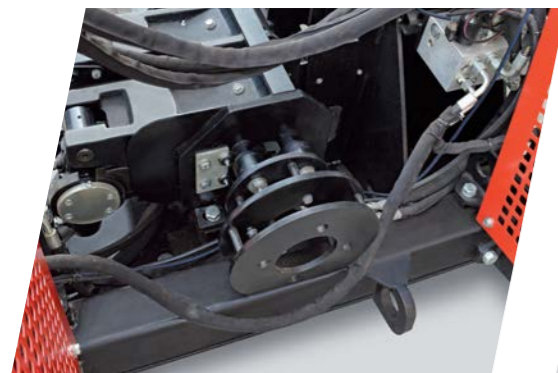
A100R



A200R



A800R with Operator Cabin



Technical Specifications

R Series Models	A100R HDD	A200R HDD	A600R HDD	A800R HDD
Dimensions & Weights				
Length	4450 mm	5250 mm	5995 mm	5810 mm
Width	1575 mm	1575 mm	2100 mm	2300 mm
Height	2020 mm	2020 mm	2450 mm	2400 mm
Weight (without drill pipe)	9569 lbs (4340 kg)	10891 lbs (4940 kg)	16688 lbs (7570 kg)	19797 lbs (8980 kg)
Weight (with drill pipe)	10300 lbs (4676 kg)	12342 lbs (5598 kg)	20677 lbs (9370 kg)	23765 lbs (10780 kg)
Travelling Speed	1.50 km / hour	1.50 km / hour	1.40 km / hour	2.5 km / hour
Engine				
Make & Model	Ashok Leyland AL H3CTIC3R23 BS III	Ashok Leyland AL H3CTIC3R23 BS III	Ashok Leyland H4CTINES24/1 AC	Ashok Leyland H6ETIC3RS23/1 CEV3AC
Fuel Type	Diesel	Diesel	Diesel	Diesel
Maximum Engine Speed	2300 RPM	2300 RPM	2400 RPM	2300 RPM
Number of Cylinders	3 Cylinders with Turbo Charger	3 Cylinders with Turbo Charger	4 Cylinders with Turbo Charger	6 Cylinders with Turbo Charger
Horse-Power Rating	65 HP (48 kW)	65 HP (48 kW)	130 HP (97 kW)	160 HP (119 kW)
Maximum Torque	245 Nm @ 1900 RPM	245 Nm @ 1900 RPM	460 Nm @ 1400 RPM	589 Nm @ 1800 RPM
Drill Pipe				
Length	1829 mm (1.8 m)	3048 mm (3 m)	3048 mm (3 m)	3048 mm (3 m)
Weight (Each Pipe)	12 kg	23.5 kg	35 kg	36 kg
Rod Box Capacity	28 Pipes	28 Pipes	50 Pipes	50 Pipes
Minimum Bend Radius	89 feet	100 feet	110 Feet	110 Feet
Pipe Diameter	48 mm	54 mm	66.7 mm	70 mm
Water Pump System				
Flow	26.45 GPM (100 LPM)	26.45 GPM (100 LPM)	52.83 GPM (200 LPM)	80 GPM (300 LPM)
Pressure	1000 PSI	1000 PSI	1200 PSI	1000 PSI
Technical Parameter				
Maximum Spindle Speed	216 RPM	185 RPM	258 RPM	234 RPM
Maximum Spindle Torque	3800 Nm	4900 Nm	6000 Nm	6500 Nm
Minimum Bore Diameter	3.5"	3.5"	3.5"	3.5"
Thrust Force	11023 lbs (5000 kg)	21715 lbs (9850 kg)	34689 lbs (15735 kg)	43673 lbs (19810 kg)
Pull-Back Force	11023 lbs (5000 kg)	21715 lbs (9850 kg)	34689 lbs (15735 kg)	43673 lbs (19810 kg)
Features				
Electrical System	12 V	12 V	12 V	24 V
Drilling Lights	YES	YES	YES	YES
Operator Cabin (Optional)	NA	NA	YES (AC Cabin)	YES (AC Cabin)
Stake-Down System (Auto-Anchoring)	YES	YES	YES	YES
Rack-Pinion System	Single	Single	Single	Double
Rod-Loader System	NA	NA	YES	YES
Hydraulic Systems				
Auxiliary Pump Relief Pressure	3000 PSI	3000 PSI	3000 PSI	3000 PSI
Thrust / Pull-Back Pump Relief Pressure	3350 PSI	3350 PSI	6000 PSI	6000 PSI
Rotational Pump Relief Pressure	3750 PSI	3750 PSI	6000 PSI	6000 PSI
Fluid Capacities				
Engine Oil Capacity	10 L	10 L	12 L	19 L
Diesel Tank Capacity	120 L	120 L	130 L	168 L
Hydraulic Oil Tank Capacity	182 L	182 L	224 L	239 L

© ApolloTechno Industries Pvt. Ltd. can change specifications without any prior notice. Accessories shown with product may optional and not a part of standard supply.



Find us on:



Head Office & Factory :
ApolloTechno Industries Pvt. Ltd.

Survey No. 167, Ahmedabad-Mehsana NH-8,
Mandali - 382732, Dist.: Mehsana, (Gujarat) India.

info@apollo techno.in | www.apollotechno.in

Global Reach :
Apollo Techno International FZCO

PO Box 342182, LIU 3, Warehouse No. A10,
Dubai Silicon Oasis, Dubai, UAE.

Tel: +971 4 3441085 | Fax: +971 4 3441162

info@apollo techno.int.ae | www.apollotechnoint.ae