



**apollo**<sup>®</sup>

**R Series**  
Product Line **GEN II**

**THE ULTIMATE  
DRILLING SOLUTIONS**



MAKE IN  
FOR THE WORLD  
INDIA

**India's First**  
**Horizontal Directional Drill**  
**Rig Manufacturer**

[www.apollotechno.com](http://www.apollotechno.com)  
[www.apollotechnoint.com](http://www.apollotechnoint.com)



INTRODUCING

# apollo<sup>®</sup> GEN II

HORIZONTAL DIRECTIONAL DRILLING

OPTIMUM PERFORMANCE with auto thrust & pullback capability and optimal rotational torque (3-speed) helps to install the product efficiently resulting increased productivity.



**A3000R GEN II HDD**



## ABOUT THE COMPANY

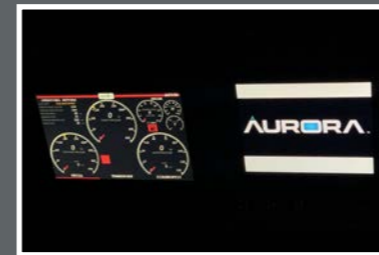
Apollo Techno Group has a strong and broad footprint into manufacturing of road construction equipment. The Group is built on a strong foundation of customer value creation with over four decades of responsible business practices. Moving towards diversification by indulging into manufacturing, the Group have accelerated their manufacturing to underground construction equipment – Horizontal Directional Drilling Rigs. And today we, at Apollo Techno Industries Private Limited, are pioneering in the Horizontal Directional Drilling Rigs as India's First manufacturer.

Our expertise in equipment manufacturing for over four decades has helped us develop a deep understanding of customer needs, and this has been translated as our own Impact Design language. We have earned recognition as one of the key players in the drilling machinery industry in the domestic and international markets. We are into the manufacturing of various types of directional drills, mud pumps, rotary drilling rigs (piling rigs), trenchers and downhole tooling, along with on-site services. The organization functioned on SAP ERP systems with modern methods of manufacturing process that manages and integrates availability of spares on time.

Apollo Techno is a growing global equipment force with innovative leadership and focused on strong customer relationship. The company has stand with qualified and experienced team, which are always ready to serve and committed towards total satisfaction to customers by providing quality products & after sales support at the highest standard.



INTERACTIVE DISPLAY giving comfortable operator interface real-time communication with the walk over system.



INTEGRATED CONTROL SYSTEM with onboard diagnostics for easy maintenance and higher reliability.



COMFORTABLE AC CONTROLLED CABIN with full length glass gives good visibility to work area. Ergonomic seat offer operator more leg room and higher comfort. Apollo features proportionate joysticks and rotational knob control.





# MANUFACTURING FACILITY



World-class manufacturing forms the essence of Apollo Techno. In the manufacturing process, our facilities ensure that every step – from design to production to assembly – follows the highest standards of quality. Situated at India’s best strategic location in Gujarat with over 34000 square meter spread area, our production units combine modern manufacturing practices with cutting edge technology. Each unit is equipped with state-of-the-art manufacturing and assembly lines to cater to large numbers and different variants of machines. Our constant focus on automation and technology makes us the leader in India’s Horizontal Directional Drilling market and places us among the top in the Industry.

While manufacturing machines, we pay emphasis on safety, maintenance, user comfort and life cycle cost. To offer the best machine experience to our customers, our passionate engineering and quality talent ensures production of superior Rigs, which has led to the rapid growth in global demand for our Rigs.





## R SERIES RIGS

# QUALITY, SERVICE, TRUST...REDEFINED

The R Series is equipped with advanced electricals and powerful hydraulics, which helps to deliver optimum performance in various soil conditions. The rig 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 selectable rotation speeds for varied ground conditions. Two joysticks are integrated into the ergonomically crafted operator station.

The R series uses sealed & lubricated track rollers, carrier rollers and idlers that provides excellent service life, which helps to keep the rig working longer in the field. Additional features like autodrill and half rotation, which enhances the ease, flexibility and performance in hard ground condition.

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

**BUILT TO TAKE ON  
THE CHALLENGE**

### APOLLO TECHNO INTERNATIONAL FZCO

We have a Large Part Center in the UAE to provide our customers with the best service globally, Apollo factory certified field technicians represent an immeasurable portfolio of hands-on equipment experience to train your crew on the project site.

Aftermarket parts sale are efficiently dispatched to minimize project delays and ensure that your equipment is prepared for optimal performance on its next challenge.

### TECHNICAL TEAM *We're there when you need us!*

Our service team is highly motivated, well trained and having rich experience in HDD industry. We proactively understand your need, communicates honest updates, imparts knowledge with onsite service team and keeps your rig productive.

### SPARE PARTS SUPPORT *WE SUPPORT 24/7*

A key part of our promise to you are Specifying, Sourcing and Stocking spare parts. You can be confident all of your Rig parts and tools are available on short notice, when you need them and wherever you need them.

### TRAINING SUPPORT *Empowering Customers*

We specialise in delivering onsite training and mentoring your site crew in Drilling and Locating. We train to deliver Safety and Productivity on site.



**A2000R GEN II HDD**



**R SERIES  
RANGE OF  
PRODUCTS**



*A Powerful Rig on Small Footprint*



**A100R HDD**

*Powerful, Reliable, Rugged and Smallest Footprint in its Class*



**A800R GEN II HDD**

*A Compact Rig with Dynamic Performance*



**A200R HDD**

*Impressive Size with Increased Power*



**A1000R GEN II HDD**

*Built to Counter Tough Jobs*



**A600R HDD**

*A Large Size Rig for Bigger Job-Site*



**A1200R GEN II HDD**



# Horizontal Directional Drill Rigs



## R Series GEN II Technical Specifications

Models	A100R	A200R	A600R	A800R GEN II	A950R GEN II
<b>DIMENSIONS &amp; WEIGHTS</b>					
Length	4150 mm	5150 mm	6080 mm	5910 mm	6225 mm
Width	1550 mm	1550 mm	2160 mm	2305 mm	2305 mm
Height	1700 mm	1700 mm	2210 mm	2275 mm	2315 mm
Weight (Without Drill Pipe)	9,568 lbs (4,340 kg)	10,891 lbs (4,940 kg)	15,366 lbs (6,970 kg)	20,962 lbs (9,508 kg)	27,712 lbs (12,570 kg)
Weight (With Drill Pipe)	10,309 lbs (4,676 kg)	12,341 lbs (5,598 kg)	19,114 lbs (8,670 kg)	24,709 lbs (11,208 kg)	32,236 lbs (14,622 kg)
<b>ENGINE</b>					
Make & Model	CAT® C2.2	CAT® C2.2	CAT® C4.4	CAT® C4.4	CAT® C7.1
Fuel Type	Diesel	Diesel	Diesel	Diesel	Diesel
Maximum Engine Speed	2200 RPM	2200 RPM	2200 RPM	2200 RPM	2200 RPM
Number Of Cylinders	4 Cylinders	4 Cylinders	4 Cylinders	4 Cylinders	6 cylinders
Horse-Power Rating	73 hp (55 kW)	73 hp (55 kW)	130 hp (97 kW)	173 hp (129 kW)	220 hp (164 kW)
Maximum Torque	270 Nm @ 1600 tpm		750 Nm @ 1400 RPM		900 Nm @ 1400 RPM
Cooling Method	Liquid	Liquid	Liquid	Liquid	Liquid
<b>DRILL PIPE</b>					
Length	1829 mm (1.8 m)	3048 mm (3 m)	3048 mm (3 m)	3048 mm (3 m)	3048 mm (3 m)
OD Of Joints	48 mm	54 mm	66.7 mm	70 mm	83 mm
Pipe Diameter	42 mm	48 mm	60.3 mm	60.3 mm	73 mm
Weight (each pipe)	12 kg	23 kg	34 kg	36 kg	54 kg
Rod Box Capacity	36 Rods	36 Rods	50 Rods	50 Rods	32 Rods
<b>WATER PUMP SYSTEM</b>					
Flow	26 GPM (100 LPM)	26 GPM (100 LPM)	53 GPM (200 LPM)	80 GPM (300 LPM)	80 GPM (300 LPM)
Pressure	1000 PSI	1000 PSI	1200 PSI	1000 PSI	1000 PSI
<b>TECHNICAL PARAMETER</b>					
Push / Pull Force	11,023 lbs (5,000 Kg)	21,716 lbs (9,850 kg)	35,450 lbs (16,080kg)	44,256 lbs (20,074 kg)	84,217 lbs (38,200 kg)
Maximum Spindle Torque	3800 Nm	3800 Nm	6000 Nm	6500 Nm	10200 Nm
Maximum Spindle Speed	216 RPM	185 RPM	258 RPM	234 RPM	162 RPM
<b>FEATURES</b>					
Electrical System	12 V	12 V	12 V	24 V	24 V
Drilling Lights	Yes	Yes	Yes	Yes	Yes
Actuated Operator's Cabin with A/C	–	–	–	–	–
Operator's Cabin with A/C	–	–	–	Yes	Yes
Separate External Cabin with A/C	–	–	–	–	–
Crane	–	–	–	–	–
Stake Down System (Anchoring)	Yes	Yes	Yes	Yes	Yes
Rack-Pinion System	Yes	Yes	Yes	Yes	Yes
Hydraulic Enable	Yes	Yes	Yes	Yes	Yes
Rod Loader System	–	yes	Yes	Yes	Yes
Drive System	Rubber Track	Rubber Track	Rubber Track	Rubber track	Steel Track
<b>HYDRAULIC SYSTEMS</b>					
Auxillary Pump Relief Pressure	3000 PSI	3000 PSI	3000 PSI	3000 PSI	3000 PSI
Thrust/Pull Back Pump Relief Pressure	3350 PSI	3350 PSI	6000 PSI	6000 PSI	6000 PSI
Rotational Pump Relief Pressure	3350 PSI	3350 PSI	6000 PSI	6000 PSI	6000 PSI
<b>FLUID CAPACITIES</b>					
Engine Oil Capacity	10 litre	10 litre	12 litre	19 litre	19 litre
Diesel Tank Capacity	100 litre	100 litre	130 litre	168 litre	168 litre
Hydraulic Oil Tank Capacity	90 litre	90 litre	224 litre	239 litre	239 litre

## R Series GEN II Technical Specifications

Models	A1000R GEN II	A1200R GEN II	A2000R GEN II	A3000R GEN II
<b>DIMENSIONS &amp; WEIGHTS</b>				
Length	9530 mm	10720 mm	11800 mm	16450 mm
Width	2440 mm	2600 mm	2800 mm	2800 mm
Height	2650 mm	3415 mm	3875 mm	4015 mm
Weight (Without Drill Pipe)	42,395 lbs (19,230 kg)	50,376 lbs (22,850 kg)	73,304 lbs (33,250 kg)	79,918 lbs (36,250 kg)
Weight (With Drill Pipe)	44,988 lbs (20,406 kg)	54,344 lbs (24,650 kg)	–	–
<b>ENGINE</b>				
Make & Model	CAT® C7.1	CAT® C7.1	CAT® C9.3B	CAT® C9.3
Fuel Type	Diesel	Diesel	Diesel (HSD)	Diesel
Maximum Engine Speed	2200 RPM	2200 RPM	2000 RPM	2000 RPM
Number Of Cylinders	6 cylinders	6 cylinders	6 cylinders	6 cylinders
Horse-Power Rating	225 hp (168 kW)	275 hp (205 kW)	402 hp (300 kW)	442 hp (330 kW)
Maximum Torque	900 Nm @ 1400 RPM	1050 Nm @ 1400 RPM	1794 Nm @ 1400 RPM	1794 Nm @ 1400 liquid
Cooling Method	Liquid	Liquid	Liquid	Liquid
<b>DRILL PIPE</b>				
Length	4572 mm (4,5 m)	6096 mm (6 m)	6000 mm (6 m)	9600 mm (9,6 m)
OD Of Joints	103 mm	111 mm	158 mm	190 mm
Pipe Diameter	89 mm	89 mm	114 mm	139 mm
Weight (each pipe)	98 Kg	150 kg	200 Kg	350 kg
Rod Box Capacity	12 Rods	12 rods	–	–
<b>WATER PUMP SYSTEM</b>				
Flow	200 GPM (760 LPM)	200 GPM (760 LPM)	200 GPM (760 LPM)	500 gpm (optional)
Pressure	1000 PSI	1000 PSI	1000 PSI	
<b>TECHNICAL PARAMETER</b>				
Push / Pull Force	111,113 lbs (50,400 kg)	142,860 lbs (64,800 kg)	265,216 lbs (120,300 kg)	160,300 Kg
Maximum Spindle Torque	19,798 Nm	30200 Nm	39477 Nm	77012 nm
Maximum Spindle Speed	114 RPM	98 RPM	86 RPM	66 RPM
<b>FEATURES</b>				
Electrical System	24 V	24 V	24 V	24 V
Drilling Lights	Yes	Yes	Yes	Yes
Actuated Operator's Cabin with A/C	–	–	Yes	–
Operator's Cabin with A/C	Yes	Yes	–	–
Separate External Cabin with A/C	–	–	–	Yes
Crane	Yes (Optional)	Yes (Optional)	Yes (Optional)	Yes (Optional)
Stake Down System (Anchoring)	–	–	–	–
Rack-Pinion System	Yes	Yes	Yes	Yes
Hydraulic Enable	Yes	Yes	Yes	Yes
Rod Loader System	Yes	Yes	–	–
Drive System	Steel Track	Steel Track	Steel Track	Steel Track
<b>HYDRAULIC SYSTEMS</b>				
Auxillary Pump Relief Pressure	3000 PSI	3000 PSI	3000 PSI	3000 psi
Thrust/Pull Back Pump Relief Pressure	6000 PSI	6000 PSI	6000 PSI	6000 psi
Rotational Pump Relief Pressure	6000 PSI	6000 PSI	6000 PSI	6000 psi
<b>FLUID CAPACITIES</b>				
Engine Oil Capacity	20 litre	25 litre	32 litre	32 litre
Diesel Tank Capacity	242 litre	250 litre	345 litre	373 litre
Hydraulic Oil Tank Capacity	390 litre	440 litre	475 litre	545 litre

# INTERNATIONAL SUPPORT

Since 2018, our industry-leading Rig has enabled contractors in UAE, Oman, KSA, Russia to productively and cost-effectively install water, wastewater, and other infrastructure. We've been here with strong commitment to the industry and we continue to pave the road of innovation with our superior trenchless rigs along with its ancillary products.

We back our equipment systems with a powerhouse of skilled sales, engineering, and technical professionals dedicated to superior reliability and responsive service across the globe. Our business operates with the highest level of integrity, and our employees have a personal investment in our customers' success.



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