

## **Better Productivity, Reduced Headaches in an Indian Manner**

The "A400 HDD" is the India's FIRST Horizontal Directional Drill Machine, manufactured by Apollo Techno Equipments Limited. A400 produces 12 tons of pulling force and 5500 Nm of torque, which prove a long lasting productivity enhancing features into a compact, good looking, and manoeuvrable machine. 130 HP Ashok Leyland engine create unmatched performance that the operator can actually feel when on a tough pull. Machine fitted with quality components, which ensure long life, durability, reliability and simple design for easy operation & maintenance. This rig has various features like Auto Rod-loader System (an optional) for reduce Men-power and Auto-anchoring system for greater stability. It also featured with three-speed drilling speed for different conditions. A400 features a thoughtfully designed operator station with smart controls.



## **A400 HDD**

## India's First Horizontal Directional Drill (HDD) Machine



### Technical Specifications

| Dimensions & Weights        |              |
|-----------------------------|--------------|
| Length                      | 5257 mm      |
| Width                       | 1981 mm      |
| Height                      | 2060 mm      |
| Weight (without Drill Pipe) | 6080 Kg      |
| Weight (with Drill Pipe)    | 7930 Kg      |
| Travelling Speed            | 1.40 km/hour |

| Technical Parameter    |          |
|------------------------|----------|
| Maximum Spindle Speed  | 260 RPM  |
| Maximum Spindle Torque | 5500 Nm  |
| Minimum Bore Diameter  | 3.5"     |
| Thrust Force           | 8150 kg  |
| Pull-Back Force        | 11810 kg |

| Engine               |                                |
|----------------------|--------------------------------|
| Make and Model       | Ashok Leyland H4CTINES24/1     |
| Fuel Type            | Diesel                         |
| Maximum Engine Speed | 2400 RPM                       |
| Number of Cylinders  | 4 Cylinders with Turbo Charger |
| Horse-Power Rating   | 130 HP (97 kW)                 |
| Maximum Torque       | 460 Nm @ 1400 RPM              |

| Features               |                |
|------------------------|----------------|
| Electrical System      | 12 VDC         |
| Drilling Lights        | YES            |
| Flow Indicator         | YES            |
| Stake-down System      | YES            |
| Auto Rod-loader System | YES (Optional) |

| Drill Pipe           |                     |
|----------------------|---------------------|
| Length               | 10 Feet             |
| Weight (Each Pipe)   | 35 kg               |
| Rod Loading Capacity | 500 Feet (50 Pipes) |
| Minimum Bend Radius  | 110 Feet            |
| Pipe Diameter        | 2.375"              |
| Maximum Torque       | 6300 Nm             |

| Hydraulic Systems                     |          |
|---------------------------------------|----------|
| Auxiliary Pump Relief Pressure        | 3000 PSI |
| Thrust/Pull-back Pump Relief Pressure | 3000 PSI |
| Rotation Pump Relief Pressure         | 6000 PSI |

| Fluid Capacities            |           |
|-----------------------------|-----------|
| Engine Oil Capacity         | 12 Litre  |
| Diesel Tank Capacity        | 130 Litre |
| Hydraulic Oil Tank Capacity | 210 Litre |

| Water Systems |                |
|---------------|----------------|
| Flow          | 76 / 154 LPM   |
| Pressure      | 600 / 1200 PSI |

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## A Mid-size Rig for Tough Job

The "A800 HDD" is design for a range of medium diameter, mid to long distance job and medium to hard rock job. A800 built with quality Rack and Pinion system with 160 HP Ashok Leyland engine. Along with that pull-back capacity of 19.810 Tons and torque of 6500 Nm, these perform in such difficult conditions. A800 Equipped with Auto Rod-loader System on Rack-pinion to reduce the men-power and makes your job easier. It also featured with three-speed drilling speed for different conditions. Proportional-operated joystick controls are designed to match your natural wrist and arm position for maximum comfort and minimum fatigue. A800 uses sealed & lubricated track rollers, carrier rollers and idlers that provide excellent service life to keep your machine in the field and work longer.



## A800 HDD

## India's First Horizontal Directional Drill (HDD) Machine



### Technical Specifications

| Dimensions & Weights        |             |
|-----------------------------|-------------|
| Length                      | 5450 mm     |
| Width                       | 2375 mm     |
| Height                      | 2230 mm     |
| Weight (without Drill Pipe) | 7237 Kg     |
| Weight (with Drill Pipe)    | 9137 Kg     |
| Travelling Speed            | 2.3 km/hour |

| Technical Parameter    |           |
|------------------------|-----------|
| Maximum Spindle Speed  | 234 RPM   |
| Maximum Spindle Torque | 6500 Nm   |
| Minimum Bore Diameter  | 3.5"      |
| Thrust Force           | 19.810 Kg |
| Pull-Back Force        | 19.810 Kg |

| Engine               |                                |
|----------------------|--------------------------------|
| Make and Model       | Ashok Leyland H6ETIC3RS23/1    |
| Fuel Type            | Diesel                         |
| Maximum Engine Speed | 2300 RPM                       |
| Number of Cylinders  | 6 Cylinders with Turbo Charger |
| Horse-Power Rating   | 160 HP (119 kW)                |
| Maximum Torque       | 589 Nm @ 1800 RPM              |

| Features               |        |
|------------------------|--------|
| Electrical System      | 24 VDC |
| Drilling Lights        | Yes    |
| Flow Indicator         | Yes    |
| Stake-down System      | Yes    |
| Rack & Pinion System   | Yes    |
| Auto Rod-loader System | Yes    |

| Drill Pipe           |                    |
|----------------------|--------------------|
| Length               | 10 Feet (3.0 M)    |
| Weight (Each Pipe)   | 36 Kg              |
| Rod Loading Capacity | 500 Feet (50 Pipe) |
| Minimum Bend Radius  | 110 Feet           |
| Pipe Diameter        | 2.375"             |
| Maximum Torque       | 6772 Nm            |

| Hydraulic Systems                     |          |
|---------------------------------------|----------|
| Auxiliary Pump Relief Pressure        | 3000 PSI |
| Thrust/Pull-back Pump Relief Pressure | 6000 PSI |
| Rotation Pump Relief Pressure         | 6000 PSI |

| Water Systems |          |
|---------------|----------|
| Flow          | 200 LPM  |
| Pressure      | 1300 PSI |

| Fluid Capacities            |           |
|-----------------------------|-----------|
| Engine Oil Capacity         | 19 Litre  |
| Diesel Tank Capacity        | 128 Litre |
| Hydraulic Oil Tank Capacity | 211 Litre |

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