



GOOD TO DRILL.

**DRILL SMARTER &  
FASTER WITH  
PRD RIGS**



# MINERALS & METAL MINING





## ABOUT US

For 50 years, PRD Rigs has been one of the leading drilling and exploration rig manufacturers in the world. Having served more than 75+ countries, PRD Rigs have an amazing fleet of quality products for all types of surface mining. It is one of the well-established companies in India with a strong reputation in the drilling industry. PRD stands for “Paranthaman Rock Drills”

PRD rigs are typically designed to be highly mobile and versatile, allowing them to be easily transported to and set up at various mining sites. They can also be designed to operate in a variety of environmental conditions, such as extreme temperatures or high altitudes.

PRD Rigs integrates advanced technology for high performance, durability, and adaptability in all drilling conditions. With smart controls and modular designs, our rigs ensure efficiency and easy maintenance. Comprehensive aftersales support guarantees reliable performance and maximum uptime throughout the equipment’s lifecycle.

The company has a presence in Africa, Middle East, Asia, Australia, South America and Russia, and is constantly expanding its operations to new areas. With such a large area to cover, PRD Rigs has a lot of scope for growth and expansion. The company is always looking for new opportunities to increase its market share and diversify its operations.

ISO 9001:2015

BUREAU VERITAS  
Certification



HAPPY DRILLING FOREVER WITH PRD RIGS \_\_\_\_

**30+**

Rig models

**75+**

Countries

**4000+**

Drilling rigs sold  
across the world

- ▶ DRILLING CAPACITY  
DD: NQ 1200 m, HQ 1000 m, PQ 750 m  
RC: 450 m @ 140 mm (5 1/2")  
Inclination: 45° - 90°

- ▶ POWER PACK  
Cummins 360 hp
- ▶ PULL UP FORCE  
25800 kgf

- ▶ PULL DOWN FORCE  
17700 kgf

- ▶ MULTIPURPOSE DRILL HEAD

Gear Ratio	Torque (Nm)	Speed (rpm)
1 <sup>st</sup> Ratio	1671 - 800	800 - 1250
2 <sup>nd</sup> Ratio	9600 - 6148	139 - 157
Floating spindle stroke: 75 mm		

- ▶ ROD HANDLER  
RED rod handler operated through wireless radio remote control
- ▶ ROD BIN\*  
32 rods x 6 m (192 m)
- ▶ SAMPLING SYSTEM\*
  - Fixed cone splitter
  - Rotary splitter
- ▶ BREAKOUT SYSTEM  
MB 550 - Hands free dual break out system (RC)  
MAKORBREAK MD (Diamond core)
- ▶ AIR COMPRESSOR\*  
1165 cfm - 508 psi (35 bar)  
1200 cfm - 350 psi (24 bar) / 500 psi (35 bar)
- ▶ Built for mine safety standards
- ▶ Booster compressor compatible

## PRD MULTISTAR

SURFACE MINERAL EXPLORATION  
Multipurpose (RC / Diamond Core)



- ▶ DRILLING CAPACITY  
450 m @ 140 mm (5 1/2")  
Inclination: 45° - 90°
- ▶ POWER PACK  
Cummins 360 hp
- ▶ PULL UP FORCE  
25800 kgf
- ▶ PULL DOWN FORCE  
17700 kgf
- ▶ DRILL HEAD  
Torque: 6545 Nm ; Speed: 0 - 100 rpm
- ▶ ROD HANDLER  
EZ rod handler operated through  
wireless radio remote control
- ▶ ROD BIN\*  
32 rods x 6 m (192 m)
- ▶ SAMPLING SYSTEM\*
  - Fixed cone splitter
  - Rotary splitter
- ▶ BREAKOUT SYSTEM  
Swing in breakout system (SBS)
- ▶ AIR COMPRESSOR\*  
1200 cfm - 350 psi (24 bar) / 500 psi (35 bar)
- ▶ SURVEY WINCH  
450 m
- ▶ Built for mine safety standards
- ▶ Booster compressor compatible
- ▶ OPTIONAL
  - Wireless remote control for drilling operations
  - Centralized operator control panel



## PRD OZ RC

SURFACE MINERAL EXPLORATION  
Reverse Circulation Rig



- ▶ DRILLING CAPACITY  
250 m @ 140 mm ( 5 1/2" )  
Inclination: 45° - 90°
- ▶ POWER PACK  
Cummins 360 hp
- ▶ PULL UP FORCE  
16000 kgf
- ▶ PULL DOWN FORCE  
10800 kgf
- ▶ DRILL HEAD  
Torque: 4000 Nm ; Speed: 0 - 100 rpm
- ▶ ROD HANDLER  
EZ rod handler operated through  
wireless radio remote control
- ▶ ROD BIN\*  
32 rods x 6 m (192 m)
- ▶ SAMPLING SYSTEM\*
  - Fixed cone splitter
  - Rotary splitter
- ▶ ROD BREAKOUT SYSTEM  
Swing in breakout system (SBS)
- ▶ AIR COMPRESSOR\*  
1200 cfm - 350 psi (24 bar)  
1350 cfm - 350 psi (24 bar) / 425 psi (30 bar)
- ▶ SURVEY WINCH  
250 m
- ▶ Built for mine safety standards
- ▶ Booster compressor compatible
- ▶ OPTIONAL
  - Wireless remote control for drilling operations
  - Centralized operator control panel



## PRD GOLD RC

SURFACE MINERAL EXPLORATION  
Reverse Circulation Rig

## PRD AIR CORE 100

### SURFACE MINERAL EXPLORATION

#### Air Core

- ▶ DRILLING CAPACITY  
100 m @ 102 mm (4")  
Inclination: 45° - 90°
- ▶ POWER PACK  
Suitable deck engine
- ▶ PULL UP FORCE  
10000 kgf
- ▶ PULL DOWN FORCE  
7000 kgf
- ▶ DRILL HEAD  
Torque: 3000 Nm ; Speed: 0 - 100 rpm
- ▶ SAMPLING SYSTEM  
Fixed cone splitter
- ▶ ROD HANDLING  
Jib Boom
- ▶ DRILL ROD  
3½" (89 mm) OD of 3 m length REMET
- ▶ ROD BIN  
15 rods x 3 m (45 m)
- ▶ SURVEY WINCH  
Capacity: 0.5 ton  
Rope length: 100 m
- ▶ AIR COMPRESSOR  
575 cfm - 225 psi (16 bar)  
900 cfm - 350 psi (24 bar)
- ▶ MOUNTING OPTION  
Truck / Crawler
- ▶ Built for mine safety standards



- ▶ DRILLING CAPACITY  
BQ: 450 m, NQ: 300 m, HQ: 200 m, PQ: 100 m  
Inclination: 45° - 90°

- ▶ POWER PACK  
Cummins 102 hp

- ▶ TOP DRIVE DRILL HEAD

Gear Ratio	Torque (Nm)	Speed (rpm)
1 <sup>st</sup> Ratio	0 - 3074	0 - 112
2 <sup>nd</sup> Ratio	0 - 803	0 - 428
3 <sup>rd</sup> Ratio	0 - 330	0 - 1042

Floating spindle stroke: 65 mm

- ▶ WINCH  
Main winch: 3 ton  
Wireline winch: 1 ton
- ▶ FOOT CLAMP  
Hydraulic operated rod clamp has gripping range of PQ, HQ, NQ and BQ sizes
- ▶ WATER PUMP  
Displacement: 80 lpm  
Pressure: 750 psi
- ▶ OVERALL DIMENSION (in mm)  
L x B x H: 6815 x 2235 x 2410
- ▶ OPERATING WEIGHT  
8 ton
- ▶ Built for mine safety standards
- ▶ Wireless radio remote control for tramming



## PRD CORE 300

SURFACE MINERAL EXPLORATION  
Diamond Core

- ▶ DRILLING CAPACITY  
BQ: 950 m, NQ: 750 m, HQ: 450 m, PQ: 250 m  
Inclination: 45° - 90°
- ▶ POWER PACK  
Cummins 169 hp
- ▶ TOP DRIVE DRILL HEAD

Gear ratio	Torque (Nm)	Speed (rpm)
1 <sup>st</sup> Ratio	5100 - 3155	113 - 184
2 <sup>nd</sup> Ratio	2460 - 1509	237 - 386
3 <sup>rd</sup> Ratio	1335 - 819	436 - 711
4 <sup>th</sup> Ratio	776 - 476	750 - 1200
Floating spindle stroke: 75 mm		

- ▶ WINCH  
Main winch: 7 ton  
Wireline winch: 2 ton
- ▶ FOOT CLAMP  
Hydraulic operated rod clamp has gripping range of PQ, HQ, NQ and BQ sizes
- ▶ WATER PUMP  
Displacement: 140 lpm  
Pressure: 1000 psi
- ▶ OVERALL DIMENSION (in mm)  
L x B x H: 10200 x 2290 x 2580
- ▶ OPERATING WEIGHT  
11 ton
- ▶ Built for mine safety standards
- ▶ Wireless radio remote control for tramming



## PRD CORE 750

SURFACE MINERAL EXPLORATION  
Diamond Core

▶ DRILLING CAPACITY  
BQ: 1500 m, NQ: 1200 m, HQ: 800 m, PQ: 500 m  
Inclination: 45° - 90°

▶ POWER PACK  
Cummins 260 hp

▶ TOP DRIVE DRILL HEAD

Gear ratio	Torque (Nm)	Speed (rpm)
1 <sup>st</sup> Ratio	6500 - 3047	90 - 194
2 <sup>nd</sup> Ratio	3122 - 1457	189 - 406
3 <sup>rd</sup> Ratio	1694 - 790	349 - 748
4 <sup>th</sup> Ratio	985 - 460	600 - 1200
Floating spindle stroke: 75 mm		

▶ WINCH

Main winch: 10 ton  
Wireline winch: 2 ton

▶ FOOT CLAMP

Hydraulic operated rod clamp has gripping range of PQ, HQ, NQ and BQ sizes

▶ WATER PUMP

Displacement: 140 lpm  
Pressure: 1000 psi

▶ OVERALL DIMENSION (in mm)

L x B x H: 10200 x 2290 x 2580

▶ OPERATING WEIGHT

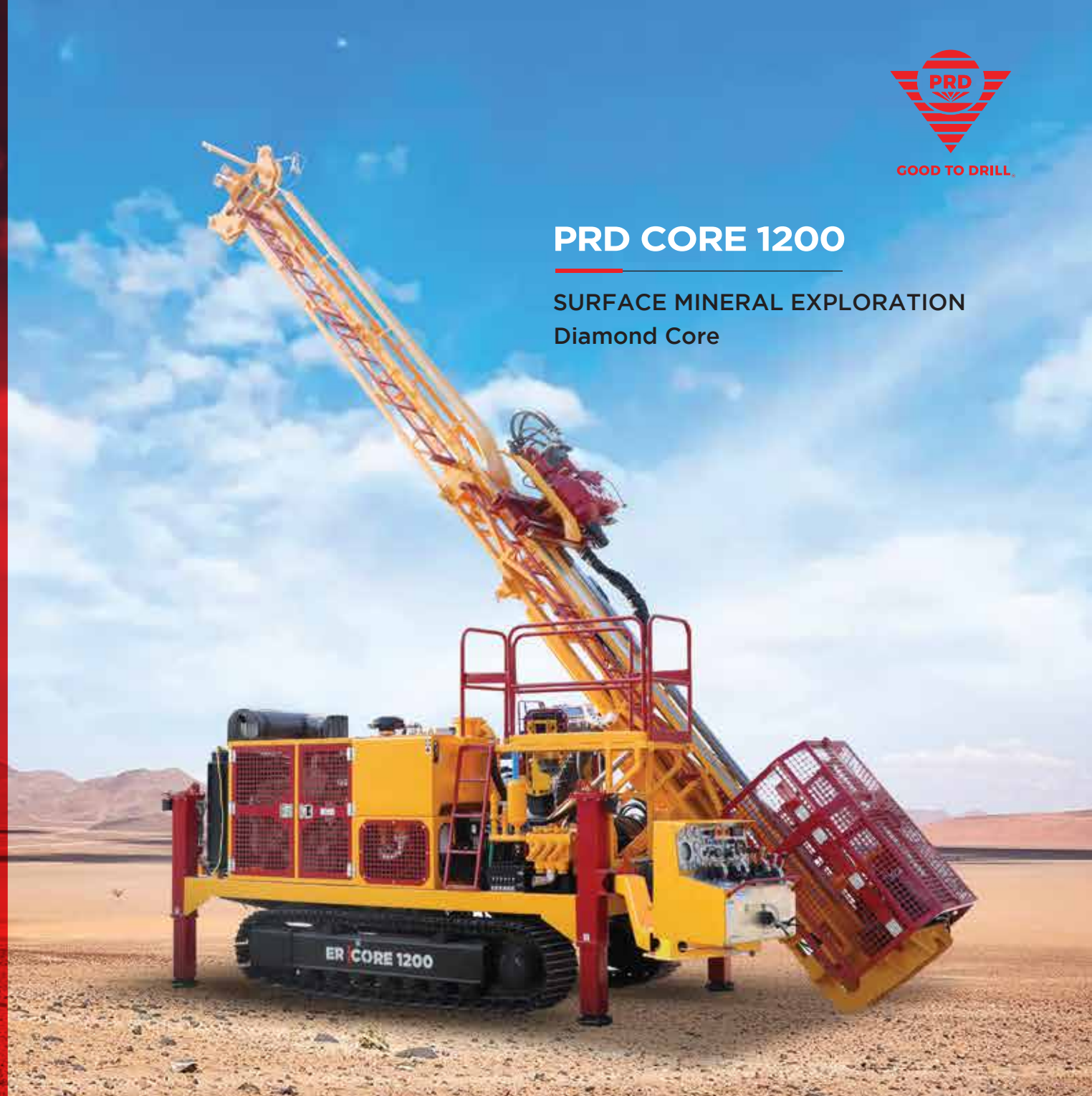
12 ton

▶ Built for mine safety standards

▶ Wireless radio remote control for tramming

## PRD CORE 1200

SURFACE MINERAL EXPLORATION  
Diamond Core



▶ DRILLING CAPACITY

Hole diameter: 100 - 200 mm (4" - 8")

Maximum depth: 24 m

Inclination: 60° - 90°

	6 m variant	10 m variant
Single pass depth	6 m	10 m
Rod handling	6 m	10 m
Rod carousel / Rod changer	3+1 = 24 m (6 m rod)	Single rod changer (3 m / 6 m)
Rod size	4½" OD (114 mm)	4½" OD (114 mm)

▶ 6 m VARIANT

Pull up force : 6500 kgf | Pull down force : 4500 kgf

▶ 10 m VARIANT

Pull up force / Pull down force : 6500 kgf

▶ ROTARY HEAD

Torque: 3800 Nm

Speed: 0 - 110 rpm

▶ BREAKOUT SYSTEM

Hydraulic operated swing-in and swing-out breakout system

▶ AIR COMPRESSOR

1100 cfm / 300 psi (21 bar)

575 cfm / 225 psi (16 bar)

▶ OPERATING WEIGHT

20 ton excavator

▶ Built for mine safety standards

▶ OPTIONAL ATTACHMENT

Dust collector



## PRD EX 65

### BLAST HOLE DRILL RIG DTH

- ▶ DRILLING CAPACITY  
Hole diameter: 100 - 152 mm (4" - 6")  
Maximum depth: 30 m  
Inclination: 60° - 90°
- ▶ SINGLE PASS DEPTH  
10 m
- ▶ PULL UP FORCE  
6500 kgf
- ▶ PULL DOWN FORCE  
6500 kgf
- ▶ ROTARY HEAD  
Torque: 3800 Nm  
Speed: 0 - 110 rpm Fine controlled
- ▶ BREAKOUT SYSTEM  
Hydraulic operated swing-in and  
swing-out breakout system
- ▶ ROD CHANGER  
Single rod changer
- ▶ AIR COMPRESSOR  
850 cfm / 290 psi (20 bar)  
575 cfm / 225 psi (16 bar)
- ▶ OPERATING WEIGHT  
20 ton excavator
- ▶ Built for mine safety standards
- ▶ OPTIONAL ATTACHMENT  
Dust collector

## **PRD EX 50**

### **BLAST HOLE DRILL RIG DTH**



- ▶ DRILLING CAPACITY  
Hole diameter: 165 - 203 mm (6½" - 8")  
Maximum depth: 37 m
- ▶ POWER PACK  
430 hp
- ▶ SINGLE PASS DEPTH  
9.1 m
- ▶ PULL DOWN FORCE  
13800 kgf
- ▶ DRILL HEAD  
Torque: 5000 Nm ; Speed: 0 - 140 rpm
- ▶ ROD CAROUSEL  
Hydraulic operated 3+1 rod carousel
- ▶ DRILL ROD SIZE  
4½" (114 mm) OD drill rod 7.6 m length (DTH)  
5" (125 mm) OD drill rod 9.1 m length (Rotary)
- ▶ DUST COLLECTOR  
Flow capacity: 2100 cfm
- ▶ AIR COMPRESSOR  
DTH: 900 cfm / 300 psi  
Rotary: 900 cfm / 110 psi
- ▶ DUAL TRAMMING SPEED  
1.5 km/h & 2.7 km/h  
Gradeability: 15°
- ▶ OPERATOR CABIN  
FOPS & HVAC cabin with all controls & gauges
- ▶ OPERATING WEIGHT  
33 ton
- ▶ Built for mine safety standards

## PRD BH 30 160

### BLAST HOLE RIG DTH or Rotary



- ▶ DRILLING CAPACITY  
Hole diameter: 150 - 250 mm (5.9" - 9.8")  
Maximum depth: 45 m
- ▶ POWER PACK  
Cummins KTTA - 19C  
Power: 550 - 652 hp
- ▶ ELECTRIC DRIVE (Optional)  
WEG 50 Hz or 60 Hz  
Crompton Greaves 50 Hz or 60 Hz
- ▶ SINGLE PASS DEPTH  
9.1 m
- ▶ PULL DOWN FORCE  
28000 kgf
- ▶ DRILL HEAD  
Torque: 9000 Nm ; Speed: 0 - 145 rpm
- ▶ ROD CAROUSEL  
Hydraulic operated 4+1 rod carousel
- ▶ DRILL ROD SIZE  
7" (178 mm) OD drill rod 9.1 m length (Rotary)
- ▶ DUST COLLECTOR  
Flow capacity: 4500 cfm
- ▶ AIR COMPRESSOR  
1200 cfm (Optional: 1600 cfm)  
High pressure: 350 psi  
Low pressure: 125 psi
- ▶ DUAL TRAMMING SPEED  
1.5 km/h & 2.7 km/h  
Gradeability: 15°
- ▶ OPERATOR CABIN  
FOPS & HVAC cabin with all controls & gauges
- ▶ OPERATING WEIGHT  
50 ton
- ▶ Sub arctic package (Optional)
- ▶ Built for mine safety standards

## PRD BH 45 250

**BLAST HOLE RIG**  
DTH or Rotary



- ▶ DRILLING CAPACITY  
Hole diameter: 165 - 711 mm (6½" - 28")  
Maximum depth: 1350 m @ 6½"  
Inclination: 60° - 90°
- ▶ POWER PACK  
430 hp
- ▶ PULL UP FORCE  
42200 kgf
- ▶ PULL DOWN FORCE  
18500 kgf
- ▶ DRILL HEAD  
Tilting drill head  
Torque: 13700 Nm ; Speed: 0 - 120 rpm
- ▶ CENTRALISER TABLE  
16" expandable upto 28"
- ▶ AIR COMRESSOR  
1200 cfm - 350 psi  
1350 cfm - 365 psi / 425 psi  
1500 cfm - 400 psi
- ▶ MUD PUMP  
10"x7" hydraulic driven duplex  
double acting piston mud pump
- ▶ MOUNTING OPTION  
8 x 4 Truck
- ▶ WINCH: 5 ton
- ▶ OVERALL DIMENSION (in mm)  
L x B x H: 12400 x 2800 x 4700
- ▶ OPERATING WEIGHT  
38 ton
- ▶ ROD & CASING HANDLING  
CATWALK ROD LOADER
- ▶ Built for mine safety standards



## **PRD MAX DRILL 4000**

**DEWATERING & MONITORING HOLES  
DTH and Rotary**



# PRD WEEPHOLE

HORIZONTAL DEWATERING  
DTH



- ▶ **DRILLING CAPACITY**  
Hole diameter: 127 - 203 mm (5" to 8")  
Maximum depth: 250 m  
Inclination: 0° to +6°
- ▶ **POWER PACK**  
180 hp
- ▶ **FEED IN FORCE**  
12600 kgf
- ▶ **FEED OUT FORCE**  
8700 kgf
- ▶ **DRILL HEAD**  
Torque: 5000 Nm ; Speed: 0 - 80 rpm
- ▶ **ROD BIN CAPACITY**  
33 rods x 3 m length (3 ½")
- ▶ **ROD HANDLING SYSTEM**  
Hands free rod handling system
- ▶ **AIR COMPRESSOR**  
1200 cfm @ 330 psi (24 bar)
- ▶ **OPERATOR CABIN**  
Centralized operator cabin with all controls & gauges
- ▶ **OVERALL DIMENSION (in mm)**  
L X B X H: 7200 x 2450 x 2750
- ▶ **OPERATING WEIGHT**  
13 ton
- ▶ **Wireless remote controls for drilling operations (Optional)**
- ▶ **Built for mine safety standards**

- ▶ **LOADING SPACE**  
7.3 m X 2.5 m
- ▶ **POWER PACK**  
130 hp engine
- ▶ **ROD BIN**  
Bin capacity: 30 rods x 6 m (180 m)  
Rod size: 4.5" of 6 m length
- ▶ **FUEL TANK (FUELING SYSTEM)**  
1200 L
- ▶ **LEVELLING JACKS**  
Outrigger jacks for easy loading / unloading
- ▶ **CRAWLER CAPACITY**  
30 ton  
TRAMMING SPEED :  
Single speed: 0.75 km/hr  
Double speed: 1.2 km/hr  
Gradeability: 30%  
Rubber track (Optional)
- ▶ **LOADING OPTION**
  - Crane
  - Drill rods
  - Compressor
  - Water bowser
  - Fuel tank
  - Booster
- ▶ **Tramming cabin**
- ▶ **Wireless remote control for tramming**



## PRD SUPPORT EQUIPMENT



▶ ROD BIN CAPACITY

NQ: 864 m	HQ: 546 m	PQ: 240 m
288 rods	182 rods	80 rods

- \*2000 m of drill pipes onboard
- \*Bin can be customized as per requirement

▶ ROD LOADER

- Handles both 3 m & 6 m rods
- Rods are handled by 3-axis gantry with hydraulic actuated magnetic grip

▶ LOADING ARM

Rod loading arm fitted on mast with dual clamp jaws and swing in/out 180°

▶ CONSOLE

- PLC for gantry auto-positioning
- Wireless radio remote for faster rod handling operations with 360° camera surveillance

▶ HYDRAULIC SYSTEM

- Rod loader powered by the rig hydraulic system
- Required flow & pressure: 50 lpm @ 210 bar

▶ SELF LOADING

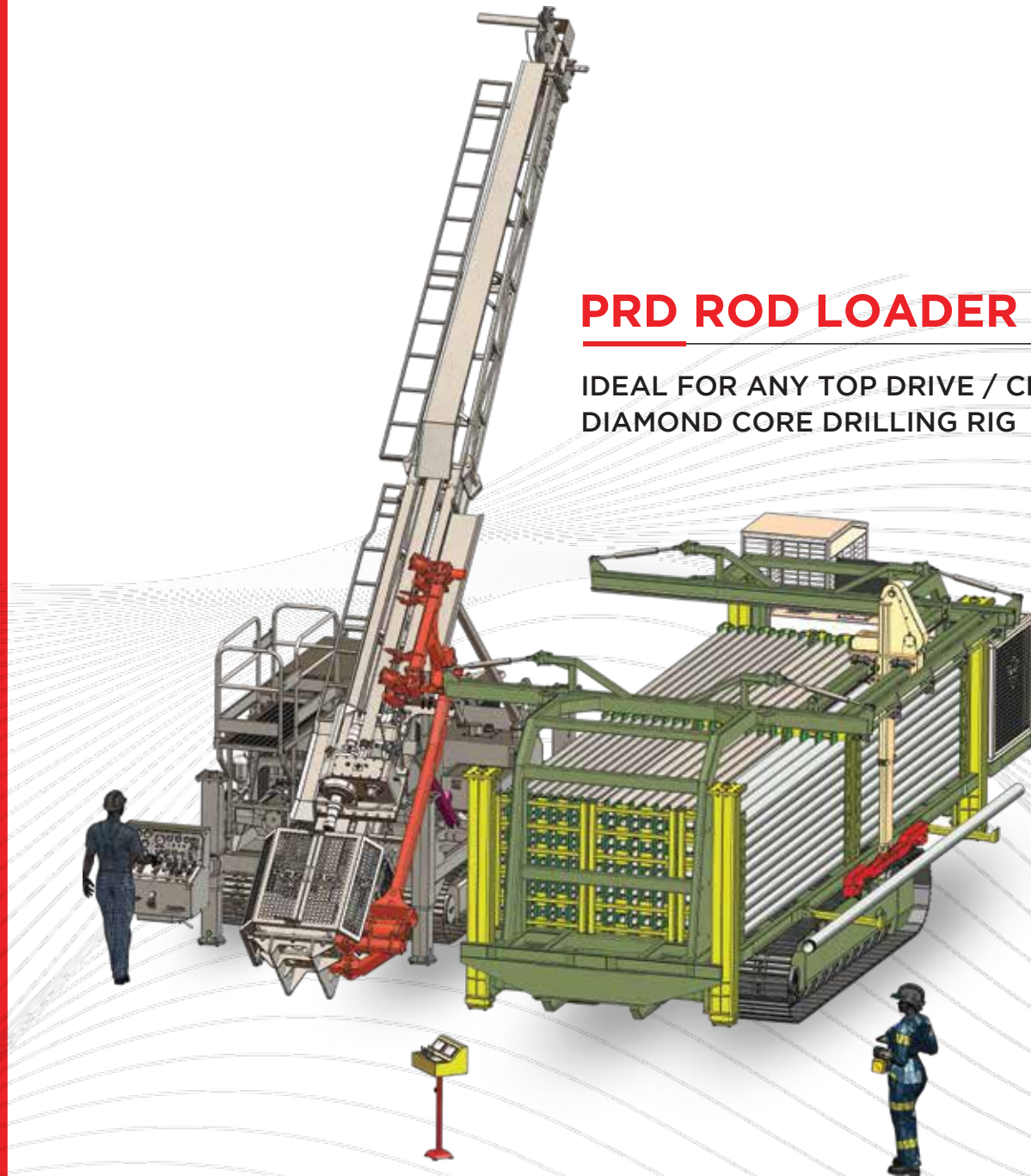
Telescopic outrigger jack to lift 1.3 m off the ground and powered by a separate deck engine

▶ ELECTRICAL SYSTEM

24V DC with PWM & ON/OFF outputs

## PRD ROD LOADER 2000

IDEAL FOR ANY TOP DRIVE / CHUCK DRIVE  
DIAMOND CORE DRILLING RIG



# AIR PACKAGE

## COMPRESSOR RANGE

Free air delivery	900 cfm - 1200 cfm
Pressure	350 psi - 508 psi
Mounting option	Skid platform / Crawler / Truck
Additional attachment	Hose reel, Fuel tank
Make	ELGI / Atlas Copco



## BOOSTER

Booster type	4 Cylinder, reciprocating
Configuration	INTEGRAL
Drive engine	Detroit diesel - 8V92T
Power	210 bhp @ 1800 rpm
Booster stages	1
Maximum suction pressure	350 psi ( 24 bar )
Maximum discharge pressure	1000 psi ( 69 bar )
Capacity at maximum suction pressure	1300 dm   37 m <sup>3</sup> /min   614 l/sec



# TOOLS & ACCESSORIES

## CORE ACCESSORIES



## RC ACCESSORIES



## DRILLING FLUIDS



# OUR GLOBAL PRESENCE



-  MANUFACTURING
-  SALES & SERVICE CENTERS
-  GLOBAL PRESENCE

## SALES & SERVICE CENTERS

-  Nairobi, Kenya
-  Conakry, Guinea
-  Kankan, Guinea
-  Bamako, Mali
-  Ouagadougou, Burkina Faso
-  Ja-Ela, Sri Lanka
-  Dar Es Salaam, Tanzania
-  Mwanza, Tanzania
-  Accra, Ghana
-  Riyadh, Saudi Arabia

Plot No. M8, M9, SIPCOT SEZ For Engineering Products,  
Perundurai - 638 052, Tamil Nadu, India.

+91 97866 88799 | [marketing@prdrigs.com](mailto:marketing@prdrigs.com) | [www.prdrigs.com](http://www.prdrigs.com)



**PARANTHAMAN  
EXPORTERS**  
GOOD TO DRILL®