



# UDR 1600D

The UDR range of exploration core drilling rigs consists of five different models, with N size drilling capacity ranging from 400 m to 2300 m in depth.

The Crawler Mounted UDR 1600D has been designed specifically for diamond coring in medium to deep drilling surface exploration application where site access limits the use of larger drills. The UDR 1600D's compact design combined with its self propelled crawler track drive system makes it an ideal choice for drilling operation in jungle or hilly terrain where the use of heavy trucks is difficult.

European grade hydraulics has been utilised for optimum efficiency. This combined with its heavy duty mast, sub structure and high output diesel power pack ensures outstanding drilling performance and reliability.

Safety is recognised as a key priority at UDR. Our standard offering includes purpose designed rod safety spin guards, driller's and offside's work platform.

The UDR1600D can easily be transported in 40 ft sea containers

#### UDR 1600D Features:

- Crawler mounted design
  - Cummins 6CTA diesel power plant - rated output @ 179 KW (2,200 RPM)
  - "P" chuck drive rotation head
  - Rotation Head - Max high speed rotation @ 1,200 RPM
  - B, N, H and P size chuck and rod clamp jaws
  - 3.5 metre feed stroke
  - 9 metre rod pulling capability
  - Rod Safety Spin Guards
  - Engine protection auto shut down system
- Maximum depth rating of 2000 metres in N size

(NOTE: Core drilling depth capacity's based on straight, vertical, clean drill holes. No allowance made to break core).



**COAL - MINERAL - OIL - CBM - GEOTHERMAL - BLASTHOLE**



# PT. Dunggio Drilling

## Drilling Contractor Services

### DATA SHEET

### UDR1600D

Power unit		
Manufacturer	Cummins	
Model	Cummins 6CTA8.3	
Engine Power @ 2200 RPM	269 KW	351 hp
Diesel Type	Turbo Charged	

Rotation head - P chuck drive, hydraulic open, spring close		
Feed Force	50 kN	11 240 lbf
Pull Force	189 kN	42 490 lbf
Max Torque	5500 Nm	4045 ft/lbf
Max rotation, rpm	1200 rpm	
Feed Stroke	3500 mm	138 in
Max inside diameter	117 mm	4.6 in
Gear Box	4 shifts	
Ratio	Spindle speed, rpm	
1st	138-190	
2nd	277-378	
3rd	495-675	
4th	866-1200	

Hydraulic System		
Working Pressure	28 Mpa	4060 psi
Cooling	Air Cooled	

Mast		
2 sections, hydraulic powered life/down, with mast dump		
Length	13 m	39 ft
Drilling Angle	45° to 90°	
Mast Dump	1100 mm	43.3 in
Rod Pulling Length	9 m	27 ft

Wireline Winch		
Max pull, bare drum	11 kN	2470 lbf
Pulling speed, bare drum	120 m/min	394 ft/min
Rope diameter/length	6.6 mm/1500 m	0.26 in / 4920 ft

Main Host		
Max Pull, bare drum	135 kN	30 350 lbf
Pulling speed bare drum	40 m/min (low) 80 m/min (high)	131 ft/min 262 ft/min
Rope diameter/length	22 mm/35 m	0.87 in / 115 ft

Rod Clamp		
Jaw sizes		B, N, H, P

Water Pump		
Max Flow	320 L/min	84.5 USgal/min
Max Pressure	10 MPa	1450 psi

Track		
Track pad width	400 mm	15.8 in
Max up hill angle	30°	
Haul Capacity	100 kN	22 480 lbf

Weight		
Total weight	11 000 kg	24 250 lb

Shipping Dimension		
5250 x 2320 x 2600 mm	207 x 91.4 x 102 in	

Depth Capacity		
B	2200 m	7216 ft
N	2000 m	6560 ft
H	1500 m	4920 ft
P	1000 m	3280 ft

(NOTE: Core drilling depth capacity's based on straight, vertical, clean drill holes. Not allowance to break core)

**COAL - MINERAL - CBM - GEOTHERMAL - WATERWELL - BLASTHOLE DRILLING**

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