

Best Solution for Every Exploration Drilling site.



HANJIN D&B
Drilling Equipments Co., Ltd.

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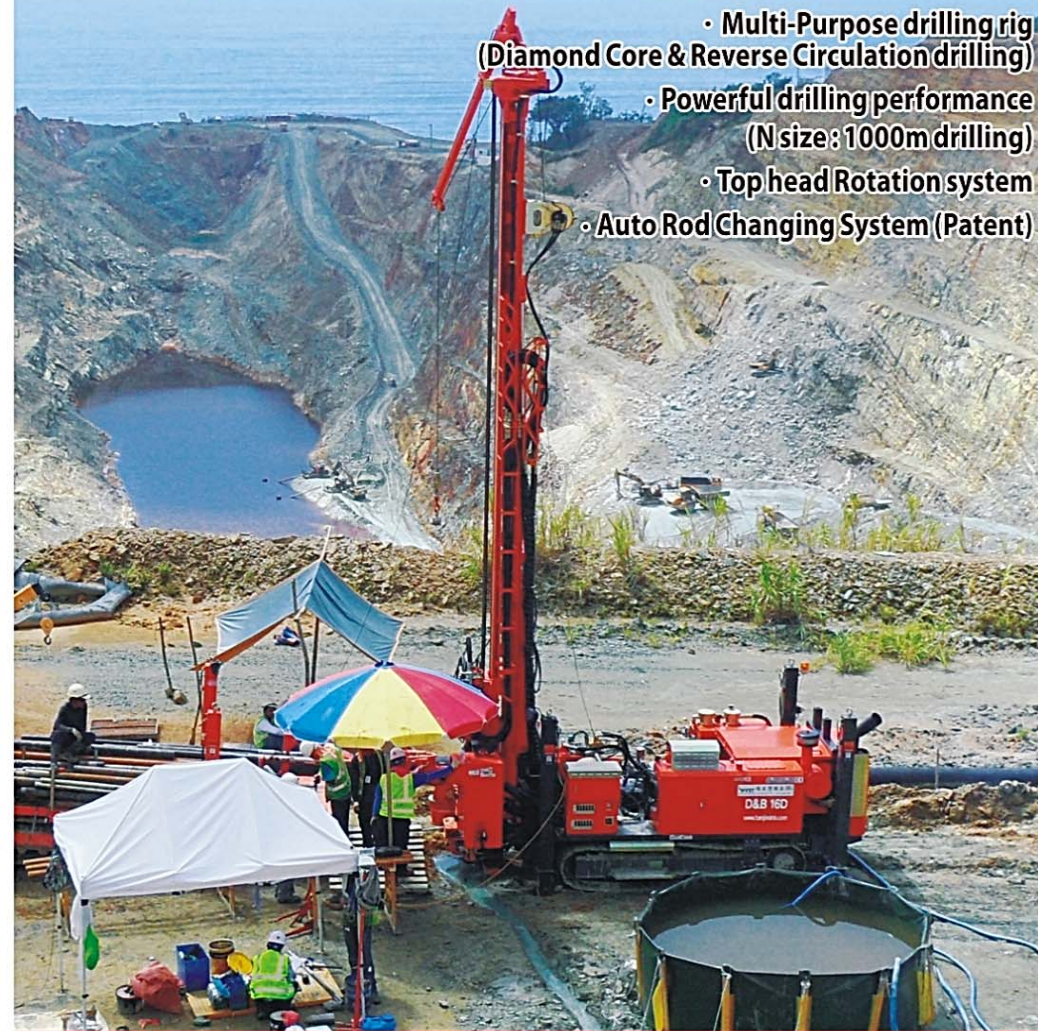
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Multi-Purpose Drilling Rig **D&B-16Multi**(Power6000SDRC)

- Multi-Purpose drilling rig
(Diamond Core & Reverse Circulation drilling)
- Powerful drilling performance
(Nsize: 1000m drilling)
- Top head Rotation system
- Auto Rod Changing System (Patent)



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Why D&B Exploration Drilling Rigs?

• World best quality products

Manufacturing high technology same as Water hammer, Sonic drill development.

• High technical Know-how

Producing more than 3000 rigs in the last 24 years

• Experience for Worldwide market

UK, Germany, Portugal, France, Italy, Czech, Slovakia, Greece, Romania, Kosovo, Hungary, Russia, Iraq, Qatar, Australia, New Zealand, Chile, Peru, Mexico, USA, Taiwan, Philippine, Indonesia, Malaysia, Singapore, HongKong, Mongolia, S Kazakhstan, South Africa, Congo, Mozambique, Sierra Leone, Tanzania, SUDAN, Ethiopia, Egypt, etc

• Management

Fast delivery time & Easy maintenance system

D&B's Other Products

R/C Hammer & Bits



- High drilling speed
- Long life time
- Special bit design

Water Hammer



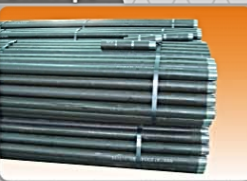
- Deep hole drilling (5000m)
- Water pressure control system
- Water recycling system

DTH Air Hammer



- Powerful drilling speed
- Low air consumption system
- Special D&B design

Drill Pipe



- R/C drill pipe
- Waterwell
- Core drill pipe (B, N, H, P size)

Sonic Drill



- Full hyd. system (Patent)
- Max. Vibration hammering (Max. 1800VPM)
- Constant amplitude

Compressor/Double Compressor



- Less fuel consumption (Max. 10%)
- Special products for R/C drilling (Double compressor)

Rod Carrier



- Multi-Purpose transport car
- Max. climbing degree 30%
- Model : 7CR, 10CR, 15CR, 25CR
- Rod Loader (Option)

Mud Pump



- Full hydraulic drive system
- Compact size design
- Model : 300, 800, 1200, 1500

Multi-Purpose Drilling Rig D&B-16 Multi

1. Powerful drilling
2. Top head rotation system
3. Unique Jib Crane : Useful angle drilling & casing handling.
4. Unique hydraulic drive Mud pump (Variable volume control)
5. Reverse Circulation drilling : 400m drilling (5 inch)
6. Wire / Wireless Remote control system (Option)
7. Rod Loader / Easy drill pipe changing system (Option)
8. Truck mounted type is available (Option)

D&B-16 Multi Key Components

Mud Pump



- Full Hydraulic drive system
- Unique D&B design & Made
- Variable volume control
- Low maintenance cost

Jib Crane



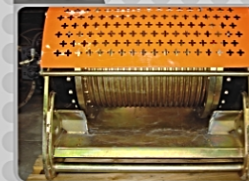
- Safe & easy operating
- Special D&B design & Made
- Powerful working

Rotary Head



- Strong rotation power
- Special D&B design & Made
- Top head rotation system
- Low maintenance cost
- Special air swivel design

Winch



- Strong power
- Special D&B design & Made
- Speed control system

Self Loading Jack



- Crawler type only
- Special D&B design & Made
- Easy transport system

Cyclone & Splitter(option)



- D&B's own technology
- Convenience of work
- Effective works

Rod Handler



- Convenience of work
- D&B's own technology
- Effective works

Wire Line



- Strong power
- Special D&B design & Made
- Speed control system

Worldwide Site

South Africa



South Africa



India



Turkey



Chile



Congo



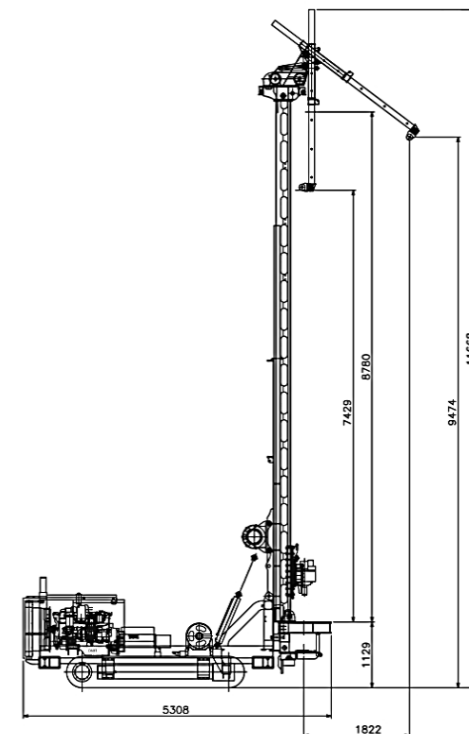
Mongolia



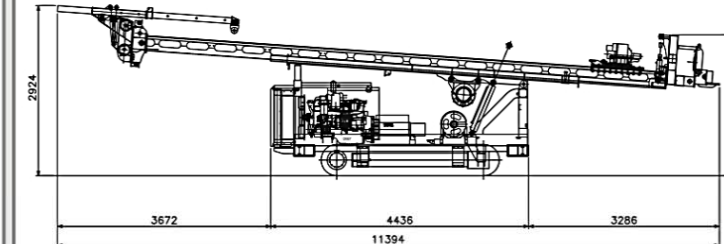
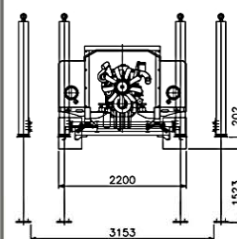
Philippines



Dimensions



Transport Dimension



		D&B-16D	D&B-16 Multi
DIMENSIONS & WEIGHT			
OA length-transport	M	11.4	11.4
OA width	M	2.2	2.2
OA height-transport	M	2.9	2.9
OA height-mast up	M	12	12
Weight without drilling accessories	Ton	10	10
ENGINE			
Model(Diesel engine)		HYUNDAI D6BT	HYUNDAI D6BT
Cylinder		6	6
Rated power at 1800rpm	HP	180	180
Fuel capacity	ℓ	310	310
Cooling system		water cooling	water cooling
TOP HEAD ROTATION			
Model		Gearbox 800	Gearbox 800
Reduction		Super gear - 4.35 to 1	Super gear - 4.35 to 1
Performance		two motor(Std)	two motor(Std)
Max. RPM/Torque (1st)	rpm/kNm.kg-m	1,100~700 / 70~50	1,100~700 / 95~178
Max. RPM/Torque (2nd)	rpm/kNm.kg-m	700~450 / 93~140	636~450 / 150~280
Max. RPM/Torque (3rd)	rpm/kNm.kg-m	0~100 / 0~420	470~327 / 205~390
GEAR BOX SLIDING			
Travel	mm	350	350
FEED SYSTEM			
Top head driven by hydraulic cylinders through heavy duty chain.			
Traverse cylinder	mm x mm x mm	120 x 90 x 3,500	120 x 90 x 3,500
Head travel(1st)	m	7.0	7.0
Dump mast/up	m	0.5	0.5
Dump mast/Down	m	1.5	1.5
Pull-up capacity	ton	16ton	16ton
Pull-down capacity	ton	8ton	8ton
Feed speed -down (variable)	m/min	0~10	0~10
Fast feed speed - up (variable)	m/min	30	30
Fast feed speed -down (variable)	m/min	35	35
WORKING TABLE			
Max. casing diameter	"	10	10
HYDRAULIC CLAMP			
Single / Double Clamp	inch	10 / 6	10 / 6
CRAWLER BASE			
Undercarrige		Solar 55	Solar 55
Travelling speed	km/h	4	4
Ground pressure	N/cm ² , kg / cm ²	5, 0.5	5, 0.5
Ground clearance	mm	400	400
Track shoes		3-web track shoes	3-web track shoes
Traction force	kN	3,970	3,970
Length of crawler units	mm	6,480	6,480
Climbing capacity Max.	%/degree	25°	25°
JIB CRANE			
Extension	mm	1,790	1,790
Loading Capacity	Max. Kgs	150-250	150-250
Turn	degree	80	80
SELF LOADING (Hydraulic 4 Jacks)			
Ground clearance	mm	1,523	1,523
HYDRAULIC OUTRIGGER JACKS		Four hydraulic outriggers are fitted to the outer corners of the rig for easy and accurate levelling of the rig.	

		D&B-16D	D&B-16 Multi
DRILL PIPE BREAKOUT			
Torque break-out	ton	4	4
WINCH			
Spool capacity		30M of 14mm cable	30M of 14mm cable
Line pull	Ton	10	10
HYDRAULIC SYSTEM			
System		4pump open loop	4pump open loop
Hydraulic oil tank capacity	ℓ	212	212
Filtration	micron	10	10
Pump model		H3V112 x 2+H3V63S+Pilot	H3V112 x 2+H3V63S+Pilot
Cooling system		Air cooling	Air cooling
Operating pressure	bar	280	280
Operating condition at job site	-30° ~ +45°	-30° ~ +45°	-30° ~ +45°
Flow rate 1st circuit	ℓ / min	200	200
Flow rate 2nd circuit	ℓ / min	200	200
Flow rate 3rd circuit	ℓ / min	63	63
Flow rate 4th circuit	ℓ / min	63	63
LIGHT & ELECTRICAL SYSTEM 24V			
One - on top of control facing up mast			
Two - on top of mast casing down			
one: to work table area			
one: back to drill deck			
One - in control console for night operation			
CONTROL PANEL		All controls gauges are grouped at the operator's station within sight of the borehole.	
DRILL PIPE & CASING			
Max. Length	m	6	6
WATER INJECTION PUMP			
(High pressure washing pump)	ℓ / min, bar	60/35	60/35
LUBRICATION			
	ℓ / min	20	20
WIRE LINE		2000M of 6mm	2000M of 8mm
OPTION			
1. Compressor	psi/cfm	350/500	350/500
2. Mud Pump			
Model		D&B-300MP/D&B-FMC Pump	D&B-300MP/D&B-FMC Pump
Valve		steel ball type	steel ball type
2. Welder			
Hyd. Motor Drive		250 Amp.DC	250 Amp.DC
3. Rod handling system			
4. Remote control for tramming			
- Wireless			
Drilling Performance			
Tricon drilling		4"~14", Max. 1,000M	4"~14", Max. 1,000M
DTH drilling		4"~14", Max. 1,000M	4"~14", Max. 1,000M
P size drilling	m	300	300
H size drilling	m	500	500
N size drilling	m	1000	1000
B size drilling	m	1300	1300
Notice			
Above drilling depth will be changed by job-site & working Condition.			