Best Solution for Every Exploration Drilling site.











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Distributed by

Multi-Purpose Drilling Rig
D&B-16Multi

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



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01

Why D&B
Exploration Drilling Rigs?

- ***World best quality products***
  Manufacturing high technolgy 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, Philipine, Indonesia, Malaysia, Singapore, HongKong, Mongolia, S Kazakhstan, South Africa, Congo, Mozambique, Sierra Lone, Tanzania, SUDAN, Ethiopia, Egypt, etc
- ***Management***
  Fast delivery time & Easy maintenance system

02

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's Other Products

R/C Hammer & Bits



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

Sonic Drill



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

Water Hammer



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

Compressor/Double Compressor



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

DTH Air Hammer



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

Rod Carrier



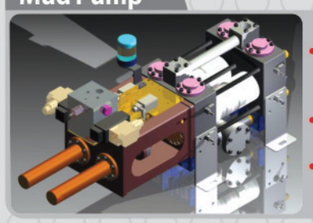
- Multi-Purpose transport car
- Max. climbing degree 30%
- Model : 7CR, 10CR 15CR, 25CR
- Rod Loader(Option)

Drill Pipe



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

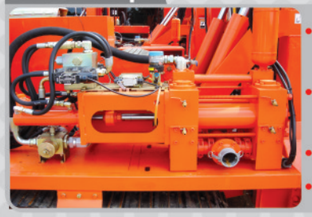
Mud Pump



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

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



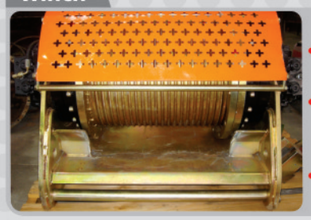
- Safe & easy operating
- Special D&B design & Made
- Powerful working

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 & Spliter(option)



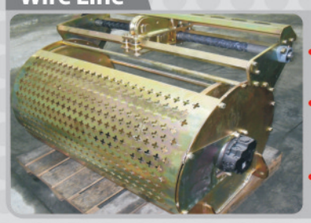
- D&B's own technology
- Convenience of work
- Effective works

Rod Handler



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

Wire Line



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

Site Story

Worldwide Site

South Africa



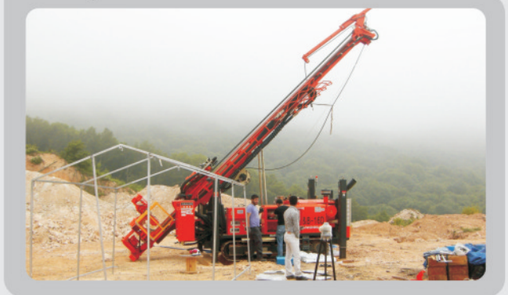
South Africa



India



Turkey



Chile



Congo



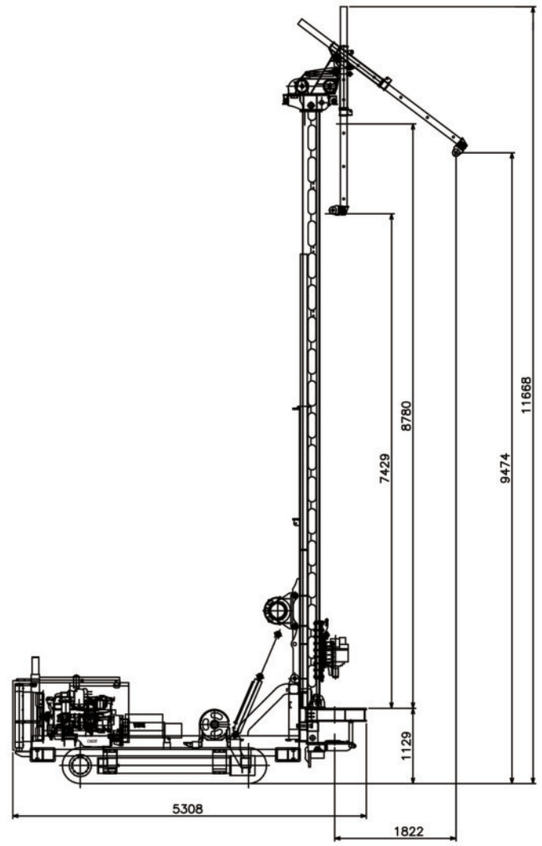
Mongolia



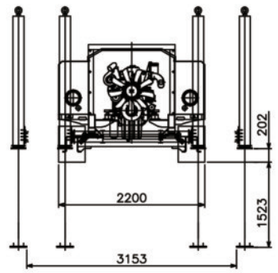
Philippines

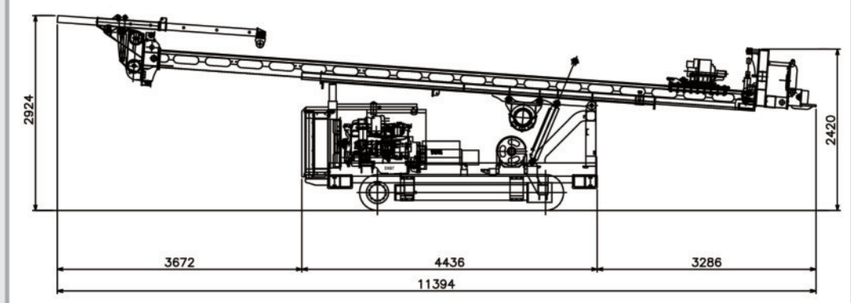


Dimensions



Transport Dimension





Technical Data Sheet

		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	11	11
ENGINE			
Model(Disel 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			
Traval	mm	350	350
FEED SYSTEM			
Top head driven by hydraulic cylinders throught 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	inch	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/㎠, kg / ㎠	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 8mm	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			
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 wll be changed by job-site & working Condition.