

BD Drill

DRILL RIGS

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Black Diamond Drilling Services Australia Pty Ltd



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FULL HYDRAULIC MULTIFUNCTION DRILLING RIG PARAMETERS

Parameter	Type	
	H J G – M165	H J G – M311
Aperture	140~180mm	203~311mm
Drilling depth	24m	24m
Adaptive rock	$f \geq 8$	
Rotation torque	4000Nm	6000Nm
Rotary speed	0~60rpm	0~40rpm
Thrust capacity	40kN	75kN
Feed stroke	4380mm	4380mm
Lifting speed	0.5m/s	0.3m/s
Hammer model	HD65	HD85/HD110
Drill rod diameter	110mm	146mm
Drill rod length	4m x 6	4m x 6
Travel speed	2.5Km/h 3km/h	2.5Km/h 3km/h
Grade ability	25°	25°
Rising height from ground	450mm	450mm
Wind pressure	1.38~3.2Mpa	1.38~3.2Mpa
Air consumption	$\geq 25\text{m}^3/\text{min}$	$\geq 28\text{m}^3/\text{min}$
Engine power	75kW	93kW
Dimension	Length x Width x Height	
On transportation	9000x2900x3400mm	9000x2900x3400mm
On working condition	7700x2900x7800mm	7700x2900x7800mm
Gross weight	17T	18T

CRAWLER HYDRAULIC WELLS-GEOTHERMAL DRILLING RIG PARAMETERS

Parameter	Type		
	H J G – W830C	H J G – W830A	H J G – W850A
Aperture	105~311mm	105~311mm	130~350mm
Drilling depth	300m	300m	500m
Cylinder legs	Common legs	High legs	High legs
Adaptive rock	$f \geq 8$		
Rotation torque	4000Nm	3450Nm 6900Nm	4250Nm 8500Nm
Rotary speed	0~100rpm	0~110rpm 0~55rpm	0~180rpm 0~90rpm
Thrust capacity	60kN	60kN	60kN
Feed stroke	3700mm	3700mm	5300mm
Lifting capacity	120kN	120kN	200kN
Hammer model	HD45/HD55/HD65	HD45/HD55/HD65	HD65/HD85/HN10
Drill rod diameter	76mm, 89mm	76mm, 89mm	89mm, 102mm
Drill rod length	3m	3m	4.5m
Travel speed	2.5Km/h	2.5Km/h	3.2Km/h
Grade ability	21°	21°	21°
Rising height from ground	300mm	300mm	300mm
Wind pressure	1.05~2.46Mpa	1.05~2.46Mpa	1.05~3.5Mpa
Air consumption	$\geq 18\text{m}^3/\text{min}$	$\geq 18\text{m}^3/\text{min}$	$\geq 25\text{m}^3/\text{min}$
Engine power	93kW	93kW	132kW
Dimension	Length x Width x Height		
On transportation	5800x2210x2850mm	5800x2210x2850mm	8085x2250x3200mm
On working condition	4920x2210x6700mm	4700x2210x6700mm	5498x2250x8941mm
Gross weight	8.8T	9.5T	12.5T

HYDRAULIC OPEN-AIR BLAST HOLE DRILLING RIG PARAMETERS

Parameter	Type	
	H J G – B138	H J G – B168
Aperture	90~152mm	105~180mm
Drilling depth	30m	30m
Adaptive rock	f \geq 8	
Rotation torque	3000Nm	4000Nm
Rotary speed	0~72rpm	
Thrust capacity	32kN	32kN
Feed stroke	4000mm	4000mm
Lifting capacity	32kN	32kN
Lifting speed	0.5m/s	0.5m/s
Hammer model	HD45/HD55	HD65/HD85
Drill rod diameter	76mm, 89mm	89mm, 114mm
Travel speed	2.5Km/h 3.8km/h	2.5Km/h 3.8km/h
Grade ability	30°	30°
Wind pressure	1.05~2.46Mpa	1.38~2.46Mpa
Air consumption	\geq 18m ³ /min	\geq 21m ³ /min
Engine power	75kW	75kW
Dimension	Length x Width x Height	
On transportation	6170x2150x2480mm	6170x2150x2480mm
On working condition	4360x2150x5380mm	4360x2150x5380mm
Gross weight	6.5T	6.8T

INTEGRATED HYDRAULIC DTH DRILLING RIG PARAMETERS

Parameter	Type	
	H J G – D120	H J G – D165
Aperture	90~150mm	152~180mm
Drilling depth	28m	28m
Adaptive rock	$f \geq 8$	
Rotation torque	3000Nm	4000Nm
Rotary speed	10~100rpm	10~100rpm
Thrust capacity	35kN	40kN
Feed stroke	4380mm	4380mm
Lifting speed	0.8m/s	0.8m/s
Hammer model	HD45/HD55	HD55/HD65
Drill rod diameter	89mm, 102mm	102mm, 114mm
Drill rod length	4m	4m
Travel speed	2.5Km/h 3km/h	2.5Km/h 3km/h
Grade ability	25°	25°
Rising height from the ground	430mm	430mm
Wind pressure	1.7Mpa	2.4Mpa
Air consumption	$\geq 17\text{m}^3/\text{min}$	$\geq 25\text{m}^3/\text{min}$
Engine power	287kW	332kW
Dimension	Length x Width x Height	
On transportation	11000x2500x3280mm	11550x2716x3400mm
On working condition	7800x2500x8410mm	7920x2716x8410mm
Gross weight	15.5T	23T