

DL3-b Long Hole Drilling Rig



1. Technical parameters of DL3-b Long hole drilling rig

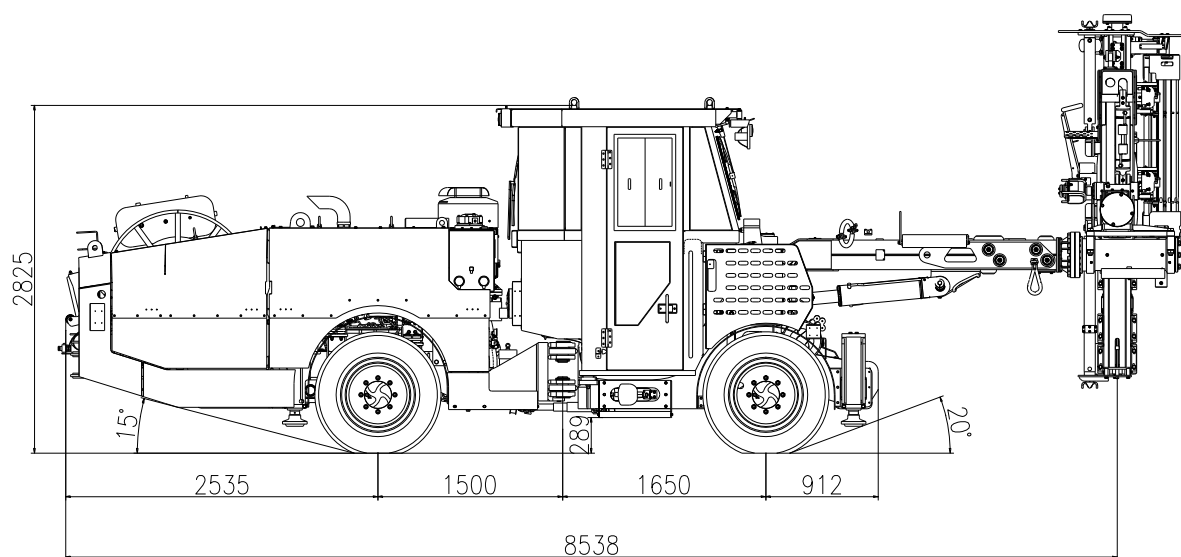
No.	Technical Items	Technical Datas				
1	Thruster Model					
	Model	TF18A-4B	TF18A-5B	TF18A-6B	TF18A-3B	Remarks
1.1	Overall length	2730	3035	3340	3645	
1.2	Length of drill pipe mm	915	1220	1525	1830	
1.3	Push force KN	15	15	15	15	
1.4	Pole storage capacity	10+1/14+1	10+1	10+1	10+1	
1.5	Drilling depth mm	9.8/13.5	13.2	16.5	23	
1.6	Hole diameter mm	64-76	64-76	64-76	64-76	
1.7	Overall length	2730	3035	3340	3645	
Note: T45 threaded propeller 90mm longer overall length, hole diameter 76-89, rod magazine capacity 9+1						
2	Drill arm and positioning					
2.1	Drill extension	1200mm				
2.2	Thrust compensation	800mm				
2.3	Push beam flip	360°				
2.4	Push beam rear centre travel	1000 mm				
2.5	Push beam front centre travel	600 mm				
Note:Beam positioning: digital display						
3	Air compressor system					
3.1	Type/Brand of air compressor	Screw / Wuyang Said				
3.2	Drive Type	Motor				
3.3	Maximum Displacement	3500 L/min				
3.4	Working Pressure	0.8 MPa				
4	Water System					
4.1	Type/Brand/Model	Nanfang				
4.2	Drive Type	Motor				
4.3	Maximum Flow Rate	50 L/min				
4.4	Maximum Working Pressure	8-12 bar				
5	Control System					
5.1	Electro-hydraulic control system					
5.2	Function: Anti-jamming					
6	Electrical system					
6.1	Total Installed Power	98.5 kW				
6.2	Main Motor Power	1 × 75 kW				
6.3	Voltage	380 V-1000V				
6.4	Frequency	50 Hz/60Hz				
6.5	Starting Method	Star/Delta starter				
6.6	Motor thermal overload protection					
6.7	Shock Timing					
6.8	Digital voltage/ammeter (on electric control box)					
6.9	Phase sequence indication					

6.10	Battery charger	600 W, 24 V	
6.11	Transformer	1500VA	
6.12	Cable reel capacity	90 m	
7	Hydraulic system		
7.1	Hydraulic pumps for impact, positioning and propulsion		
7.2	Hydraulic pump for rotating		
7.3	Oil pump unloading start		
7.4	Maximum system pressure	230bar	
7.5	Hydraulic tank volume	170L	
7.6	Low oil level indicator with shutdown function		
7.7	Oil temperature gauge in tank, temperature switch		
7.8	Filtration accuracy	10μ	
7.9	Oil filtration indicator		
7.10	Stainless steel hydraulic oil water cooler		
7.11	Electric oil filling pump		
7.12	Hydraulic oil heating	No	
7.13	Diesel fuel heating	No	
7.14	Mineral-based hydraulic oil		
8	Chassis		
8.1	Engine	Cummins QSB4.5-C130-30	Tier III
8.2	Rated power	97kW@2200rpm	
8.3	Torque	600Nm	
8.4	Swivelling seat with seat belt		
8.5	Articulated steering angle	± 40°	
8.6	Four-wheel drive		
8.7	Hydrostatic power steering		
8.8	Hydrodynamic transmission		
8.9	Enclosed cab	Yes	
8.10	Front axle	Dana 112	
8.11	Rear axle	Dana 112, swing 2×7°	
8.12	Tyres	9.00R20NHS	
8.13	Departure angle	16°	
8.14	Approach angle	21°	
8.15	Hydraulic front outriggers	2 with cross extension	
8.16	Hydraulic rear outriggers	2	
8.17	Travelling Brake	Hydraulic brake, spring release, wet	
8.18	Emergency and parking brake	Spring-applied, hydraulically released	
8.19	Fuel tank volume	80L	
8.20	Electrical system voltage	24V	
8.21	Battery	2x12V, 70Ah	
8.22	Driving lights	8x56W	
8.23	Brake light	Yes	
8.24	Rear outline light	Yes	

8.25	Exhaust catalytic converter/silencer					
8.26	Fire extinguisher	Yes				
8.27	Angle Ruler	Yes				
8.28	Maximum Climbing Capacity	14°				
8.29	Travelling speed	14Km/h				
8.30	Horn, warning light and reversing alarm					
9	Optional equipment					
9.1	Rock Drill	22kw/25kw				
9.2	Grease machine, grease reel	Yes				
9.3	Car wash water reel	Yes				
9.4	Automatic fire extinguishing	No				
9.5	Automatic lubrication system	Yes				
9.6	Water tanks	No				
9.7	Heating Systems	No				
9.8	Others					
9.9	PDI	Yes				
9.10	CCTV Video system	Yes				
9.11	Closed cab	Yes				
10	Cable specification					
10.1	Voltage		Specification	Length m		
10.2	380V		3*95+3*50/3	90		

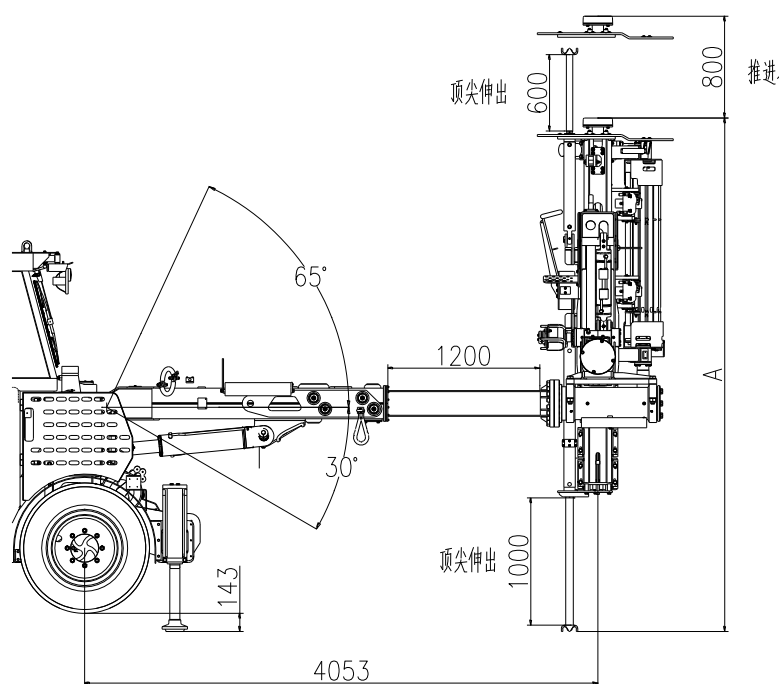
Overall Dimension View

Main view



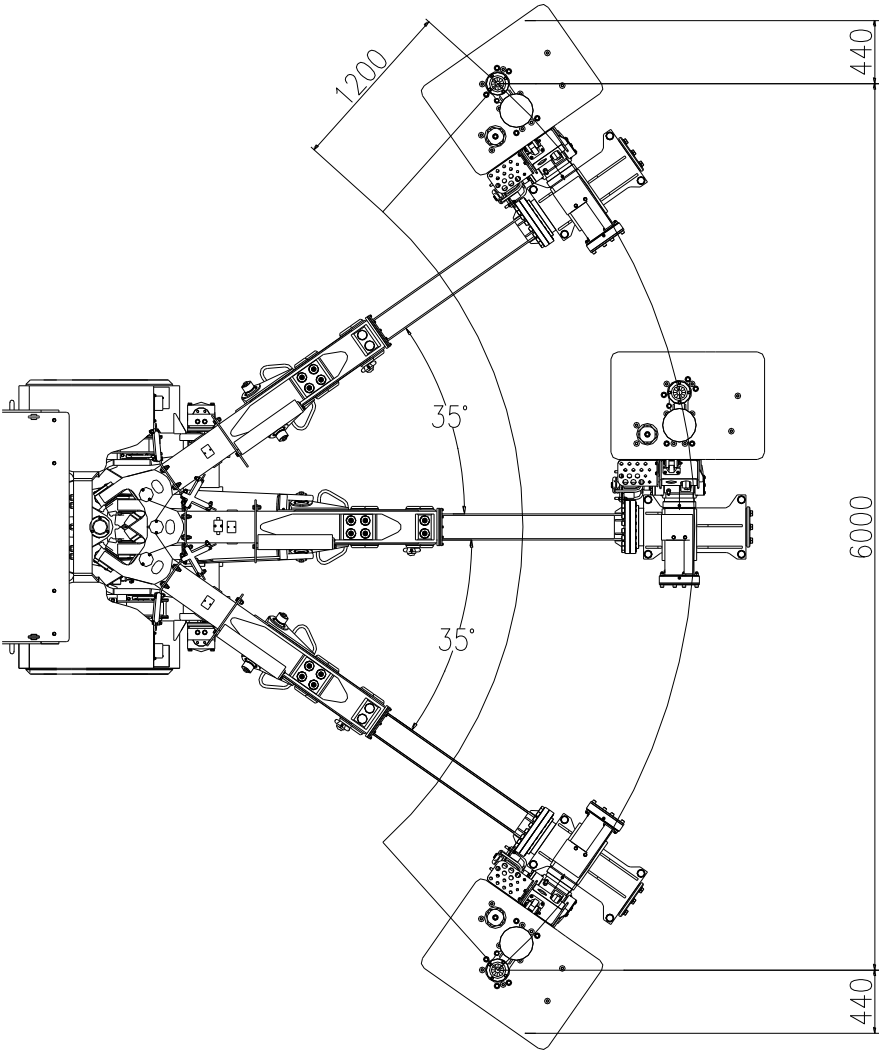
Overall Dimensions	
L x W x H mm	10121/2050/2825
Ground clearance mm	280
Gross Weight Kg	15600
Turning radius mm	3523/6358
Travelling speed Km/h	14

Coverage view

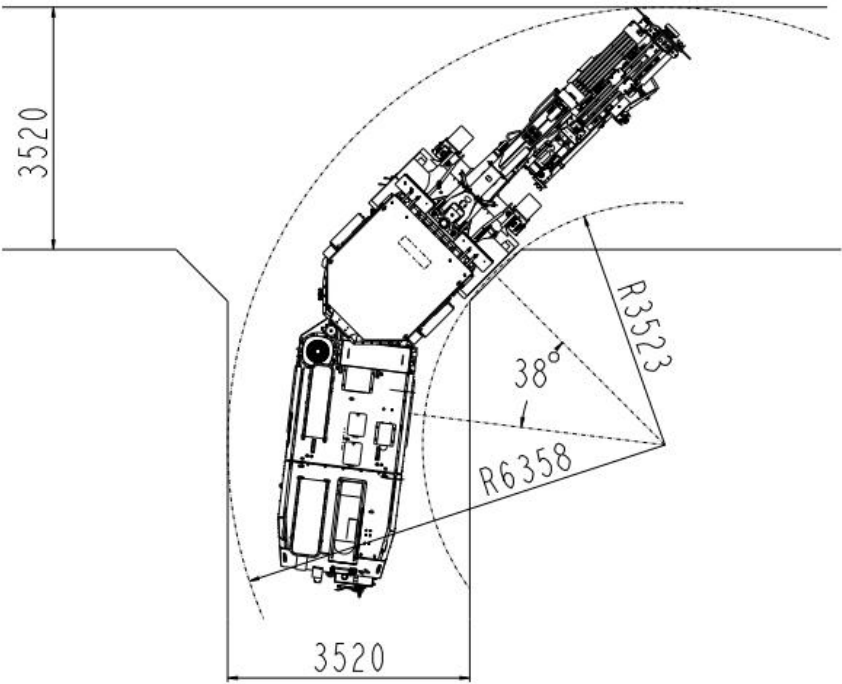


Drill pipe length (mm)	A(max)
915	3730
1220	4035
1525	4340
1830	4645

Note: The front section of the propeller is held against the rock and the front tip retracts. If the front tip extends, the reach is greater



Turning Radius View



Main Configuration Table

Name	Model/Description
Piston pump	Rexroth
Gear pump / duplex gear pump	Permco
Rock Drill Control Valves	Norma
Cartridge Valve Block	SUN
Rock Drill	Woserld
Main Motor	Nanjing Control
Main Multi-Circuit Valve	Norma / Walford / Oil Power
Two-way brake valves	Mico
Screw Cylinder	Liansheng
Cylinder	Hengli/Dahong/Taijin
Engine	Cummins, 97KW, 4-cylinder turbocharged diesel engine, Tier III
Drive Axle	Dana
Tyre	Forward tyres
Air compressor	Wuyo
Water Pump	Nanfang/Kaiquan