



Self-Propelled Hydraulic Drilling Rig



Shandong Beyond Petroleum Equipment Co., Ltd



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Rotary Drilling Rig BYD-LR80



Design Features

- ★ Piling Rig manufactured with design parameters considering hard formation working conditions.
- ★ Easy handling & easy maintenance
- ★ Economical solution with high productivity for small diameter piles with low investment.
- ★ Easy transport with Kelly bar on a single trailer.
- ★ Compact design & small swing radius enable superior performance in restricted space
- ★ Dozer blade attachment for sundry site work.
- ★ High powered turbo-charged Cummins engine.
- ★ World class PLC with compatible instruments & displays.
- ★ Reliable hydraulic system powered by Longking/Kawasaki main pump.
- ★ Optimal rotary drive with Rexroth hydraulic motors & gearbox

Technical Specifications

Rotary Drive (dual-motor, Brand: Rexroth)	
Torque Output	80KN.M
Rotary Speed	6-35 r/min
Crowd System	
Maximum Crowd Push	80KN
Maximum Crowd Pull	120 KN
Cylinder Stroke	2500 mm
Maximum Working Pressure	30 Mpa
Pilot Pressure	4 Mpa
Main Winch (Brand: Rexroth)	
Line Pull	120 KN
Line Speed	45m/min
Rope Diameter	24mm
Auxiliary Winch (Brand: Longgong)	
Line Pull	20 KN
Line Speed	60m/min
Rope Diameter	14mm
Engine	
Engine Make	Cummins
Model	QSB5.9-C210-30
Power	154KW
Emission Standard	EU Stage 3A
Maximum Torque	624 N.m
Undercarriage	
Crawler Width (retracted/extended)	2600mm (open 3400mm)
Track Shoes Width	600mm
Maximum Travel Speed	5 km/h
General	
Main Pump Brand	KAWASAKI(Korea)
Max. Drilling Diameter	1000 mm
Drilling Depth	21m
Tail Swing Radius	7200 mm
Operating Height	10800 mm
Operating Weight	19000kgs
Mast Inclination	90°/4°/4°
Hydraulic Tank Capacity	200L
Diesel Tank Capacity	200L
Dimension (L*W*H)(mm)	11000*2650*3350

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Rotary Drilling Rig BYD-LR100

Design Features

- ★ Piling Rig manufactured with design parameters considering hard formation working conditions.
- ★ Easy handling & easy maintenance
- ★ Economical solution with high productivity for small diameter piles with low investment.
- ★ Easy transport with Kelly bar on a single trailer.
- ★ Compact design & small swing radius enable superior performance in restricted space
- ★ Dozer blade attachment for sundry site work.
- ★ High powered turbo-charged Cummins engine.
- ★ World class PLC with compatible instruments & displays.
- ★ Reliable hydraulic system powered by Longking/Kawasaki main pump.
- ★ Optimal rotary drive with Rexroth hydraulic motors & gearbox

Technical Specifications

Rotary Drive (dual-motor, Brand: Rexroth)	
Torque Output	100KN.M
Rotary Speed	6-35 r/min
Crowd System	
Maximum Crowd Push	80KN
Maximum Crowd Pull	120 KN
Cylinder Stroke	2500 mm
Maximum Working Pressure	30 Mpa
Pilot Pressure	4 Mpa
Main Winch (Brand: Ningbo Donghu-China)	
Line Pull	120 KN
Line Speed	45m/min
Rope Diameter	24mm
Auxiliary Winch (Brand: China Made)	
Line Pull	20 KN
Line Speed	50m/min
Rope Diameter	12mm
Engine	
Engine Make	Cummins (water-cooling, turbo-charge)
Model	QSB5.9-C210-30
Power	154KW
Emission Standard	EU Stage 3A
Maximum Torque	820 N.m
Undercarriage	Telescopic type
Crawler Width	2800 mm (open 3600mm)
Track Shoes Width	600mm
Maximum Travel Speed	5 km/h
General	
Main Pump Brand	KAWASAKI (Korea)
Max. Drilling Diameter	1200 mm
Drilling Depth	25 m (7.2m/pcs*4)
Square Head	150*150mm
Tail Swing Radius	3600 mm
Operating Height	12800 mm
Operating Weight	23000kgs
Mast Inclination (Backward/Forward/Lateral)	90°/4°/4°
Hydraulic Tank Capacity	200L
Diesel Tank Capacity	200L
Driver's Cabin	Full Protection
Operation Mode	Electric Control
Dimension (L*W*H)(mm)	11000*2800*3450

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Rotary Drilling Rig BYD-LR130

Design Features

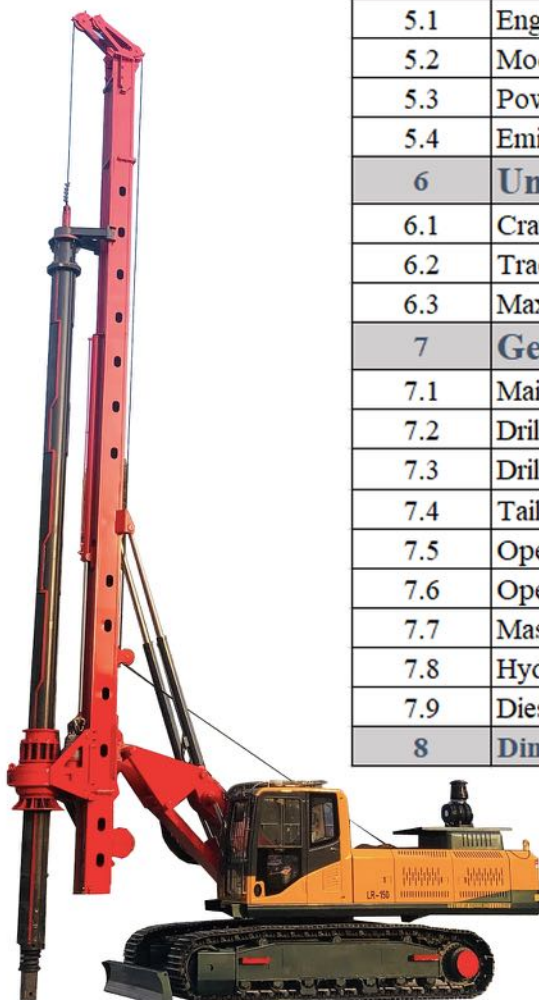
- ★ Piling Rig manufactured with design parameters considering hard formation working conditions.
- ★ Easy handling & easy maintenance
- ★ Economical solution with high productivity for small diameter piles with low investment.
- ★ Easy transport with Kelly bar on a single trailer.
- ★ Compact design & small swing radius enable superior performance in restricted space
- ★ Dozer blade attachment for sundry site work.
- ★ High powered turbo-charged Cummins engine.
- ★ World class PLC with compatible instruments & displays.
- ★ Reliable hydraulic system powered by Longking/Kawasaki main pump.
- ★ Optimal rotary drive with Rexroth hydraulic motors & gearbox

Technical Specifications

Rotary Drive (dual-motor, Brand: Rexroth)	
Torque Output	130KN.M
Rotary Speed	6-35 r/min
Crowd System	
Maximum Crowd Push	100 KN
Maximum Crowd Pull	130 KN
Cylinder Stroke	2500 mm
Maximum Working Pressure	28 Mpa
Pilot Pressure	4 Mpa
Main Winch (Brand: Rexroth)	
Line Pull	150 KN
Line Speed	72m/min
Rope Diameter	26 mm
Auxiliary Winch (Brand: Rexroth)	
Line Pull	40 KN
Line Speed	60m/min
Rope Diameter	14 mm
Engine	
Engine Make	Cummins
Model	QSB5.9-C210-30
Power	154kw@2200rpm
Emission Standard	EU Stage 3A
Maximum Torque	820 N.m/1400rpm
Undercarriage	
Crawler Width (Telescopic)	2800 mm (open 3600mm)
Track Shoes Width	600 mm
Maximum Travel Speed	5 km/h
General	
Main Pump Brand	KAWASAKI/LONGKING
Drilling Diameter	450-1200 mm
Drilling Depth	30 m
Tail Swing Radius	3600 mm
Operating Height	12200 mm
Operating Weight	29000kgs
Mast Inclination (Backward/Forward/Lateral)	90°/4°/4°
Hydraulic Tank Capacity	200L
Diesel Tank Capacity	200L
Dimension (L*W*H)(mm)	11500*2800*3550

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Technical Spec for BYD-LR150 Rotary Drilling Rig--40M		
1	Rotary Drive (dual-motor, Brand: Rexroth)	
1.1	Torque Output	150KN.M
1.2	Rotary Speed	5-30 r/min
2	Crowd System	
2.1	Maximum Crowd Push	120 KN
2.2	Maximum Crowd Pull	130 KN
2.3	Cylinder Stroke	3500 mm
2.4	Maximum Working Pressure	32Mpa
2.5	Pilot Pressure	4 Mpa
3	Main Winch (Brand: Rexroth)	
3.1	Line Pull	160 KN
3.2	Line Speed	62m/min
3.3	Rope Diameter	24mm
4	Auxiliary Winch (Brand: Longgong)	
4.1	Line Pull	80 KN
4.2	Line Speed	80m/min
4.3	Rope Diameter	16 mm
5	Engine	
5.1	Engine Make	Cummins
5.2	Model	QSB7-C169
5.3	Power	169kw/2050r/min
5.4	Emission Standard	EU Stage 3A
6	Undercarriage Telescopic	
6.1	Crawler Width (Telescopic)	3000 mm (open 3800mm)
6.2	Track Shoes Width	600 mm
6.3	Maximum Travel Speed	5 km/h
7	General	
7.1	Main Pump Brand	KAWASAKI(Korea)
7.2	Drilling Diameter	500-1500 mm
7.3	Drilling Depth	40m (11m/pcs*4)
7.4	Tail Swing Radius	4200 mm
7.5	Operating Height	16500 mm
7.6	Operating Weight	41000kg
7.7	Mast Inclination (Backward/Forward/Lateral)	90°/4°/4°
7.8	Hydraulic Tank Capacity	240L
7.9	Diesel Tank Capacity	240L
8	Dimension(L*W*H) (mm)	
		14000*3000*3800



Rotary Drilling Rig BYD-LR150

Shandong Beyond Petroleum Equipment Co., Ltd



LR-130 Piling Rig Shipped for Mumbai, Indian Customer

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