

Specifications

Superstructure

Power device

Model: QSL—9 diesel engine

imported from Cummins

Type: water-cooled, direct fuel injection, with turbocharger actuator

Displacement: 8.9L

Rated power: 209kw/2000 rpm

Maximum torque:

1300N.m/1500rpm

Capacity of fuel box: 200L

Capacity of hydraulic oil box: 500L

Hydraulic system

The system adopts variable displacement double main pump, slewing pump, oil filling pump, servo pump, cooling pump and M7-LUDV multi-circuit valve. The pump system is superior to valve control. The system can realize compound action: travel, derricking, slewing and lifting. The oil cooler functions well. Slewing is controlled independently and all lifting devices are also controlled independently.

Electric monitor system

The electric monitor displays the values and has the function of troubleshooting. It is controlled by CAN-BUS.

Main /aux. hoisting device

The main and aux. hoisting devices are driven by piston motor through reduction gear. The brake type: wet, disc and closed brake

Main hoisting device

Drum: the diameter ϕ 610mm

The diameter of wire rope: ϕ 26mm

Length of wire rope 285m

Maximum rope speed: 116m/min

Aux. hoisting device

Drum: the diameter ϕ 610mm

Diameter of wire rope: ϕ 26mm

Length of wire rope: 210m

Maximum rope speed: 116m/min

Boom derricking system

The planetary reduction gear drives hydraulic piston motor with variable displacement. The brake is often closed.

Drum: diameter ϕ 440mm

Diameter of wire rope: ϕ 20mm

Length of wire rope: 230m

Maximum rope speed: 54m/min

Dragrope drum

Diameter of wire rope: ϕ 10mm

Length of wire rope: 200m

Slewing system

The slewing system can be turned by 360° . There are two motors in the system. The planetary reduction gear drives the gear teeth.

Slewing speed: 0-1.96r/min

Four pins are locked

Cabin

The outside of cabin is painted well.

The length of the cabin is 920mm.

The front window is inclined and the posts are designed with the cross section with high strength. There are air-conditioner, heater, rear view mirror, wiper, stereos and fire extinguisher in the cabin. The electric monitor and moment limiter with large screen are in the cabin. The seat can be adjusted.

Counterweight

The tray of counterweight is welded. Its weight is 4.3t: the total weight of counterweight is 40t. The counterweight consists of 4×7.5 t blocks and 5.7t cast iron. The counterweight is suspending for the convenience of installation and disassembly.

Undercarriage

Lower frame X-type structure welded with steel plate which has high strength. The Lower frame connects side frames with drive pins for convenience of installation and disassembly. It has features: beautiful appearance and good torsion-resistance.

Track roller Each side has 11 track rollers. All track rollers are equipped with bushings, seals and lubricating oil.

Jack-up cylinders The four hydraulic jack-up cylinders are connected with the beam.

Track shoe The left and right crawlers have 110 track shoes. The width of the track shoe is 1015mm. The tension state of track shoe can be adjusted by the hydraulic jack until the adjusting plate has the ideal position.

The Crawler drive The independent hydraulic driving system is inside the crawler frame. Every hydraulic driving system has a hydraulic motor. The hydraulic motor and planetary reduction gear in the crawler frame can not exceed the width of the track shoe.

Travel speed 0.9~1.3 km/h

Grade ability 30%(17°)

Working Equipments

The main steel pipe with high strength is imported. The derricking device adopts the pendant rope to improve the efficiency.

Main boom The insert section has the equal cross section. The top and the foot have the variable cross sections. The boom is the lattice structure welded with steel pipes. Standard boom: 16-73m

Fixed jib combination Two kinds of angles between main boom and fixed jib: 10° and 30° . Main boom and fixed jib: main boom 40-61m, fixed jib 13m-25m.

Luffing jib When mounted with luffing jib, main boom has four kinds of angle: 88° , 75° , 65° , 45° . The length of main boom is 34m-49m.

The angle of luffing jib is from 15° to 78° ; the length of luffing jib is 19m-46m. Maximum length of main boom plus luffing jib: 49m+28m, 46m+46m.

Light duty boom combination Light duty boom: Main boom 35+12m (tapered section)+luffing jib 34.5m=81.5m.

工况符号

The symbols of working conditions



标准主臂工况
Standard Boom



加长主臂工况
Runner



轻型组合臂工况
Light Duty Boom



固定副臂工况
Fixed jib



塔式工况
Luffing jib



固定副臂工况载荷表

Load Chart (Fixed jib)



40m-61m



10°
13m-25m



360°



40t

m	40			46			52			58			61			m
	13	19	25	13	19	25	13	19	25	13	19	25	13	19	25	
14	13.2															14
16	13	9.2		13.1			13.3									16
18	12.7	9	6.3	12.9	9.1		13	9.2		13.2			12.8			18
20	12.4	8.8	6.2	12.6	8.9	6.3	12.4	9	6.3	11.7	9.1		11.4	9.2		20
22	12.2	8.6	6	11.3	8.7	6.1	11.1	8.9	6.2	10.5	9	6.3	10.1	9	6.3	22
24	12	8.4	5.8	10.1	8.5	5.9	10	8.7	6.1	9.4	8.8	6.1	9.1	8.9	6.2	24
26	11.6	8.2	5.7	9.6	8.4	5.8	9.1	8.5	5.9	8.5	8.6	6	8.2	8.3	6.1	26
28	10.4	8	5.5	8.8	8.2	5.7	8.3	8.3	5.8	7.8	7.8	5.9	7.5	7.5	5.9	28
30	9.4	7.8	5.4	8.1	8	5.5	7.6	7.6	5.6	7.1	7.1	5.8	6.8	6.9	5.8	30
32	8.5	7.7	5.2	7.5	7.5	5.4	7	7	5.5	6.5	6.6	5.6	6.2	6.3	5.7	32
34	7.8	7.3	5.1	6.8	6.9	5.3	6.4	6.5	5.4	6	6	5.5	5.7	5.8	5.6	34
36	7.1	7	5	6.3	6.4	5.1	5.9	6	5.6	5.5	5.6	5.4	5.2	5.3	5.3	36
38	6.5	6.8	4.9	5.7	6	5	5.4	5.6	5.2	5.1	5.2	5.1	4.8	4.9	4.9	38
40	6	6.3	4.7	5.3	5.5	4.9	5	5.2	5.1	4.7	4.8	4.8	4.3	4.5	4.5	40
42	5.5	5.8	4.6	4.9	5.1	4.8	4.6	4.8	4.7	4.3	4.4	4.4	4	4.2	4.2	42
44	4.7	5.4	4.5	4.4	4.6	4.7	4.2	4.4	4.5	4	4.1	4.1	3.8	3.9	3.9	44
46	4.4	5	4.4	4.1	4.2	4.5	3.8	4.1	4.2	3.6	3.8	3.8	3.5	3.6	3.6	46
48	4	4.6	4.3	3.8	3.9	4.1	3.5	3.7	3.9	3.3	3.5	3.6	3.1	3.3	3.4	48
50	3.8	4.3	4	3.5	3.6	3.9	3.2	3.5	3.6	3	3.2	3.3	2.9	3.1	3.1	50
52		4	3.9	3.3	3.4	3.6	3	3.2	3.3	2.8	3	3.1	2.6	2.8	2.9	52
54		3.7	3.8	3	3.2	3.3	2.7	2.9	3.1	2.5	2.7	2.9	2.3	2.6	2.7	54
56		3.5	3.6		3	3.1	2.5	2.7	2.8	2.3	2.5	2.6	2.1	2.3	2.5	56
58			3.4		2.8	2.9	2.3	2.5	2.6	2.1	2.3	2.4	1.9	2.1	2.3	58
60			3.2		2.6	2.7	2.1	2.3	2.4	1.9	2.1	2.2	1.7	1.9	2.1	60
62			2.9			2.5		2.1	2.2	1.7	1.9	2	1.5	1.7	1.9	62
64						2.3		1.9	2.1	1.5	1.7	1.8	1.4	1.6	1.7	64
66						2.2		1.8	1.9	1.4	1.5	1.7	1.2	1.4	1.5	66
68									1.7		1.4	1.5	1	1.2	1.4	68



40m-61m



30°
13m-25m



360°



40t

m	40			46			52			58			61			m
	13	19	25	13	19	25	13	19	25	13	19	25	13	19	25	
18	11.5															18
20	11.4			11.5			11.5									20
22	11.3	7.6		11.4			11.4			11.1			10.8			22
24	11.2	7.5		11.1	7.6		10.5	7.6		10			9.7			24
26	10.5	7.4	4.9	10	7.5		9.5	7.5		9	7.6		8.8	7.5		26
28	9.6	7.3	4.8	9.2	7.4	4.8	8.7	7.4	4.9	8.2	7.5		7.9	7.5		28
30	8.7	7.2	4.7	8.4	7.3	4.8	7.9	7.3	4.8	7.5	7.4	4.9	7.2	7	4.9	30
32	7.9	7.1	4.6	7.8	7.2	4.7	7.3	7.2	4.7	6.9	7	4.8	6.6	6.7	4.8	32
34	7.3	7	4.5	7.1	7.1	4.6	6.7	6.9	4.7	6.3	6.5	4.7	6.1	6.3	4.7	34
36	6.7	6.9	4.4	6.5	6.8	4.5	6.2	6.4	4.6	5.8	6	4.6	5.6	5.8	4.7	36
38	6.1	6.4	4.4	5.9	6.3	4.4	5.7	5.9	4.5	5.4	5.6	4.6	5.1	5.4	4.6	38
40	5.6	5.9	4.3	5.5	5.8	4.4	5.2	5.5	4.4	4.9	5.2	4.5	4.7	4.9	4.5	40
42		5.5	4.2	5	5.3	4.3	4.8	5.1	4.4	4.6	4.8	4.5	4.4	4.6	4.5	42
44		5.1	4.2	4.6	4.9	4.3	4.4	4.7	4.3	4.2	4.4	4.4	4	4.2	4.4	44
46		4.7	4.1		4.5	4.2	4	4.3	4.3	3.8	4.1	4.3	3.7	3.9	4.1	46
48			4.1		4.2	4.4	3.7	4	4.2	3.5	3.8	4	3.3	3.6	3.8	48
50			4		3.9	4.1	3.4	3.7	3.9	3.2	3.5	3.7	3	3.4	3.5	50
52			4			3.8		3.4	3.6	2.9	3.2	3.4	2.8	3.1	3.3	52
54						3.5		3.1	3.3	2.6	2.9	3.2	2.5	2.8	3	54
56						3.3			3.1	2.7	2.9	2.9	2.2	2.5	2.8	56
58									2.8		2.4	2.7		2.3	2.5	58
60									2.6			2.4		2.1	2.3	60
62												2.2		2.1	2.1	62
64												2		1.9	1.9	64
66														1.7	1.7	66

固定副臂工况作业范围

Working Range (Fixed jib)

