

# QUY120

## 液压履带式起重机

HYDRAULIC CRAWLER CRANE



抚顺挖掘机制造有限责任公司

FUSHUN EXCAVATOR CORPORATION LTD.

# QUY120

## 液压履带式起重机

HYDRAULIC CRAWLER CRANE

- 充分吸收国外的先进技术,外形美观,工作环境舒适优雅。底座与履带架由动力销和固定销共同连接。主、副提升,变幅机构采用内藏式减速机马达。平台上部机罩为半开放式,便于观察与维护。
- 动力部分采用的是美国康明斯公司生产的 QSL-9 电控中冷型发动机。主要液压件均采用博士力士乐进口件。最大起重能力 120 吨。主臂长度为 16-76 米,同时有加长臂,固定副臂,塔臂等多种臂架供用户选择。
- 广泛用于交通、能源、水利、土木工程和军事工程等方面。
- 开创了国内液压履带式起重机同机型发展的新时代。
- QUY120 Hydraulic Crawler Crane is researched and developed independently on the basis of sucking in foreign advanced technology. It has handsome outline, advanced structure, comfortable and graceful working environment. Undercarriage and side frames are connected combining with drive pins and fixed pins. The internal-mounted reducers are applied on the main hoist, auxiliary hoist and boom hoist devices. Semi-open hood on the platform is convenient for inspecting and maintaining.
- Power unit equipped on this machine adopts Cummins QSL-9 electric control inter-cooling engine which is made in USA. Imported main hydraulic components from Rexroth, Bosch Group. Max. lifting capacity is 120 tons. Main boom length is from 16m to 76m. Aux. jib, fixed jib, tower jib and light boom are optional for the customers.
- This machine is widely used in transportation, energy sources, water conservancy, construction and military affairs project.
- It creates a new age of the same kind of hydraulic crawler crane development in China.







QUY120

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中国·抚挖

危险  
作业时禁止靠近



# 功能简介

## Function brief introduction

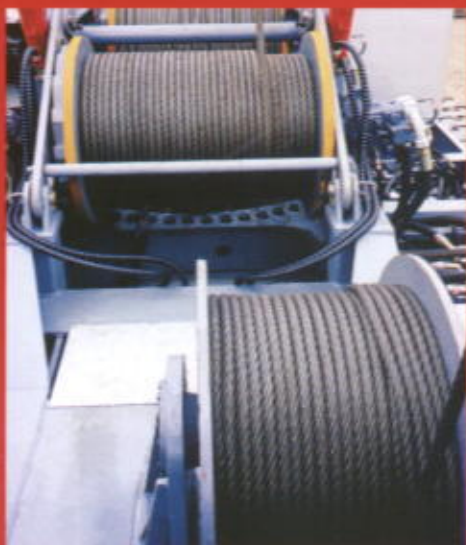
- 发动机是美国康明斯公司生产的 QSL-9 电控中冷发动机, 功率 209KW, 转速 2000rpm, 该发动机的特点是: 体积小、马力大、满足非公路用车欧洲第 3 阶段排放标准要求。

QSL-9 engine is manufactured by Cummins USA. It is electric control inter cooling engine with output power of 209kw and speed of 2000rpm. The characteristics of this engine are compact structure and excellent power. It can reach to Euro II standard for Off-Highway vehicle.



- 主卷扬、副卷扬及变幅机构均采用内藏减速机, 常闭免维护型制动器。

Main hoisting winch, auxiliary hoisting winch and boom hoisting winch are all equipped with internal-mounted reducers and normal-closed free-maintenance brakes.



- 主、副卷扬均采用折线式绳槽卷筒和变量马达驱动, 绳速高, 微速性能好, 与平台采用挂式连接。

Main hoisting winch and auxiliary hoisting winch are Lebus type drove by variable displacement motor with high rope speed and excellent performance of slow speed. They are connected to the platform with pins.

- 平台的布置采用半开式走台的方式, 便于用户观察与维修。

Half-opened platform is convenient for inspection and maintenance.



- 底座与履带架采用铰接式结构, 由动力销和固定销共同连接。动力销由油缸驱动, 便于安装和拆卸。行走减速机机构采用内藏减速机和马达, 通过性好。

Undercarriage and side frames connection are hinge joint type. They are connected with drive pins which driven by cylinders and fixed pins. Propelling structure is equipped with internal mounted reducer and motor with excellent passing performance.

- 液压系统是开式回路, A8VO140 主泵, A6VE160、A2FE80 马达, M7 阀, A6 负荷传感控制。

Open type hydraulic system. A8VO140 main pump, A6VE160/A2FE80 motor, M7 main valve. Load sense control.

- 回转系统是闭式的, 操纵阀直接控制变量泵的摆角, 运行平稳, 微速性能好。

Close type swing system. Control valve controls the angle of variable pump directly with a smooth running and excellent slow speed.







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危险  
注意安全



# 操作舒适

Comfortable operation

- 提供美观和舒适的工作空间。
- 扩大了前方视野。
- 采用了扶手椅式控制手柄，能够以舒适的姿势进行操作。
- 配置了空调装置，使司机能够在舒适温度下工作。
- Provide handsome and comfortable working space.
- Large front view.
- The control lever is arm chair type. It will provide comfortable operation posture.
- The cab is equipped with air conditioner. The operator can work at suitable temperature.









起重臂下严禁站人

QUY120

QY120  
12000kg  
12000kg  
12000kg



# 技术参数

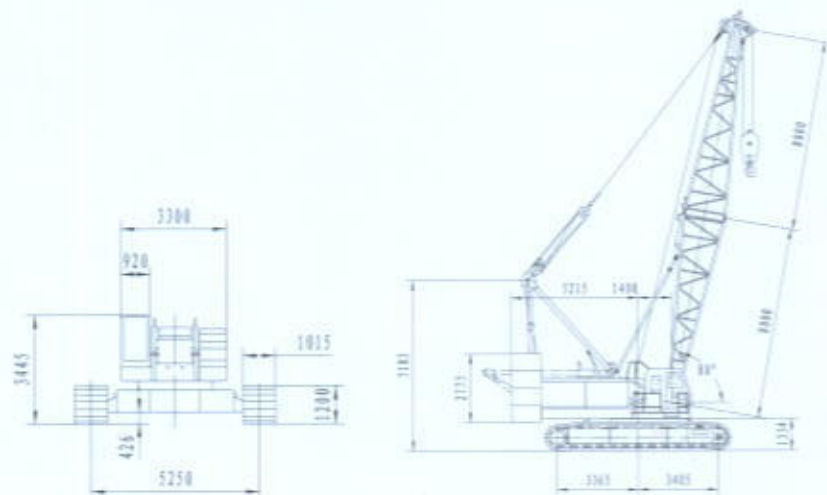
## Specifications

QUY120 主要技术参数 Technical Data

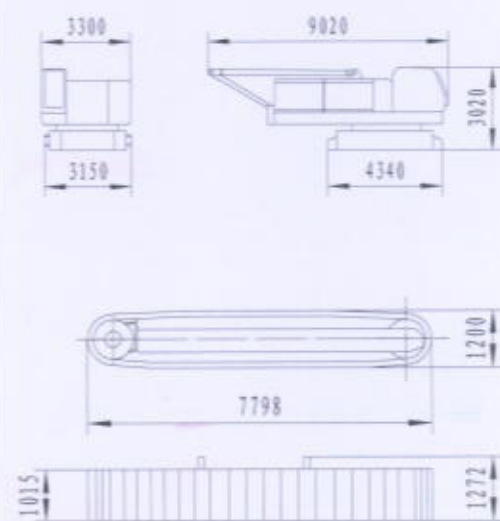
项 目 Item	数值 Data	单位 Unit	项 目 Item	数值 Data	单位 Unit
最大起重量 Max. Machine weight	120	t	回转速度 Slewing Speed	0-1.96	rpm
主臂长度 Length of Main Boom	16-76	m	行走速度 Travel Speed	1.3/0.9	km/h
主臂加副臂最大长度 Length of Main Boom+Fly Jib	61+31	m	爬坡能力 Gradeability	30	%
起重臂变幅角度 Boom Hoist Angle	30-80	°	柴油机额定输出功率 Engine Output	209/2000	QSL9 KW/rpm
提升钢绳速度※ Hook Hoisting Speed	高(H)116/58 低(L) 80/40	m/min	主提升倍率 Main Hoisting line parts	12	
下降钢绳速度※ Hook Lowering Speed	高(H)116/58 低(L) 80/40	m/min	接地比压 Ground Pressure	0.08	Mpa
起重臂上升钢绳速度※ Boom Hoisting Speed	※ 54	m/min	整机质量 Max. Machine weight	111	t
起重臂下降钢绳速度※ Boom Lowering Speed	※ 54	m/min	配重质量 Counter Weight	42	t
起重力矩 Lifting Torque	600	t·m			

注：※速度随机载不同而变化

QUY120 起重机主要外形尺寸图  
General Dimensions



QUY120 主机解体后的尺寸  
Dimensions of Mainpart





# QUY120 液壓履帶起重機主臂載荷表 MAIN BOOM LIFTING CAPACITY

單位 Unit: t

臂長 (M)	16.0	19.0	22.0	25.0	28.0	31.0	34.0	37.0	40.0	43.0	46.0	49.0	52.0	55.0	58.0	61.0	64.0	67.0	70.0	73.0	76.0	
5.0	120	120																				
6.0	100	100	97.7	93.4	81.1																	
7.0	82.1	80.4	78.5	76.5	74.7	71.4	63.7															
8.0	66.4	66.2	65.4	64.0	62.6	61.2	59.9	57.2	51.8													
9.0	55.6	55.4	55.2	54.8	53.7	52.6	51.6	50.6	49.5	47.2	43.2											
10.0	47.8	47.5	47.4	47.1	47.0	46.0	45.2	44.4	43.4	42.6	41.7	39.7	36.8	34.0	31.5							
12.0	37.1	36.8	36.7	36.4	36.3	36.0	36.0	35.4	34.7	34.1	33.4	32.7	32.2	31.6	30.9	29.3	27.4					
14.0	30.1	29.9	29.7	29.5	29.3	29.1	29.0	28.8	28.6	28.2	27.6	27.0	26.7	26.1	25.6	25.0	24.6	24.0	23.5	22.1		
16.0	26.5	26.0	24.9	24.6	24.4	24.2	24.1	24.0	23.7	23.6	23.4	22.9	22.6	22.1	21.6	21.1	20.8	20.3	19.8	19.3	17.8	
18.0		21.4	21.3	21.0	20.8	20.6	20.5	20.3	20.1	20.0	19.8	19.5	19.5	19.0	18.6	18.1	17.9	17.4	17.0	16.5	15.2	
20.0			18.5	18.2	18.1	17.8	17.6	17.6	17.3	17.2	17.0	16.8	16.8	16.6	16.2	15.8	15.5	15.1	14.7	14.3	13.3	
22.0				16.0	15.9	15.6	15.5	15.4	15.1	15.0	14.8	14.5	14.5	14.4	14.2	13.8	13.6	13.2	12.9	12.5	11.5	
24.0				14.9	14.1	13.8	13.7	13.6	13.3	13.2	13.0	12.7	12.7	12.6	12.4	12.2	12.1	11.7	11.3	11.0	10.2	
26.0					12.7	12.3	12.1	11.8	11.8	11.7	11.5	11.2	11.2	11.1	10.9	10.7	10.7	10.4	10.0	9.7	8.9	
28.0						11.1	10.7	10.6	10.5	10.4	10.2	10.0	9.9	9.8	9.6	9.5	9.4	9.2	8.9	8.6	7.8	
30.0							9.9	9.7	9.5	9.3	9.1	8.9	8.9	8.8	8.6	8.5	8.4	8.1	8.0	7.6	6.6	
32.0							9.4	8.8	8.6	8.4	8.2	8.0	7.9	7.8	7.6	7.4	7.3	7.2	7.0	6.8	6.2	
34.0								8.2	7.8	7.6	7.4	7.2	7.1	7.0	6.8	6.6	6.5	6.4	6.2	6.0	5.5	
36.0									7.0	6.9	6.7	6.5	6.4	6.3	6.1	5.9	5.8	5.7	5.5	5.3	4.8	
38.0										6.2	6.1	5.8	5.8	5.7	5.5	5.4	5.3	5.0	4.9	4.6	4.1	
40.0											5.5	5.3	5.2	5.1	4.9	4.7	4.7	4.5	4.3	4.1	3.7	
42.0											5.1	4.7	4.7	4.6	4.4	4.2	4.2	4.0	3.8	3.6	3.2	
44.0												4.3	4.2	4.1	3.9	3.7	3.7	3.5	3.3	3.1	2.9	
46.0													3.9	3.7	3.5	3.3	3.3	3.1	2.9	2.7	2.3	
48.0														3.3	3.1	2.9	2.9	2.7	2.5	2.3	2.0	
50.0														3.1	2.8	2.6	2.6	2.4	2.2	1.9	1.5	
52.0															2.5	2.2	2.1	2.0	1.9	1.6	1.2	
54.0																1.9	1.8	1.7	1.6	1.3	0.9	
56.0																	1.7	1.5	1.3	1.1	0.8	
58.0																	1.6	1.0	1.0	0.8	0.6	
60.0																			0.8	0.6	0.2	

1. Rating according to DIN15016/3, ISO4305, 4310 and GB3811.

2. Operating radius is the horizontal distance from center of the load.

3. Deduct weight of hook block (s) and slings and all other handling accessories from main boom rating shown.

4. Capacities shown in the charts are based on the machine standing on firm an level ground.

5. Capacities are based on freely suspended loads, and make no allowance for such factors, sudden stop, supporting ground surface and operating speed.







QUY120 Jib load chart (jib angle 30°)

Unit: t

boom (m)	40			43			46			49			52			55			58			61			
	13	19	25	13	19	25	13	19	25	13	19	25	13	19	25	13	19	25	13	19	25	13	19	25	
16	12.8			12.8																					
18	12.4			12.4			12.4			12.4			12.4			12.4			12.4						
20	11.9	8.5		11.9	8.5		11.9			11.9			11.9			11.9			11.9			11.9			
22	11.4	8.2	(20.5m)	11.4	8.2	(20.5m)	11.4	8.2		11.4	8.2		11.4	8.2		11.4	8.2		11.4			11.4			
24	10.9	7.8	6.2	10.9	7.8	6.2	10.9	7.8	(19.5m)	10.9	7.8		10.9	7.8		10.9	7.8		10.9	7.8		10.9	7.8		
26	10.5	7.5	6.0	10.5	7.5	6.0	10.5	7.5	6.0	10.5	7.5	6.0	10.5	7.5	6.0	10.5	7.5	6.0	10.5	7.5	6.0	10.5	7.5		
28	10.1	7.2	5.7	10.1	7.2	5.7	10.1	7.2	5.7	10.1	7.2	5.7	10.1	7.2	5.7	10.1	7.2	5.7	10.1	7.2	5.7	10.1	7.2	5.7	
30	9.8	7.0	5.5	9.7	7.0	5.5	9.4	7.0	5.5	9.1	7.0	5.5	8.9	7.0	5.5	8.7	7.0	5.5	8.4	7.0	5.5	8.1	7.0	5.5	
32	9.0	6.7	5.3	8.9	6.7	5.3	8.6	6.7	5.3	8.2	6.7	5.3	8.0	6.7	5.3	7.9	6.7	5.3	7.6	6.7	5.3	7.3	6.7	5.3	
34	8.2	6.5	5.1	8.1	6.5	5.1	7.8	6.5	5.1	7.5	6.5	5.1	7.3	6.5	5.1	7.1	6.5	5.1	6.9	6.5	5.1	6.5	6.5	5.1	
36	7.5	6.3	4.9	7.4	6.3	4.9	7.1	6.3	4.9	6.8	6.3	4.9	6.6	6.3	4.9	6.5	6.3	4.9	6.2	6.3	4.9	5.9	6.2	4.9	
38	6.8	6.1	4.8	6.8	6.1	4.8	6.5	6.1	4.8	6.2	6.1	4.8	6.0	6.1	4.8	5.9	6.1	4.8	5.6	6.0	4.8	5.3	5.7	4.8	
40	6.2	6.0	4.6	6.2	6.0	4.6	6.0	6.0	4.6	5.6	6.0	4.6	5.5	5.8	4.6	5.4	5.7	4.6	5.1	5.4	4.6	4.8	5.1	4.6	
42	5.6	5.8	4.5	5.7	5.8	4.5	5.5	5.8	4.5	5.2	5.5	4.5	5.0	5.3	4.5	4.9	5.2	4.5	4.6	4.9	4.5	4.3	4.7	4.5	
44	5.1	5.6	4.3	5.2	5.6	4.3	5.0	5.3	4.3	4.7	5.0	4.3	4.5	4.9	4.3	4.5	4.8	4.3	4.2	4.5	4.3	3.9	4.2	4.3	
46	4.6	5.1	4.2	4.7	5.1	4.2	4.5	4.9	4.2	4.3	4.6	4.2	4.1	4.4	4.2	4.1	4.4	4.2	3.8	4.1	4.2	3.5	3.8	4.1	
48	4.2	4.7	4.1	4.3	4.7	4.1	4.1	4.5	4.1	3.9	4.2	4.1	3.8	4.1	4.1	3.7	4.0	4.1	3.4	3.7	4.0	3.1	3.5	3.7	
50	3.8	4.3	4.0	3.9	4.3	4.0	3.7	4.1	4.0	3.5	3.9	4.0	3.4	3.7	4.0	3.4	3.6	3.9	3.1	3.4	3.6	2.8	3.1	3.4	
52	(49.0m)	3.9	3.9	3.5	3.9	3.9	3.3	3.7	3.9	3.1	3.5	3.8	3.0	3.4	3.6	3.0	3.3	3.6	2.8	3.1	3.3	2.5	2.8	3.1	
54		3.5	3.9		3.5	3.9	3.0	3.4	3.8	2.7	3.2	3.5	2.7	3.1	3.3	2.7	3.0	3.3	2.5	2.8	3.0	2.2	2.5	2.8	
56		3.2	3.6		3.2	3.6		3.1	3.4	2.4	2.9	3.2	2.4	2.8	3.1	2.4	2.8	3.0	2.2	2.5	2.7	1.9	2.2	2.5	
58		(45.0m)	3.2		2.9	3.2		2.8	3.1		2.6	2.9	2.1	2.5	2.8	2.1	2.5	2.7	2.0	2.3	2.5	1.7	2.0	2.2	
60			2.9		2.9	2.9		2.5	2.8		2.3	2.6	1.9	2.2	2.6	1.9	2.2	2.5	1.8	2.0	2.2	1.5	1.8	2.0	
62						2.7			2.6		2.0	2.4		2.0	2.3		2.0	2.3		1.8	2.0		1.5	1.8	
64						2.4			2.3			2.1		1.7	2.1		1.8	2.0		1.6	1.8			1.6	
66									2.0			1.9			1.8		1.8	2.0		1.6	1.8			1.6	
68												1.7			1.6		1.6	1.8		1.6	1.8			1.4	

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技术参数如有更改恕不另行通知

Specifications may vary without prior notice