

Chapter two

Technical Data

2. 1 Specifications and technical data

2. 1. 1 Main technical data

Model: QUY150C Hydraulic crawler crane

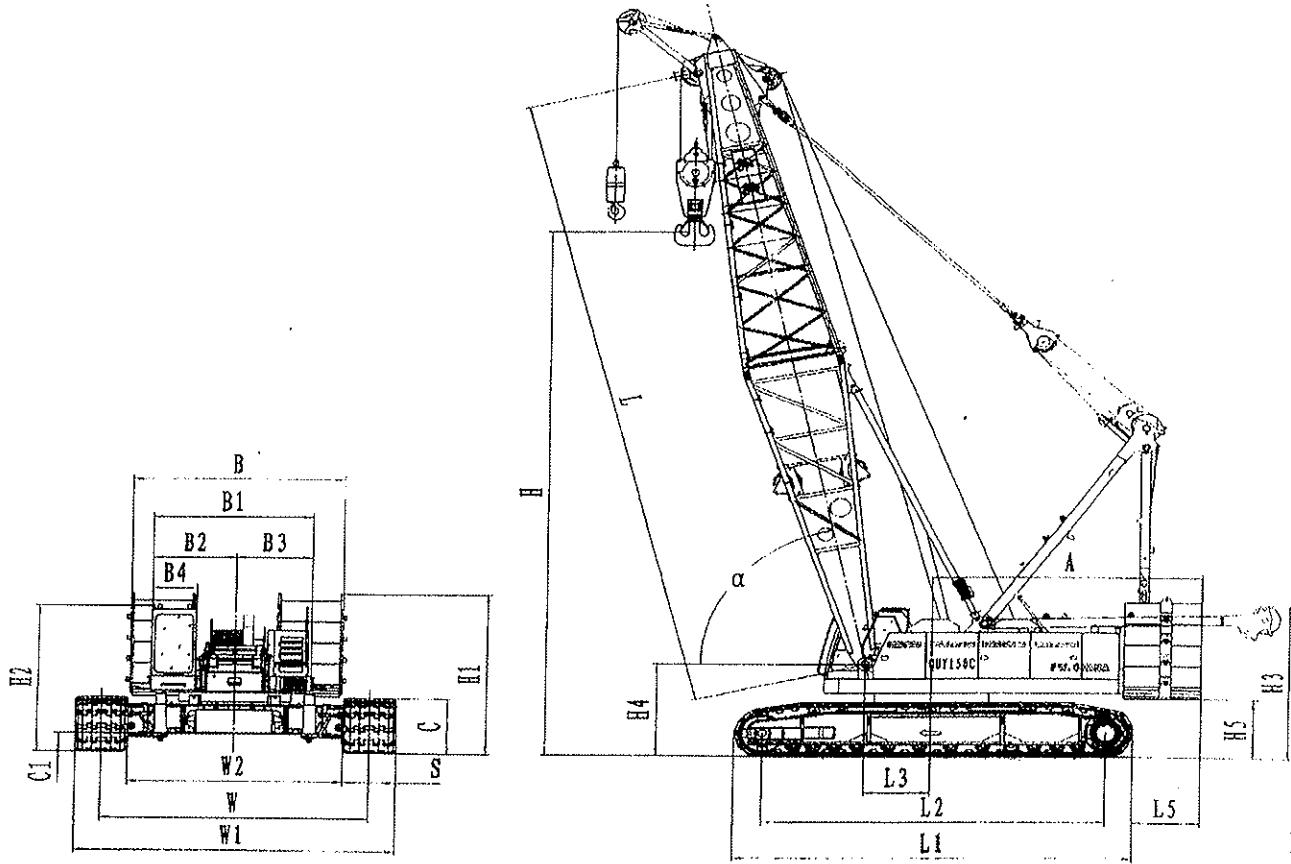
Maximum rated lifting capacity: 150t.

Maximum rated load moment: 150tX6m=900t.m

Descriptions		Unit	Data
Boom length		m	15.2~81.2
Jib length		m	13~31
Maximum length of boom plus jib		m	69.2+31
Boom angle		°	30~80
Working speed	Hoist	m/min	*High speed 117-142
	Lower	m/min	*High speed 117-142
	Boom rise	m/min	*30
	Boom lower	m/min	30
	Swing speed	r/min	0-2.3
	Travel speed	km/h	*0.63-1.25
Parts of line	16	Single line pull	13.5t
Gradeability (with basic boom and cabin in the rear)		%	30
Rated power output/rotation speed of diesel engine		KW/r/min	QSL/209KW2100rpm
Mass of whole crane		t	152--165
Groundpressure		MPa	0.092/0.096
Counterweight		t	56+10
Dimensions		mm	9750×3380×3580

Note: speed with ※ may vary depending on load.

2. 1. 2 Main dimensions



Unit: mm

A Swing radius (Tail) -----	5659
S Width of track shoe-----	1100
B Width of counterweight-----	4456
B1 Width of superstructure-----	3380
B2 Distance between swing center and outside cabin-----	1787
W2 Width between two track frames-----	4530
B3 Distance between swing center and outside left housing-----	1593
α Boom angle-----	30° —80°
B4 Width of cabin-----	920
C Height of crawler-----	1325
C1 Distance between carrier and the ground-----	443
H Max. hoisting height with boom-----	13000
H1 Height of counterweight-----	3948
H2 Height of cabin-----	3634
H3 Height between sheave on A-frame and the ground-----	3630
H4 Height between the ground and boom foot-----	2196
H5 Height between superstructure and the ground-----	1424
L Basic boom length-----	15200
L1 Length of track frame-----	8365

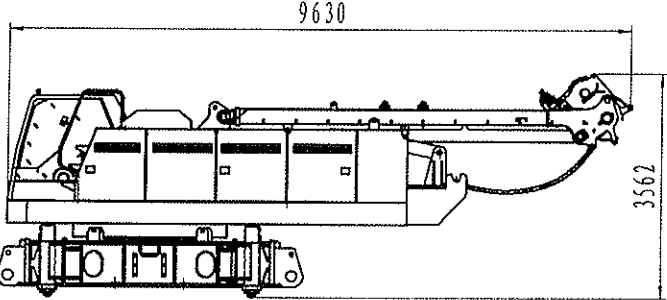
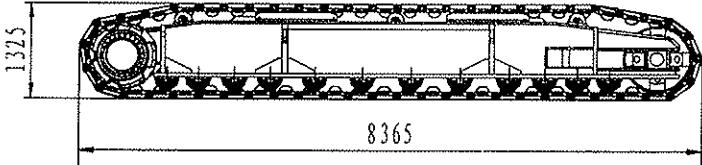
L2 Distance between guide wheel and drive sprocket-----	7200
L3 Distance between boom foot and swing center-----	1400
Total weight-----	152t
Ground pressure -----	0.92kg/cm ²
W Width between two crawlers-----	5630
W1 Width of carrier-----	6730

Working weight and ground pressure

Working weight includes carbody, 15.2m basic boom, 56Tcounterweight and 10.2 T

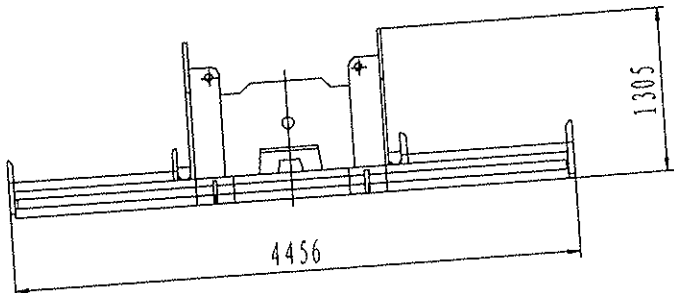
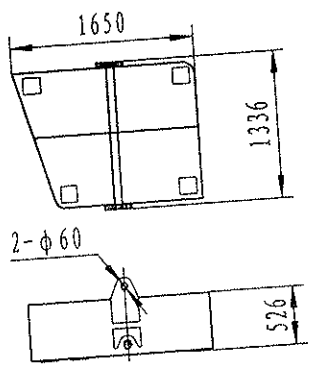
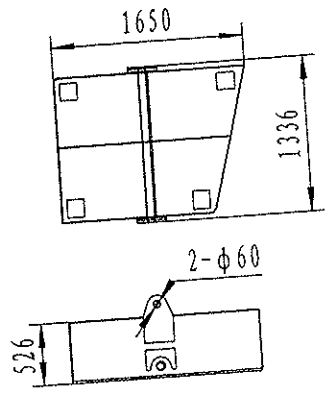
2. 2 Dimensions and weights

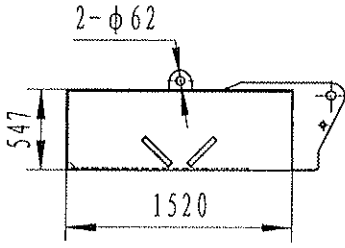
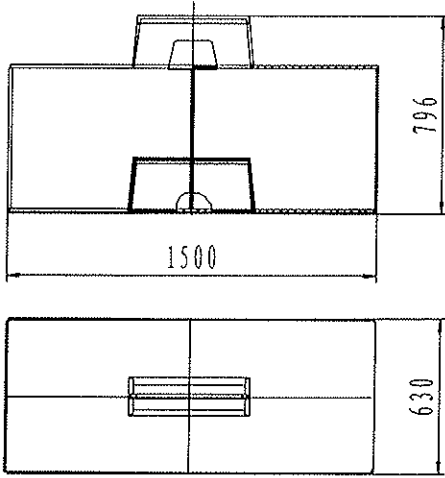
2. 2. 1Carbody

Name	Dimensions (mm)	Weight (Kg)
Superstructure (Slewing platform, carrier, front drum, rear drum, main derricking drum, mast, central ballast, jack-up cylinder, etc)		45000
Crawler Assy: Total width of crawler: 6370mm Width of track shoe: 1100mm		20400

H1
H2
H3
H5

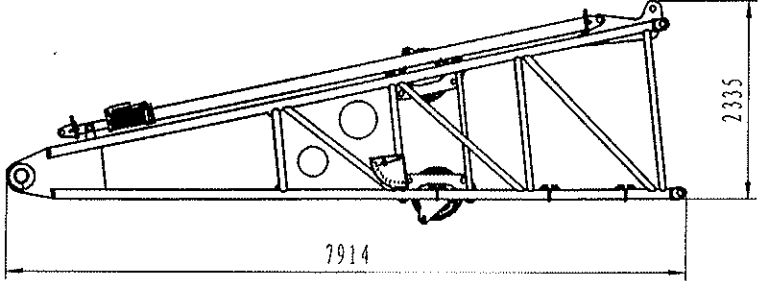
2.2.2 Counterweight

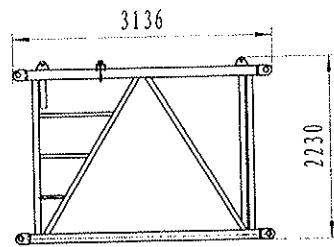
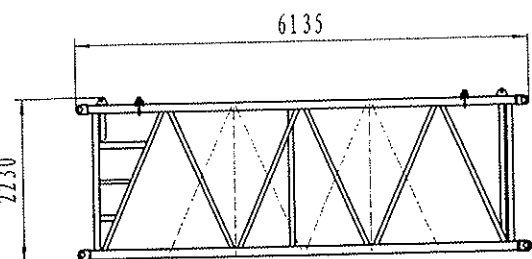
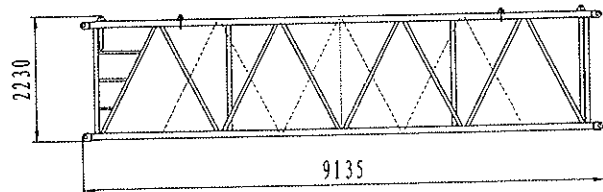
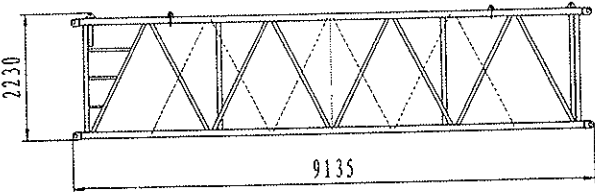
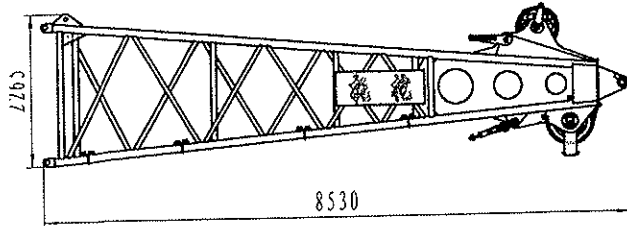
Names	Dimensions (mm)	Weight (kg)
Counterweight (Tray)		12526
Counterweight A		4707 per piece
Counterweight B		4707 per piece

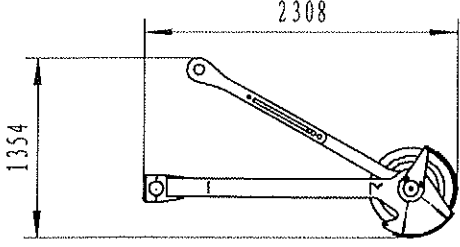
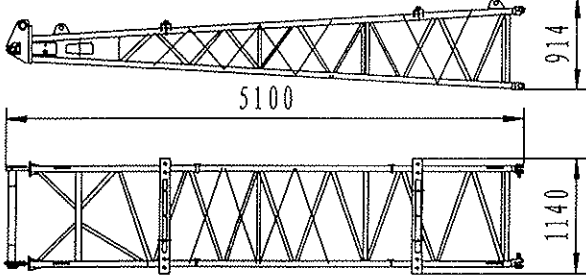
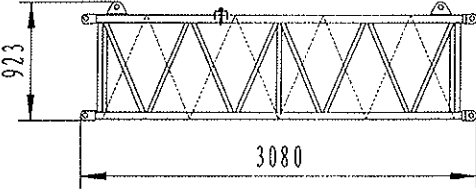
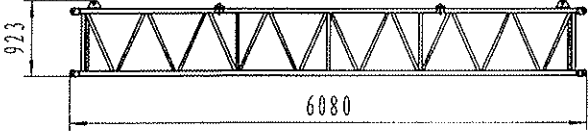
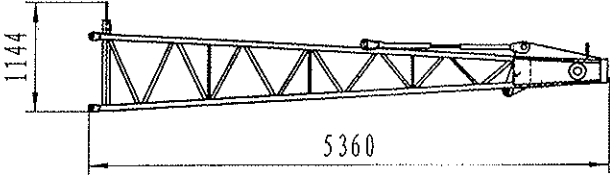
<p>Counterweight (Central ballast)</p>		<p>5100 per piece</p>
<p>Counterweight D</p>		<p>2827per piece</p>

2. 2. 3 Boom system

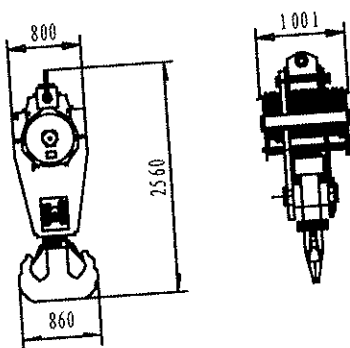
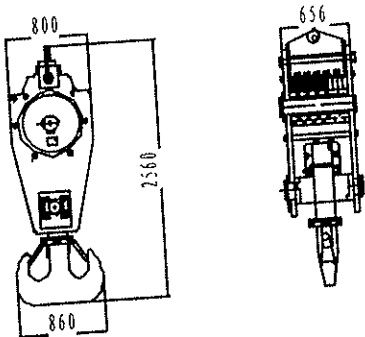
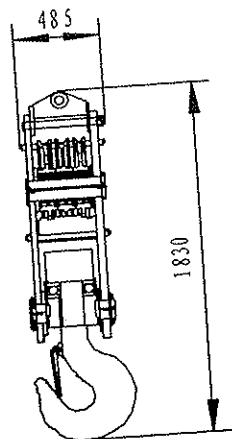
Boom weight does not include weight of stay bar.

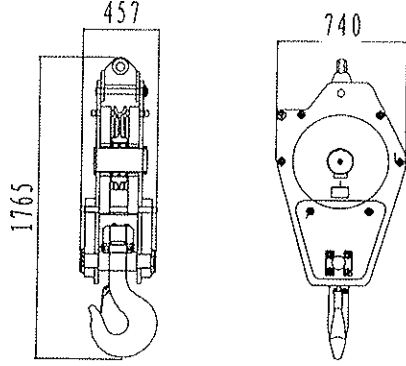
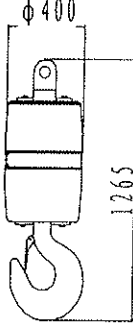
Names	Dimensions (mm)	Weight (Kg)
<p>Boom foot</p>		<p>3366</p>

<p>3m boom insert</p>		<p>688</p>
<p>6m boom insert</p>		<p>970</p>
<p>9m light boom insert</p>		<p>1229</p>
<p>9m heavy boom insert</p>		<p>1269</p>
<p>Boom top</p>		<p>2827</p>

<p>Runner</p>		<p>427</p>
<p>Fixed jib foot</p>		<p>259</p>
<p>3m jib insert</p>		<p>239</p>
<p>6m jib insert</p>		<p>408</p>
<p>Jib top</p>		<p>328</p>

2. 2. 4 Hook blocks

<p>150T Hook</p>		<p>3200</p>
<p>100T Hook</p>		<p>1922</p>
<p>50T Hook</p>		<p>762.3</p>

25T Hook	 <p>Technical drawing of a 25T hook. The drawing shows two views: a side view and a top view. The side view indicates a height of 1765 and a width of 457. The top view indicates a width of 740.</p>	901
12.5T Hook	 <p>Technical drawing of a 12.5T hook. The drawing shows a side view with a diameter of $\phi 400$ and a height of 1265.</p>	848