LT1036汽车起重机主要特点
LT1036 Main Performance Advantages

1. 配置精良，性能卓越的 8X4专用底盘，传动系等主要 部件均选用进口或国内引进技术生产的具有国际先进水平的成熟配套件,如美国康明斯增压中冷发动机、英国LIPe离合器、ZF变速器、开斯兰（KESSLER）桥和斯太尔大扭矩传 动轴等，具有功率强，动力储备好等特点。

1.2 驱动桥选用引进德国开斯兰技术自行开发生产的13吨级重型驱动桥，带轮边减速器，设有轮间和轴间差速器及差速锁。

1.3 采用液压阀式液压先导比例控制，起重机所有动作通过两个操纵手柄控制，提高整机操纵的舒适性和可靠性。

1.4 起重机共五节主臂，二节副臂。

1.5 选用PAT 大容量 力矩限制器，技术含量高，可 靠性好。

2. 结构独特，技术先进

2.1 主起重臂：主臂材料选用 低合金高强度结构钢，大圆角六边形截面型式,具有承载能力大，自重轻、导向平稳等特点 。

2.2 二节副臂：采用桁架式变截面结构，受力条件好，重量轻，可根据使用需要实现1度、20度变角度安装。

2.3 转台结构： 选用60公斤级的低合金高强度结构钢，采用传统结构,上盖板采用压型槽钢，整体成箱型结构，强度和钢度高，稳定性好。

2.4 伸缩 机构： 采用我厂成熟可靠的两支单级双作用油缸和两套钢丝绳组合,I号缸伸缩 二 节主 臂， II号缸加两套组合钢丝绳同步伸缩三、四、五节臂。该机构结构紧凑，工艺性好，工作可靠。

2.5 铰点布置： 高铰点布置，使得起重臂、变幅油缸和转台三个主要受力总成载荷分布合理,结构独特，造型美观。

2.6 底架结构： 前段为工字型，后段为箱型结构，采用CAD优化设计，重量轻，承载能力强，抗扭刚度大、稳定性好。

2.7 双桥转向系统： 具有一、二桥转向功能，转弯半径小,采用整体式转向器，系统结构简洁，维修方便，操纵轻巧，可靠性高。

3. 匹配合理，作业高效

3.1 双卷扬机构: 主副卷扬既可独立动作，也能同时工作，还可以同其它机构实现组合动作。

3.2 液压系统：系统为开 式系统,包括回转、变幅、伸缩及主.副起升五个机构。操纵方式为 先导比例控制 手柄操纵。整个系统配置简单可靠，调节性能好。

3.3 采用四联齿轮泵， 下车变速箱取力， 其中三泵供上车回路使用，一泵为先导使用，简化了结构，提高了可靠性。

1.1 Drive 8×4 special chassis with fine-equipped and high performance, which is supplied with transmission system consisting of international level's parts and components such as Cummins engine with turbo and medium-cool, British Lipe clutch, ZF gear box, Kessler axles and Steyr big torque transfer shaft being of strong and well-reserved power, which are imported or produced in China by means of advanced technologies at abroad.

1.2 13-tonnage heavy-duty axles developed by ourselves by means of German Kessler technologies are chosen as driving axles, which are equipped with wheel hub reducer, differential gear and differential locks for wheels and axles.

1.3Lifting operation is actualized by two operating levers under hydraulic piloted proportional control to improve the comfort and reliability of operation.

1.4Equipped with 5-section boom and 2-section jib.

1.5Adopting PAT load moment limiter with high performance and reliability.

2 Unique structure and advanced technology

2.1 Main boom is made of grade low-alloy and high strength steel with hexagonal profile and big circular are being of great load-bearing cap0acity, light weight and smooth guiding.

2.2 2-section jib, lattice type changeable cross section structure with fine load-bearing capacity, light-weight, 1° , 20° of installing angles can be realized of option.

2.3 Slewing table "Box" type traditional structure with pressed channel steel for upper cover is made of 60kg grade low-alloy and high-strength steel with the stability.

2.4 Telescopic mechanism: adopting **our factory's** mature technologies of combing two single double-acting cylinders with 2 sets of wire rope. The boom section II is telescoped by cylinder No. 1 and the boom section III, IV, V can realize its synchronous telescoping by combining of cylinder No. II and 2 sets of wire rope. This kind mechanism can warrant its compact structure, good technological design and reliable working.

2.5 High position pivot arrangement: High position pivot design makes three main bearing load components of boom, derricking cylinder and slewing table reasonable load-distribution, unique structure and good mould-making.

2.6 Chassis frame: designed by advanced CAD. The structure of "I" type front section and "three boxes" type rear part can ensure light-weight, big torque rigid, high strength and great stability.

2.7 Steering system: axle I and axle II are equipped with integral steering machine with small turning radius and outer-mounted booster, which is convenient for maintenance and operation.

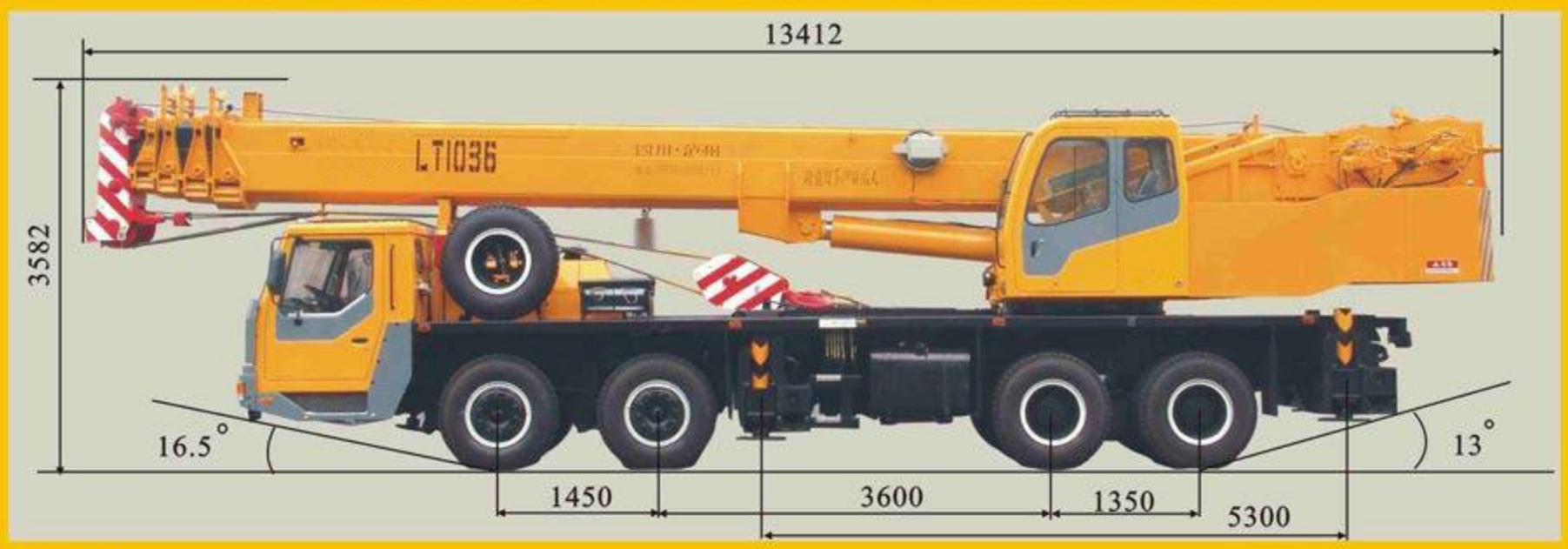
3 Reasonable arrangement, efficient operation

3.1 Double winches mechanism can operate independently or synchronously and combined with other mechanism to finish the combination of actions.

3.2 "Open" type hydraulic system including slewing, elevating, telescoping, main & aux. winches which are operated by two hydraulic piloted proportional control levers with simple operation and good adjustment.

3.3 Adopting the hydraulic quadrupled pump with compact structure and high reliability, of which, 3 pump sections are used for superstructure and 1 pump section is for piloted control being of great load-bearing capacity, light-weight and smooth guiding.

外型尺寸 Contour Dimension Figure



说明 Note:

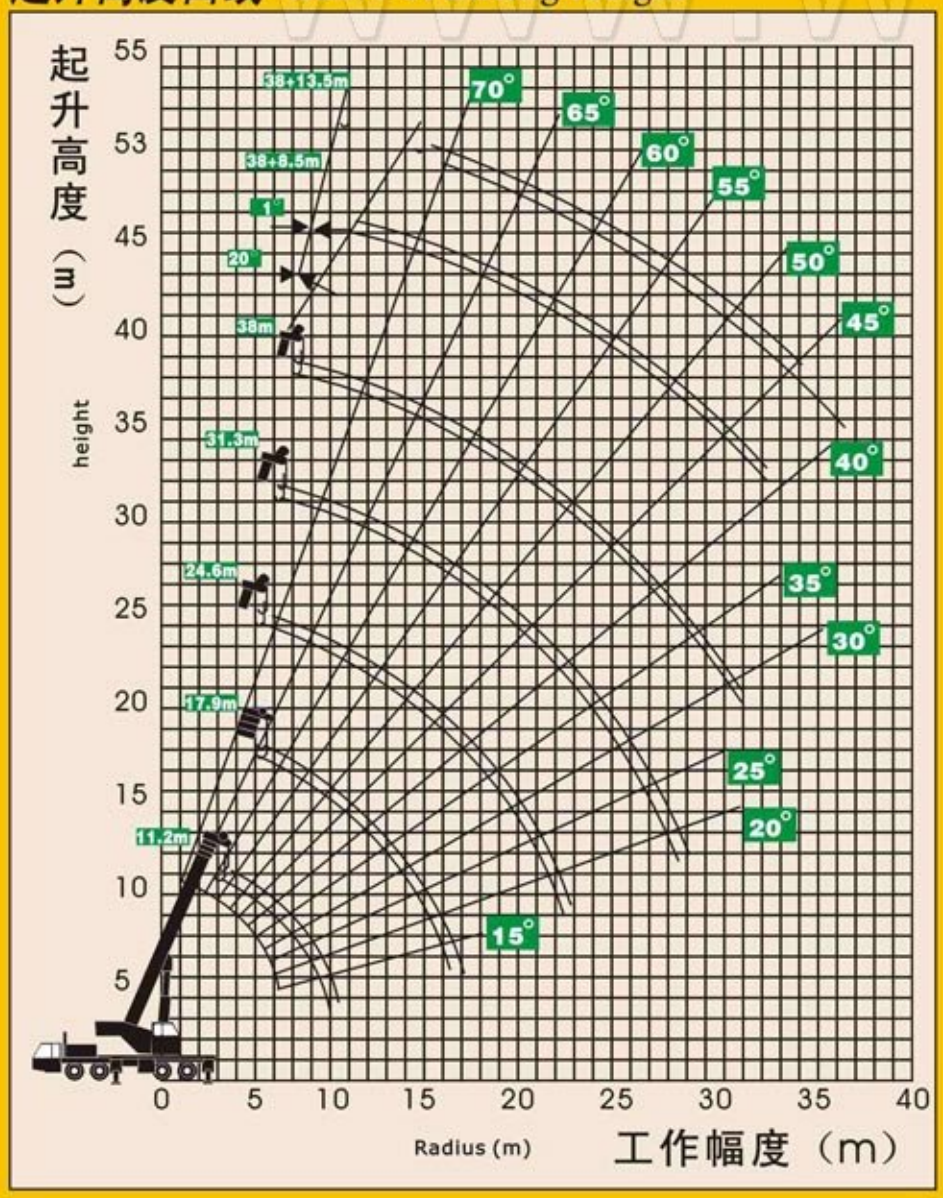
1.额定起重量给定数值是在地面坚实，整机调平状态下，起重机的额定起重量。表中工作幅度是指吊载后的实际幅度。注意副臂的工作幅度是在完全伸出主臂（38M），并展开副臂进行作业的数值。
2.打好第五支腿时，表中数值适用于已沿圆周360度作业。
3.表中粗实线以上数值由起重臂强度决定，粗实线以下由起重机稳定性决定；臂长11.2米时，各节臂应处于完全缩回状态。
4.表中额定起重量包括起重钩和吊具重量，主钩重360公斤，副钩重100公斤，若副起重臂处于展开状态，主臂起吊的额定起重量应减去1650公斤。
5.如果臂长超过表中某一栏规定的数值时，应把该栏数值与其他更长一级的数值相比较，按照其中较小的额定起重量进行作业。
6.使用臂尖滑轮的额定起重量不超过3200公斤，当表中数值低于3200公斤时按照表中数值作业，当使用副臂或臂尖滑轮时，主钩又处于主臂部，则额定起重量应减少400公斤。
7.表中最低栏列出各种臂长时的主臂最小仰角，严禁将起重臂变幅到所对应的最小仰角以下。

1.The tabulated values are rated lifting capacities of the crane leveled and standing on a firm supporting surface. The tabulated working radii are actual radius with load lifted. The working radius of jib are the value at the fully extended boom (38m)
2. After the 5th outrigger being extended, the tabulated value is suitable for 360 working range.
3. The values above the bold line are based on machine strength. Those below are based on the crane stability. Capacities for 11.2m boom length shall be lifted with boom fully retracted.
4. The weights of main hook 360kg and aux. Hook 100kg are included in the tabulated values. The rated lifting weight of main boom should be reduced by 1650kg when the jib is in working position.
5. If the length of boom exceeds a specified value in the list, it should be compared with the next further value, and lifting operation should be fulfilled according to the less rated lifting capacity.
6. Rated lifting weight should not exceed 3200kg when using pulley at the top of boom. Lifting operation should be fulfilled according to the list when the value is under 3200kg. Rated lifting weight should reduce 400kg when using jib or pulley at the top of boom, and the main hook is at the main boom section.
7. The bottom column in the table lists all min. Boom angle of elevation in various boom length. Elevating the boom below the corresponding min. Angle of elevation is strictly forbidden.

主要技术参数 Main Specifications

基本臂臂长	Boom base length	11.2 (m)
最大起重量	Rated lifting capacity	40(t)
最大起升高度	Max. lifting height	11.11 (m)
全臂臂长	Fully extended boom	38 (m)
最大额定起重机	Max. lifting capacity	5.6 (t)
最大起升高度	Max. lifting height	37.98 (m)
副臂臂长	Jib length	8.5-13.5 (m)
最大额定起重机	Max. lifting capacity	3 (t)
最大起升高度	Max. lifting height	51.24
起升速度	Single speed of main hook	主卷扬0-106 (m/min)
	Single speed of auxiliary hook	副卷扬0-98 (m/min)
回转速度	Slewing	0-1.85(r/min)
起重臂全程起/落时间	Speed up/down	130/90 (s)
起重臂全程伸/缩时间	Boom fully extending/retracting	150/110 (s)
支腿收放时间	Outrigger extension and retraction horizontal	水平收/放≤26/30(s)
	vertical	垂直收/放≤25/28(s)
底盘型号	Type size	QZC5380J
驱动形式	Drive	8×4
最高行驶速度	Max. travelling speed	72 (km/h)
最大爬坡度	Gradeability	40%
最小转弯半径	Min. turning radius	12 (m)
接近角	Approach angle	16.5°
离去角	Departure angle	13°
支腿跨距	Longitudinal×transverse	5300×6100 (m)
桥负荷分配	Axle load: axle1,2	1x2桥 13500 (kg)
	axle3,4	3x4桥 23200 (kg)
轮胎规格	Tyre size	11.00-20
发动机型号	Engine type	(康明斯) NTC-290
发动机功率	Max. power of engine	216kw/2100r/min
发动机最大扭矩	Max. torque of engine	1250nm/1300rpm
整机总质量	Self-weight	36700(kg)
整机外形尺寸 (长X宽X高)	Overall dimensions	13.412x2.5x3.583 (m)

起升高度曲线 Curve of Lifting Height



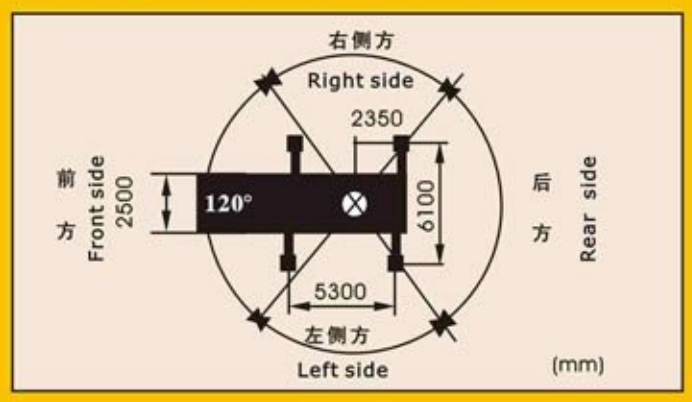
起重量表 Lifting Capacities

工作幅度 Working radius	支腿全伸后方与侧方作业 (当使用第五支腿全伸可实现360°作业) Working on right, left and rear with outriggers fully extended 360° working range with outriggers + the fifth outrigger fully extended				
	主臂 m				
m	11.2	17.9	24.6	31.3	38
3.0	40000				
3.5	32500				
4.0	28500				
4.5	25000				
5.0	22500	19000	12000		
5.5	20000	18000	12000		
6.0	18000	17000	11800	9100	
6.5	16200	15300	11500	9100	
7.0	14500	14500	11000	9000	5600
7.5	13100	12800	10500	8500	5600
8.0	12100	11500	9850	8000	5500
8.5	11000	10000	9300	7600	5500
9.0		9000	8800	7300	5200
10.0		7000	7100	6800	4700
11.0		5700	6400	6000	4300
12.0		4800	5400	5200	4000
14.0		3200	3950	4000	3400
16.0			2800	3100	3000
18.0			2100	2400	2500
20.0			1400	1650	2000
22.0			900	1200	1500
24.0				800	1100
26.0					750
倍率	8	6	4	3	2
主臂最小仰角:			7.5°	26°	37.5°

工作幅度 Working radius	支腿全伸后方与侧方作业 (当使用第五支腿全伸可实现360°作业) Working on right, left and rear with outriggers fully extended 360° working range with outriggers + the fifth outrigger fully extended			
	主臂+副臂 m Main boom+jib			
	38+8.5m		38+13.5m	
m	1°	20°	1°	20°
9.0	3000			
10.0	2900		2000	
11.0	2780	1950	2000	
12.0	2650	1850	1900	
14.0	2400	1700	1740	1200
16.0	2130	1550	1560	1100
18.0	1850	1380	1380	1000
20.0	1560	1220	1200	900
22.0	1290	1050	1020	800
24.0	1040	880	860	700
26.0	770	710	680	600
28.0	510	540	520	510
30.0	300	380	400	440
32.0	200	250	320	370
34.0			250	300
36.0				220
倍率 Line numbers		1		
	43°	46°	46°	47°

注:表中基本臂11.2米臂长，黑体字所示为最大起重量，其余为额定起重量。
Note: The length of boom base in the table is 11.2m. The values above the bold line are the max. lifting capacities, others are rated lifting capacities.

工作范围 Working Range



产品不断改进和提高，技术参数和部件配置若有变化和调整，恕不另行通知，以订货物时为准。
For further improvement, we reserve the right to amend this specification at any time without notice.