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QY16F1全液压汽车起重机主要特点
（JZX5243JQZQY16F1汽车起重机）

◆QY16F1液压汽车起重机是在吸收消化国内外16吨汽车起重机基础上自行研发的一种新型液压驱动全回转伸缩臂式起重机。

◆采用利勃海尔技术设计制造的四节伸缩臂，可进行同步伸缩，功能强大，四节主臂采用六边形大圆角截面，强度高，稳定性好，起重性能强大。

◆双泵合流功能，大大提高起重作业效率。

◆转台由底板、侧梁、尾梁等构成，侧梁为箱型结构，转台尾梁设计安装两套起升机构，配重安装在尾梁的抵部，结构紧凑，外形美观。

◆车架采用大箱形结构，增加了整车的刚度和抗扭能力，并增大了支腿跨距，提高了作业稳定性。

◆起升机构由主、副起升机构组成，由液压马达、减速机、常闭式制动器、卷筒等部分组成。

◆优美的流线型上车操纵室，宽敞明亮、视野开阔。

◆选用一汽专用车厂生产的全景驾驶室三桥底盘，配置环保型发动机。

QMAIN TECHNOLOGY CHARACTER OF QY16F1 FULL HYDRAULIC TRUCK CRANE
(TRUCK CRANE MODEL JZX5243JQZQY16F1)

◆On a basis of absorbing domestic and foreign specific technology, QY16F1 hydraulic truck crane is a new-model hydraulic drive, full swing telescopic crane developed on our own.

◆Designed by consulting Liebherr technology, 4-section telescopic booms can telescope synchronously. Booms with strong power hexagonal circular bead cross-section enjoy high strength, nice stability and strong lifting capacity.

◆Technology of combined flow of dual pumps in hydraulic system improves lifting work efficiency greatly.

◆Swing platform consists of base plate, side beam and tail beam. Side beam is box-type structure, and tail beam is equipped with 2 sets of lifting mechanism, located at the bottom of tail beam, which makes it enjoy compact structure and reasonable shape.

◆Big box-shaped structure increases stiffness and anti-twisting of total crane, enlarge outrigger spans, raise working stability.

◆Lifting system consists of main winch mechanism and auxiliary winch mechanism, including hydraulic motor, reducer, normal-closed brake and winch drum.

◆Streamlined upper-structure operation cab offers convenient space operation and wide vision for driver.

◆3-bridge chassis made by FAW special truck factory was adopted with environment-protection engine.

QY16F1汽车起重机尺寸及重量
QY16F1 TRUCK CRANE Dimension and weight

整机外形尺寸（mm）Overall dimensions (mm)	长 Length	12045
	宽 Width	2490
	高 Height	3460
支腿跨距（mm）Outrigger Spans (mm)	横向 Horizontal	5600
	纵向 Vertical	4700
转台尾部回转半径（mm）Turning Radius (mm)	(3181)	
质量参数（kg）Weight parameters (kg)	整机总质量 Total weight	24020
	前轴承载质量 Front axle load	6140
	后双轴承载质量 Rear axle load	17880

QY16F1汽车起重机 吊臂参数
QY16F1 TRUCK CRANE Boom parameter

基本臂长度：m Length of basic boom (m)	9.8
全伸主臂长度：m Length of fully extended boom (m)	30.5
全伸主臂加副臂长度：m Length of fully extended boom and jib (m)	38
基本臂最大起升高度：m Max lifting height of basic boom (m)	9.8
全伸主臂最大起升高度：m Max lifting height of fully extended boom (m)	30
全伸主臂加副臂最大起升高度：m Max lifting height of fully extended boom and jib (m)	37.5

QY16F1汽车起重机 发动机及底盘技术参数
QY16F1 TRUCK CRANE Parameter of Motor and Chassis

燃油种类 Sort of fuel	柴油 Diesel
底盘型号 Type of chassis	CA5245JQZ型
发动机型号 Type of engine	CA6DF3-22E3
发动机额定功率kw/ rpm Rated power of engine kw/ rpm	162kw/2300 rpm
发动机最大扭距Nm/ rpm Max torque of engine Nm/ r/min	860Nm/1500rpm
最高行驶车速 Max trarelling speed	70km/h
最小转弯半径 Max turning radius	8m
驱动形式 Driving method	6×4

QY16F1汽车起重机起重性能表 LIFTING SPECIFICATIONS OF QY16F1

额定起重量表（RATED LOAD CHART）

额定起重量表 Rated lifting capacity 单位unit:Kg

工作幅度 RADIUS (m)	主臂长度 BOOM LENGTH							
	支腿全伸 后方、侧方作业OUTRIGGERS FULL EXTENDED COVER SIDE AND RAER							
	9.8m		16.7m		23.6m		30.5m	
	仰角α°	起重量	仰角α°	起重量	仰角α°	起重量	仰角α°	起重量
3.5	61	16000						
3.75	61	16000						
4.0	59	16000	72	12200				
4.5	55	15000	71	12200				
5.0	52	14100	69	11600	75	6700		
5.5	48	11900	67	10600	74	6700		
6.0	44	10200	65	9800	73	6700	77	
7.0	34	7900	61	8400	70	6200	75	4000
8.0	20	6300	57	6800	67	5900	73	4000
9.0			53	5600	65	5500	71	3600
10			48	4800	62	4900	69	3400
12			38	3200	56	3600	65	3000
14				2100	50	2700	60	2600
16					44	2000	56	2000
18						1600	51	1600
20						1200	46	1200

	主臂+副臂（M） BOOM+JIB 30.5+7.5=38m	
	副臂补偿角 JIB OFFSET	
主臂仰角α° ANGLE	5°	
	幅度(M)	起重量(t)
75	9.7	2.1
70	12.8	1.9
65	15.8	1.7
60	18.7	1.4
55	21.5	0.9
50	24.0	0.4
吊钩重量	55kg	
钢丝绳倍率	1	

◆表中所列额定起重量是以起重机水平固定在地面上为前提条件，包括吊钩、吊具自重在内的最大起重量。主钩自重160Kg，副钩自重50Kg。

◆起重机作业幅度是指吊钩中心线至转台回转中心垂线的距离。

◆主臂作业时主起升机构单绳负载不得大于3500Kg；副起升机构单绳负载不得大于2100Kg；臂端单滑轮的额定起重量应从相应的主额定起重量中减去下表所示的载荷。

◆主臂作业时钢丝绳倍率的选择。

主臂长度	9.8米	16.7米	23.6米	30.5米
应减去的载荷	——	160Kg	160Kg	160Kg

主臂长度	9.8米	16.7米	23.6米	30.5米	臂端滑轮
钢丝绳倍率	6	5	3	2	1

◆主臂端部若装有副臂时，主钩起重量应将表中相应数值减少450kg。

◆Total rated capacity shown in the table are based on the condition that the crane is set on firm ground horizontally,including weight of the hookblock,main hookblock is 160kg,auxillary hookblock is 50kg.

◆A working radius given in the table is a horizontal distance from the centerline of the hookblock to the axis of the slewing ring.

◆Capacity per line should not surpass 3500kg for main winch rope and 2000kg for auxiliary winch rope.

◆Attention to choose the wire rope fall.

◆If the end of the boom with the jib ,the main hook lifting capacity should the value reduce 450kg.

起升高度曲线 [LIFTING HEIGHT CURVE]