QY20B FULL HYDRAULIC TRUCK CRANE

◆ QY20B uses self-made truck crane special chassis, with covered decking plate, and powerful chassis engine.

◆ Main and auxiliary winch can obtain low speed with heavy load or high speed with light load, improved work efficiency.

◆ 4-section telescopic boom with 12-chord all-round boom profile, 1-section side-mounted jib, single cylinder for front support elevation, fully hydraulic drive, double H-shaped outrigger.

◆ Well-equipped safety protection devices such as load moment limiter, overload and over-winding cutout device, and etc., greatly improved safety for operation.

◆ Two cabs designed ergonomically conform to ISO standard, equipped with fan, heater or optional air conditioner. Driver's cab is left-side semi-mounted, fitted with adjustable seat of shock-absorption.Operator's cab is left-side semi-mounted, equipped with LCD monitor for display of various crane configuration and operation.

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QY20B

HYDRAULIC TRUCK CRANE

Max. Total Rated Lifting Load	20t
Full-extend Boom Lifting Height	31.7m
Full-extend Boom+Jib Lifting Height	39.9m

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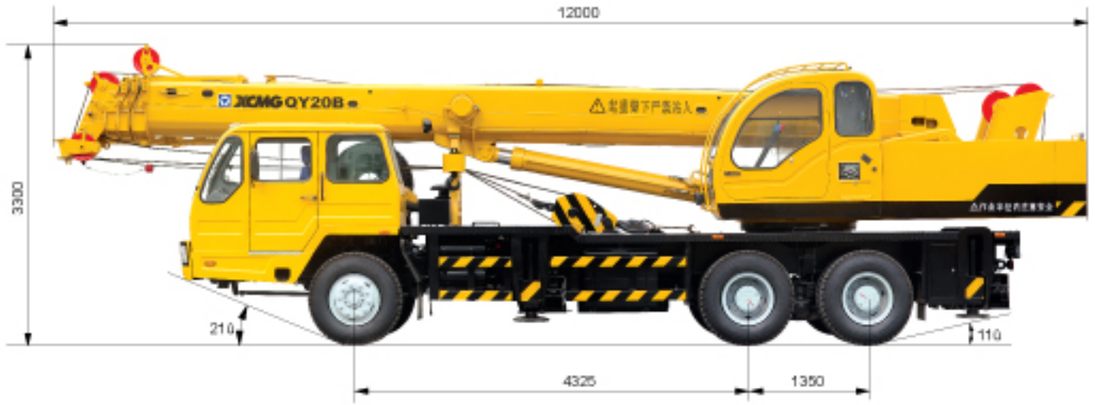
FULL HYDRAULIC TRUCK CRANE



Overall length	12000mm
Overall width	2500mm
Overall height	3300mm

Dead weight in travel state	26020kg
Axle load	
Front axle	6900kg
Rear axle	19120kg

Engine model	Shang chai 6C250-2(Euro Ⅱ)	Shang chai SC8DK260Q3(EuroⅢ)
Engine rated output	184/2200kW/(r/min)	192/2200kW/(r/min)
Engine rated torque	958/1400N.m/(r/min)	1000/1400N.m/(r/min)
Max.travel speed	2200r/min	2200r/min

Max.travel speed	72km/h	72km/h
Min.turning diameter	20mm	20mm
Min.ground clearance	270mm	270mm
Approach angle	21°	21°
Departure angle	11°	11°
Braking distance(at 30km/h)	9.5m	9.5m
Max.gradeability	35%	35%
Fuel consumption of 100km	~35L	~35L

Max.total rated lifting load	20t
Min.rated working radius	3m
Turning radius at swing table tail	3.38m
Max.load moment	
Base boom	833kN.m
Full-extend boom	458.6kN.m
Outrigger span	
Longitudinal/Lateral	4.97/5.4mm
Lifting height	
Base boom	10.2m
Full-extend boom	31.7m
Full-extend boom+Jib	39.9m

Boom raising time	75s
Boom full extending time	95s
Max.swing speed	3r/min
Outrigger extending/retracting time	
Outrigger beam extending/retracting synchronously	35/30s
Outrigger jack extending /retracting synchronously	30/30s
Hoisting speed(single line,3rd layer)	
Main winch with full load/no load	40/90m/min
Auxiliary winch with full load/no load	30/60m/min

Working radius m	Boom											
	Outrigger fully extend,over side rear						Outrigger fully extend,over front					
	10.1m	14.32m	18.54m	22.76m	26.98m	31.2m	10.1m	14.32m	18.54m	22.76m	26.98m	31.2m
3.0	20000	14000	12000				20000	14000	12000			
3.5	20000	14000	12000				20000	14000	12000			
4.0	19200	14000	12000	9700			19200	14000	12000	9600		
4.5	18500	14000	12000	9700			18500	14000	12000	9600		
5.0	17000	14000	12000	9700	7500		15000	14000	12000	9600	7500	
5.5	15100	13500	12000	9700	7500		12000	12500	12000	9600	7500	
6.0	13100	13000	11500	9700	7500	6100	9500	10000	10500	9600	7500	6100
6.5	11600	11900	11000	9000	7500	6100	7600	8500	8800	8800	7500	6100
7.0	10300	10600	10500	8500	7000	6100	6700	7200	7500	7500	7000	6100
8.0	8000	8300	8500	7600	6500	5500	4600	5500	5500	5700	5800	5500
9.0		6800	7000	7000	6000	5000		4200	4500	4500	4500	4700
10.0		5600	5800	5800	5500	4600		3300	3400	3500	3600	3800
12.0		3900	4100	4200	4200	3900		2000	2400	2500	2500	2600
14.0			3100	3150	3200	3200			1400	1500	1800	1700
16.0			2300	2400	2450	2500			1000	1000	1200	1200
18.0				1850	1900	1900				550	800	800
20.0					1500	1500					500	500
22.0					1050	1100					300	250
24.0						900						
Parts of line	7	6	6	4	3	3	7	6	6	4	3	3
Hook block weight						230kg						

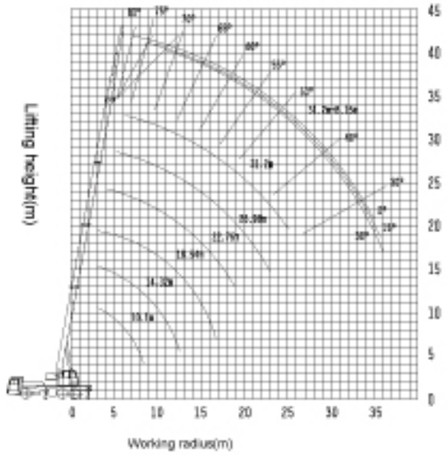
Boom angle (°)	Boom31.2m+Jib8.15m					
	Outrigger fully extend,over side and rear					
	Jib offset 5°		Jib offset 15°		Jib offset 30°	
	over side and rear	over front	over side and rear	over front	over side and rear	over front
80	3000	3000	2000	2000	1550	1550
78	2850	2850	2000	2000	1550	1550
76	2750	2750	1850	1850	1450	1450
74	2650	2650	1800	1750	1400	1400
72	2550	2550	1750	1650	1350	1350
70	2400	2400	1600	1500	1300	1300
68	2300	1950	1550	1300	1250	1250
66	2150	1550	1450	1250	1200	1200
64	2000	1250	1350	1050	1150	1000
62	1850	1050	1250	900	1100	850
60	1700	850	1150	800	1050	650
58	1600	650	1050	650	1000	500
56	1450	500	1000	500	950	400
54	1250	400	950	400	900	300
52	1100	300	900	300	850	250
50	980	200	850	200	700	200
45	700		550		500	
40	500		450		400	
35	350		300		250	
30	200					
Hook block weight				59kg		

Notes:

◆ The data shown in the table are the max. lifting capacity for the crane set up on level and firm ground.

◆ The total rated lifting load includes the weight of hook block and slings.

◆ The working radius in the table is actual value including boom deflection under loads. So lifting operation should be performed according to the working radius, and lifting height is for reference.



▲ Lifting height area