

QY55K Truck Crane(Mobile Crane)

Self-made 8 x 4 chassis special for the QY55K truck crane with high quality main components and parts being purchased at home and abroad

Equipped with WD Duetz engine WP10.336 for carrier, Cummins engine EQ6BTA-5.9-C180 for superstructure.

British Lipe clutch, imported hydraulic piloted proportional control valve and solenoid valve.

5-section main boom of 41 mete and 2-section jib, with German PAT moment limiter.

Lifting operation can be realized by hydraulic piloted proportional control or pull rod control

Engine		
Engine For Carrier		
Model	WD Duetz WP10.336	
Rated power	247 kw/2200 rpm	
Rated torque	1250 N.m/1300-1400 rpm	
Rated speed	2200 rpm	
Engine For Superstructure		
Model	Cummins EQ6BTA-5.9-C180	
Rated power	132 kw/2200 rpm	
Rated torque	750 N.m/1300 rpm	

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Rated speed			
Max. total rated lifting capacity 55000 kg Min. rated working radius 3 m Turning radius at turntable tail 3.8 m Max. load moment: Base boom 1764 KN.m Max. load moment: Fully extended boom 850 KN.m Max. Load moment: Fully extended boom jib 317.52 KN.m Outrigger span: Lateral 7.2 m Lifting height: Base boom 11 m Lifting height: Fully extended boom 41 m Lifting height: Fully extended boom Jib 56 m Mass Specification 56 m Total mass in travel state 41880 kg Axle load: Axle 1, Axle2 16800 kg Axle load: Axle 3, Axle4 25080 kg Working Speed 55 s Boom raising time 65 s Boom full extension time 115 s Max. swing speed 1.77 rpm Max winch Hoist speed 115 rpm Aux winch Hoist speed 75 km/h Turning diameter: Min. turning diameter 24 m Min. ground clearance 280 mm Approach angle 17.5° Departure angle	Rated speed	2200 rpm	
Min. rated working radius 3 m Turning radius at turntable tail 3.8 m Max. load moment: Base boom 1764 KN.m Max. load moment: Fully extended boom 350 KN.m Max. load moment: Fully extended boom jib 317.52 KN.m Outrigger span: Longitudinal 5.5 m Outrigger span: Lateral 7.2 m Lifting height: Base boom 11 m Lifting height: Fully extended boom 41 m Lifting height: Fully extended boom Jib 56 m Mass Specification 41880 kg Mass Specification 41880 kg Axle load: Axle 1, Axle2 16800 kg Axle load: Axle 3, Axle4 25080 kg Working Speed 85 s Boom full extension time 115 s Max. swing speed 1.77 rpm Main winch Hoist speed 115 rpm Traveling Specification 115 rpm Traveling Specification 75 km/h Truring diameter: Min. turning diameter 24 m Min. ground clearance 280 mm Approach angle 17.5° Departure angle	Lifting Specification		
Turning radius at turntable tail 3.8 m Max. load moment: Base boom 1764 KN.m Max. load moment: Fully extended boom 850 KN.m Max. load moment: Fully extended boom jib 317.52 KN.m Outrigger span: Load Load Load Load Load Load Load Load	Max. total rated lifting capacity	55000 kg	
Max. load moment: Base boom 1764 KN.m Max. load moment: Fully extended boom 850 KN.m Max. load moment: Fully extended boom jib 317.52 KN.m Outrigger span: Longitudinal 5.5 m Outrigger span: Lateral 7.2 m Lifting height: Base boom 11 m Lifting height: Fully extended boom 41 m Lifting height: Fully extended boom Jib 56 m Mass Specification 41880 kg Total mass in travel state 41880 kg Axle load: Axle 1, Axle2 16800 kg Axle load: Axle 3, Axle4 25080 kg Working Speed 85 s Boom raising time 65 s Boom full extension time 115 s Max. swing speed 1.77 rpm Main winch Hoist speed 115 rpm Traveling Specification 75 km/h Traveling Specification 24 m Turning diameter: Min. turning diameter 24 m Min. ground clearance 280 mm Approach angle 17.5° Departure angle 13.5° Braking distance (at 30km/h with full load)	Min. rated working radius	3 m	
Max. load moment: Fully extended boom 850 KN.m Max. load moment: Fully extended boom jib 317.52 KN.m Outrigger span: Longitudinal 5.5 m Outrigger span: Lateral 7.2 m Lifting height: Base boom 11 m Lifting height: Fully extended boom 41 m Lifting height: Fully extended boom Jib 56 m Mass Specification 41880 kg Mass specification 41880 kg Axle load: Axle 1, Axle2 16800 kg Axle load: Axle 3, Axle4 25080 kg Working Speed 55 s Boom full extension time 115 s Max. wing speed 1.77 rpm Main winch Hoist speed 115 rpm Traveling Specification 115 rpm Traveling Specification 17 km/h Turning diameter: Min. turning diameter 24 m Min. ground clearance 280 mm Approach angle 17.5° Departure angle 13.5° Braking distance (at 30km/h with full load) 12 m Max. grade-ability 32% Fuel consumption for 100km	Turning radius at turntable tail	3.8 m	
Max. load moment: Fully extended boom jib 317.52 KN.m Outrigger span: Longitudinal 5.5 m Outrigger span: Lateral 7.2 m Lifting height: Base boom 11 m Lifting height: Fully extended boom 41 m Lifting height: Fully extended boom Jib 56 m Mass Specification 41880 kg Total mass in travel state 41880 kg Axle load: Axle 1, Axle2 16800 kg Axle load: Axle 3, Axle4 25080 kg Working Speed 85 s Boom full extension time 115 s Max. swing speed 1.77 rpm Main winch Hoist speed 115 rpm Traveling Specification 115 rpm Traveling Specification 75 km/h Trurning diameter: Min. turning diameter 24 m Min. ground clearance 280 mm Approach angle 17.5° Departure angle 13.5° Braking distance (at 30km/h with full load) 12 m Max. grade-ability 32% Fuel consumption for 100km 52 L Dimensions 0verall length<	Max. load moment: Base boom	1764 KN.m	
Outrigger span: Longitudinal 5.5 m Outrigger span: Lateral 7.2 m Lifting height: Base boom 11 m Lifting height: Fully extended boom 41 m Lifting height: Fully extended boom Jib 56 m Mass Specification 41880 kg Total mass in travel state 41880 kg Axle load: Axle 1, Axle2 16800 kg Axle load: Axle 3, Axle4 25080 kg Working Speed 55 s Boom full extension time 115 s Max. swing speed 1.77 rpm Main winch Hoist speed 115 rpm Traveling Specification 17 reveling Specification Travel speed: Max. travel speed 75 km/h Turning diameter: Min. turning diameter 24 m Min. ground clearance 280 mm Approach angle 17.5° Departure angle 13.5° Braking distance (at 30km/h with full load) 12 m Max. grade-ability 32% Fuel consumption for 100km 52 L Dimensions 0verall length 13000 mm Overall height	Max. load moment: Fully extended boom	850 KN.m	
Outrigger span: Lateral 7,2 m Lifting height: Base boom 11 m Lifting height: Fully extended boom 41 m Lifting height: Fully extended boom Jib 56 m Mass Specification Total mass in travel state 41880 kg Axle load: Axle 1, Axle2 16800 kg Working Speed Boom raising time 65 s Boom full extension time 115 s Max. swing speed 1,77 rpm Main winch Hoist speed 115 rpm Aux winch Hoist speed 115 rpm Traveling Specification Travel speed: Max. travel speed 75 km/h Turning diameter: Min. turning diameter 24 m Min. ground clearance 280 mm Approach angle 17.5° Departure angle 13.5° Braking distance (at 30km/h with full load) 12 m Max. grade-ability 32% Fuel consumption for 100km 52 L Dimensions Overall length 13000 mm Overall width 2750 mm Wheel base: Axle 1, Axle 2 1450 mm Wheel base: Axle 1, Axle 2 1450 mm	Max. load moment: Fully extended boom jib	317.52 KN.m	
Lifting height: Base boom 11 m Lifting height: Fully extended boom 41 m Lifting height: Fully extended boom Jib 56 m Mass Specification Total mass in travel state Axle load: Axle 1, Axle2 16800 kg Axle load: Axle 3, Axle4 25080 kg Working Speed 65 s Boom full extension time 115 s Max. swing speed 1.77 rpm Main winch Hoist speed 115 rpm Traveling Specification 75 km/h Traveling Specification 75 km/h Turning diameter: Min. turning diameter 24 m Min. ground clearance 280 mm Approach angle 17.5° Departure angle 13.5° Braking distance (at 30km/h with full load) 12 m Max. grade-ability 32% Fuel consumption for 100km 52 L Dimensions Overall length 13000 mm Overall height 3685 mm Wheel base: Axle 1, Axle 2 1450 mm	Outrigger span: Longitudinal	5.5 m	
Lifting height: Fully extended boom 41 m Lifting height: Fully extended boom Jib 56 m Mass Specification 41880 kg Total mass in travel state 41880 kg Axle load: Axle 1, Axle2 16800 kg Axle load: Axle 3, Axle4 25080 kg Working Speed 65 s Boom raising time 65 s Boom full extension time 115 s Max. swing speed 1.77 rpm Main winch Hoist speed 115 rpm Traveling Specification 17 raveling Specification Travel speed: Max. travel speed 75 km/h Turning diameter: Min. turning diameter 24 m Min. ground clearance 280 mm Approach angle 17.5° Departure angle 13.5° Braking distance (at 30km/h with full load) 12 m Max. grade-ability 32% Fuel consumption for 100km 52 L Dimensions Overall length 13000 mm Overall height 3685 mm Wheel base: Axle 1, Axle 2 1450 mm	Outrigger span: Lateral	7.2 m	
Lifting height: Fully extended boom Jib 56 m Mass Specification 41880 kg Total mass in travel state 41880 kg Axle load: Axle 1, Axle2 16800 kg Axle load: Axle 3, Axle4 25080 kg Working Speed 65 s Boom raising time 65 s Boom full extension time 115 s Max. swing speed 1.77 rpm Main winch Hoist speed 115 rpm Traveling Specification 75 km/h Traveling Specification 75 km/h Turning diameter: Min. turning diameter 24 m Min. ground clearance 280 mm Approach angle 17.5° Departure angle 13.5° Braking distance (at 30km/h with full load) 12 m Max. grade-ability 32% Fuel consumption for 100km 52 L Dimensions 0verall length 13000 mm Overall width 2750 mm Overall height 3685 mm Wheel base: Axle 1, Axle 2 1450 mm	Lifting height: Base boom	11 m	
Mass Specification 41880 kg Axle load: Axle 1, Axle2 16800 kg Axle load: Axle 3, Axle4 25080 kg Working Speed 8 Boom raising time 65 s Boom full extension time 115 s Max. swing speed 1.77 rpm Main winch Hoist speed 115 rpm Traveling Specification 75 km/h Traveling Specification 24 m Turning diameter: Min. turning diameter 24 m Min. ground clearance 280 mm Approach angle 17.5° Departure angle 13.5° Braking distance (at 30km/h with full load) 12 m Max. grade-ability 32% Fuel consumption for 100km 52 L Dimensions 0verall length 13000 mm Overall length 13000 mm Overall height 3685 mm Wheel base: Axle 1, Axle 2 1450 mm	Lifting height: Fully extended boom	41 m	
Total mass in travel state 41880 kg Axle load: Axle 1, Axle2 16800 kg Axle load: Axle 3, Axle4 25080 kg Working Speed 85 s Boom full extension time 115 s Max. swing speed 1.77 rpm Main winch Hoist speed 115 rpm Aux winch Hoist speed 115 rpm Traveling Specification 75 km/h Travel speed: Max. travel speed 75 km/h Turning diameter: Min. turning diameter 24 m Min. ground clearance 280 mm Approach angle 17.5° Departure angle 13.5° Braking distance (at 30km/h with full load) 12 m Max. grade-ability 32% Fuel consumption for 100km 52 L Dimensions Overall length 13000 mm Overall width 2750 mm Overall height 3685 mm Wheel base: Axle 1, Axle 2 1450 mm	Lifting height: Fully extended boom Jib	56 m	
Axle load: Axle 1, Axle2	Mass Specification		
Axle load: Axle 3, Axle4 Working Speed Boom raising time 65 s Boom full extension time 115 s Max. swing speed 1.77 rpm Main winch Hoist speed 115 rpm Aux winch Hoist speed 115 rpm Traveling Specification Travel speed: Max. travel speed 75 km/h Turning diameter: Min. turning diameter 44 m Min. ground clearance 280 mm Approach angle 17.5° Departure angle 13.5° Braking distance (at 30km/h with full load) 12 m Max. grade-ability Fuel consumption for 100km 52 L Dimensions Overall length 13000 mm Overall width Overall height Wheel base: Axle 1, Axle 2 1450 mm	Total mass in travel state	41880 kg	
Working Speed Boom raising time 65 s Boom full extension time 115 s Max. swing speed 1.77 rpm Main winch Hoist speed 115 rpm Aux winch Hoist speed 115 rpm Traveling Specification Travel speed: Max. travel speed 75 km/h Turning diameter: Min. turning diameter 24 m Min. ground clearance 280 mm Approach angle 17.5° Departure angle 13.5° Braking distance (at 30km/h with full load) 12 m Max. grade-ability 32% Fuel consumption for 100km 52 L Dimensions Overall length 13000 mm Overall height 3685 mm Wheel base: Axle 1, Axle 2 1450 mm	Axle load: Axle 1, Axle2	16800 kg	
Boom raising time 65 s Boom full extension time 115 s Max. swing speed 1.77 rpm Main winch Hoist speed 115 rpm Aux winch Hoist speed 115 rpm Traveling Specification Travel speed: Max. travel speed 75 km/h Turning diameter: Min. turning diameter 24 m Min. ground clearance 280 mm Approach angle 17.5° Departure angle 13.5° Braking distance (at 30km/h with full load) 12 m Max. grade-ability 32% Fuel consumption for 100km 52 L Dimensions Overall length 13000 mm Overall height 3685 mm Wheel base: Axle 1, Axle 2 1450 mm	Axle load: Axle 3, Axle4	25080 kg	
Boom full extension time Max. swing speed 1.77 rpm Main winch Hoist speed Aux winch Hoist speed 115 rpm Traveling Specification Travel speed: Max. travel speed 75 km/h Turning diameter: Min. turning diameter Min. ground clearance 280 mm Approach angle 17.5° Departure angle Braking distance (at 30km/h with full load) 12 m Max. grade-ability 32% Fuel consumption for 100km Dimensions Overall length 13000 mm Overall width Overall height Wheel base: Axle 1, Axle 2 1450 mm	Working Speed	•	
Max. swing speed Main winch Hoist speed Aux winch Hoist speed Traveling Specification Travel speed: Max. travel speed Travel speed: Max. travel speed Travel speed: Min. turning diameter Min. ground clearance Approach angle Departure angle Braking distance (at 30km/h with full load) Max. grade-ability Fuel consumption for 100km Overall length Overall height Wheel base: Axle 1, Axle 2 115 rpm 115 rpm 115 rpm 115 rpm 115 rpm 115 rpm 115 rpm 115 rpm 115 rpm 115 rpm 115 rpm	Boom raising time	65 s	
Main winch Hoist speed 115 rpm Aux winch Hoist speed 115 rpm Traveling Specification 75 km/h Turning diameter: Min. turning diameter 24 m Min. ground clearance 280 mm Approach angle 17.5° Departure angle 13.5° Braking distance (at 30km/h with full load) 12 m Max. grade-ability 32% Fuel consumption for 100km 52 L Dimensions 13000 mm Overall length 13000 mm Overall width 2750 mm Overall height 3685 mm Wheel base: Axle 1, Axle 2 1450 mm	Boom full extension time	115 s	
Aux winch Hoist speed 115 rpm Traveling Specification Travel speed: Max. travel speed 75 km/h Turning diameter: Min. turning diameter 24 m Min. ground clearance 280 mm Approach angle 17.5° Departure angle 13.5° Braking distance (at 30km/h with full load) 12 m Max. grade-ability 32% Fuel consumption for 100km 52 L Dimensions Overall length 13000 mm Overall width 2750 mm Overall height 3685 mm Wheel base: Axle 1, Axle 2 1450 mm	Max. swing speed	1.77 rpm	
Traveling Specification Travel speed: Max. travel speed Turning diameter: Min. turning diameter Min. ground clearance Approach angle Departure angle Braking distance (at 30km/h with full load) Max. grade-ability Fuel consumption for 100km Dimensions Overall length Overall width Overall height Wheel base: Axle 1, Axle 2 Taking distance (75 km/h 17.5 km/h 17	Main winch Hoist speed	115 rpm	
Travel speed: Max. travel speed 75 km/h Turning diameter: Min. turning diameter 24 m Min. ground clearance 280 mm Approach angle 17.5° Departure angle 13.5° Braking distance (at 30km/h with full load) 12 m Max. grade-ability 32% Fuel consumption for 100km 52 L Dimensions Overall length 13000 mm Overall width 2750 mm Overall height 3685 mm Wheel base: Axle 1, Axle 2 1450 mm	Aux winch Hoist speed	115 rpm	
Turning diameter: Min. turning diameter 24 m Min. ground clearance 280 mm Approach angle 17.5° Departure angle 13.5° Braking distance (at 30km/h with full load) 12 m Max. grade-ability 32% Fuel consumption for 100km 52 L Dimensions Overall length 13000 mm Overall width 2750 mm Overall height 3685 mm Wheel base: Axle 1, Axle 2 1450 mm	Traveling Specification		
Min. ground clearance Approach angle Departure angle Braking distance (at 30km/h with full load) Max. grade-ability Fuel consumption for 100km Dimensions Overall length Overall width Overall height Wheel base: Axle 1, Axle 2 280 mm 17.5° 18.5° 12. m 13.5° 14.50 mm	Travel speed: Max. travel speed	75 km/h	
Approach angle 17.5° Departure angle 13.5° Braking distance (at 30km/h with full load) 12 m Max. grade-ability 32% Fuel consumption for 100km 52 L Dimensions Overall length 13000 mm Overall width 2750 mm Overall height 3685 mm Wheel base: Axle 1, Axle 2 1450 mm	Turning diameter: Min. turning diameter	24 m	
Departure angle 13.5° Braking distance (at 30km/h with full load) 12 m Max. grade-ability 32% Fuel consumption for 100km 52 L Dimensions Overall length 13000 mm Overall width 2750 mm Overall height 3685 mm Wheel base: Axle 1, Axle 2 1450 mm	Min. ground clearance	280 mm	
Braking distance (at 30km/h with full load) Max. grade-ability 52 L Dimensions Overall length 13000 mm Overall width 2750 mm Overall height Wheel base: Axle 1, Axle 2 1450 mm	Approach angle	17.5°	
Max. grade-ability Fuel consumption for 100km 52 L Dimensions Overall length 13000 mm Overall width 2750 mm Overall height 3685 mm Wheel base: Axle 1, Axle 2 1450 mm	Departure angle	13.5°	
Fuel consumption for 100km 52 L Dimensions Overall length 13000 mm Overall width 2750 mm Overall height 3685 mm Wheel base: Axle 1, Axle 2 1450 mm	Braking distance (at 30km/h with full load)	12 m	
Dimensions Overall length 13000 mm Overall width 2750 mm Overall height 3685 mm Wheel base: Axle 1, Axle 2 1450 mm	Max. grade-ability	32%	
Overall length 13000 mm Overall width 2750 mm Overall height 3685 mm Wheel base: Axle 1, Axle 2 1450 mm	Fuel consumption for 100km	52 L	
Overall width 2750 mm Overall height 3685 mm Wheel base: Axle 1, Axle 2 1450 mm	Dimensions	•	
Overall height 3685 mm Wheel base: Axle 1, Axle 2 1450 mm	Overall length	13000 mm	
Wheel base: Axle 1, Axle 2	Overall width	2750 mm	
	Overall height	3685 mm	
Wheel base: Axle 2, Axle 3	Wheel base: Axle 1, Axle 2	1450 mm	
	Wheel base: Axle 2, Axle 3		

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