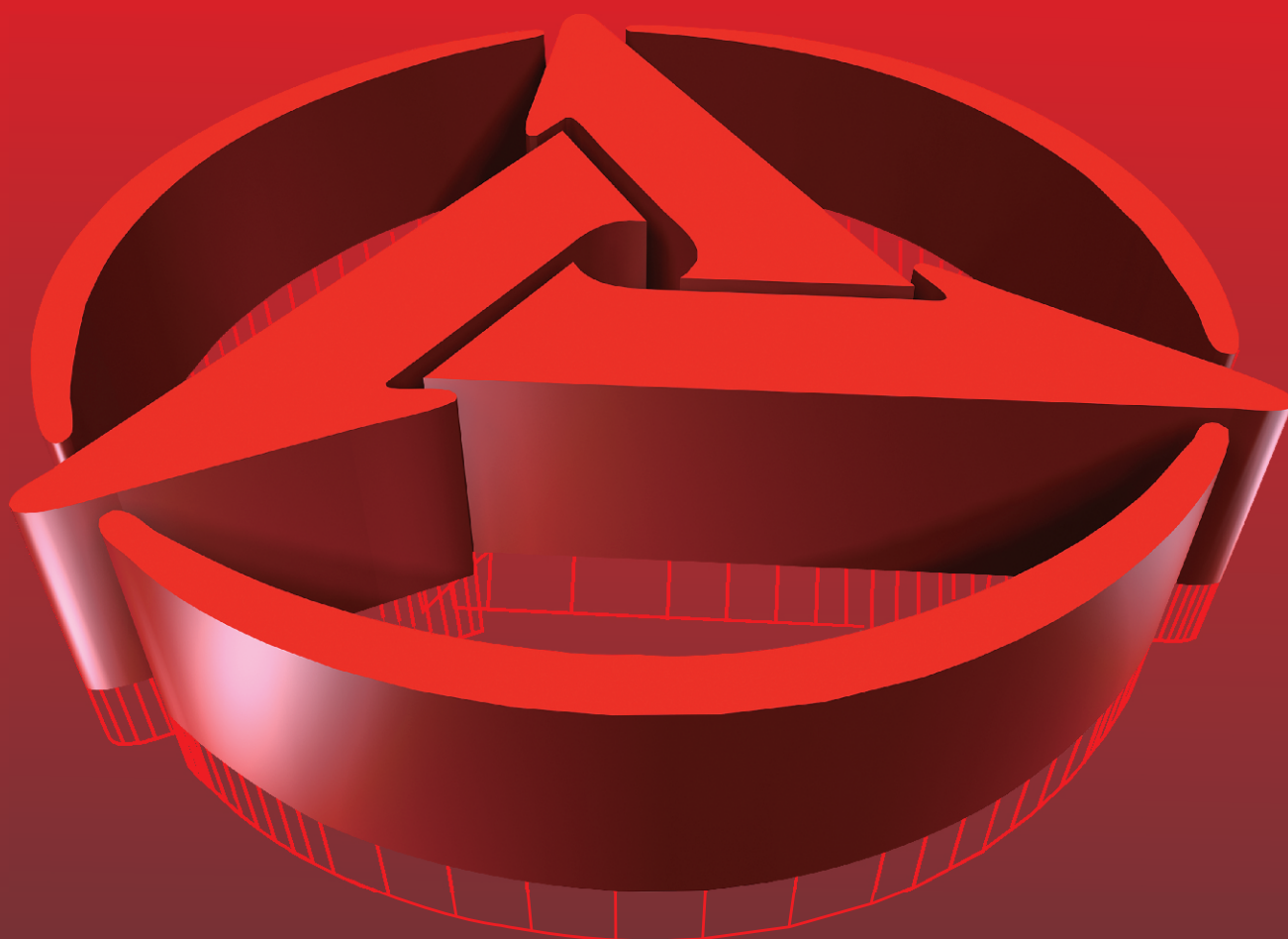




SANY

QY25C TRUCK CRANE

25t Lifting Capacity



25t

Max. rated lifting capacity: 25t. Min. working radius: 3.0m.

33.5m

Full extension of main boom 33.5M, hexagonal profile, made of HG 785 and HG 70 high tensile structure steel plate.
Dongfeng Cummins ISL290 30.

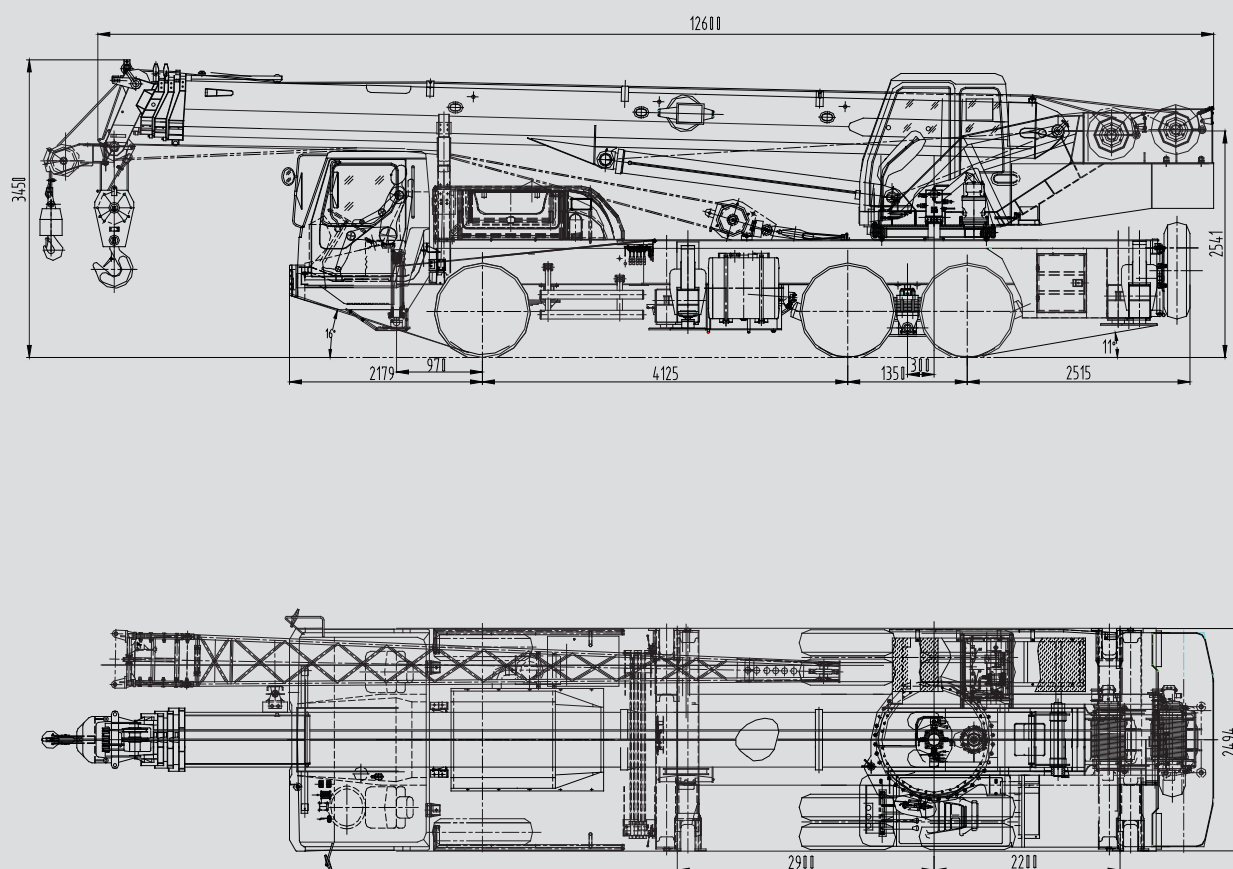
30%

Max. travel speed 80Km/h, max. gradeability 30%(theoretically).
SYML moment limiter, independently developed by SANY, ensures safety of customers.



	Technical description
	Chassis
	Superstructure
	Specification
	Dimensions
	Specification
	Main boom
	Working ranges
	Lifting capacities
	Main boom extension
	Working ranges
	Lifting capacities





Technical parameter

Type	Item		Unit	Value
Dimensions	Overall length		mm	12600
	Overall width		mm	2500
	Overall height		mm	3450
	Wheelbase	Wheelbase (first-second)	mm	4125
		Wheelbase (second-third)	mm	1350
	Wheeltrack	Wheeltrack (first)	mm	2039
		Wheeltrack (second-third)	mm	1847
Weight	Gross weight		kg	29400
	Axle load	Axle load (front)	kg	7000
		Axle load (second-third)	kg	22400
Power	Model of Engine		Dongfeng Cummins ISLe290 30	
	Max. power of engine	Dongfeng Cummins ISLe290 30	kw/rpm	213/2100
	Max. output torque of engine	Dongfeng Cummins ISLe290 30	N.m/rpm	1050/1100 ~ 1900
Traveling specifications	Travelling speed		km/h	80
	Turning radius	Min.turning radius	m	10
		Min.turning radius of boom head	m	12
	Min. ground clearance		mm	270
	Approach angle		o	19
	Departure angle		o	11
	Braking distance(with speed of 30km/h)		m	9.5
	Max. gradeability		%	30
	Fuel consumption per 100km		l	37
Main Specifications	Max. rated lifting capacity		t	25
	Min. rated range		m	3
	Tail slewing radius of swing table		mm	3270
	Max. lifting moment	Base boom	kN.m	962
		Fully-extended boom	kN.m	544
		Fully-extended boom+jib	kN.m	340
	Outrigger span (Longitudinal X Transversal)		m	5.1 × 6.0
	Lifting height	Base boom	m	10.9
		Fully-extended boom	m	33.9
		Fully-extended boom+jib	m	42
	Hoisting boom length	Base boom	m	10.65
		Fully-extended boom	m	33.5
		Fully-extended boom+jib	m	33.5+8
Working Speed	Installation angle of jib		o	0、15、30
	Max. single rope lifting speed of main winch(no load)		m/min	130
	Max. single rope lifting speed of auxiliary winch(no load)		m/min	130
	Fully extending/retracting time of boom		s	95/56
	Fully lifting/descending time of boom		s	72/60
	Slewing speed		r/min	2.5
	Time for horizontal outrigger fully extended/retracted		s	30/20
	Time for vertical outrigger fully extended/retracted		s	35/30

Drive/Steering

6×4

Specifications/Chassis

1 Frame

Overall welded structure made of high-tensile steel plate, optimized design and hard endurance tests.

2 Outriggers

H shaped, hydraulic telescoped into horizontal and vertical direction, Outrigger span: 5.1m x 6.0m.

3 Engine

Dongfeng Cummins ISLe290,
Fuel tank capacity: 300L.

4 Transmission system

Fast 8-speed gear box

5 Tyre

10 tyres. Tyre size: 11.00-20-18PR.

6 Steering

Single-circuit hydraulic power assistance steering system with mechanical steering limiter.

7 Electrical system

24V, Single line system.

8

Driver's cab

Unique and ergonomic cab, adjustable steering wheel, board vision, and air conditioner as standard.

9

Axle

Axle 1,2 driving, axle 1 steering.

10

Suspension

The front suspension: band spring suspension and double action sleeve shaped vibrating reducer.

The rear suspension: band spring and balance beam structure.

11

Brake

Service brake: dual circuit air booster brake acted by foot plate.

Hand brake: parking brake and emergency brake control.

Additional brake: exhaust brake.

12

Hydraulic system

Outrigger telescoping is driven by a fixed displacement gear pump.



Specification/Superstructure

1

Operator's cab

Spacious comfortable crane cab, large arc windscreen, broad vision. Operation parameters indicated, graphic symbols displayed for diagnosis, alarm function.

2

Main boom

4 section, hexagonal profile.

3

Counterweight

3.2t basic counterweight fixed on the swing table by bolts.

4

Hydraulic system

CY: Triple gear type main pump, and the upper multi-way valve controlled by pilot joysticks to ensure the driving work. The 1st pump activates all actions except the slewing; the 2nd pump is functions for outrigger and swing table, and the 3rd pump provides power for fluid and pressure control.

CS: Triple gear type main pump, and the upper multi-way valve is driven by a hand lever, the 1st and 2nd pump activates for all actions except slewing and 3rd pump functions of outriggers and swing table.

5

Main winch

High pressure automatic variable displacement hydraulic motor with planetary gear type speed reducer, spring-loaded constant-close brake set in lifting and rising reducer.

6

Auxiliary winch

High pressure automatic variable displacement hydraulic motor with planetary gear type speed reducer, spring-loaded constant-close brake are set in lifting and rising reducer.

7 Elevation

Deadweight dropping amplitude is controlled by amplitude balance valve.

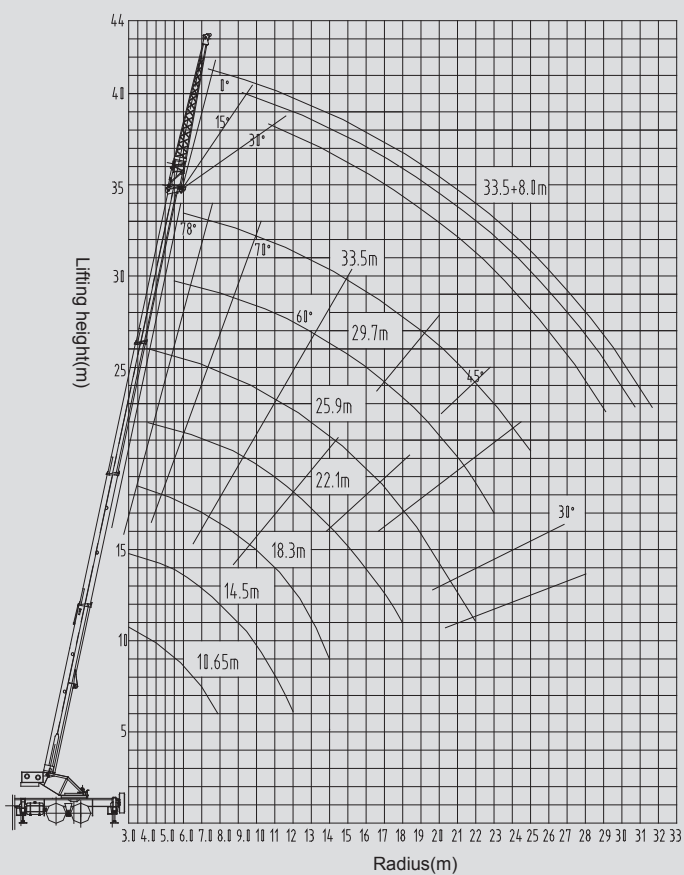
8 Slew

Slewing motor with rotary speed reducer, rotary buffer valve and single direction throttle valve equipped, reliable and safe start/stop actions can be ensured. Max. slewing speed $\geq 2.5r/min$.

9 Safety devices

LED touch monitor indicates important parameters: torque percentage, hook load, rated load, extension length of main boom, angle, slewing radius etc., and graphic symbol display for diagnosis, load chart and working parameter setup integrated. It can also function as black box.

QY25C truck crane lifting height



Load chart for main boom

(Unit: kg)

Radius	Main boom						
	10.65m	14.5m	18.3m	22.1m	25.9m	29.7m	33.5m
3	25000	18000					
3.5	25000	18000	15000				
4	24300	18000	14900	11000	9200		
4.5	21820	17000	14900	11000	9200		
5	18900	16500	14500	11000	9150	7500	
5.5	17350	16000	13800	11000	9150	7500	
6	15800	14500	13300	11000	8900	7500	
7	12200	12200	11300	9500	8300	7400	
8	9700	10000	9800	8500	7600	6500	6150
9		8500	8250	7550	7200	6200	5600
10		7500	6900	6700	6500	5700	5100
11		6250	5850	5800	5700	5200	4800
12		5500	5160	5100	5100	4800	4380
13			4600	4550	4510	4400	4200
14			4000	4000	3950	3900	3850
15			3500	3500	3550	3550	3700
16				3200	3150	3150	3150
17				2800	2800	2850	2900
18				2600	2580	2580	2550
19					2210	2200	2200
20					2050	2000	1970
21					1800	1800	1800
22					1650	1600	1600
23						1400	1400
24							1300
25							1100
Ratio	8	8	6	4	4	4	3

Load chart for main boom + Jib

(Unit: kg)

Main boom elevation	Main boom 33.5+8M		
	Offset angle 0°	Offset angle 15°	Offset angle 30°
	Lifting weight	Lifting weight	Lifting weight
78°	2800	2350	1700
75°	2800	2200	1600
72°	2750	2050	1500
70°	2600	1900	1450
65°	2150	1650	1350
60°	1800	1450	1250
55°	1300	1200	1150
50°	950	850	800

Notes for QY 25C load chart :

1. The values in the tables refer to the max. lifting capacity of truck crane that is set horizontally on flat and solid ground. The values above the block lines in the tables depend on the strength of truck crane, while those below the block lines depend on the stability of truck crane.
2. The parameters above are obtained with fully-extended outriggers, and the lifting capacity in the situation that the truck crane is in the rear and side must be obeyed. Don't have the truck crane lift without any outrigger extended.
3. The values listed in the tables are max. values permitted, including the weight of hook and spreader(main hook: 360kg; auxiliary hook: 90kg).
4. The ranges in the tables refer to the actual horizontal distance between the hook center to slewing center after lifting.
5. The lifting capability of single sheave at the boom tip is the same as the working condition of 33.5m boom, and its max. lifting capacity $\leq 3.5t$.
6. If the jib is installed at the jib of main boom, the lifting capability for each working condition in the table shall be reduced by 550kg correspondingly according to the lifting capability of main hook.



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Further technology details according to actual product!