

PORT TYRE CRANE



Quality Changes the World



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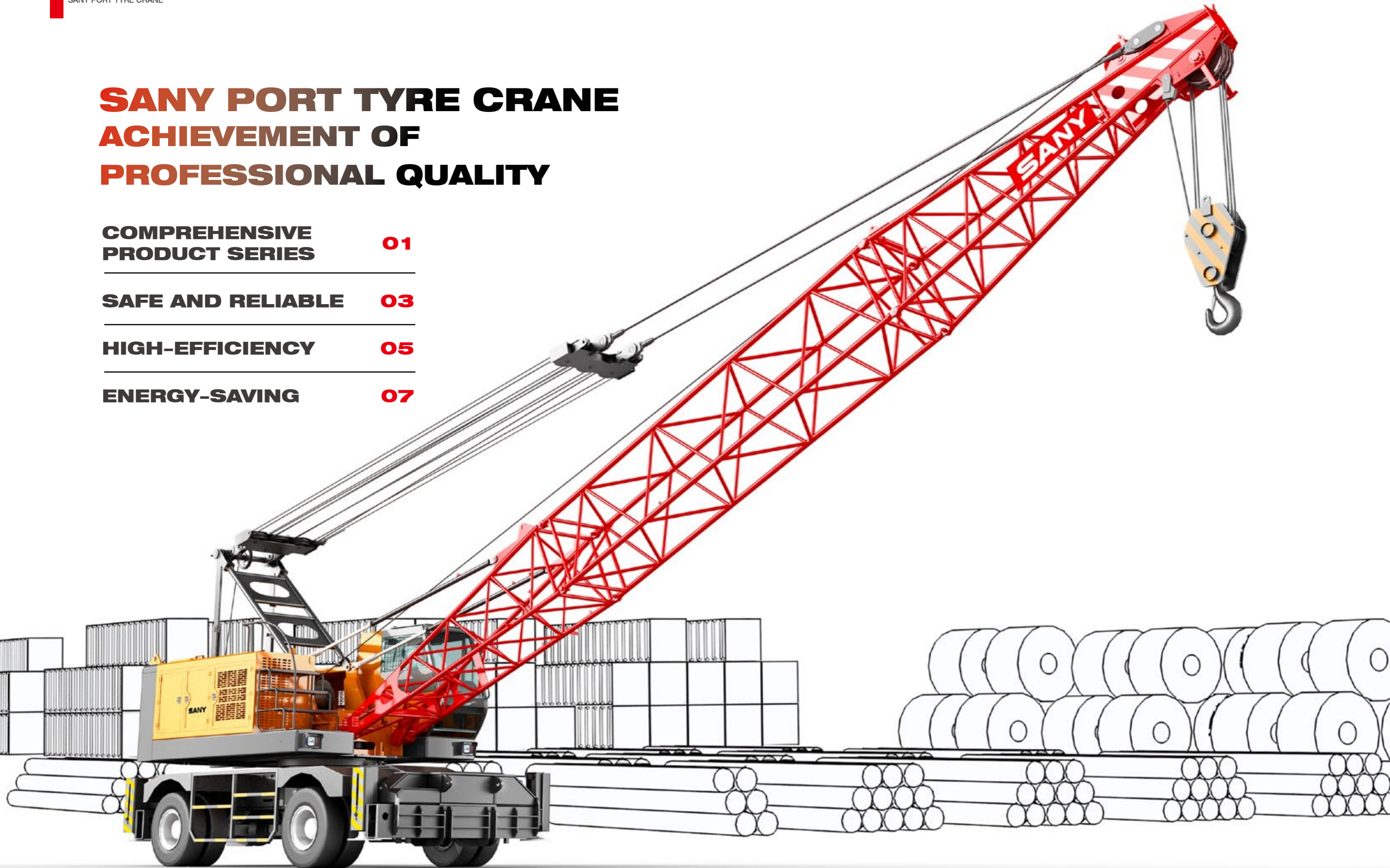
SANY PORT TYRE CRANE ACHIEVEMENT OF PROFESSIONAL QUALITY

COMPREHENSIVE
PRODUCT SERIES **01**

SAFE AND RELIABLE **03**

HIGH-EFFICIENCY **05**

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COMPREHENSIVE PRODUCT SERIES

World class, No. 1 logistics equipment supplier in China

Sany port tyre cranes mainly used in large ports, railway stations, freight yards, etc. Not only to complete bulk handling and lifting operations, but also to undertake large port lifting and removal tasks critical equipment. SANY research and production of port tyre crane with a number of patented core technologies, including anti-rollover protection technology boom limit technology, high speed lift control technology, closed hydraulic system technology, excellent product quality to win the trust form port machinery industry, has received widely positive feedback from all customers.

Model	Rated load	Standard boom length
SQLY25C1	25t	18m
SQLY35C1	35t	18m
SQLY40C1	40t	19m
SQLY50C1	50t	18m
SQLY65C1	65t	18m



SAFE AND RELIABLE

- 1 Anti-rollover protection technology**
 Intelligent control technology, real-time detection machine operating parameters, automatic alarm when dangerous working conditions and related risk locking action, to achieve the purpose of intelligent anti-rollover protection, operational safety, job security.
- 2 Boom limit technology**
 Allow boom between 25 to 78 degrees angle of security do luffing movement, such as the boom reached its limit after continuing luffing angle handle, automatic alarm buzzer, the system automatically locks the boom action to prevent the occurrence of accidents.
- 3 Overloaded Double Bridging Technology**
 Using high load carrying capacity of the international brand bridge, to achieve double bridge structure, increasing the bottom space for maintenance, flexible transitions, turning radius is reduced to less than 9.8m, which greatly reduces the tire wear, to bring customers more benefits and security.
- 4 Lifting hook anti-roll over technology**
 When hooked to rise to safety-critical lifting height, automatic alarm buzzer, lifting operation is automatically stopped, allowing only lifting hook drop operation to prevent excessive lifting hook roll over phenomenon.
- 5 Hydraulic line protection technology**
 Lifting and luffing motor are mounted on the explosion-proof valve, such as hydraulic pipes burst, the motor automatically stops to prevent the suspension load cargo whereabouts.

6 Reliable Structure Design

The equipment is assured to be highly reliable and durable by adopting full-digital prototype design system, going through FEA, dynamics simulation analysis, as well as strict endurance and vibration tests.

7 Reliable Power System

Using world famous brand engines like VOLVO which are reliable in quality and strong in power, combining the advanced power matching and control technology, the equipment is greatly optimized in dynamic performance.

Scientific and appropriate protection for the engine and gearbox will significantly prolong their longevity.



HIGH-EFFICIENCY

- 1 Shifting CVT technology**
No parking shifts during travelling, greatly improving the efficiency of transitions, smooth shifting.
- 2 High-speed Hoisting Control Technology**
By monitoring the load weight, when the hoisting weight is lighter than 60% of torque weight at the same angle, the double pump can work in parallel to make the load hoists at a constant speed (max. 0.5m/s), highly improving the machine's working efficiency.
- 3 Efficient Control Technology**
The centralized joystick has inching control function. It can realize fine tuning to millimeter precision easily. The machine also has multi-motion linkage design so that it can operate faster and more efficiently.
- 4 Comfortable Operation Environment**
The operator-oriented design includes a broad view of work condition. The controlling devices are placed in reasonable position to ease fatigue of operators.



ENERGY-SAVING

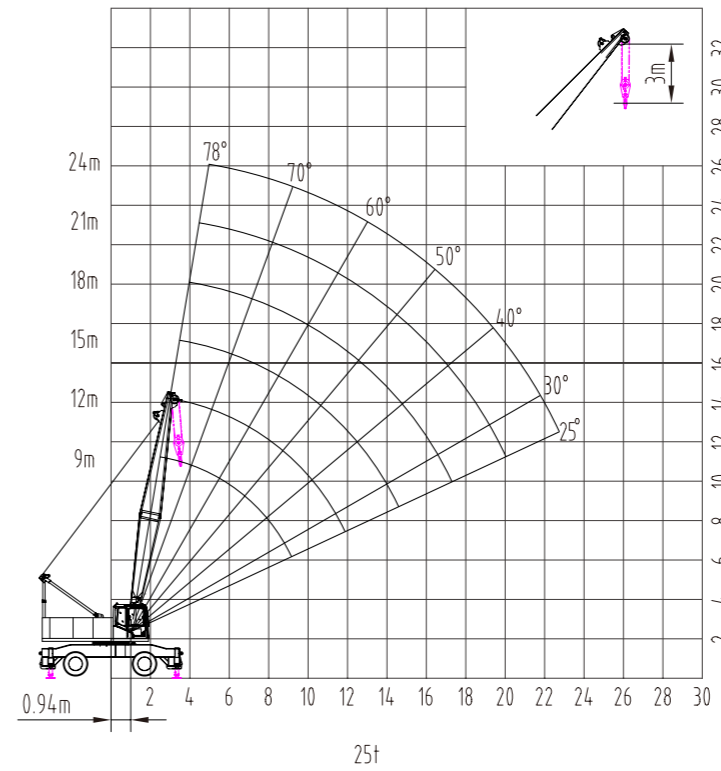
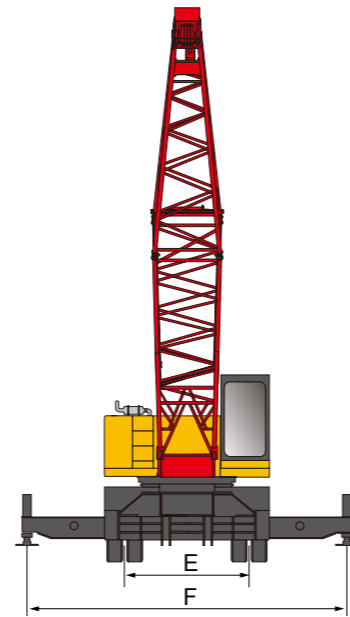
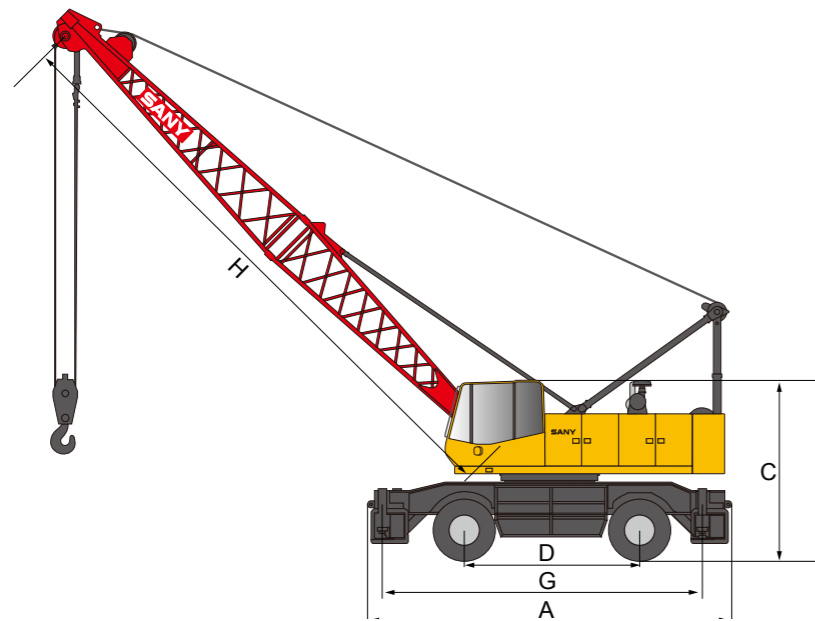
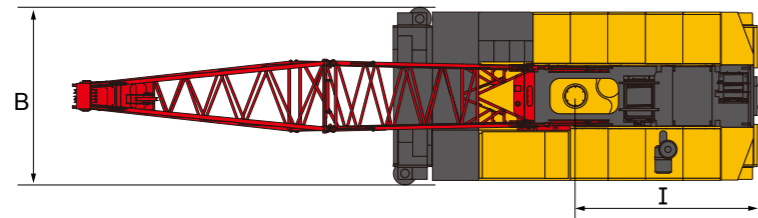
- 1 Closed Hydraulic System technology**
Cargo descent, the engine is only idling, reduce energy demand. low-power radiator can meet the cooling requirements, with low energy loss.
- 2 Dual power design**
Engine and electric motor two power sources for customers to choose from, and the energy saving effect is remarkable.
- 3 Dynamic Power Matching Control System**
Automatically recognize dynamic power according to load change and adjust engine speed accordingly. The output power automatically accommodate to load and work conditions, greatly reducing energy consumption.
- 4 Design for Lighter**
Optimize the structure to make it lighter and stronger.



TECHNICAL PARAMETER

Qualification		Unit	SQLY25C1	SQLY35C1	SQLY40C1	SQLY50C1	SQLY65C1
Engine	Model	-	VOLVO TAD851VE	VOLVO TAD851VE	VOLVO TAD851VE	VOLVO TAD852VE	VOLVO TAD852VE
	Rated power	kW/rpm	185/2200	185/2200	185/2200	210/2200	210/2200
	Max. torque	Nm/rpm	1160/1350	1160/1350	1160/1350	1237/1350	1237/1350
	Exhaust standard	-	III Stage	III Stage	III Stage	III Stage	III Stage
Drive Axle	-	Xuzhou Meritor	Xuzhou Meritor	Xuzhou Meritor	KESSLER	KESSLER	
Steering Axle	-	Xuzhou Meritor	Xuzhou Meritor	Xuzhou Meritor	KESSLER	KESSLER	
Tyre	-	12.00-20 18PR	12.00-20 18PR	12.00-20 18PR	12.00-24 24PR	12.00-24 24PR	
Cable hoist speed	m/min	115/75	115/75	115/75	135/80	135/80	
Amplitude variation time	s	30 (25°-75°)	30 (25°-75°)	30 (25°-75°)	35 (25°-75°)	35 (25°-75°)	
Max. slew speed	rpm	4	4	3.5	3.5	3.5	
Max. travelling speed	km/h	17	17	15	15	15	
Brake distance	m	3 (10km/h)	3 (10km/h)	3 (10km/h)	3 (10km/h)	3 (10km/h)	
Gradeability	%	23	23	23	23	23	
Overall weight	t	34.9 (18m Boom Length)	38.5 (18m Boom Length)	40.5 (19m Boom Length)	48.5 (18m Boom Length)	53.5 (18m Boom Length)	
Max. lifting capacity	t	25	35	40	50	65	
Basic boom	m	9	9	10	12	12	
Added boom	m	3.6	3.6	3.6	3.6	3.6	
Working range	m	3.5~22	3.5~24	4~24	4~29	4~29	
Chassis length A	mm	6500	6600	7150	7300	7900	
Chassis width B	mm	3200	3200	3200	3300	3400	
Cab height C	mm	3760	3760	3760	3840	3900	
Wheel base D	mm	3400	3400	3400	3500	4000	
Wheel span E	mm	2410	2410	2410	2482	2482	
Longitudinal leg span F	mm	5600	5800	6200	6400	6900	
Transverse leg span G	mm	5600	5800	6200	6400	6900	
Max. Boom length H	mm	24000	27000	28000	30000	30000	
Upper tail slewing radius I	mm	3200	3200	3500	3600	3950	
turning radius	mm	8400	8400	8400	9800	10500	

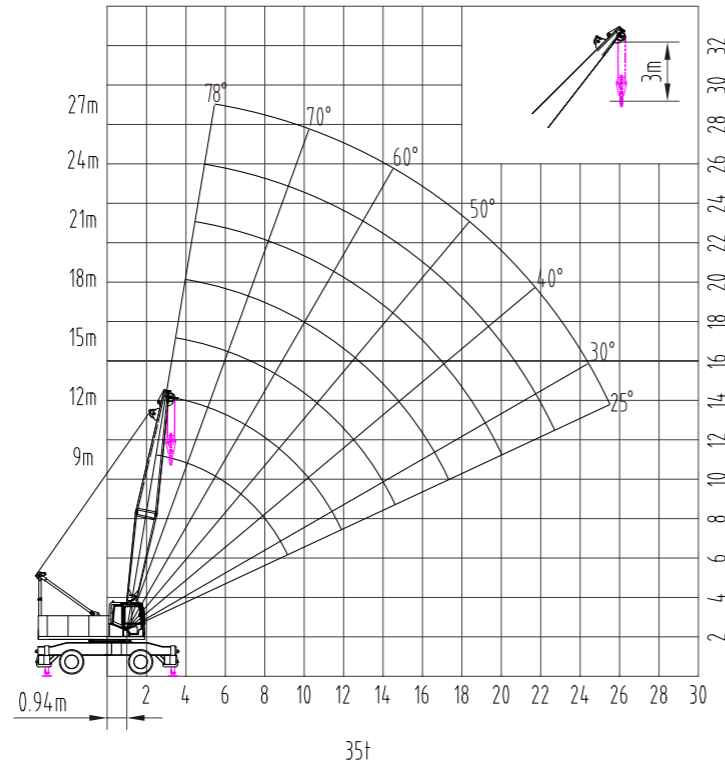
DIMENSION MEASUREMENT IDENTIFIERS



LOAD CAPACITY DIAGRAM SQLY25C1

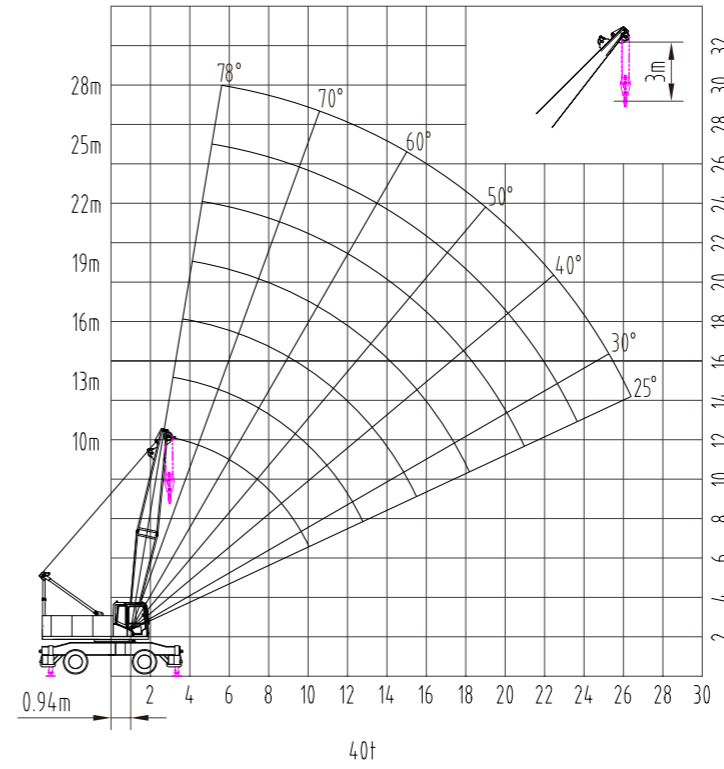
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Amplitude (m)	Boom length (m)						
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3.5	25.0						
4.0	24.0	23.0	22.0				
4.5	23.0	21.0	19.0				
5.0	20.0	19.0	18.0	17.5			
5.5	18.5	17.5	16.0	15.5	15.2		
6.0	17.0	15.5	15.3	15.2	15.0	14.5	
7.0	14.5	14.0	13.8	13.6	13.3	13.0	
8.0	12.4	12.3	12.2	12.1	12.0	11.9	
9.0	11.1	11.0	10.9	10.8	10.7	10.6	
10.0		9.7	9.6	9.5	9.4	9.3	
11.0		8.5	8.4	8.3	8.2	8.0	
12.0		7.9	7.8	7.7	7.6	7.5	
13.0			7.1	7.0	6.8	6.7	
14.0			6.5	6.4	6.3	6.2	
15.0			5.9	5.8	5.7	5.6	
16.0				5.2	5.1	5.0	
17.0				4.6	4.5	4.3	
18.0				4.0	3.9	3.8	
19.0					3.5	3.4	
20.0					3.1	3.0	
21.0						2.7	
22.0						2.5	

LOAD CAPACITY DIAGRAM SQLY35C1



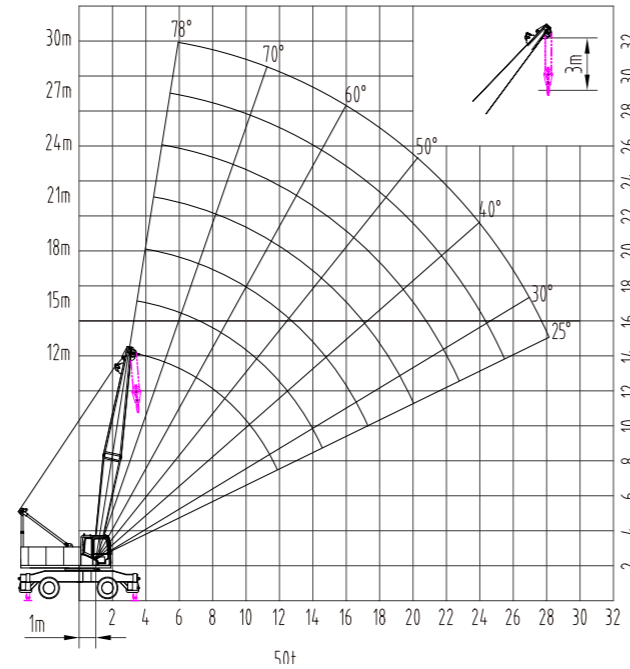
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Amplitude (m)	Boom length (m)						
	9.0	12.0	15.0	18.0	21.0	24.0	27.0
3.5	35.0						
4.0	30.6	30.5					
4.5	27.0	26.5	25.8				
5.0	24.5	24.4	24.3	24.1			
5.5	22.3	22.0	21.8	21.5	21.1		
6.0	20.5	20.4	20.3	20.1	19.8	19.0	
7.0	17.6	17.5	17.4	17.2	16.4	15.6	14.8
8.0	15.0	15.0	14.9	14.2	13.7	13.1	12.5
9.0	13.2	13.1	12.9	12.3	11.8	11.2	10.7
10.0		11.5	11.2	10.7	10.3	9.8	9.5
11.0		10.0	9.8	9.6	9.1	8.6	8.1
12.0		8.8	8.6	8.4	8.1	7.7	7.3
13.0			7.8	7.5	7.2	7.0	6.5
14.0			6.9	6.8	6.6	6.3	6.1
15.0			6.3	6.1	5.9	5.5	5.3
16.0				5.5	5.4	5.2	4.8
17.0				5.2	4.9	4.6	4.2
18.0					4.5	4.1	3.6
19.0					4.2	3.8	3.4
20.0					3.6	3.4	3.2
21.0						3.2	3.0
22.0						3.0	2.8
24.0							2.5

LOAD CAPACITY DIAGRAM SQLY40C1



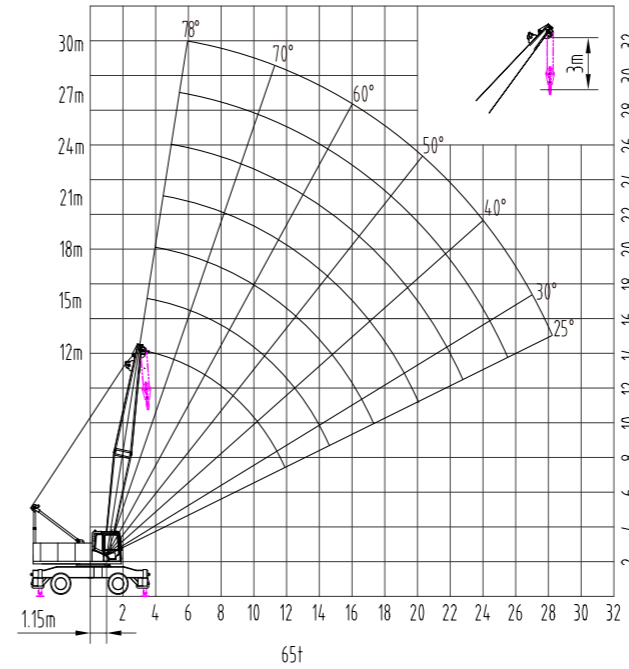
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Amplitude (m)	Boom length (m)						
	10.0	13.0	16.0	19.0	22.0	25.0	28.0
4.0	40.0						
4.5	35.0	34.5					
5.0	32.5	31.0	30.0	29.0			
6.0	30.0	28.0	26.0	25.0	23.0		
7.0	24.0	23.8	23.2	22.5	20.0	19.0	
8.0	21.2	20.0	19.5	19.0	18.0	16.0	15.0
9.0	17.5	17.0	16.3	16.0	15.5	14.0	12.5
10.0		15.5	15.0	14.3	13.7	13.0	11.2
11.0		13.8	13.7	13.7	12.9	11.5	10.3
12.0		12.5	11.5	11.0	10.5	10.0	9.1
13.0			10.0	9.6	9.0	8.4	8.0
14.0			8.5	8.3	8.2	8.1	7.0
15.0			7.8	7.6	7.4	7.2	6.2
16.0				7.2	7.0	6.8	5.8
17.0				6.8	6.5	6.3	5.3
18.0				6.5	6.3	6.0	4.8
19.0					5.5	5.3	4.2
20.0					4.7	4.5	3.8
21.0						4.2	3.5
22.0						3.9	3.2
23.0							3.0
24.0							2.8

LOAD CAPACITY DIAGRAM SQLY50C1



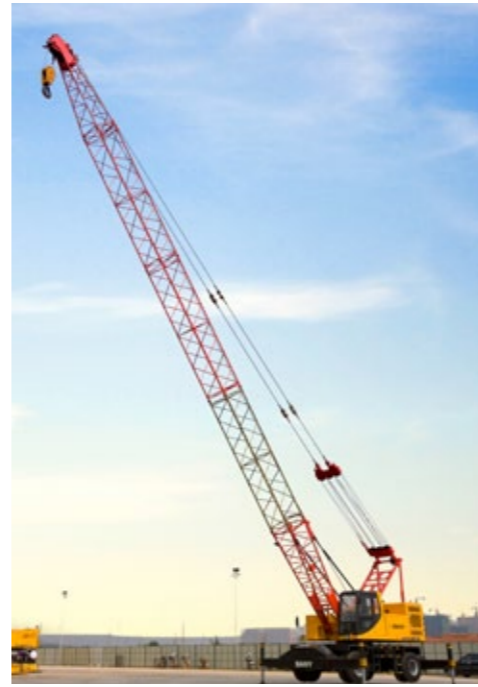
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Amplitude (m)	Boom length (m)							
	12.0	15.0	18.0	21.0	24.0	27.0	30.0	
4.0	50.0							
4.5	45.5	44.7						
5.0	41.3	41.1	40.9					
5.5	39.5	37.3	37.1	35.5				
6.0	36.0	35.9	33.9	31.5	30.5			
7.0	30.1	29.5	28.0	26.5	25.0	24.0		
8.0	25.7	25.0	24.3	23.3	22.5	21.5	21.0	
9.0	21.9	21.1	20.5	19.7	19.2	18.4	17.8	
10.0	18.5	18.0	17.5	16.5	16.3	16.0	15.5	
11.0	15.9	15.6	15.5	14.9	14.5	14.0	13.6	
12.0	14.0	13.7	13.6	13.2	12.8	12.4	12.0	
13.0		12.2	12.0	11.8	11.4	11.1	10.7	
14.0		10.9	10.8	10.5	10.3	10.1	9.7	
15.0		9.8	9.6	9.4	9.2	9.0	8.8	
16.0			8.8	8.6	8.4	8.2	8.0	
17.0			8.0	7.8	7.6	7.4	7.2	
18.0			7.3	7.1	6.9	6.7	6.5	
19.0				6.5	6.4	6.2	6.0	
20.0				6.0	5.9	5.6	5.5	
21.0					5.4	5.2	5.0	
22.0					5.0	4.8	4.6	
23.0					4.7	4.5	4.3	
24.0						4.2	4.0	
25.0						3.9	3.7	
26.0						3.6	3.4	
27.0							3.2	
28.0							3.0	
29.0							2.8	

LOAD CAPACITY DIAGRAM SQLY65C1



SQLY65C1		Unit : t						
Amplitude (m)	Boom length (m)							
	12.0	15.0	18.0	21.0	24.0	27.0	30.0	
4.0	65.0							
4.5	57.0	55.0						
5.0	52.0	50.0	47.0					
5.5	48.0	46.7	45.9	45.0				
6.0	43.0	42.5	41.8	41.0	38.0			
7.0	39.0	38.5	38.0	37.5	35.0	30.0		
8.0	34.0	32.5	31.8	31.0	28.0	26.5	26.0	
9.0	28.5	27.5	26.6	26.0	24.0	22.0	21.5	
10.0	25.0	23.5	23.0	22.5	20.0	18.5	18.0	
11.0	22.0	21.0	20.2	19.8	18.5	17.1	16.5	
12.0	20.0	19.2	18.5	17.5	16.7	15.8	15.0	
13.0		17.8	17.2	16.7	15.9	15.0	14.4	
14.0		16.5	16.0	15.2	14.8	14.5	13.8	
15.0		14.9	14.2	13.6	12.9	12.2	11.3	
16.0			13.0	12.5	11.8	11.2	10.2	
17.0			12.1	11.8	11.0	10.8	9.6	
18.0			11.6	11.2	10.5	10.0	9.0	
19.0				10.7	9.9	9.5	8.4	
20.0				10.2	9.5	9.0	7.8	
21.0					9.1	8.5	7.4	
22.0					8.5	8.0	7.0	
23.0					8.0	7.6	6.6	
24.0						7.0	6.0	
25.0						6.5	5.6	
26.0						6.0	5.2	
27.0							4.9	
28.0							4.6	
29.0							4.2	

CONSTRUCTION CASES



SERVICE



Quality Changes the World Service Creates value



After-sales Service Hotline:

4008 87 8318

Consultation/Complaints Hotline:

4008 87 9318

Service Concept

All for customers, creating value for customers.

Service Strategy

Build unparalleled service; realize "First Brand of Global Service" of Port Machinery.

Service Commitment

- 1** Contact the customer within 15 minutes after receiving service messages and immediately go to the site or call the customer to explain handling measures.
- 2** Time from receiving the service message to arrival at the trouble site: less than 2 hours to the main service areas.
- 3** 24 hours stand-by.
- 4** Solve general failure and provide common parts within 24 hours.

Service Advantages

SANY has offices in over 200 countries and regions, with 30 agents in China, about 50 repair factories and 6S stores, over 3000 elite service engineers, 1000 offices and parts warehouse accommodating 100,000 kinds of parts worth more than RMB 600 million. We also have highly efficient logistics system by air, sea and land, which can transport genuine parts at any time.

Industry leading Enterprise Control Center (ECC): running for more than ten years, the ECC, as the industry initiative, is worth over RMB 30 million. It can realize real-time supervision and remote precision troubleshooting. With information promoting industrialization, it innovatively created SANY's service system of "Unity of man and heaven, synergy among 1st, 2nd and 3rd levels".

GCP, GPS and CSM system: customers can learn the working conditions & key work parameters through SANY's global portal and realize remote supervision. The system also supports parts and service search, providing convenient all-round equipment supervision.

