

# **SAC1300S**

**SANY All Terrain Crane** 130 Tons Lifting Capacity



Technical Features

### **Excellent Performance**

- More compact and reasonable overall layout, more optimized key structural part design, leading lifting performance among products with the same tonnage.
- Fully-extended boom: 63 m. maximum lifting height: 63.5 m. which ranks first in the industry; jib: 33.5 m, maximum lifting height: 92.5 m.
- Innovative five-axle chassis design, various braking and suspension modes, more reliable chassis traveling performance, more comfortable driving experience.
- Independently developed dual-pump converging / diversion technology, thus ensuring high efficiency and maneuverability.
- Single-engine mechanical drive, simple structure, high reliability, low failure rate.

## **Superior Quality**

- Advanced single-cylinder cross pin telescopic boom technology, cylinder arm pin interlocking technology combined with mechanical, electrical and hydraulic protection, thus ensuring higher reliability.
- Original closed slewing buffer system, thus ensuring higher stability and better inching performance during slewing startup and braking.
- Independently developed dual-pump converging / diversion technology, thus achieving higher single-action dual-pump converging efficiency and better combined-action dual-pump

- International advanced distributed integrated bus data communication network, thus ensuring a large data volume, a fast speed and high stability.
- International pioneering HMI, thus enabling customers to set vehicle maneuverability based on personal operation habits and different service conditions to meet their individualized needs.
- International leading hydraulic-pneumatic suspension technology, thus ensuring good adaptability to various poor road conditions, excellent trafficability and more comfortable driving.
- Streamlined full-width driver cab and operator cab with a position changing mechanism and a panoramic sunroof, thus ensuring more comfortable operation.
- Extensively used advanced manufacturing process, thus ensuring perfect process and effectively guaranteeing excellent product performance.

## **Energy Conservation and Environment Protection**

- Electro-hydraulic proportional pump characterized by stepped displacement and speed control, thus achieving energy conservation of 20%.
- Domestic pioneering smart dual-pump converging / diversion speed control technology, thus meeting the needs of various action combinations and achieving high energy efficiency.

## Safety and Reliability

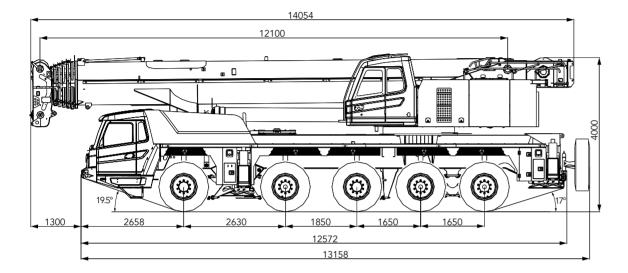
- Roll-over protection system to give an audible and visual alarm, thus ensuring the crane operation
- Voice alarm system to give voice prompts for various actions, prevent misoperation and remind and warn the surrounding personnel, thus ensuring the crane operation and personnel safety.
- Torque limiter system with high precision, stability and intelligence, thus providing all-round protection for hoisting operation.
- Diversified sensors to give timely feedback on data information and achieve real-time monitoring, thus enabling mastery of the working condition of the complete crane at any time.

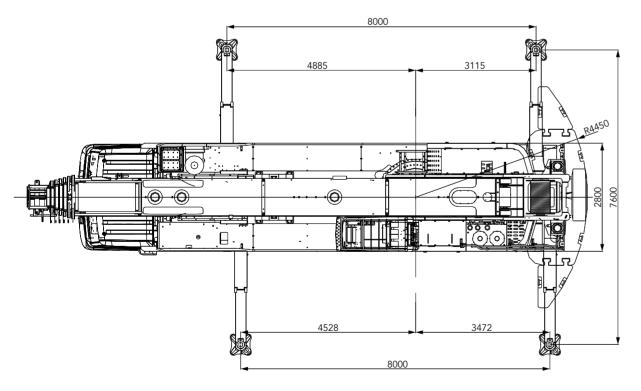
## **GCP System**

- International pioneering remote equipment monitoring and management system with a strong equipment working condition and operation parameter acquisition function, thus achieving remote fault diagnosis and management.
- Customers can grasp the equipment operation as well as query about and order the accessories at



## **Overall Dimensions**





## **Technical Parameters**

Туре	ltem		Unit	Value
	Overall length		mm	14054
Dimensions	Overall width		mm 14054 mm 2800 mm 4000 kg 55000 kg 23200 kg 31800  OM460LA.E3A/1  Kw/rpm 360/1800  N.m/rpm 2200/1300  Km/h 85 m 8.5 m 8.5 mm 290 ° 19.5 ° 17 m 10 9% 60 t 130 m 3 m 4450 kN.m 4547 kN.m 1999 kN.m 1350 m 8.0×7.6 m 12.6 m 92.5 m 79 d section m 92.5 m 12.1 m 63 m 633 m 6430	2800
	Overall height		mm	4000
	Total weight of cr	ane	mm 14054 mm 2800 mm 4000 kg 55000 e 2 kg 23200 e 4, axle 5 kg 31800  OM460LA.E3A/1  Kw/rpm 360/1800 N.m/rpm 2200/1300  Km/h 85 m 8.5 mm 290 e 19.5 e 17 m 10 e 10 e 60 t 130 m 3 m 4450 kN.m 4547 kN.m 1999 kN.m 1999 h 1+ jib kN.m 1350 m 8.0×7.6 m 12.6 m 63.5 m 92.5 m 12.1 m 130 m 92.5 m 130 m	55000
Weight	Aylalaad	Load of axle 1, axle 2		23200
	Axie ioad	Load of axle 3, axle 4, axle 5	kg	31800
	Engine model		OM460LA.E3A/1	
Power	Max. engine pow	er	Kw/rpm	360/1800
	Max. engine outp	out torque	mm 14054 mm 2800 mm 4000 kg 55000 kg 23200 5 kg 31800  OM460LA.E3A/1  Kw/rpm 360/1800  N.m/rpm 2200/1300  Km/h 85 m 8.5 m 8.5 mm 290 ° 19.5 ° 17 m 10 % 60 t 130 m 3 m 4450 kN.m 4547 kN.m 1999 kN.m 1350 m 8.0×7.6 m 12.6 m 63.5 m 79 I standard section m 92.5 m 78.5 I standard section m 92.4 ° 0、15、30 m/min 130 m/min 130 m/min 130 s 550/500 s 50/175 r/min 1.5	2200/1300
	Max. travel speed	4	Km/h	85
	Min. turning radio	JS	m	8.5
	Min. ground clea	rance	mm	290
Dimensions   Overall length	19.5			
	Departure angle		0	17
	Braking distance	(at 30km/h)	m	10
	Max. grade ability	у	%	60
	Max. total rated li	ifting load	t	130
	Min. rated radius		m	3
	Max. grade ability  Max. total rated lifting load  Min. rated radius  Max.turntable swing radius  Min. boom  Max. Lifting torque  Max. boom  Max. boom	ing radius	m	4450
	Min. rated radius         m           Max.turntable swing radius         m           Max. Lifting torque         Min. boom length         kN.m           Max. boom length         kN.m           Max. boom length + jib         kN.m	Min. boom length	kN.m	4547
		1999		
	torque	Max. boom length + jib	mm         14054           mm         2800           mm         4000           kg         55000           oad of axle 1, axle 2         kg         23200           oad of faxle 3, axle 4, axle 5         kg         31800           CMM460LAE3A/1           Kw/rpm         360/1800           rque         N.m/rpm         2200/1300           Km/h         85           m         8.5           mm         290           °         17           km/h)         m         10           %         60           load         t         130           m         3         450           km/h         450         450           km/h         450         450           km         1999         450           doi         450         450           km         1999         450           doi         450         450      <	
	Transverse outrig	ger span		
		Min. boom length		
specifications	1.6. 1 . 1.	Max. boom length		
	Lifting height	Max. boom length + jib	m	79
		Max. boom + jib + optional standard section	m	92.5
		Min. boom length	m	12.1
	D 1 .1	Max. boom length	m	63
	Boom length	Max. boom length + jib	m	78.5
		Max. boom + jib + optional standard section	m	92.4
	Jib offset angle		0	0、15、30
	Max speed, main	hoist, single line, no load	m/min	130
	Max speed, aux h	noist, single line, no load	m/min	130
	Boom fully extend	ding / Retracting time	S	550/500
Working speed	Boom raising / Lo	owering time	S	50/175
·	Slewing speed		r/min	1.5
vvorking speed				
	Outrigger beam t	fully extending / Retracting time	S	30/25

## **Technical Parameters**

**Crane Introduction** 



Axle	1	2	3	4	5	Overall mass
Axle load/t	11.5	11.7	10.4	10.7	10.7	55
Remarks						



#### Hook and multiplying power

Rated load / t	Pulleys	Number of parts of line	Hook weight / kg
75	4	8	745
10	/	1	252



### Working speed

	ltem		Parameter	Wire rope diameter / length	Max. single rope pull					
	Main winch		Single rope speed 0~130 m/min	22mm/280m	10.5t					
A	Auxiliary wind	ch	Single rope speed 0~130 m/min	22mm/190m	10.5t					
S	Slewing spee	d		0-1.5r/min						
Lifti	Lifting / descending			50s/175s (-1~81°)						
Exte	ension / retra	ction		550s/500s (12.1m~63m)						
	Vertical	Retraction		35s						
0. +	outrigger	Extension		30s						
Outrigger	Horizontal	Retraction		30s						
	outrigger	Extension		25s						

## Driving cab

■ The driver cab is of new steel structure independently developed by SANY and characterized by excellent shock absorption and sealing performance, with the outward-opening doors on both sides, driver's seat and passenger seat with pneumatic suspension, adjustable steering wheel, large-vision rearview mirror, comfortable driver's seat with headrest, fog-proof fan, air conditioner, stereo radio as well as complete control instruments, thus ensuring more comfort, safety and user-friendliness.

## Crane frame

• The frame is designed and manufactured by SANY. It is of antitwisting box-type structure welded by fine-grain high-strength steel plates, with a strong bearing capacity.

## Chassis engine: Single-engine mechanical drive

- Type: Electronically controlled, six-in-line, water cooled, supercharged intercooled, electronically injected diesel engine.
- Output power: 360 kw/1,800 rpm.
- Max. torque: 2,200 Nm/1,300 rpm.
- Environmental protection property: Up to Euro III emission standard
- Fuel tank capacity: About 500 L.

## Gearbox

The manual / automatic 12-speed gearbox with a wide speed ratio range can meet the requirements for low-speed site climbing and high-speed traveling.

### ₩ Axle

• All axles are used for steering, and the 2nd, 4th and 5th axles for drive. The 1st and 2nd axles are equipped with the hydraulic power steering gear characterized by linkage feedback, and the 3rd, 4th and 5th axles are configured with the electro-hydraulic control steering system, which enables auxiliary speed control and optional special steering, thus achieving easy steering and flexible manipulation.

#### 1-1 Steering / drive

= 10×6.

### □ Suspension system

All axles are equipped with hydro-pneumatic suspensions, with an adjustable height and a hydraulic interlocking function. The suspension height can be adjusted for 200 mm and 100 mm in the upward and downward directions respectively. The crane has the suspension, rigid locking, automatic leveling, overall lifting, singlepoint lifting modes so that it can adapt to various poor working and road conditions, thus guaranteeing the traveling smoothness, roll stability and driving comfort.

## Tire

■ Bridgestone, 10 × 14.00R25, meridian vacuum tyre.

## Braking system

- Parking brake: Driven by the accumulator and acted on the 2nd, 3rd, 4th and 5th axles.
- Service brake: All wheels are equipped with the air servo brake, double circuit braking system and disc brake.
- Auxiliary brake: The engine is equipped with the engine brake and exhaust brake to decelerate the crane in advance, which can reduce the wear of brake components and save the cost.

## | 🏗 | Steering system

- The servo power steering gear and double circuit hydraulic steering system are used, with an emergency steering pump.
- There are 5 steering modes: 1) Road traveling mode (default mode); 2) All-wheel steering mode; 3) Crab mode; 4) Deflectionfree steering mode; 5) Independent rear axle steering mode.

## 🕒 Outrigger

• It has a 4-point support, with a longitudinal / transverse span of 8.0 m × 7.6 m, a telescopic system of full-hydraulic horizontal / vertical outrigger cylinder and an automatic leveling function.

## **4** Electrical equipment

- A modern data bus system, a 24V DC power supply and 2 groups of battery pack (each of which is180AH) are used to power off the lowerstructure.
- The chassis is equipped with a CAN bus system; a multi-function centralized display system is used; the power consumption is low, and the maximum power is 5 W; the user interface has four function keys; a LCD display is used, with adjustable contrast.

**Crane Introduction** 

## **Crane Introduction**

## Operating cab

Corrosion-resistant steel plates are used, and the user-friendly design including fully-covered softened interior trims, panoramic sunroof and adjustable seats is configured, thus ensuring more comfortable and easier operation; a torque limiter display is equipped and the main console and operation display system are combined so that all data of hoisting operation are clear.



## Boom system

- Boom: It is comprised of 7 sections, with the base boom length of 12.1 m, fully-extended boom length of 63 m and fully-extended boom lifting height of 63.5 m, and made of fine-grain high-strength steel, with a U-shaped section.
- Jib: It consists of 5 sections, with a total length of 33.5 m and a mechanical luffing of 0°/15°/30°.
- Telescopic mechanism: The independent hydraulically driven telescopic mechanism is used, with a full extension / retraction duration of 550/500 s, thus ensuring high efficiency, safety and

#### Slewing system

The slewing system can achieve 360° slewing at a speed of 0 ~ 1.5 r/min, with 1 closed proportional variable pump and 2 hydraulic fixed-displacement axial piston motors. The electrohydraulic proportional closed hydraulic circuit and electro-hydraulic proportional pedal are used, which can achieve emergency brake.



#### Turntable structure

■ The turntable independently developed by SANY has an optimized structure. It is made of fine-grain high-strength steel.

### | 🗓 | Superstructure hydraulic system

- High-quality key hydraulic components including the main oil pump, slewing pump, main valve, hoist motor and balance valve are used, thus ensuring the stability and safety of the hydraulic system; accurate parameter matching provides more superior operation performance; the electro-hydraulic proportional variabledisplacement piston pump is used to achieve real-time adjustment of the oil pump displacement and high-precision flow control through the change of the opening of the electronically-controlled handle, thus ensuring no energy loss during operation; the independently developed dual-pump main converging / diversion valve is used, thus achieving higher single-action dual-pump converging efficiency and better combined-action dual-pump diversion maneuverability.
- The deadweight descending amplitude compensating hydraulic system is used thus ensuring higher stability.
- The extension and retraction of the boom is achieved through a single-cylinder cross pin telescopic system.
- The mechanical luffing of 0° / 15°/ 30° of the jib is achieved.
- The closed slewing system is used to adjust the flow and direction through the adjustment of the angle of the variable pump swash plate, thus ensuring excellent inching performance and stable
- Hydraulic oil tank capacity: 710L.



#### Lifting mechanism

The main winch is equipped with an electro-hydraulic proportional variable-displacement motor, which ensures good inching performance and stability. The wire ropes of the main and auxiliary winches have a diameter of 22 mm, and their lengths are 280 m and 190 m respectively.



#### Luffing mechanism

The deadweight descending system guarantees higher energy efficiency. The single cylinder and front hinged support are used, which saves the luffing effort and improves the force applied to the boom: the electro-hydraulic proportional control balance valve is adopted. The luffing angle is  $-1^{\circ}$  ~ 81°.



### (2) Control system

The SYMC torque limiter system independently developed by SANY is used for electronic control (PLC control) of the crane; two multi-directional handles are used for automatic reset; the movement of the crane is adjusted through the adjustment of the hydraulic pump. The speed is regulated through the adjustment of the engine speed.



#### Safety device

- Torque limiter: Based on the analytical mechanics method, the torque limiter calculation system based on the lifting force model is established. Through the on-line no-load calibration, the rated lifting speed is ± 3%, and the full-load protection is carried out. Automatic alarm tips, to provide security for the operation of security.
- The hydraulic system is configured with the hydraulic balance valve, overflow valve, two-way hydraulic lock and other components to achieve stability and reliability.
- The main / auxiliary winch is equipped with a three-ring protector to avoid excessive release of wire ropes.
- The boom / jib end is equipped with a height limiter to avoid excessive winding of wire ropes.
- The boom end is installed with an anemometer to check whether the high altitude wind speed is beyond the allowable operation range.



#### Counterweight

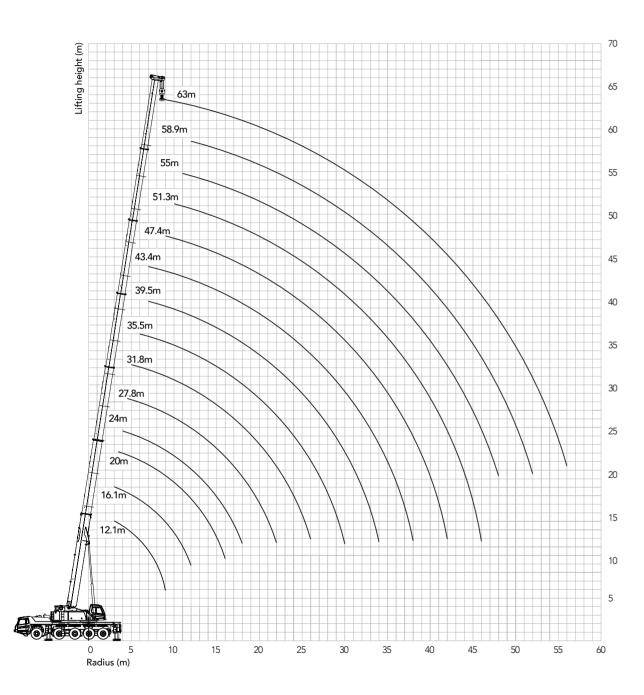
■ The combined variable counterweights, including 3.5 t, 13 t, 22.5 t, 30.5 t and 40.5 t, are used. The counterweight is ascended and descended through wireless remote control, thus ensuring good inching performance.

Technical Specifications

SAC1300S All-terrain Crane 130 Tons Lifting Capacity

Technical Specifications

**Boom Operating Range** 



## **Boom Load Chart**







## Outrigger full-extend, 40.5t counterweight

Radius	10.1	1	/ 1	_	4.0	2	1.0		20 F		Radius
(m)	12.1		6.1	Z	4.0	3	1.8		39.5		(m)
3	130	100	75		74						3
3.5	100	95	69	92	71		F4.2				3.5
4	98	90.5	65	90	66.5	85	54.3	7/ 5			4
4.5	90	84	61	85	62.5	82	51.7	76.5	56	80	4.5
5	85	79	57	79	59	79	49.3	73	54.2	76	5
6	74	70	51	70	52.5	70	45.5	67	50	69	6
7	64	62	46	62	47.5	62	41.3	61	46	61	7
8	58	56	41.5	57	43	56	37.3	55	42.5	54.5	8
9	49	50	38.5	52	39.6	50	34.3	50	39	50	9
10		45	35.5	45	36.5	45	31.5	45	36	45	10
11		40	33	40	33.6	40.5	29.7	40.5	33.6	40.5	11
12		35	31	36	31.5	36.5	28	36.5	31.5	36.2	12
14				28	28	28.9	24.5	29.5	28	28.3	14
16				23	24.4	23.5	22	24	24.6	23	16
18						19.5	19.8	20.1	21	19	18
20								17.1	18	16	20
22								14.8	15.6	13.7	22
24											24
26											26
28											28
30											30
32											32
34											34
36											36
38											38
40											40
42											42
44											44
46											46
48											48
50											50
52											52
54											54
56											56
58											58
60											60
<u>II</u>		46								46	ll
III				46		46		46		46	III
IV				46		46		46	46	46	IV
V					46	46	46	46	46	46	V
VI			46		46		46	46	46		VI
VII							46		46		VII
Rate	12	11	11	10	10	9	9	8	8	8	Rate

Technical Specifications

Unit: t

Technical Specifications

SAC1300S All-terrain Crane
130 Tons Lifting Capacity

## **Boom Load Chart**



Outrigge	er full-exte	end, 40.5t	counterwe	ight						12.1-63m			40.5t
Radius (m)		31.8			35.5			39.5			43.4		Radius (m)
3													3
3.5													3.5
4													4
4.5													4.5
5	68	56	60						-				5
6	65	53	56	52	43	35.3							6
7	61	50	51.5	49	39.5	32.3	41	29.5	39	32	32		7
8	58	47	46.5	47	35.5	29.7	38	27.5	37	31	31	27.5	8
9	53	43.3	43	45.5	32.5	27.4	35	25.8	35	29	29	25.6	9
10	48	40.3	39.5	42.5	30	25.7	33	24.2	32.5	28	28	24	10
11	42.5	37.5	36	40	27.6	23.7	31	22.7	30.5	26.5	26.5	22.5	11
12	37	35	34	37.5	25.5	22.2	29	21.5	28.5	25	24.6	21	12
14	29	30.1	28.6	29.5	22	19.5	25.5	19.2	25	22.2	22	19	14
16	23.5	24.6	23.2	24.1	19.2	17.4	22.6	17.5	22	19.7	19.5	16.8	16
18	19.6	20.7	19.3	20.1	17	15.8	19.5	15.8	19	18	17.5	15	18
20	16.6	17.6	16.3	17.1	15.2	14.3	16.6	14.4	16	16.2	15.6	13.6	20
22	14.2	15.3	14	14.8	14	12.9	14.3	13.2	13.7	14.2	13.9	12.5	22
24	12.3	13.4	12.1	12.9	12.5	11.9	12.4	12.2	11.8	12.3	12	11.2	24
26	10.8	11.8	10.5	11.3	11.3	11	10.8	11.5	10.2	10.8	10.4	10.2	26
28				10	10	10.1	9.5	10.3	9	9.4	9.1	9.5	28
30				9	9	9.5	8.4	9.2	7.8	8.3	8	8.8	30
32							7.5	8.3	6.9	7.4	7	8	32
34		-			-		6.7	7.4	6	6.5	6.2	7.1	34
36										5.8	5.3	6.4	36
38										5.1	4.6	5.8	38
40													40
42													42
44													44
46													46
48													48
50													50
52													52
54													54
56													56
58													58
60													60
II	46		46	46			92	46	92	92	92	46	
Ш	46	46	46	46	92	46	46	46	92	92	92	46	III
IV	46	46	46	46	46	46	46	46	46	46	92	92	IV
V	46	46	92	46	46	46	46	46	46	46	46	92	V
VI	46	46		46	46	46	46	46	46	46	46	92	VI
VII		46		46	46	92	46	92		46			VII
	_		_				_		_				

6

6

5

5

5

4

4

4

Rate

Rate

3

3

3

3

3

3

2

2

2

## **Boom Load Chart**



## Outrigger full-extend, 40.5t counterweight

Radius (m)		47.4			51.3		5	55	58.9	63	Radius (m)
3											3
3.5											3.5
4											4
4.5											4.5
5											5
6											6
7											7
8											8
9	25.6	23	21.5								9
10	24.5	22	20	20.5	20.5	16.8					10
11	23	20.5	19	19.5	19.5	16.1	15	17			11
12	21.6	19.5	18	18.5	18.5	15.5	14.5	16.5	14		12
14	19.3	17.5	16.5	16.5	16.8	14	13.5	15	13	11.2	14
16	17.5	16	14.5	15.5	15.2	13	12.5	13.7	12	10.6	16
18	15.8	14.5	13	14	14	11.7	11.5	12.6	11	10.1	18
20	14.3	13	12	13	12.5	10.7	10.5	11.6	10.5	9.4	20
22	13.2	11.7	11	12	11.5	10	10	10.7	9.7	8.8	22
24	12	11	10.2	11	10.5	9.3	9.1	9.9	9	8.3	24
26	10.8	10	9.5	10	10	8.5	8.5	9	8.5	7.7	26
28	9.6	9.3	8.5	9.2	9	8	8	8.5	8	7.2	28
30	8.4	8.5	8	8.5	8.5	7.3	7.3	8	7.5	6.8	30
32	7.5	7.8	7.5	7.6	7.7	6.9	6.9	7.5	7	6.3	32
34	6.7	7	7	6.8	6.8	6.5	6.4	7	6.5	5.9	34
36	5.9	6.2	6.5	6.1	5.9	6.2	6	6.4	6	5.5	36
38	5.1	5.5	6	5.4	5.2	5.7	5.6	5.7	5.5	5.1	38
40	4.5	5	5.6	4.7	4.6	5.4	5.3	5.1	5	4.8	40
42	3.9	4.4	5.1	4.1	4	5	5	4.5	4.6	4.5	42
44				3.5	3.5	4.6	4.6	3.9	4.2	4.1	44
46				3.1	3	4.2	4.2	3.4	3.7	3.7	46
48							3.7	3	3.3	3.3	48
50									2.9	2.9	50
52									2.5	2.5	52
54										2.3	54
56										2	56
58											58
60											60
II	92	46		92	92		46	92	92	100	II
III	92	92	92	92	92	92	92	92	92	100	III
IV	92	92	92	92	92	92	92	92	92	100	IV
V	46	92	92	92	92	92	92	92	92	100	V
VI	46	92	92	46	92	92	92	92	92	100	VI
VII	46		46	46		92	92	46	92	100	VII

Quality Changes the World

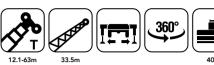
Rate

Quality Changes the World

2

Rate

Jib Load Chart



40.5t counterweight, outrigger full-extend, jib length of 33.5m

	_			-					12.1-63m	33.5m			40.5t
		47.4m			51.3m			55.2m			58.9m		
Radius (m)	15	.5m+12m+	6m	15	.5m+12m+	6m	15	.5m+12m+	-6m	15	.5m+12m+	-6m	Radius (m)
()	0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°	(,
14													14
16	2.7												16
18	2.7			2.4			2.1			1.8			18
20	2.7			2.4			2.1			1.8			20
22	2.7	2.7		2.4			2.1			1.8			22
24	2.6	2.6		2.4	2.4		2.1	2.1		1.8			24
26	2.6	2.5		2.3	2.4		2.1	2.1		1.8	1.8		26
28	2.5	2.4	2.4	2.3	2.3		2	2.1		1.8	1.8		28
30	2.5	2.3	2.3	2.3	2.3	2.2	2	2.1	2	1.8	1.8		30
32	2.4	2.2	2.2	2.3	2.2	2.1	2	2	2	1.8	1.8	1.8	32
34	2.3	2.1	2.1	2.2	2.1	2.1	2	2	1.9	1.8	1.8	1.8	34
36	2.2	2.1	2	2.1	2	2	1.9	1.9	1.9	1.8	1.8	1.8	36
38	2.1	2	1.9	2	1.9	1.9	1.9	1.8	1.8	1.7	1.7	1.7	38
40	2	1.9	1.9	2	1.9	1.8	1.8	1.8	1.7	1.7	1.7	1.7	40
42	1.9	1.8	1.8	1.9	1.8	1.8	1.8	1.7	1.7	1.7	1.6	1.6	42
44	1.8	1.7	1.7	1.8	1.7	1.7	1.7	1.6	1.6	1.6	1.6	1.6	44
46	1.7	1.7	1.7	1.7	1.7	1.7	1.6	1.6	1.6	1.6	1.5	1.5	46
48	1.7	1.6	1.6	1.7	1.6	1.6	1.6	1.5	1.5	1.5	1.5	1.5	48
50	1.6	1.5	1.5	1.6	1.6	1.5	1.5	1.5	1.5	1.5	1.4	1.4	50
52	1.5	1.5	1.5	1.6	1.5	1.5	1.5	1.4	1.4	1.4	1.4	1.4	52
54	1.5	1.4	1.4	1.5	1.5	1.4	1.4	1.4	1.4	1.4	1.4	1.4	54
56	1.3	1.4	1.2	1.4	1.4	1.4	1.3	1.3	1.3	1.3	1.3	1.3	56
58	1.1	1.3	1	1.2	1.4	1.3	1.1	1.3	1.3	1.1	1.3	1.3	58
60	0.9	1.2	0.8	0.9	1.2	1.1	0.9	1.2	1.3	0.9	1.2	1.2	60
62	0.7	1	0.7	0.7	1	0.9	0.7	1	1.2	0.7	1.1	1.2	62
64	0.5	0.8	0.6	0.5	0.8	0.7	0.5	0.8	1	0.5	0.9	1.1	64
66		0.6			0.6	0.6		0.6	0.7		0.7	1	66
68									0.6		0.5	0.7	68
70												0.5	70
II	92	92	92	92	92	92	92	92	92	92	92	92	II
III	92	92	92	92	92	92	92	92	92	92	92	92	III
IV	92	92	92	92	92	92	92	92	92	92	92	92	IV
V	46	46	46	92	92	92	92	92	92	92	92	92	V
VI	46	46	46	46	46	46	92	92	92	92	92	92	VI
VII	46	46	46	46	46	46	46	46	46	92	92	92	VII

T 58.9m					
30°	#				
30°					
30°					
30°					
T 58.9 <sub>m</sub>				3	30°
T 58.9m				15°	
	T 58.9 <sub>m</sub>			0°	



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- Agent information-

#### Reminder

For safe and reliable operation of the diesel engines, please fill Grade IV machines with Grade IV diesel and urea solution conforming to related national standards. Please refer to the operating instructions and related standards for details.

Any change in the technical parameters and configuration due to advancement in technology may occur without prior notice. The machine in the figures may include auxiliary equipment. This brochure is for reference only, and goods in kind shall prevail.

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