

# SPECIFICATION





**≟** 13.6t



**16.5m** 



20.6m

SIC130EV

**EXCELLENT ASSISTANT** FOR IN-PLANT MAINTENANCE

**QUALITY CHANGES THE WORLD** 

www.sanyglobal.com





#### Green and Environmentally Friendly 绿色环保

"Electric over Diesel": The vehicle's driving and operating hydraulic systems are both powered by electric motors.

Fully electric drive for the entire vehicle, achieving zero emissions and no pollution, in compliance with local emission regulations.

Electric motor operation of the entire vehicle offers greater energy efficiency and lower noise levels.

"以电代油"整车行驶和作业液压系统均由电机驱动;整车纯电驱动、零排放、无污染、满足当地排放法规;整车电机作业,更节能、更低噪。





#### Ultra-Long Endurance (Big data operating conditions) 超强续航(大数据工况)

The vehicle is equipped with a high-safety 162.28 kWh lithium iron phosphate battery from CATL, meeting the GB 38031-2020 battery safety requirements. The fully electric operation of the vehicle supports over two shifts.

The vehicle has a driving range of 110 kilometers.

The vehicle is equipped with a 250A DC fast charger, with a charging time of less than 2 hours.

整车搭载宁德时代162.28kWh高安全磷酸铁锂电池,满足GB38031-2020电池安全要求;

整车纯电作业超2个台班;

单独行驶续航110公里;

整车配备直流快充250A,充电时间小于2h。



EXCELLENT ASSISTANT FOR IN-PLANT MAINTENANCE SIC130EV / 13.6T LIFTING CAPACITY







# Working in narrow spaces 狭窄空间作业

Overall height of 2.5m, width of 2.39m, easily fits through factory buildings dockyard.

New single-stage oblique outriggers, strong adaptability to different terrains.

All-wheel steering with a minimum steering radius of 4m, strong accessibility.

Three-position mechanically offset (0°, 40° and 80°) of boom nose. The superstructure allows free slewing, enabling precise operation in narrow spaces such as building windows.

整机高度 2.5m, 宽度 2.39m, 可轻松通过厂房、石化管廊、码头堆场等狭窄区域;全新八字腿结构, 场地适应性强;

全轮转向,最小转弯半径4m,通过性强;

配备可变位臂头, $0^{\circ}$ , $15^{\circ}$ , $30^{\circ}$  三种角度可选,上车可自由回转,可实现建筑窗户等狭窄空间的高空精准递送。

### Strong lifting capability

超强起重性能

Hexagonal large-section 4-section boom with 16.5m full-extension boom and 4.6m standard jib, max. lifting height 20.6m, leading configuration in the industry.

Max. lifting moment of basic boom 334kN.m, max. lifting capacity of full-extension boom 5.5t, working radius 1.8m~15.4m, leading performance in the industry.

3.28m transverse outrigger span, 2.28t counterweight, fully leading in lifting capacity.

六边形型大截面 4 节主臂,主臂全伸长 16.5m,标配 4.6m 副臂,最大起升高度 20.6m,配置领先;

正前方基本臂吊载最大起重力矩 334kN.m,全伸主臂最大起重量 5.5t,主臂工作幅度 1.8m-15.4m,性能领先;

3.28m 横向支腿跨距,配重 2.28t,吊载能力全面领先。

#### **Traveling with load**

带载行走功能

The crane is able to travel with 3.3t load at dead front on its base boom.

可在正前方,基本臂情况下带载 3.3 吨行走,行驶速度不高于 4Km/h,可覆盖 Pick & Carry 部分工况。



## **Multiple working condition options**

Selectable boom, jib, traveling with load and others working configurations. Steel walking surfaces and stepping surfaces, capable of short-distance handling and self-loading/unloading within the factory area, saving one flatbed truck.

可选择主臂、副臂、轮胎吊载、带载行走等多种丁况: 备货舱甲板,可实现厂区内短距离货物搬运和自装卸,节省1辆平板车。

conditioning, rubber dampers for shock absorption, providing excellent

various harsh working conditions and road surfaces, ensuring smooth vehicle operation and stability against rollovers.

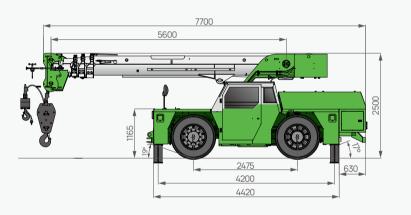


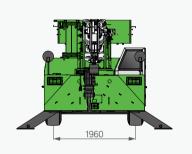


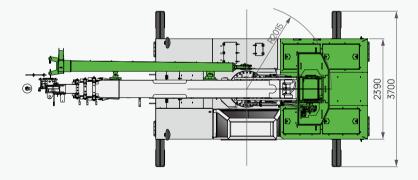


# **Overall Dimensions**

整机尺寸







# Technical Specification 整机参数

CATEGORY 类型	ITEM 项目		UNIT 单位	VALUE 参数
CAPACITY 额定起重量	Max. rated lifting capacity	最大额定总起重量	t	13.6
	Gross weight 整机总质量		kg	15285
WEIGHT 重量参数	Fixed counterweight 固定	配重	kg	2280
	Motor model 主驱电机型号	<del>;</del>	-	TZ375XSSF-SZG614
MAIN DRIVE MOTOR 主驱电机参数	Rated/peak power 主驱电	机额定 / 峰值功率	kW/rpm	115/2000(Rated 额定 ) 185/4000(Peak 峰值 )
	Rated/peak torque 主驱电	机额定 / 峰值扭矩	N·m/rpm	500/2000(Rated 额定 ) 1000/4000(Peak 峰值 )
	Motor model 辅驱电机型등	<u></u>	-	TZ220XS017A
AUXILIARY DRIVE MOTOR	Rated/peak power 辅驱电	机额定 / 峰值功率	kW/rpm	60/1600(Rated 额定 ) 80/2400(Peak 峰值 )
辅驱电机参数	Rated/peak torque 辅驱电	机额定 / 峰值扭矩	N·m/rpm	360/1600(Rated 额定 ) 560/2400(Peak 峰值 )
	Rated battery capacity 电	也额定电量	kWh 162.28	
BATTERY 电池参数	Rated power 电池额定功率	<u> </u>	kW	135.24
	Peak power 电池峰值功率		kW&60s	216.38
	Rated power of multi-fund	tional controller 多合一控制器额定功率	kW	100
ELECTRICAL CONTROL	Peak power of multi-func	tional controllerr 多合一控制器峰值功率	kW	140
电控	Rated power of auxiliary d	rive motor controller 辅驱电机控制器额定功率	kW	81
	Peak power of auxiliary dr	ive motor controller 辅驱电机控制器峰值功率	kW	162
	 Overall length 整机长度		mm	7700
	Overall width 整机宽度		mm	2390
	Overall height 整机高度		mm	2500
DIMENSIONS 尺寸参数	Wheelbase 轴距		mm	2475
	Track width 轮距		mm	1960
	Min. steering radius 最小体	· 专弯半径	m	4.0
	Turntable tail slewing rad	ius 转台尾部回转半径	mm	2000
	Max. travel speed 最高行號		km/h	30
	Min.ground clearance 最/		mm	285
TRAVEL 行驶参数	Approach angle 接近角		0	19
	Departure angle 离去角		0	17
	Max.gradeability 最大爬坡		_	42%
	Min.rated lifting radius 最		m	1.8
		Basic boom 基本臂	kN·m	334
	Max.lifting moment	Full-extension boom 全伸主臂	kN·m	298
	最大起重力矩	Full-extension boom + jib 全伸主臂 + 副臂	kN·m	191
		Basic boom 基本臂	m	5.6
MAIN	Boom length	Full-extension boom 全伸主臂	m	16.5
PERFORMANCE	臂长	Full-extension boom + jib 全伸主臂 + 副臂	m	21.1
主要性能参数		Basic boom 基本臂	m	5.5
	Max.lifting height			
	最大起重高度	Full-extension boom 全伸主臂	m	16.0
	Full-extension boom + jib 全伸主臂 + 副臂		m	20.6
		nal×Transverse) 支腿跨距(纵×横)	m	4.2 × 3.28
	Adjustable boom nose 可	变位臂头	0	0/15/30



# **Technical Specification** 整机参数



### Axle Load 轴荷

Axle 轴	1	2	Gross weight 总重量		
Axle load 轴荷 /kg	6530	8820	15350		
Remark 备注	Full configuration, with one operator. 全配,含一名驾驶员				



Rated load 额载 /t	Number of sheaves 滑轮数量	Rope rate 倍率	Hook weight/kg 吊钩重量
13.6	2	4	160
5	-	1	80



## Operations 主要动作参数

Item 项目	Max.single rope lifting speed (empty load) 单绳速度(空载)	Rope diameter/length 钢丝绳直径 / 长度	Max. single line pull 最大单绳拉力
Main winch 主卷扬	0~50m/min	14mm/100m	4t
Slewing speed 回转速度		0~2.1r/min	
Full luffing up/down time of boom 主臂起落幅时间		30s/36s	
Full extension/retraction time of boom 主臂伸缩时间		23s/22s	

## **Crane Introduction**

#### 整机介绍

Carrier →

#### ■ Driver's cab 驾驶室

- Sany independently developed cab, designed based on ergonomic principles, with excellent shock absorption and sealing properties. It is equipped with a two-point safety belt, an adjustable multifunction steering wheel, and automatic heating and cooling air conditioning. 10.1-inch display screen, providing a comprehensive view of the vehicle's status. The button panel is fully functional, enhancing the driving experience for comfort, safety, and user-friendliness.
- 三一自主开发,采用人体工程学原理设计,减震性和密封性优良。配备二点安全带、可调节式的多功能方向盘、冷暖空调。配置10.1 寸显示屏,整车状态一览无余,按键面板功能齐全,驾乘体验更加舒适、安全、人性化。

#### □ Carrier frame 车架

- Sany double longitudinal beam construction welded by high-strength finegrained high-strength steel plate, higher bearing capacity and longer service life
- 三一自主设计、制造的高强度细晶粒高强钢板焊接而成的双纵梁型车架结构,承载能力强,使用寿命长。

#### I Axle 车桥

- All-wheel steering, with the front axle serving as the driving axle, offers light and flexible steering, thereby enhancing maneuverability and agility.
- 全轮转向,前桥为驱动桥,转向轻便灵活,操纵性与机动性更加优越。

#### ■ Drive system 驱动系统

- The main drive system adopts a pure electric power drive assembly system. The rated power of the main drive motor is 115 kW, with a peak torque of up to 1000 Nm. The maximum speed can reach 4500 rpm.
- The auxiliary drive motor adopts an car-level permanent magnet synchronous motor. The rated power of the main drive motor is 60 kW, with a peak torque of 560 Nm. The maximum speed can reach 2400 rpm.
- 主驱系统采用纯电动力驱动总成系统,主驱电机额定功率 115kW、峰值扭矩可达 1000N.m. 最高转速可达 4500rpm。
- 辅驱电机采用车轨级永磁同步电机,主驱电机额定功率60kW、峰值扭矩可达560N.m.最高转速可达2400rpm。

### 🖁 High-voltage electrical control system 高压电控系统

- High-quality motor controllers are used in the high-voltage electrical control system. They can achieve stepless speed regulation with high control precision, a wide speed range, and a high power factor.
- 采用行业高品质电机控制器,能够实现无级调速,控制精度高、调速范围大,功率因数高。

### 🛱 Suspension system 悬挂系统

- Front axle suspension and rear axle with cylinder locking pivot swing suspension.
- 前桥刚性,后桥带油缸锁定枢轴摆动悬挂。

#### Battery system 电池系统

- Equipped with CATL 162.28 kWh high-performance lithium iron phosphate battery system, with a rated capacity of 150 Ah. Each battery cell can be charged and discharged up to 3000 times. After undergoing rigorous tests including vibration, compression, simulated collisions, and thermal diffusion, the quality is reliable, and it is resistant to fire and explosion. Throughout its lifecycle, it requires no maintenance.
- 配备宁德时代 162.28kWh 高性能磷酸铁锂电池系统,额定容量 150Ah,电池单体满充满放可达3000次。经过振动、挤压、模拟碰撞、热扩散等严苛测试验证,质量可靠,不起火,不爆炸,整个生命周期内免维护。

#### II Steering 转向系统

- Hydraulic cylinder steering.
- Equipped with multiple steering modes to achieve higher maneuverability, and the minimum steering radius of less than 4m.
- 前后桥为液压油缸推动转向,液压助力。
- 多种转向模式实现更高的机动性, 最小转弯半径小于4m。

#### O Braking 制动系统

- The braking system includes service brake & parking brake.
- Wet-type brakes offer rapid braking response and high braking efficiency...
- 制动系统包括行车制动和驻车制动。
- 湿式制动器,制动响应快,制动效能高。

### ►・・・ Wheel formula 车轮模式

■ 4×2.

### Coutrigger 支腿

- Single-stage oblique outriggers, strong adaptability to different terrains.
- Axle articulation structure with adjustable angles to adapt to different ground conditions.
- 活动支腿使用八字形支腿,适用狭小工作空间。
- 支脚采用轴铰接结构,可调角度以适应地面工况。

### Tires 轮胎

= 385/65R22.5

### 🗲 Electrical system 电气系统

- Utilizing an internationally advanced distributed integrated bus data communication network, the system ensures high-speed information transmission with a response time of less than 20ms.
- Equipped with a 10.1-inch high-definition display screen featuring a new user interface. Various work statuses can be displayed through button indicator lights
- Sany independently developed a Load Moment Indicator with precision up to 0-5%.
- The winch camera monitors the winch operation, promptly detecting any rope disorder problem.

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- 国际先进的分布式集成总线数据通信网络,高速信息传输、响应速度小于 20ms。
- 采用 10.1 寸高清显示屏,全新操作界面。 可通过按键指示灯显示各种工作状态。
- 三一自主研制的力矩限制器系统,精度达 0~5%。
- 卷扬摄像头监视卷扬工作及时发现乱绳的情况。

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## Crane Introduction

#### 整机介绍



superstructure

#### Boom system 臂架系统

- Boom: Four-section, basic boom 5.6m, full-extension 16.5m, made of finegrained high-strength welded steel plates. Single cylinder telescoping with rope arranger functioning automatic telescoping, with a double-acting cylinder that can control the extension and retraction of all boom sections, achieving various combinations of boom lengths.
- Jib: 4.6m iib with adjustable iib head, offset at 0°. 15°. 30°.
- 主起重臂: 4节臂,基本臂长5.6m,全伸臂长16.5m。采用细晶粒高强钢板折弯、焊接制成, 单缸绳排伸缩机构,一个双作用油缸可以控制所有吊臂的伸缩,达到多种臂长组合。
- 副臂: 副臂长 4.6m,配备可变位臂头, 0°, 15°, 30° 三种角度可选。



#### Slewing platform 转台结构

- SANY independently developed, made of fine grain high strength steel in optimized structure.
- 三一自主设计,结构更优化。由细晶粒高强钢制成。



#### □ Hydraulics 液压系统

- Load-sensitive superstructure hydraulic system, achieving high-precision flow control to maximize energy efficiency. The boom extension and retraction system uses an open system composed of an electronically controlled proportional pump and a proprietary main valve. The hoist and winch systems, as well as the slewing system, adopt open systems.
- All key components, including hydraulic pumps, piston motors, and balance valves, are sourced from top-tier international brands, ensuring high quality and reliability. Sany's independently developed double pump intelligent flow distribution system.
- 负载敏感液压系统,实现高精度流量控制,减少能量浪费。变幅、伸缩、卷扬、回转 采用开式系统。
- 采用国际一线品牌的液压泵、柱塞马达及平衡阀等关键元件均,品质好,可靠性高。

#### IIII Hoist 起升机构

- High-quality wire rope locks enhances the efficiency of changing the wire rope ratio, making it convenient and swift.
- Specifications: \$\phi\$14, 35WxK7 anti-rotation steel wire rope.
- Max. single rope speed: 50m/min.
- 采用高品质钢丝绳锁,提高了起重倍率的更换速度,方便快捷。
- 钢丝绳规格: φ14, 35WxK7 抗旋转钢丝绳。
- 最大单绳速: 50m/min。

#### 🗼 Luffing system 变幅系统

- Luffing angle: 0°~75°, electric proportional control, combining power luffing with passive luffing, it can achieve rapid luffing at large angles and stable, slow-speed luffing at small angles.
- 变幅角度 0°~75°,动力落幅和自重落幅相结合,可实现大角度快速落幅,小角度稳定 慢读落幅。



#### ○ Slewing 回转系统

- 360° slewing in both direction, max. speed 2.1 rpm. The hydraulic slewing adopts a open system for stable braking.
- 360° 回转,最大回转速度 2.1rpm,无级调速;回转采用开式系统,制动可靠。

#### Control system 控制系统

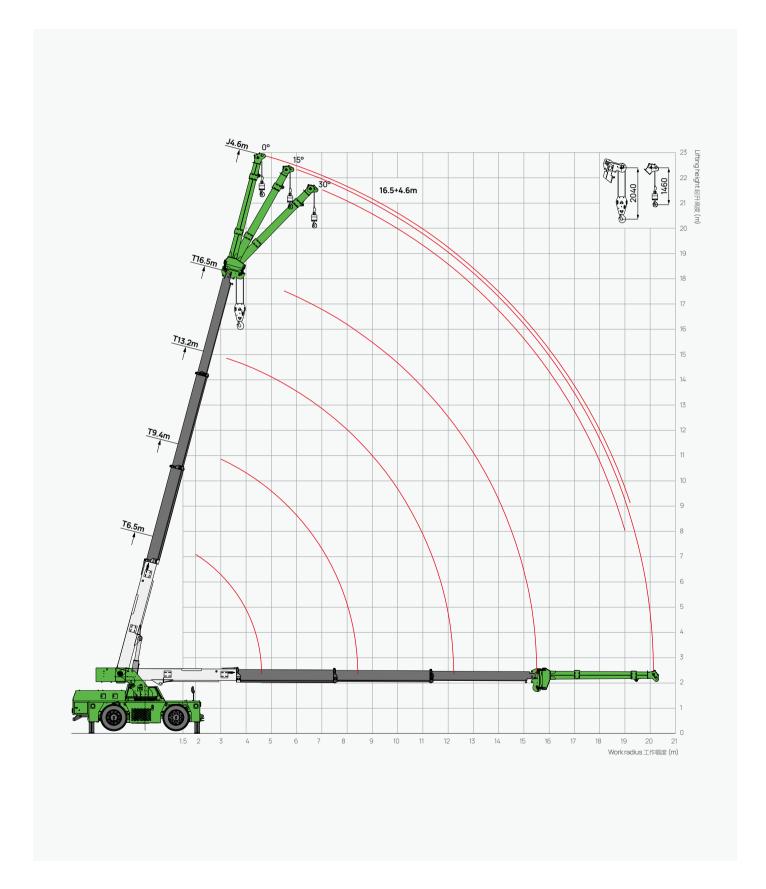
- Powered by a 24V DC power supply, and controlled by a CAN-BUS control network.
- The system features real-time monitoring and automatic fault diagnosis capabilities.
- Independently developed vehicle controller for more precise electric drive control and smoother lifting operations.
- 24V 直流电源供电,CAN-BUS 总线控制网络。
- 具有系统实时监测和故障自动诊断功能。
- 自主开发整车控制器, 电驱操控更准确, 吊载更平稳。

#### Safety equipment 安全装置

- Analytical mechanics is applied and load moment indicator calculation system based on the hoisting mechanics model is established. Through online empty-load calibration, the rated accuracy can reach 0~5%.
- The hydraulic system includes balance valve, relief valve, two-way holding valve, etc. to realize system stability and reliability.
- The main and auxiliary winches are equipped with third-wrap indicators to prevent over-hoist-down of the wire rope.
- Boom head and jib head are equipped with A2B switches to prevent the wire rope from over winding.
- Boom head and jib head are equipped with anemometer to monitor whether the high-altitude wind speed exceeds the permissible operating range.
- 采用分析力学方法,建立了基于吊重力学模型的力矩限制器计算系统,通过在线空载标 定,吊重精度达到 0~5%。
- 液压系统配置液压平衡阀、溢流阀、双向液压锁等元件,实现液压系统稳定可靠。
- 卷扬配置三圈保护器,防止钢丝绳过放。
- 臂端配置高度限位器, 防止钢丝绳过卷
- 臂端装有风速仪,检测高空风速是否超过可作业允许范围。

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# Operating Range - Telescopic Boom (TJ) 起升高度曲线 - 主臂 + 副臂





# **Load Chart** - Telescopic Boom (T), 360° Slewing

性能表 - 主臂(360°)



<u> </u>	5.6	9.4	13.2	16.5	<mark>∕</mark> ™
1.8	13600				1.8
2.4	11900				2.4
3	9800	7800			3
3.7	8600	7800			3.7
4.3	6200	7100	7000		4.3
4.9		5700	5800		4.9
5.5		4700	4700	4700	5.5
6.1		3800	4000	3900	6.1
6.7		3300	3400	3400	6.7
7.3		2900	3000	2900	7.3
7.9		2400	2600	2600	7.9
8.5			2300	2300	8.5
9.1			2000	2000	9.1
9.8			1800	1800	9.8
10.4			1600	1600	10.4
11			1400	1400	11
11.6			1200	1300	11.6
12.2				1200	12.2
12.8				1100	12.8
13.4				1000	13.4
14				900	14
14.6				800	14.6
15.2				700	15.2
15.4				600	15.4
Min's	0	0	0	0	Min's
Min's kg	3000	1500	800	300	Min <sup>3</sup> kg

# **Load Chart** - Telescopic Boom (T), Load Over Front

性能表 - 主臂(正前方)



<u> </u>	5.6	9.4	13.2	16.5	<u> ✓M</u>
1.8	13600				1.8
2.4	11900				2.4
3	9800	7800			3
3.7	8600	7800			3.7
4.3	6200	7500	7000		4.3
4.9		6800	6300		4.9
5.5		6200	5800	5500	5.5
6.1		5300	5200	5000	6.1
6.7		4500	4400	4400	6.7
7.3		3900	3800	3800	7.3
7.9		3000	3300	3300	7.9
8.5			3000	2900	8.5
9.1			2700	2600	9.1
9.8			2400	2300	9.8
10.4			2100	2100	10.4
11			1900	1900	11
11.6			1800	1700	11.6
12.2				1600	12.2
12.8				1500	12.8
13.4				1400	13.4
14				1300	14
14.6				1200	14.6
15.2				1100	15.2
15.4				1000	15.4
Min't	0	0	0	0	Min's
Min't kg	3000	2000	1000	500	Min's kg



# **Load Chart** - Telescopic Boom, On Tires Stationary, Load Over Front

性能表 - 轮胎静止吊载 (正前方)



<u> </u>	5.6	9.4	13.2	16.5	<u> </u>
1.8	7100				1.8
2.4	5800				2.4
3	4800	4800			3
3.7	3500	3700			3.7
4.3	2700	2900	3000		4.3
4.9		2300	2400		4.9
5.5		1900	2000	2000	5.5
6.1		1600	1700	1700	6.1
6.7		1400	1400	1500	6.7
7.3		1200	1200	1300	7.3
7.9		1000	1100	1100	7.9
8.5			900	1000	8.5
9.1			800	800	9.1
9.8			700	700	9.8
10.4			600	600	10.4
11			500	500	11
11.6			400	500	11.6
12.2				400	12.2
12.8				400	12.8
13.4				300	13.4
14				300	14
Min't	0.0	0.0	18.0	25.0	Min't'
Min's kg	1500.0	500.0	300.0	200.0	Min's kg

# **Load Chart** - Telescopic Boom, On Tires Stationary, 360° Slewing

性能表 - 轮胎静止吊载 (360°)



<u>∕</u>	5.6	9.4	13.2	16.5	<u> </u>
1.8	6400				1.8
2.4	4600				2.4
3	3200	3400			3
3.7	2300	2500			3.7
4.3	1800	1900	2000		4.3
4.9		1600	1600		4.9
5.5		1300	1300	1500	5.5
6.1		1000	1100	1100	6.1
6.7		800	900	900	6.7
7.3		700	700	800	7.3
7.9		500	600	700	7.9
8.5			500	600	8.5
9.1			400	500	9.1
9.8			300	400	9.8
10.4			300	300	10.4
Min's	0.0	20.0	30.0	46.0	Min <sup>1</sup>
Min's kg	800.0	300.0	200.0	200.0	Min'; kg



# **Load Chart** - Telescopic Boom, Pick & Carry, Load Over Front

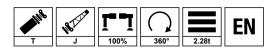
性能表 - 主臂带载行驶(正前方)



<mark>∕</mark> ™	5.6	9.4	13.2	16.5	<u> </u>
1.8	5200				1.8
2.4	4200				2.4
3	3500	3600			3
3.7	2900	3000			3.7
4.3	2400	2500	2600		4.3
4.9		2000	2200		4.9
5.5		1700	1800	1800	5.5
6.1		1400	1500	1500	6.1
6.7		1200	1300	1300	6.7
7.3		1000	1100	1200	7.3
7.9		900	1000	1000	7.9
8.5			800	900	8.5
9.1			700	800	9.1
9.8			600	600	9.8
10.4			500	500	10.4
11			400	500	11
11.6			300	500	11.6
12.2				400	12.2
12.8				400	12.8
13.4				300	13.4
Min	0.0	0.0	18.0	29.0	Min's
Min's kg	1200.0	400.0	200.0	200.0	Min's kg

# **Load Chart** - Fixed Jib

性能表-副臂



m	4.6	4.6	4.6	m_mile
182	0°	15°	30°	NATURE OF THE PARTY OF THE PART
4.9				4.9
5.5				5.5
6.1	3200			6.1
6.7	2800			6.7
7.3	2600	2200		7.3
7.9	2400	2100	1700	7.9
8.5	2200	2000	1600	8.5
9.1	2100	1900	1600	9.1
9.8	1900	1800	1500	9.8
10.4	1700	1700	1500	10.4
11.0	1500	1600	1500	11.0
11.6	1400	1400	1400	11.6
12.2	1300	1300	1300	12.2
12.8	1200	1200	1200	12.8
13.4	1100	1100	1100	13.4
14.0	1000	1000	1000	14.0
14.6	900	900	900	14.6
15.2	800	800	800	15.2
15.8	700	700	800	15.8
16.5	700	600	700	16.5
17.1	600	600	600	17.1
17.7	500	500	500	17.7
18.3	500	500	500	18.3
18.9	400	400	400	18.9
Min't	18.0	20.0	21.0	Min's
Min's kg	200	200	200	Min's kg



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