



Quality Changes the World



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High efficiency and Low carbon

Easy to use and Economical



Intelligent and Safe

SCP**C6** SERIES

HIGH VOLTAGE LITHIUM BATTERY FORKLIFT TRUCK

SANY Robotics Technology Co., Ltd

Intelligent Forklift Truck Led by SANY



High efficiency and Low carbon:

Equipped the new generation of automotive grade high-voltage permanent magnet synchronous electric drive motor with forced water-cooling system, Sany forklift truck continuously provides strong power that with full load the driving speed exceed 20 km/h and the climbing ability exceed 20%. Sany forklift truck not only has an advantage with low-carbon and zero emission, but also surpasses Internal combustion forklift truck in performance.

Easy to use and Economical:

Equipped the new generation of vehicle control architecture, the controller has the same computing power as new energy vehicles, with a millisecond grade response speed and more precise control, bringing an excellent driving experience. Products have been widely applied in heavy industries working condition, such as ceramics industry, casting industry, paper industry, Plate and sheet industry, and have been tested by the market for a long time. The golden power combination of high-voltage lithium battery and high-voltage permanent magnet synchronous drive motor and controller realizes higher efficiency and lower energy consumption.

Intelligent and Safe:

Forklifts are real-time online, remotely monitored and diagnosed for faults, and can be intelligently managed on Sany Cloud. Options with Driver identification, DMS monitoring systems, 360-degree imaging and AI visual assistance shall ensure truck safety in all aspects. Adopting automotive safety standards, all high-voltage connectors are protected by IP67, with real-time insulation monitoring and detection, which is far exceeding the safety requirements of ordinary electrical truck.

Cover all Application Scenarios for **2-5t** forklift truck

The SCPC6 series intelligent counter balanced forklift trucks were forward developed based on the new energy lithium battery, adopting advanced AC permanent magnet synchronous motor control technology and lithium battery quick charging technology in the industry, and equipped with comprehensive intelligent protection and remote monitoring service. The motor, electrical controller and battery have a 5-year or 10000-hour ultra long warranty, which is more energy-efficient and easy to operate compared to traditional IC forklift truck. Also it is wider environmental adaptability and more powerful compared to ordinary electrical forklift truck. Sany defined a new concept of electrical forklift truck.

Plate and sheet industry



Waste paper packaging industry



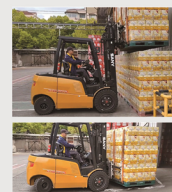
Household electrical appliance logistics industry



Cold storage industry



Brewery industry



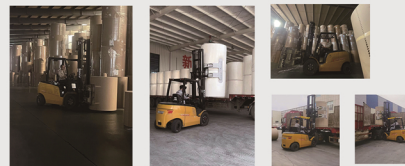
Ceramic industry



Logistics industry



Paper industry



Mold industry



Compact drive axle

High rotational speed and low noise

Equipped a silent motor with a rotational speed over 10000rpm

High transmission ratio

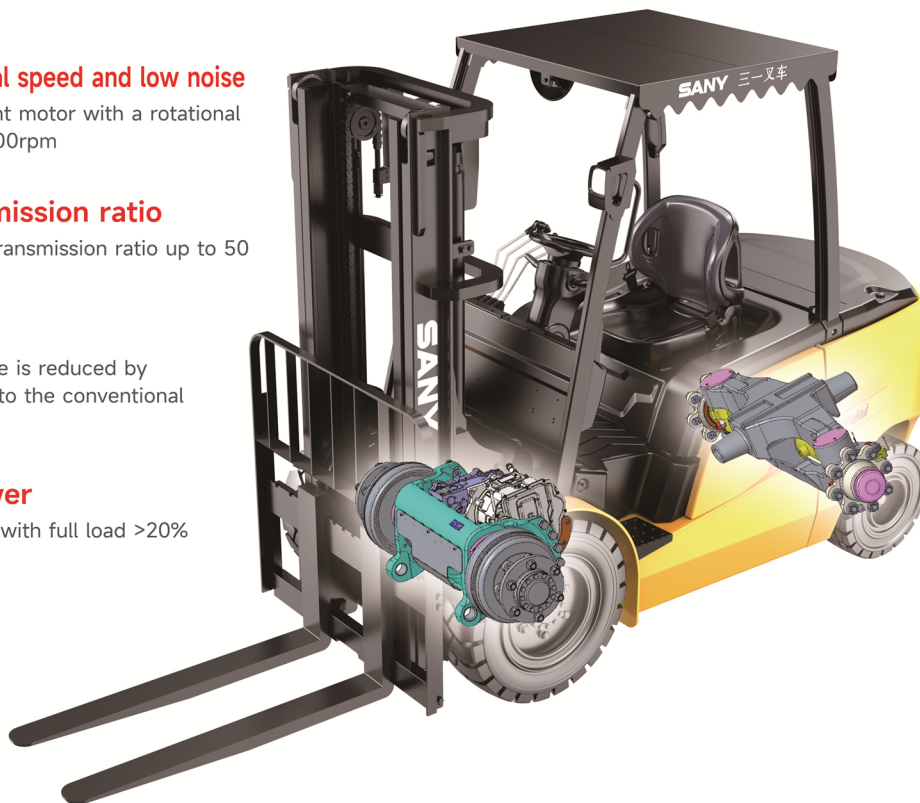
The maximum transmission ratio up to 50

Small size

The gearbox size is reduced by 50% compared to the conventional one

Strong power

Climbing ability with full load >20%



Large load capacity

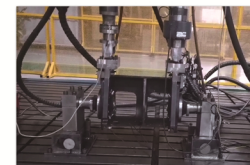
- Integrated casting steering axle
- The kingpin structure adopts large tapered roller bearings

Large turning angle

Small turning radius

High reliability

Design lifetime exceed 20000h





Integrated lithium battery

High safety

With automotive grade power cells (lithium iron phosphate) and electrical components, the battery management system is capable of real-time fault detection, transmitting to dashboard and intelligent cloud for safety protection.

Quick charging

Adopting national charging standard, be compatible with car charging stations, 1C Quick charging, on-demand charging, Quick charging mode is suitable for multi-shift operations.

Long life cycles

5-year or 10000-hour ultra long warranty with reliable use.

Strong environmental adaptability

Truck is suitable for working in rainy and snowy condition with IP67 protection level and capable of normal operation in low ambient temperature with heating function as standard configuration.

Economic

Lithium batteries is free of manual maintenance, so it shall lower overall costs of truck operating.

High efficiency

High voltage lithium battery with water-cooling system has low heat loss, high electrical energy conversion rate and is capable of high discharging rate and strong power.

Comprehensive intelligent upgrade

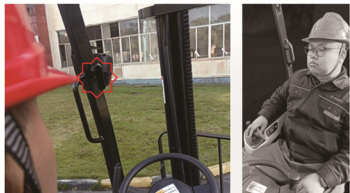
Newly upgraded multifunctional

Full function, equipped with functions such as fault diagnosis, I/O information display, speed parameter modification, and optional function with integrated card swiping power on.



Intelligent face recognition and DMS monitoring color display

Using infrared cameras and intelligent algorithms based on AI image processing, the truck can be powered on with face recognition; It can provide warnings for various driving irregularities, regulate driver behavior, and prevent potential problems.



360-degree panoramic image

Installed multiple cameras to achieve 360-degree surround view monitoring and equipped with two cameras on the mast for effectively improving the front view, the truck is capable of blind spots reduction during operation and accident prevention.

Intelligent assisted security technology panel

Using AI image recognition technology to detect pedestrians within the driving path, the truck is capable of issuing alarms for different areas, prompting drivers and pedestrians to actively avoid each other and carrying out active deceleration or braking based on the warning signal when reversing.



Reliable quality Matching severe environment



Full score passed the wading test



Full score passed the high-strength rain test

- Structure Stable
- Safe and Reliable

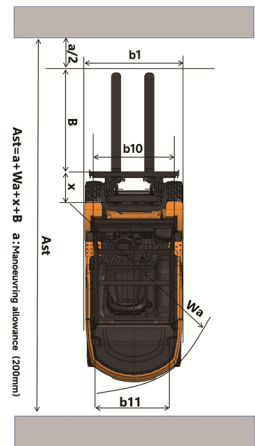
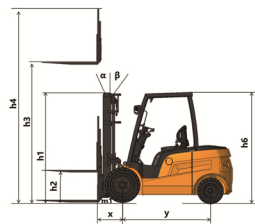


Over Head Guard full score passed impact test

- Core components protection level with IP67
- Entire truck waterproof level with IPX4

TECHNICAL DATA

	Item	Unit	Data									
Designating mark	Product type designation	/	SCPC6A	SCPC6B	SCPC6C (200V)	SCPC6C (200V)	SCPC6C (200V)	SCPC6C (200V)	SCPC6C (200V)	SCPC6C (200V)	SCPC6C (200V)	SCPC6C (200V)
	Rated load	QMG	2000	2500	2000	2500	3000	3000	3000	3000	3000	3000
	Load centre distance	c (mm)	500	500	500	500	500	500	500	500	500	500
	Load distance, centre of drive axle to fork	x (mm)	450	450	450	450	500	500	500	500	500	500
Weight	Wheelbase	y (mm)	1650	1650	1650	1650	1750	1750	1750	1850	1850	2000
	Service weight	kg	3650	3950	3550	3850	4620	4620	4620	5850	5850	7300
	Axle loading, left/rear front/rear	kg	1950/1900	2100/1900	1900/1900	2100/1900	2450/2450	2450/2450	2450/2450	2900/2900	2900/2900	3500/3500
	Axle loading, left/rear front/rear	kg	1770/1880	1950/2050	1750/1850	1950/2050	2260/2360	2260/2360	2260/2360	2670/2770	2670/2770	3200/3300
Types	Types	/	Solid tyre	Solid tyre	Solid tyre	Solid tyre	Pneumatic tyre	Solid tyre	Solid tyre	Solid tyre	Solid tyre	Solid tyre
	Type size, front	/	7.00-12	7.00-12	7.00-12	7.00-12	20"R15-14R6	20"R15	20"R15	20"R15	20"R15	20"R15
	Type size, rear	/	MT"8	MT"8	MT"8	MT"8	20"R15-14R6	20"R15	20"R15	20"R15	20"R15	20"R15
	Thrust, rear	kN (mm)	1040	1040	1040	1040	1020	1020	1020	1020	1020	1020
Dimensions	h1 (mm)	1950	1950	1950	1950	1950	1950	1950	1950	1950	1950	1950
	h2 (mm)	1450	1450	1450	1450	1450	1450	1450	1450	1450	1450	1450
	h3 (mm)	1450	1450	1450	1450	1450	1450	1450	1450	1450	1450	1450
	h4 (mm)	1450	1450	1450	1450	1450	1450	1450	1450	1450	1450	1450
	h5 (mm)	1450	1450	1450	1450	1450	1450	1450	1450	1450	1450	1450
	h6 (mm)	1450	1450	1450	1450	1450	1450	1450	1450	1450	1450	1450
	h7 (mm)	1450	1450	1450	1450	1450	1450	1450	1450	1450	1450	1450
	h8 (mm)	1450	1450	1450	1450	1450	1450	1450	1450	1450	1450	1450
	h9 (mm)	1450	1450	1450	1450	1450	1450	1450	1450	1450	1450	1450
	h10 (mm)	1450	1450	1450	1450	1450	1450	1450	1450	1450	1450	1450
	h11 (mm)	1450	1450	1450	1450	1450	1450	1450	1450	1450	1450	1450
	h12 (mm)	1450	1450	1450	1450	1450	1450	1450	1450	1450	1450	1450
	h13 (mm)	1450	1450	1450	1450	1450	1450	1450	1450	1450	1450	1450
	h14 (mm)	1450	1450	1450	1450	1450	1450	1450	1450	1450	1450	1450
	h15 (mm)	1450	1450	1450	1450	1450	1450	1450	1450	1450	1450	1450
	h16 (mm)	1450	1450	1450	1450	1450	1450	1450	1450	1450	1450	1450
Performance data	h17 (mm)	1450	1450	1450	1450	1450	1450	1450	1450	1450	1450	1450
	h18 (mm)	1450	1450	1450	1450	1450	1450	1450	1450	1450	1450	1450
	h19 (mm)	1450	1450	1450	1450	1450	1450	1450	1450	1450	1450	1450
	h20 (mm)	1450	1450	1450	1450	1450	1450	1450	1450	1450	1450	1450
	h21 (mm)	1450	1450	1450	1450	1450	1450	1450	1450	1450	1450	1450
	h22 (mm)	1450	1450	1450	1450	1450	1450	1450	1450	1450	1450	1450
	h23 (mm)	1450	1450	1450	1450	1450	1450	1450	1450	1450	1450	1450
	h24 (mm)	1450	1450	1450	1450	1450	1450	1450	1450	1450	1450	1450
	h25 (mm)	1450	1450	1450	1450	1450	1450	1450	1450	1450	1450	1450
	h26 (mm)	1450	1450	1450	1450	1450	1450	1450	1450	1450	1450	1450
	h27 (mm)	1450	1450	1450	1450	1450	1450	1450	1450	1450	1450	1450
	h28 (mm)	1450	1450	1450	1450	1450	1450	1450	1450	1450	1450	1450
	h29 (mm)	1450	1450	1450	1450	1450	1450	1450	1450	1450	1450	1450
	h30 (mm)	1450	1450	1450	1450	1450	1450	1450	1450	1450	1450	1450
	h31 (mm)	1450	1450	1450	1450	1450	1450	1450	1450	1450	1450	1450
	h32 (mm)	1450	1450	1450	1450	1450	1450	1450	1450	1450	1450	1450
Motor and battery	h33 (mm)	1450	1450	1450	1450	1450	1450	1450	1450	1450	1450	1450
	h34 (mm)	1450	1450	1450	1450	1450	1450	1450	1450	1450	1450	1450
	h35 (mm)	1450	1450	1450	1450	1450	1450	1450	1450	1450	1450	1450
	h36 (mm)	1450	1450	1450	1450	1450	1450	1450	1450	1450	1450	1450
Controller	h37 (mm)	1450	1450	1450	1450	1450	1450	1450	1450	1450	1450	1450
	h38 (mm)	1450	1450	1450	1450	1450	1450	1450	1450	1450	1450	1450
	h39 (mm)	1450	1450	1450	1450	1450	1450	1450	1450	1450	1450	1450
	h40 (mm)	1450	1450	1450	1450	1450	1450	1450	1450	1450	1450	1450



CUSTOMER OPTIONS

• Standard, ◯ Optional, - Not available.

	SCF series	20/25CA	30/35CA200V	30/35CA	30/35CA	40CA	50CA
Type	Pneumatic tyre	●	●	●	●	●	-
	Solid tyre	○	○	○	○	○	○
Seat	Hydraulic tyre	○	○	○	○	○	○
	Standard seat	○	○	○	○	○	-
	Suspended wrapped seat	○	○	○	○	○	○
	Advanced Suspended Seat	○	○	○	○	○	○
Control Valve	QPS 2-way mechanical valve	●	●	●	●	●	○
	QPS 3-way mechanical valve	○	○	○	○	○	○
	QPS 4-way mechanical valve	○	○	○	○	○	○
	2-way QPS solenoid valve	○	○	○	○	○	○
	3-way QPS solenoid valve	○	○	○	○	○	○
	4-way QPS solenoid valve	○	○	○	○	○	○
Intelligent terminal	2-way finger control	○	○	○	○	○	○
	3-way finger control	○	○	○	○	○	○
	4-way finger control	○	○	○	○	○	○
	Remote diagnostic function	●	●	●	●	●	●
Intelligent speed limitation	Intelligent cornering deceleration	○	○	○	○	○	○
Mast	Standard mast 3m	●	●	●	●	●	●
	Standard mast 3.5m	○	○	○	○	○	○
	Standard mast 4m	○	○	○	○	○	○
	Standard mast 4.5m	○	○	○	○	○	○
	Standard mast 5m	○	○	○	○	○	○
	duplex full free 3m	○	○	○	○	○	○
	Triplex full free 4.5m	○	○	○	○	○	○
	Triplex full free 5m	○	○	○	○	○	○
	Triplex full free 5.5m	○	○	○	○	○	○
	Triplex full free 6m	○	○	○	○	○	○
Hydraulic hose line	Single auxiliary hose line (Standard mast)	○	○	○	○	○	○
	Twin auxiliary hose line (Standard mast)	○	○	○	○	○	○
	Single auxiliary hose line (Duplex mast)	○	○	○	○	○	○
	Twin auxiliary hose line (Duplex mast)	○	○	○	○	○	○
Fork	Single auxiliary hose line (Triplex mast)	○	○	○	○	○	○
	Twin auxiliary hose line (Triplex mast)	○	○	○	○	○	○
	100mm	●	●	●	●	●	●
	Fork not needed	○	○	○	○	○	○
Lamp	120mm	○	○	○	○	○	○
	130mm	○	○	○	○	○	○
	140mm	○	○	○	○	○	○
	150mm	○	○	○	○	○	○
	160mm	○	○	○	○	○	○
	170mm	○	○	○	○	○	○
Cabin	Standard lighting	●	●	●	●	●	●
	Stroke warning light (yellow)	○	○	○	○	○	○
	Stroke warning light (blue)	○	○	○	○	○	○
	Blue warning light	○	○	○	○	○	○
	Borderline warning light (blue)	○	○	○	○	○	○
	Borderline warning light (red)	○	○	○	○	○	○
	Standard CHD	○	○	○	○	○	○
	Front windshield-PC board roof, Wiper, Water spray bottle+fan	○	○	○	○	○	○
	Full cab/fan	○	○	○	○	○	○
	Full cab/fan+Electrical heater	○	○	○	○	○	○
Battery	Full cab/fan+Air condition	○	○	○	○	○	○
	10kwh	●	●	●	●	●	●
	20kwh	○	○	○	○	○	○
	30kwh	○	○	○	○	○	○
	40kwh	-	-	-	-	●	-
	50kwh	-	-	-	-	○	●
Charger	70kwh	-	-	-	-	-	○
	80kwh	-	-	-	-	-	○
	70WAC 220V output 20A	○	○	○	○	○	○
	150A (AC 360V)	○	-	-	-	-	-
	150A (AC 360V)	○	-	-	-	-	-
	200A (AC 360V)	○	-	-	-	-	-
	200W (AC 360V)	-	○	○	○	○	○
	300W (AC 360V)	-	-	○	○	○	○
	400W single port (AC 360V)	-	-	○	○	○	○
	400W twin port (AC 360V)	-	-	-	-	○	○
Attachments	800W single port (AC 360V)	-	-	○	○	○	○
	External adaptor	○	○	○	○	○	○

MASK TECHNICAL DATA

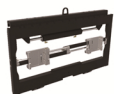
Mast type	Mast model	Lift height	SCF20C4							SCF20/25C4 (100V)							SCF30/35C4							SCF40C4							SCF50C4						
			Load capacity (load centre 500mm)		Height mast extended	Free lift	Mast tilting	Load capacity (load centre 500mm)		Height mast extended	Free lift	Mast tilting	Load capacity (load centre 500mm)		Height mast extended	Free lift	Mast tilting	Load capacity (load centre 500mm)		Height mast extended	Free lift	Mast tilting	Load capacity (load centre 500mm)		Height mast extended	Free lift	Mast tilting	Load capacity (load centre 500mm)		Height mast extended	Free lift	Mast tilting					
			2.0t	2.5t	Height mast lowered	Load guard (without/with)	Load guard (without/with)	Forward Backward	2.0t	2.5t	Height mast lowered	Load guard (without/with)	Load guard (without/with)	Forward Backward	3.0t	3.5t	Height mast lowered	Load guard (without/with)	Load guard (without/with)	Forward Backward	4.0t	Height mast lowered	Load guard (without/with)	Load guard (without/with)	Forward Backward	5.0t	Height mast lowered	Load guard (without/with)	Load guard (without/with)	Forward Backward							
			mm	kg		kg	mm	mm	mm	°		kg	kg	mm	mm	mm		°	kg	kg	mm		mm	mm	°	kg		mm	mm	mm	°	kg	mm	mm	mm	°	
Duplex wide view mast	S30	3000	2000	2500	2000	3620/4090	120	6/12	2000	2500	2160	3650/4100	120	6/12	3000	3500	2180	3700/4200	120	6/12	4000	2180	3700/4150	120	6/10	5000	2190	3850/4180	110	6/10							
	S35	3500	2000	2500	2250	4120/4590	120	6/12	2000	2500	2380	4150/4600	120	6/12	3000	3500	2430	4200/4700	120	6/12	4000	2430	4270/4650	120	6/10	5000	2440	4350/4680	110	6/10							
	S40	4000	2000	2500	2500	4620/5090	120	6/12	2000	2500	2630	4650/5100	120	6/12	3000	3500	2680	4700/5200	120	6/12	4000	2680	4750/5150	120	6/10	5000	2690	4850/5180	110	6/10							
	S45	4500	1850	2350	2750	5120/5590	120	6/6	1800	2250	2880	5150/5600	120	6/6	2700	3150	2930	5200/5700	120	6/6	3850	2930	5270/5650	120	6/6	4700	2940	5350/5680	110	6/6							
	S50	5000	1700	2200	3000	5620/6090	120	6/6	1550	1980	3130	5650/6100	120	6/6	2350	2750	3180	5700/6200	120	6/6	3500	3180	5750/6150	120	6/6	4600	3190	5850/6180	110	6/6							
Triplex full free mast	D30	3000	2000	2500	2050	3620/4090	1450/1980	6/12	2000	2500	2180	3650/4110	1448/1025	6/12	3000	3500	2180	3640/4200	1415/1020	6/12	4000	2180	3700/4150	1470/1030	6/10	5000	2190	3850/4200	1340/1030	6/10							
Triplex full free mast	T45	4500	1850	2300	2050	5120/5590	1450/1980	6/6	1670	2100	2220	5300/5700	1408/1013	6/6	2500	2900	2220	5300/5700	1408/1013	6/6	3800	2220	5270/5650	1470/1030	6/6	4770	2340	5440/5700	1445/1185	6/6							
	T50	5000	1600	2000	2220	5620/6090	1620/1150	6/6	1400	1790	2390	5800/6200	1578/1183	6/6	2100	2500	2390	5800/6200	1578/1183	6/6	3400	2390	5700/6150	1640/1200	6/6	4620	2510	5940/6200	1615/1355	6/6							
	T55	5500	1250	1500	2435	6120/6590	1835/1565	3/3	1150	1450	2605	6300/6700	1793/1398	3/6	1700	2000	2605	6300/6700	1793/1398	3/6	3250	2605	6270/6650	1855/1415	3/6	4460	2670	6440/6700	1775/1515	3/6							
	T60	6000	950	1100	2600	6620/7090	2000/1630	3/3	800	1050	2770	6800/7200	1958/1563	3/6	1200	1500	2770	6800/7200	1958/1563	3/6	3100	2770	6750/7150	2020/1580	3/6	4300	2840	6940/7200	1945/1685	3/6							

External side shifter



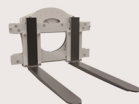
Rated load: 2.5t, 3.5t, 4t, 5t
Safety grade: 2A, 3A
Application: used for fork side shift condition.

Side shift distance adjuster



Rated load: 2.5t, 3.5t, 4t, 5t
Safety grade: 2A, 3A
Application: used for fork side shift and lateral distance adjustment.

Rotator



Rated load: 2.5t, 3.5t, 4t, 5t
Safety grade: 2A, 3A
Application: used for goods that need to be flipped and tilted condition.

Single and double pallet forks



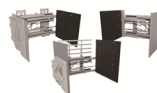
Rated load: 2.5t, 3.5t, 4t, 5t
Safety grade: 2A, 3A
Application: Used for handling double pallets, mostly used in breweries.

Paper roll clamp



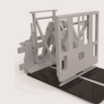
Rated load: 2.5t, 3.5t, 4t, 5t
Safety grade: 2A, 3A
Application: used for handling paper rolls in paper industry.

Carton clamp



Rated load: 2.5t, 3.5t, 4t, 5t
Safety grade: 2A, 3A
Application: used for handling the carton.

Push-pulls



Rated load: 2.5t, 3.5t, 4t, 5t
Safety grade: 2A, 3A
Application: used for handling boxes or bags condition.

Soft bag clamp



Rated load: 2.5t, 3.5t, 4t, 5t
Safety grade: 2A, 3A
Application: Used for the handling of waste recycling materials, waste paper, soft bags, textiles, etc.



Iron Ant

Maintenance Assistant



Scan QR Code to
Enter Mini Program



• Service Request and Track

Customers shall submit maintenance or repair requests by just one click, track order, pay and make evaluation online.

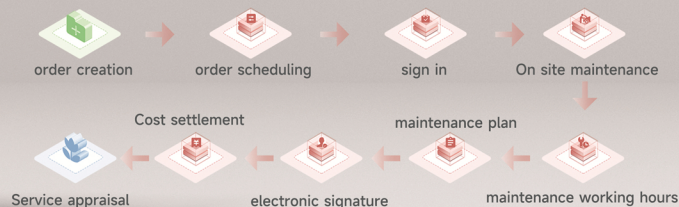
• Service support

Service engineers shall receive customer service orders in real-time and quickly respond to the malfunction. Inquiry troubleshooting solutions in Multi directions.

• Device Reminder

Proactive reminders for device Maintenance, inspection, and malfunction. Ensure Device maintenance in time.

Iron Ant Maintenance Assistant provides on-site services and closed-loop management throughout the entire process. With the one-click service in Iron Ant program, service engineers can provide home visit services and try their best to repair and maintain the device. Lifecycle management, malfunction diagnosis, malfunction analysis, device operation monitoring at anytime and anywhere, device management easily, and helping customers achieve optimal productivity conversion of device.



Service is the Core Competitiveness of Sany

Service outlets all over the Country All together with our customer anytime anywhere

- More than 500 service points within group
- Own 4 directly affiliated service centers
- 100+ service engineers as "Special Forces"
- 7x24h hotline service
- 365-day emergency case response and service



- Exceed customer expectations: By providing excellent services to our customers, we will maximize the device value of each customer.
- Exceed industry standards: By implementing the highest industry service standards, we will achieve the highest customer satisfaction.



Reply to Customer
in 15 minutes



Reach the main service area
in 2 hours



Provide frequently-used spare parts
in 1 day



Solve customer complaints
within 2 days



Solve customer issues remained
within 7 days