



**Motor, electric control,
battery water cooling**
30 kwh battery and above



Self-developed cloud platform
Intelligent monitoring and
protection escort



IP67
Highest protection grade



7-inch large screen
Standard intelligent instrument



Standard T-BOX
Remote upgrade and locking

SCP30F1 / SCP35F1

Lithium Battery-powered Counterbalanced Forklift

**QIANGSHENG
MACHINERY**

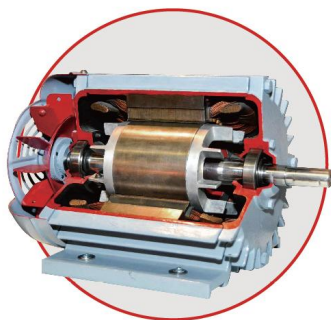
Outstanding Performance

Perfect integration of new energy vehicle technology with forklifts, fully replacing traditional diesel options.



Automotive-grade VCU

Self-developed dual-core VCU offers powerful computing capabilities with millisecond response time for superior control



Automotive-grade motor

Permanent magnet synchronous electric drive delivers greater power and performance



Automotive-grade protection

IP67 for core electric components and IPX4 for the entire forklift



Automotive-grade cable

Neat harness, more reliable and easier maintenance



Automotive-grade integrated lithium battery



Automotive-grade water cooling

No fear of high temperature conditions

• High safety

Automotive-grade power cells (lithium iron phosphate) and electrical components, the battery management system can detect and report faults in real time to the instrument and cloud intelligent platform for safe protection.

• Fast charging

Adopt national standard charging, compatible with vehicle charging piles for convenient charging. The fast charging mode is suitable for multi-shift operations.

• Long service life

Enjoy an ultra-long warranty period of five years or 10,000 service hours for worry-free use.

• Strong environmental adaptability

IP67 protection level, allowing operation in rainy and snowy days; Standard battery heating function, ensuring normal operation in low temperature environment.

• Economy

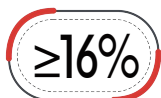
Lithium batteries, no manual maintenance required; the overall operating cost is low.

• High efficiency

Battery liquid cooling system with low heat loss and high power conversion rate, achieving high-rate discharge and strong power.



Travel speed



Full load gradeability



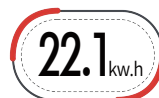
Full load acceleration



Full load lifting speed



Voltage platform



Standard battery power

Compact drive axle

- **High Speed with Low Noise**

- **Large Gear Ratio**

The maximum Gear Ratio can reach to 50

- **Robust Power**

Continuous climbing when fully loaded >16%

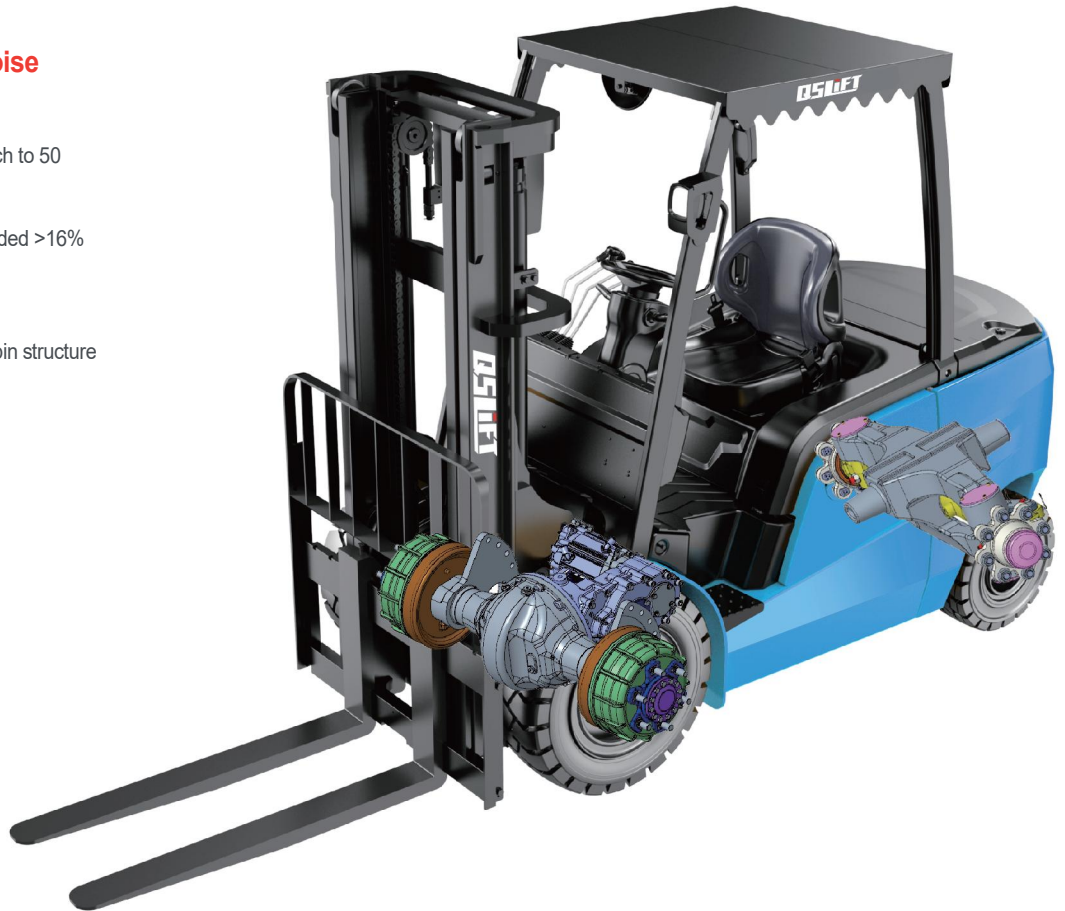
- **High load capacity**

* Integrated cast axle

* Tapered roller bearing for the king pin structure

- **High reliability**

Design life of over 20000h



Energy Saving and Cost Reduction

10-20%

Comprehensive energy saving

30%

Save costs compared to traditional electric forklifts

2 electric forklifts



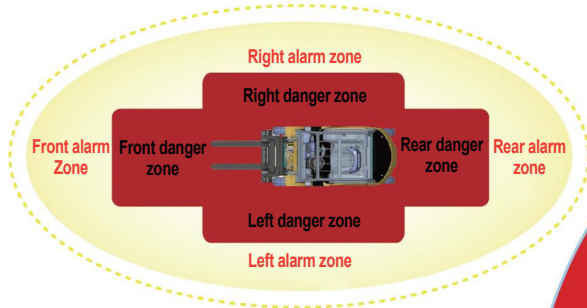
3 diesel forklifts in terms of economic benefits



High Safety and Reliability

• Active safety system (optional):

Detect human movement and anticipate hazards with alerts



• High-precision facial recognition system (optional):

Ensure drivers are licensed

• Drive dynamic sensing system (optional):

Avoid drowsy driving



• Ultra-long warranty, worry-free use:

Warranty period of five years or 10,000 service hours for EIC



Intelligent service

Intelligent cloud monitoring allows for fleet management, remote fault diagnosis, etc.



Battery management unit



Cloud intelligent monitoring



Motorcade intelligence management



Remote fault diagnosis



Various equipment indicators



Standard remote upgrade and locking



Convenient Maintenance



It takes only one minute to reach any part to be maintained. Reasonable component layout ensures all components are within easy reach after the shell is removed, making maintenance more convenient.

Comfort Driving

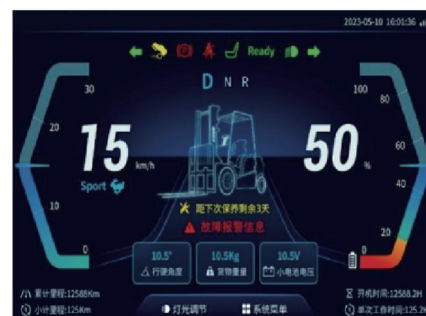
Powerful acceleration, smooth parking, and hill assist make operations easier, more precise, and more efficient.



Industry-leading wide-visibility mast



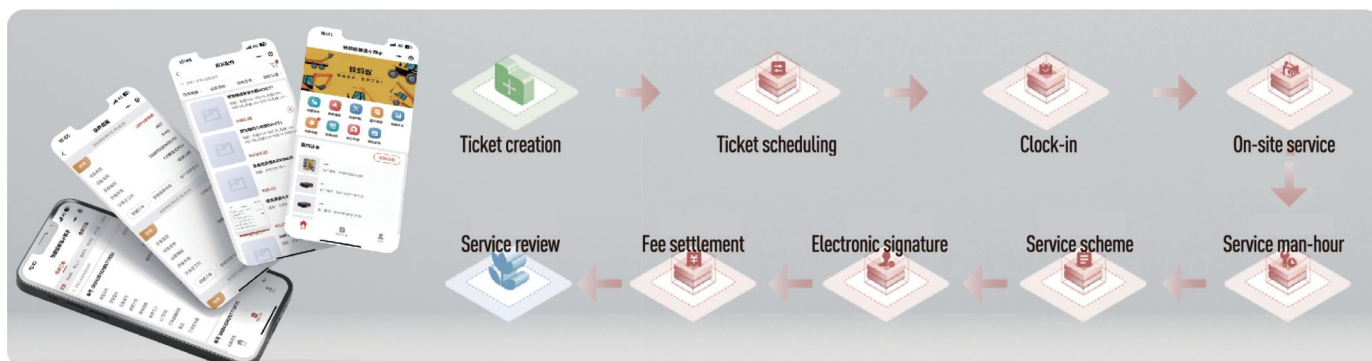
Shock-absorbing seats to eliminate fatigue, equipped with OPS switch and seat occupancy sensor



Standard intelligent instrument with 7-inch large screen, for intuitive and easy operation

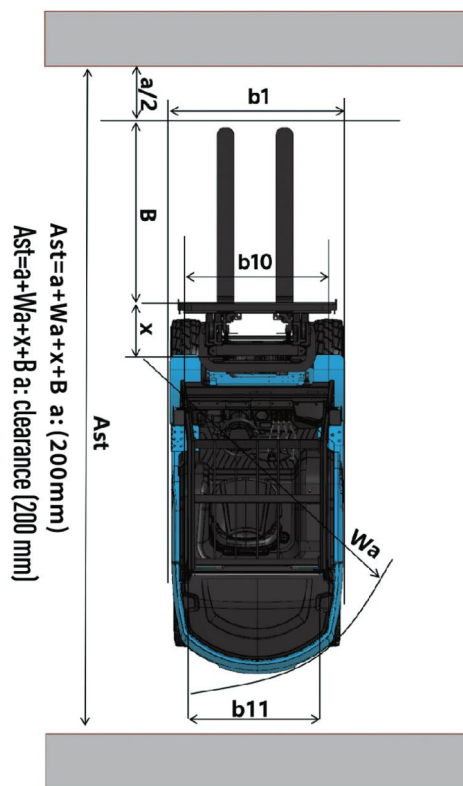
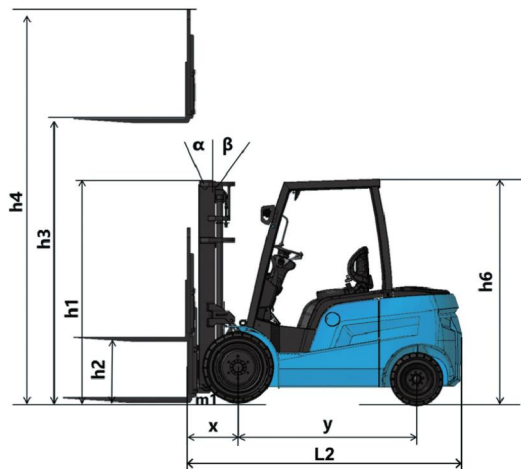
After-Sales Service

QS LIFT has over 500 service stations nationwide, reaching county-level cities; 100+ "specialized" service personnel; 24/7 hotline service; 365-day emergency response service.



Parameters

Category		Unit	Parameters	
Overview	Product Model	/	SCP30F1	SCP35F1
	Rated load capacity	Q(kg)	3000	3500
	Load center distance	c(mm)	500	500
	Front overhang	x(mm)	485	490
	Wheel base	y(mm)	1750	1750
Weight	Dead weight	kg	4670	5100
	Axle load front/rear(full load)	kg	6700/970	7690/910
	Axle load front/rear(no load)	kg	2150/2520	2200/2900
Size	Mast tilting angle(front/rear)	$\alpha/\beta(^{\circ})$	6/12	6/12
	Height when mast is retracted	h1(mm)	2130	2130
	Free lift height	h2(mm)	130	130
	Lifting height	h3(mm)	3000	3000
	Maximum height of raised mast	h4(mm)	4190	4190
	Overhead guard height	h6(mm)	2190	2190
	Overall length(to the front end face of forks)	L2(mm)	2680	2680
	Overall width	b1(mm)	1250	1250
	Fork dimensions(thickness/width/length)	s × e × l(mm)	45*122*1070	50*122*1070
	Fork spacing	mm	247-1100	247-1100
	Minimum ground clearance(full load)	m1(mm)	130	130
	Min. ground clearance at wheel base	m2(mm)	150	150
	Stacking aisle(1m*1.2m)	Ast(mm)	4050	4050
	Stacking aisle(0.8m*1.2m)	Ast(mm)	4250	4250
	Minimum steering radius	Wa(mm)	2350	2350
Tire	Tire type	/	Pneumatic tire	Pneumatic tire
	Front tire specifications	/	28x9-15	28x9-15
	Rear tire specifications	/	21x8-9	21x8-9
	Front wheel track	b10(mm)	1020	1020
	Rear wheel track	b11(mm)	1000	1000
Performance	Maximum travel speed(full load/no load)	km/h	16/16	16/16
	Maximum lifting speed(full load/no load)	mm/s	350/400	350/400
	Lowering speed(full load/no load)	mm/s	420/510	420/510
	Traction force(full load/no load)	N	17300/15800	17300/15800
	Gradeability(full load/no load)	%	17/20	16/20
	Service brake	/	Hydraulic	Hydraulic
	Parking brake	/	Mechanical	Mechanical
Moto battery	Travel motor(S2-60min)	kW	17	17
	Lifting motor(S3-15%)	kW	25	25
	Battery voltage / capacity	V/kWh	96/22.1	96/22.1
	Battery weight	kg	210	210
Controller	Travel motor control type	—	MOS transistor/AC	MOS transistor/AC
	Pressure provided to MAST AUXILIARY	MPa	19.5	19.5



Mast Auxiliary Options



Mounting level: 2 A, 3 A
Application: Working conditions requiring fork side shifting



Mounting level: 2 A, 3 A
Application: Working conditions requiring fork side shifting and distance adjustment



Mounting level: 2 A, 3 A
Application: Working conditions requiring goods flipping and dumping



Mounting level: 2 A, 3 A
Application: Used for handling double pallets, mostly in breweries



Mounting level: 2 A, 3 A
Application: Used in paper industry for handling paper rolls



Mounting level: 2 A, 3 A
Application: Used in paper industry for handling cartons



Mounting level: 2 A, 3 A
Application: Used for handling bagged goods and boxed food



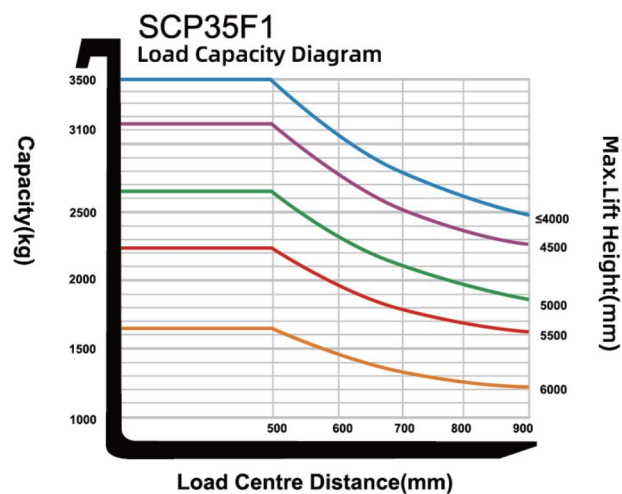
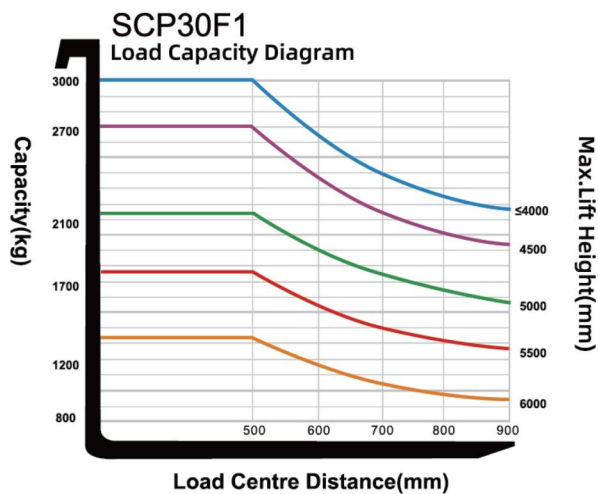
Mounting level: 2 A, 3 A
Application: Used for handling waste recycling materials, waste paper, soft packs, and textiles

 **Optional** ● Standard configuration ○ Optional - Not configured

	SCP	SCP30F1	SCP35F1
Tire	Standard configuration	●	●
	Solid tires	○	○
	Non-marking tire	○	○
Seat	Standard seat	●	●
	Suspension seat	○	○
	Imported suspension seat	○	○
Control Valve	OPS mechanical valve (2-way)	●	●
	OPS mechanical valve (3-way)	○	○
	OPS mechanical valve (4-way)	○	○
	Cross-joystick solenoid valve (2-way)	○	○
	Cross-joystick solenoid valve (3-way)	○	○
	Cross-joystick solenoid valve (4-way)	○	○
	Fingertip-operated solenoid valve (2-way)	○	○
	Fingertip-operated solenoid valve (3-way)	○	○
	Fingertip-operated solenoid valve (4-way)	○	○
Intelligent terminal	Remote diagnosis function	●	●
	Intelligent steering deceleration	○	○
Mast	Standard 2-stage 3 m	●	●
	Standard 2-stage 3.5 m	○	○
	Standard 2-stage 4 m	○	○
	Standard 2-stage 4.5 m	○	○
	Standard 2-stage 5 m	○	○
	2-stage free-lift 3 m	○	○
	3-stage free-lift 4.5 m	○	○
	3-stage free-lift 5 m	○	○
	3-stage free-lift 5.5 m	○	○
Pipeline	Single additional MAST AUXILIARY pipeline (standard mast)	○	○
	Double additional MAST AUXILIARY pipeline (standard mast)	○	○
	Single additional MAST AUXILIARY pipeline (2-stage free-lift mast)	○	○
	Double additional MAST AUXILIARY pipeline (2-stage free-lift mast)	○	○
	Single additional MAST AUXILIARY pipeline (3-stage free-lift mast)	○	○
	Double additional MAST AUXILIARY pipeline (3-stage free-lift mast)	○	○

 **Optional** ● Standard configuration ○ Optional - Not configured

	SCP	SCP30F1	SCP35F1
Fork	1070mm	●	●
	No fork	○	○
	1220mm	○	○
	1370mm	○	○
	1520mm	○	○
	1670mm	○	○
	1820mm	○	○
	2000mm	○	○
Lamps	Standard lighting (front and rear combination lamp)	●	●
	Strobe warning light (yellow)	○	○
	Strobe warning light (blue)	○	○
	Rear working light	○	○
	Blue spot light	○	○
	Boundary warning light strip (blue)	○	○
	Boundary warning light strip (red)	○	○
Cab	Standard overhead guard	●	●
	Front windshield + top PC,wiper, sprinkling can + fan	○	○
	Full can + fan	○	○
	Full can + fan+ electric heater	○	○
Battery	Full can + fan+ A/C	○	○
	15 KWh	-	-
	22.1 KWh	●	●
	31 KWh	○	○
	40 KWh	○	○
Charger	50 KWh	-	-
	7 kW (22 V residential power, output current 20 A)	○	○
	50A (380 V industrial power)	○	○
	100A (380 V industrial power)	●	●
	200A (380 V industrial power)	○	○
	20 kW (380 V industrial electricity)	-	-
	30 kW (380 V industrial power)	-	-
	60 kW single charger(380 V industrial power)	-	-
Attachment	External side shifter	○	○



Mast type	Mast model	Max. Lift Height	SCP30F1/35F1					
			Capacity (load center 500mm)		Full height of mast	Maximum operating height of mast	Free lift height	Mast sloping angle
			3.0t	3.5t		No load backrest/with load backrest	No load backrest/with load backrest	Front/rear
		mm	kg	kg	mm	mm	mm	°
Stage II wide-view mast	S30	3000	3000	3500	2140	3730/4200	125	6/12
	S35	3500	3000	3500	2390	4230/4700	125	6/12
	S40	4000	3000	3500	2740	4730/5200	125	6/10
	S45	4500	2700	3150	2990	5230/5700	125	6/6
	S50	5000	2350	2750	3240	5730/6200	125	6/6
Stage II free-lift mast	D30	3000	3000	3500	2140	3730/4200	1400/930	6/12
Stage III free-lift mast	T45	4500	2500	2900	2180	5265/5700	1410/970	6/6
	T50	5000	2100	2500	2450	5765/6200	1680/1240	6/6
	T55	5500	1700	2000	2610	6265/6700	1840/1400	3/6
	T60	6000	1200	1500	2830	6765/7200	2060/1620	3/6