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SCB / SCD SERIES LITHIUM POWERED ELECTRIC PALLET TRUCK

SANY ROBOTICS TECHNOLOGY CO., LTD

SCB20W3

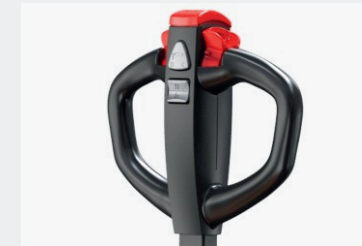
Electric Pallet Truck

SCB20W3 electric pallet truck delivers excellent performance especially in constrained spaces. It is ideal for supermarkets, exhibition halls, transportation trucks, and containers, it can also be used for trucks with tail-lift. It is your best substitute for hand pallet truck and provides the best performance and value in its category.

Main Features

- Smart/multi-function handle: durable and easy to operate
- 48V15Ah high-capacity lithium battery, ensuring both safety and extended operating time
- Stable and quiet BUCHER hydraulic pump
- SANY's own 850W drive unit, for stronger climbing ability, higher efficiency and longer operational life
- Robust and durable chassis structure made of integrally formed high strength steel

Complies with
ISO3691-1
EN 1175
EN 16307-1



Multi-function Handle

Integrated emergency reverse button, forward and backward button, horn button, lifting and lowering button, creep speed control button, battery discharging/fault indicator and magnetic key.



Guided Forks

Fork is designed with guidance for easier entry and exit of pallets; The fork shaft holes are reinforced with sheet metal, resistant to wear and tear.



Easy 6s Battery Replacement

Press the emergency stop button, pull the plug out; turn and loosen the 6-armed screw (battery compartment) to replace the battery.

Truck Specifications

General	1.1	Manufacturer	SANY	
	1.2	Product Model(s)	SCB20W3	
	1.3	Power	Battery	
	1.4	Operation method	Pedestrian	
	1.5	Rated load	Q(kg)	2000
Weight	1.6	Load centre distance	c(mm)	600
	1.8	Load distance, centre of drive axle to fork	x(mm)	946
	1.9	Wheelbase	y(mm)	1220
	2.1	Service weight	kg	160
	Tires/Chassis	3.1	Tires	Polyurethan
3.2		Tire size, drive side	Fxw(mm)	F190X70
3.3		Tire size, load side	Fxw(mm)	F80X70
3.5		Wheels number (x=drive wheels) Drive side/Load side		1x/4
3.7		Tread, load side	b ₁₁ (mm)	380/525
Dimensions	4.4	Lift height	h ₃ (mm)	115
	4.9	Height drawbar in driving position min./max.	h ₁₄ (mm)	800/1170
	4.15	Height of forks, lowered	h ₁₃ (mm)	85
	4.19	Overall length	l ₁ (mm)	1540
	4.20	Length to fork face	l ₂ (mm)	510
	4.21	Overall width	b ₁ (mm)	560/685
	4.22	Fork dimensions	sxexl(mm)	50x160x1150 ¹⁾
	4.25	Fork spread	b ₅ (mm)	540/685
	4.32	Ground clearance, centre of wheelbase	m ₂ (mm)	30
	4.34	Aisle width for pallets 800 × 1200 lengthways	A _{st} (mm)	1500
Performance data	4.35	Turning radius	W _a (mm)	1350
	5.1	Travel speed, laden/unladen	km/h	4.3/4.5
	5.2	Lifting speed, laden/unladen	mm/s	17/22
	5.3	Lowering speed, laden/unladen	mm/s	30/26
	5.8	Max. gradeability, laden/unladen	%	8/15
Electric-motor	5.10	Service brake		Electromagnetic brake
	6.1	Drive motor rating S2 60 min	kW	0.85
	6.2	Lift motor rating at S3 10%	kW	0.8
	6.4	Battery voltage/Nominal capacity K ₅	V/Ah	48/15 ²⁾
	6.5	Battery weight (±5%)	kg	7
Additional data	8.1	Type of drive unit		DC speed control
	8.4	Sound pressure level at the driver's ear, according to EN12053	dB(A)	<70

Remark: 1) Fork length: 800, 1000, 1150, 1220mm; 2) Optional battery: 48V/15/20Ah.

SCB20/25/30

Electric Pallet Truck

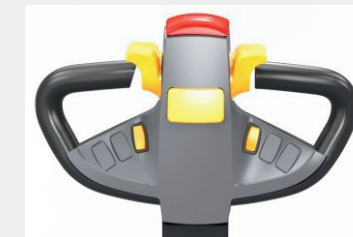
Complies with
ISO3691-1
EN 1175
EN 16307-1

EPS

UN38.3

SCB series electric pallet truck is a self-propelled truck with a foldable platform. It has the load capacity ranging from 2000kg to 3000kg, with compact structure and light service weight. Lithium battery makes it clean and eco-friendly, suitable for work in a variety of environments such as the food industry, pharmaceutical industry, supermarkets, factories, logistics sites, etc.

SANY's own high-capacity, lithium-iron-phosphate battery allows for up to 6 hours of continuous operation. The battery is fully charged in less than 1.5 hours, thanks to a powerful 48V/50A charger. The combination of 48V platform, vector electric control system, and high-efficiency hydraulic and drive system make the SCB series your reliable, energy-smart choice for your material handling projects.



Ergonomic Handle

Ergonomic design with push buttons for forward, backward, lifting, lowering.

Accurate and easy to operate electronic steering and damping system provides an enhanced driving experience.



Smart Control

Advanced vector control algorithm allows for precise control of motor rotational speed, and torque, and works in tandem with reliable protection systems.

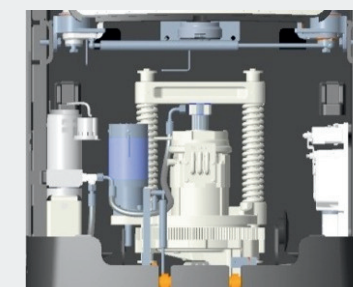
Smart and intuitive LED light stripes and working status display.



Easy Operation

Small space friendly, compact structure, small turning radius;

Swing rod + pull rod + guide rail lifting structure, combined with double cylinder design allow for precise, stable, reliable lifting, and smooth entry and exit of pallets.



Low Maintenance

Designed for ease of maintenance and service with easily reachable components and parts.

Reinforced chassis, forks, and all-metal battery covers.

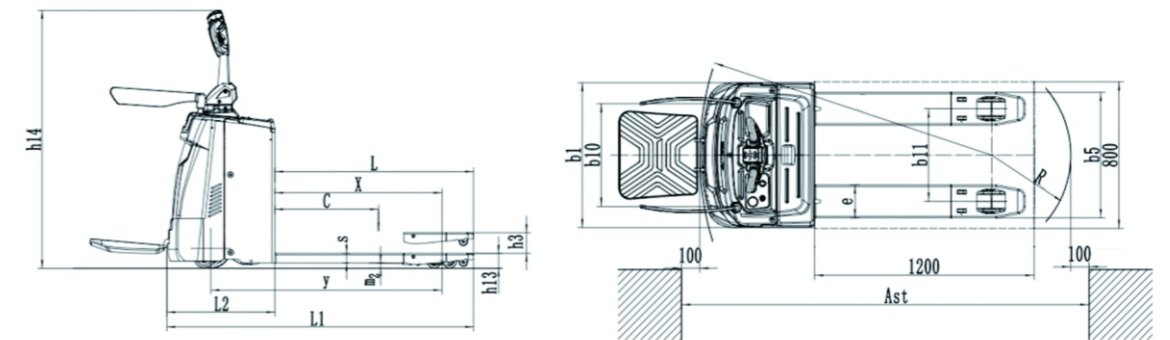
Truck Specifications

General	1.1	Manufacturer	SANY			
	1.2	Product Model(s)	SCB20	SCB25	SCB30	
	1.3	Power	Battery			
	1.4	Operation Method	Self-propelled - stand-on foldable platform			
	1.5	Rated load	Q(kg)	2000	2500	3000
	1.6	Load centre distance	c(mm)	600		
	1.8	Load distance, centre of drive axle to fork	x(mm)	965		
	1.9	Wheelbase	y(mm)	1335		
	Weight	2.1	Service weight	kg	540	550
2.2		Axle loading, laden drive side/load side	kg	820/1720	900/2150	1000/2550
2.3		Axle loading, unladen drive side/load side	kg	435/105	440/110	440/110
Tires/Chassis	3.1	Tires	Polyurethan			
	3.2	Tire size, drive side	Φ230X70			
	3.3	Tire size, load side	Φ85X80			
	3.4	Auxiliary wheel size	Φ115X55			
	3.5	Number of wheels (x=drive wheel)	1x+2/4			
	3.6	Tread, drive side	b ₁₀ (mm)	560		
	3.7	Tread, load side	b ₁₁ (mm)	370/505		
Dimensions	4.4	Lift height	h ₃ (mm)	120		
	4.15	Height of fork, lowered	h ₁₃ (mm)	85		
	4.19	Overall length	l ₁ (mm)	1790		
	4.20	Length to fork face	l ₂ (mm)	640		
	4.21	Overall width	b ₁ /b ₂ (mm)	790		
	4.22	Fork dimensions	sxexl(mm)	55x180x1150 ¹⁾		
	4.25	Fork spread	b5(mm)	550/685		
	4.32	Ground clearance, centre of wheelbase	m ₂ (mm)	28		
	4.34.1	Aisle width for pallets 1000 × 1200 crossways	A _{st} (mm)	2420		
	4.34.2	Aisle width for pallets 800 × 1200 lengthways	A _{sl} (mm)	2280		
	4.35	Turning radius	W _s (mm)	1620		
Performance data	5.1	Travel speed, laden/unladen	km/h	7.5/8.5 ²⁾		
	5.2	Lifting speed, laden/unladen	mm/s	22/32		
	5.3	Lowering speed, laden/unladen	mm/s	50/40		
	5.8	Max. gradeability, laden/unladen	%	8/15		
	5.10	Service brake	Electromagnetic brake			
Electric-Motor	6.1	Drive motor rating S2 60 min	kW	2.2		
	6.2	Lift motor rating at S3 15%	(kW)	1.2	2.2	2.2
	6.3	Battery	Lithium Battery			
	6.4	Battery voltage/Nominal capacity K _s	V/Ah	48/75 ³⁾	48/75 ³⁾	48/100 ³⁾
	6.5	Battery weight (±5%)	kg	56	56	58
	6.6	Energy consumption according to DIN EN 16796	kWh/h	0.4	0.42	0.45
Additional data	10.7	Sound pressure level at the driver's ear, according to En12053	dB(A)	<70		

Remark: 1) Fork length optional; 2) Optional drive speed 8.5/10km/h; 3) Optional lithium battery 48V 75/100Ah.

Configuration and Specifications

Configuration	Standard	Option
Fork length	1150mm	1220mm/Non-standard customization
Fork spread	685mm	550mm
Twin load wheel	●	○ Single load wheel
Drive wheel	Polyurethan	—
Auxiliary wheel	●	—
Indicator unit	Hourmeter/Drive speed/Error code /Battery charge level display	—
Drive speed (laden/unladen)	7.5/8.5(km/h)	8.5/10(km/h)
Battery capacity	48V75Ah	48V100Ah
Charger	48V50Ah	—
Key switch	Key	—
Electronic steering	●	—
Cornering speed reduction	●	—
Platform	●	○
Side guard	●	○
Load guard	—	○



SCD16C/16W

Electric Stand-on Reach Stacker

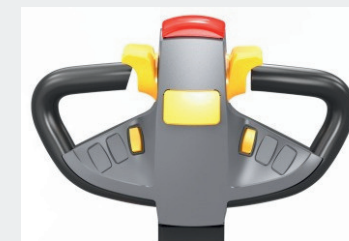
Complies with
ISO3691-1
EN 1175
EN 16307-1

EPS



SCD16 series electric stand-on reach stacker is a self-propelled truck with a foldable platform, load capacity of 1600kg, compact structure, intuitive mast with high visibility, and light service weight. Lithium battery makes it clean and eco-friendly, suitable for work in a variety of environments such as the food industry, pharmaceutical industry, supermarkets, factories, logistics sites, etc.

SANY's own high-capacity, lithium-iron-phosphate battery allows up to 6 hours of continuous operation. The battery is fully charged in less than 1.5 hours thanks to a powerful 48V charger. The combination of 48V platform, vector electric control system, and high-efficiency hydraulic and drive system make the SCD series your reliable, energy-smart choice for your material handling projects.



Ergonomic Handle

Ergonomic design with push buttons for forward, backward, lifting, lowering.

Accurate and easy to operate electronic steering and damping system provides an enhanced driving experience.



Wide Visibility Mast

Compact mast design allows for wider visibility range.

Energy smart, quiet, and precise hydraulic lifting.



Smart Control

Advanced vector control algorithm allows for precise control of motor rotational speed, and torque, and works in tandem with reliable protection systems.

Smart and intuitive LED light stripes and working status display.

Truck Specifications

General	1.1	Manufacturer	SANY	
	1.2	Product model(s)	SCD16C	SCD16W
	1.3	Power	Battery	
	1.4	Operator type	Pedestrian-controlled with foldable platform	
	1.5	Rated load	Q(kg)	1600
	1.6	Load centre distance	c(mm)	600
	1.8	Load distance, centre of drive axle to fork	x(mm)	665
	1.9	Wheelbase	y(mm)	1270
	Weight	2.1	Service weight	kg
2.2		Axle loading, laden drive side/load side	kg	950/1950
2.3		Axle loading, unladen drive side/load side	kg	850/450
Tires/Chassis	3.1	Tires	Polyurethan	
	3.2	Tire size, drive side	Φ230X70	
	3.3	Tire size, load side	Φ85X70	
	3.4	Auxiliary wheel size	Φ115X55	
	3.5	Number of wheels (x=drive wheel)	1x+2/4	
	3.6	Tread, drive side	b ₁₀ (mm)	560
	3.7	Tread, load side	b ₁₁ (mm)	390/505
Dimensions	4.2	Height of mast, lowered	h ₁ (mm)	2065
	4.3	Free lift	h ₂ (mm)	1500
	4.4	Lift height	h ₃ (mm)	4500
	4.5	Height of mast, extended	h ₄ (mm)	5065
	4.15	Height of fork, lowered	h ₁₃ (mm)	88
	4.19	Overall length	l ₁ (mm)	2035
	4.20	Length to fork face	l ₂ (mm)	885
	4.21	Overall width	b ₁ /b ₂ (mm)	790
	4.22	Fork dimensions	sxexl(mm)	60x180x1150
	4.25	Fork spread	b ₅ (mm)	570/685
	4.32	Ground clearance, centre of wheelbase	m ₂ (mm)	30
	4.34.1	Aisle width for pallets 1000 × 1200 crossways	A _{s1} (mm)	2425/2855
	4.34.2	Aisle width for pallets 800 × 1200 lengthways	A _{s1} (mm)	2395/2825
	4.35	Turning radius	W _s (mm)	1500/1980
	Performance data	5.1	Travel speed, laden/unladen	km/h
5.2		Lifting speed, laden/unladen	mm/s	140/200
5.3		Lowering speed, laden/unladen	mm/s	280/230
5.8		Max. gradeability, laden/unladen	%	8/12
Electric-Motor	5.10	Service brake	Electromagnetic brake	
	6.1	Drive motor rating S2 60 min	kW	2.2
	6.2	Lift motor rating at S3 15%	kW	3.2
	6.3	Battery	Lithium Battery	
	6.4	Battery voltage/Nominal capacity K _s	V/Ah	48/75 ¹⁾
	6.5	Battery weight (±5%)	kg	56
Additional data	6.6	Energy consumption according to DIN EN 16796	kWh/h	1
	10.7	Sound pressure level at the driver's ear, according to EN12053	dB(A)	<70

Remark: 1) optional lithium battery 48V 75/100Ah.

Mast Specifications

		Duplex Mast				Triplex Mast			
		h ₃ (mm)	h ₁ (mm)	h ₂ (mm)	h ₄ (mm)	h ₁₃ (mm)			
Lift height	h ₃ (mm)	2500	3000	3300	3500	4000	4500	5000	5600
Height of mast, lowered	h ₁ (mm)	1750	2000	2150	2250	1900	2065	2230	2430
Free lift	h ₂ (mm)	/	/	/	/	1330	1500	1670	1870
Height of mast, extended	h ₄ (mm)	3030	3530	3830	4030	4570	5065	5560	6160
Height of fork, lowered	h ₁₃ (mm)	88	88	88	88	88	88	88	88

Load curves

