



PRODUCTS GUIDE



OPTIMUM GLOBAL CO.,LTD.



A series 2.0/2.5/3.0/3.5/3.8T Lithium Battery Forklift

Cost-effective&Eco-friendly
Best Replacement for IC Forklift



Smart LCD Display.



The widened mast provides a better field of vision.



Cast Internal Combustion Forklift Steering Axle.



Full Vehicle LED Lighting.



Easy maintenance.



Heat sink net cover.



Lithium Battery Charging Port.



The use of a smaller diameter steering wheel reduces the fatigue for the operator.



Hydraulic oil level check is convenient.



Enlarged boarding step.



The engine hood opens at an 80-degree angle.

A series 2.0/2.5/3.0/3.5/3.8T Lithium Battery Forklift

The A series lithium battery forklift is a new energy forklift product developed based on the JUSTLIN IC forklift architecture and the advantages of lithium battery technology. On the premise of continuing the optimized design of the electric counterweight forklift, some key components are common to IC forklifts. They are superior to traditional electric forklifts in terms of vehicle performance, ergonomics, reliability, maintenance, outdoor operation capabilities, load-bearing capacity, etc., meeting the usage scenarios of customers' IC forklifts, and are an ideal choice for users to "exchange oil for electricity" under standard working conditions and heavy-duty working conditions.

Performance

- Standard Configuration S (Dual 15 Performance) is suitable for most electric forklift applications; Optional H (Dual 20 Performance) meets performance requirements for internal combustion forklifts.
- Increased ground clearance improves terrain adaptability; Customizable 135Ah-460Ah lithium battery options (standard with electric heating).
- Wider mast structure and optimized three-stage mast hydraulic routing for improved visibility; Expanded fork carriage roller spacing to reduce mast failure rates.
- Hydraulic & electrical optimization: Faster mast lifting/lowering speeds, increased efficiency of operation.
- Interchangeable with IC forklifts in: chassis system, mast system, steering system, control system, and drive axle.

Appearance

- A-series family design and streamlined contours with aesthetic appeal.
- Compact & robust exterior.
- Minimalist styling with reinforced metal external components.

Safety

- Long wheelbase design: Improved longitudinal stability and load capacity.
- Reduced rear axle load: Extends steering tire lifespan.
- Reinforced overhead guard: Enlarged rear pillars for operator safety.
- Wide-View Mast with Lowering Buffer: Minimizes cargo impact noise.

Ergonomics

- Ergonomic design: Expanded legroom, headroom, and visibility; small-diameter steering wheel for comfort.
- Convenient Access: Wider entry step and handrail.
- Tool-Free Front Panel: Simplifies maintenance.
- Streamlined Engine Cover: Noise reduction.

Reliability

- IC Forklift Testing Standards: Exceeds traditional electric forklift durability tests.
- Large Tires: Suitable for outdoor operations.
- Thermal Management: Fan-cooled electronics isolated from hydraulic oil tank; Oil pump motor positioned at counterweight ventilation.
- Robust Components: Cast steering axle with tapered roller bearings.
- Optimized hydraulic pipelines using 24° cone seals to prevent leaks.

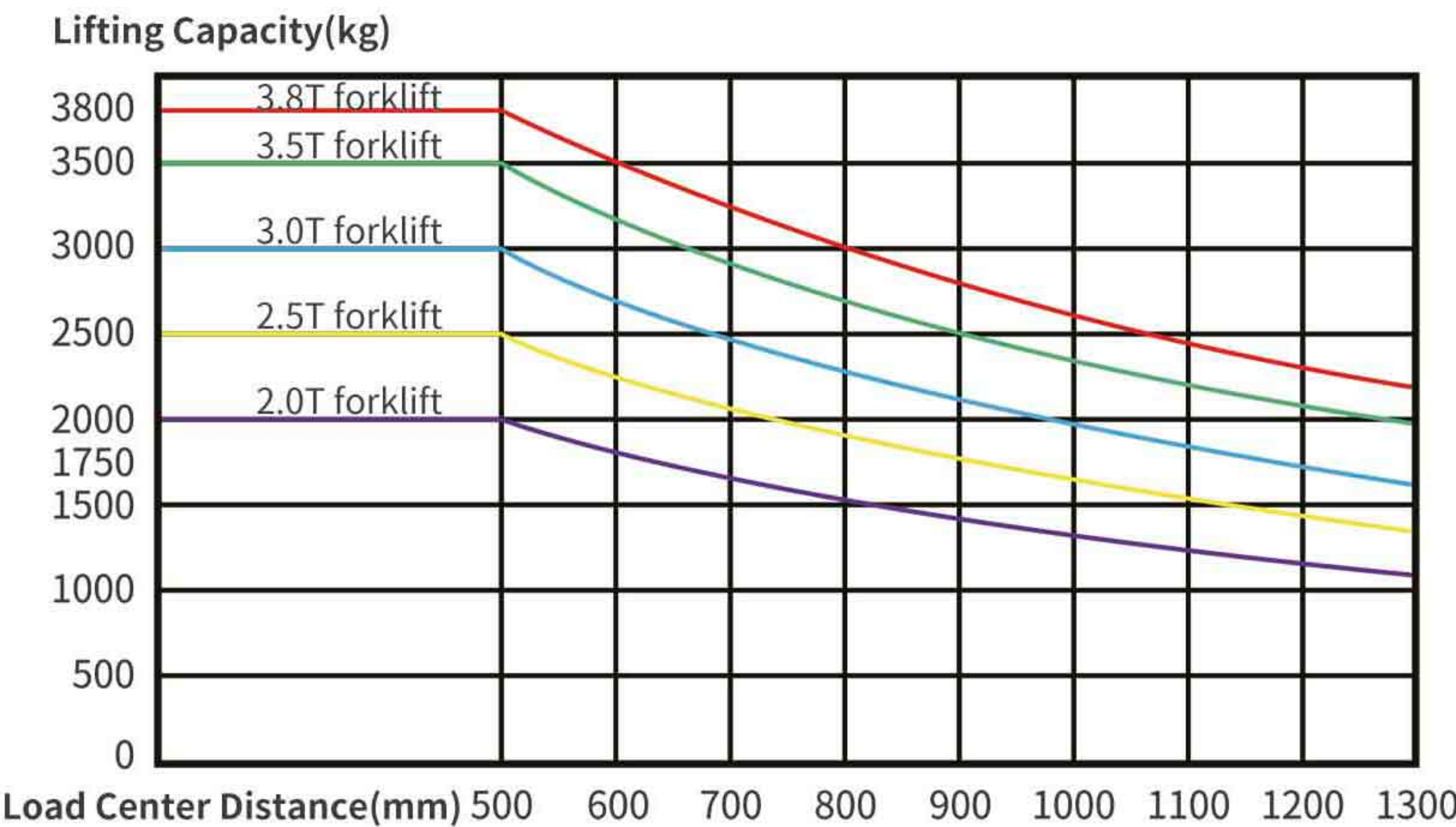
Standard Configuration

- Standard Load Backrest
- Full LED Lighting
- Standard Li-ion Battery
- Double-section Multi-section Valve
- Two-stage 3m Standard Mast
- Cup Holder
- Pneumatic Tire (Single)
- Overhead Guard
- 1.07m Hook-mounted Fork
- ID Recognition Instrument
- Emergency Power Cut-off Switch
- Weather Shield
- Fork Lowering Buffer
- Central Rearview Mirror
- Smart Color Display Instrument
- Onboard Toolbox

Optional Configuration

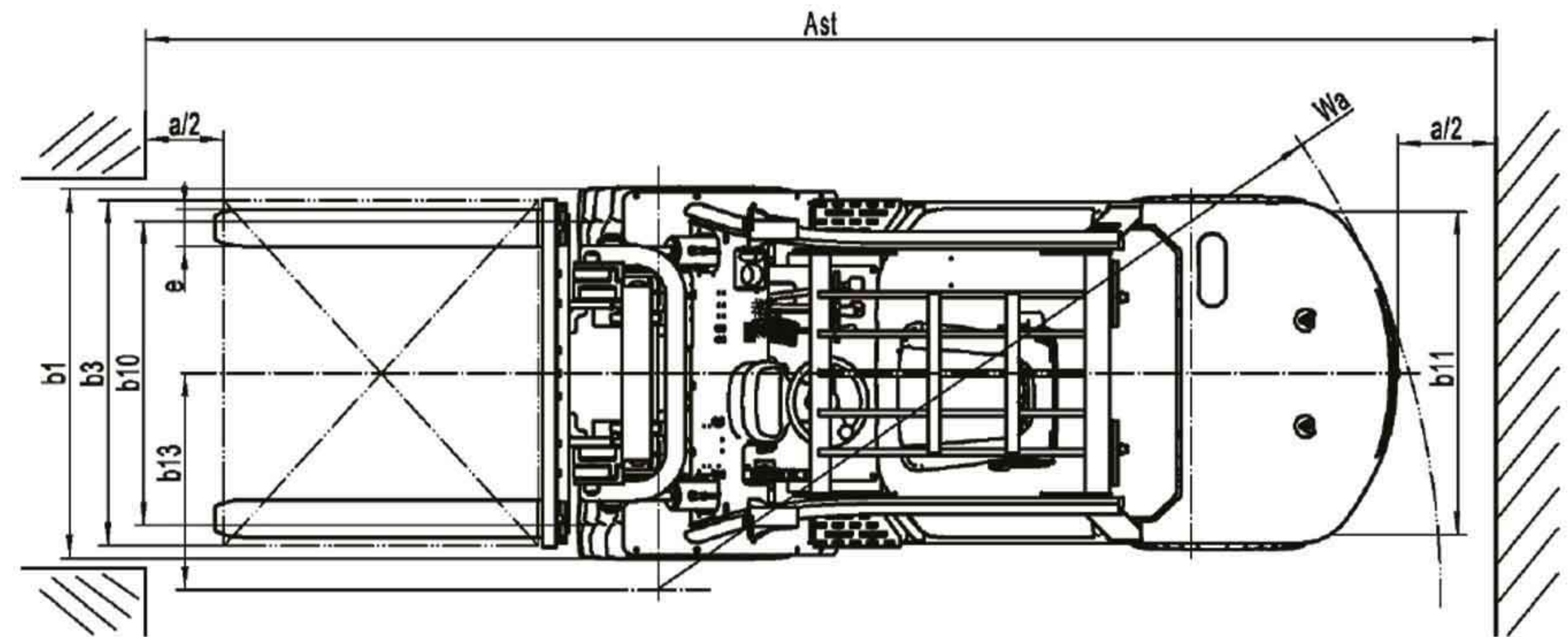
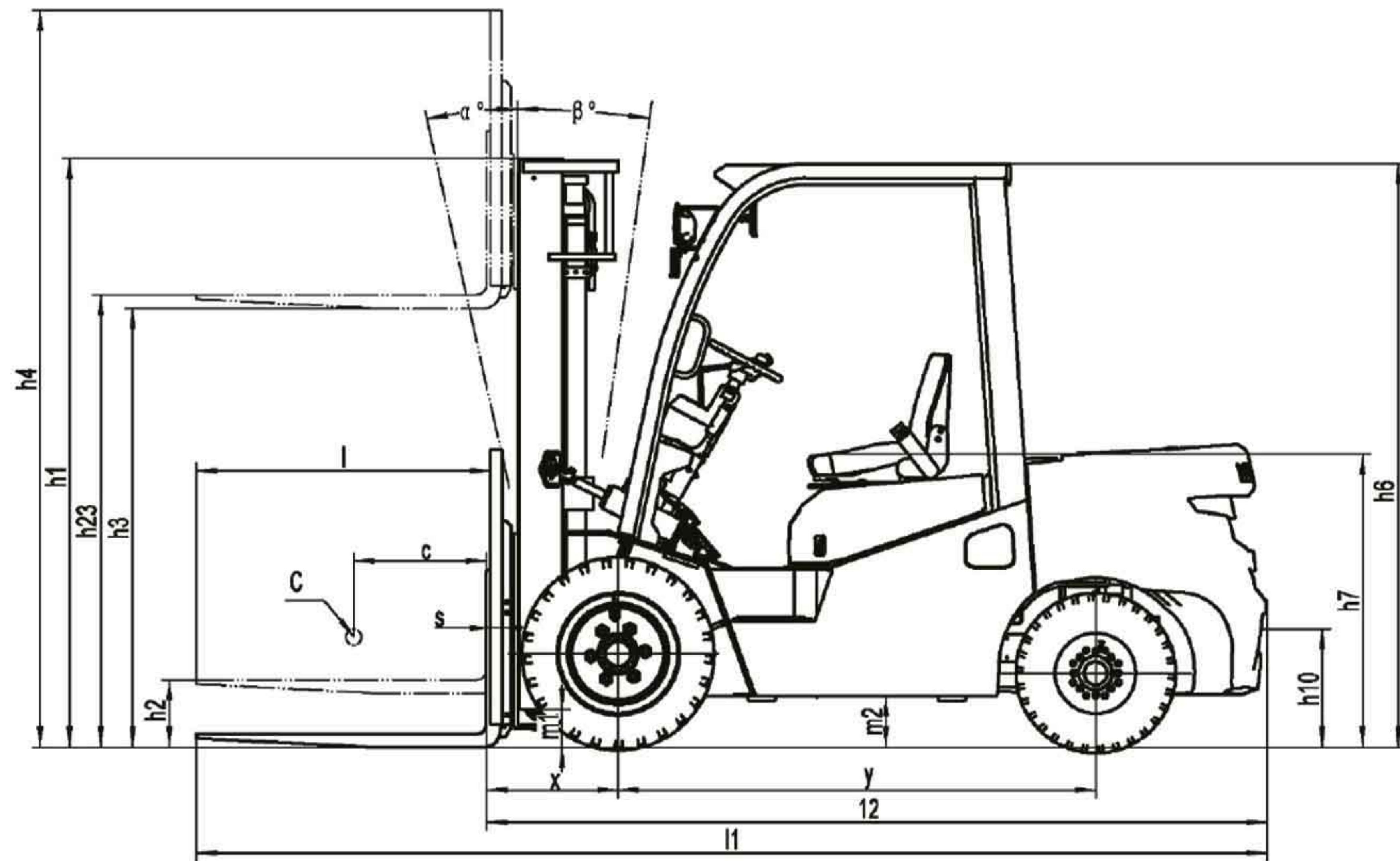
- Tilt Cylinder Boot
- Solid Tire
- Non-marking Tire
- Lowered Overhead Guard
- Front Windshield
- Full-suspension Seat
- Radiator Grille
- Fire Extinguisher
- Rear Horn Handle
- Rear Work Light
- Cab Heater
- External Side Shifter
- 3/4/5-section Multi-section Valve
- High-capacity Li-ion Battery
- Electric Fan
- Customer-specified Color
- Cab Air Conditioner + Heater
- Integrated Side Shifter
- Front Dual Wheels
- Cab
- Welded Canopy
- Warning Beacon
- Semi-enclosed Seat
- External Positioner Fork

Load Capacity Chart



Battery Configuration Chart (80v)			
Capacity(Ah/5h)	2-2.5t(High performance)	3-3.8t	3-3.8t(High performance)
135	○	○	/
150 (CE)	○	○	/
175	●	○	/
205 (CE)	○	●	/
230 (CE)	○	○	/
280 (CE)	○	○	○
300 (CE)	○	○	●
350 (CE)	○	○	○
410 (CE)	/	○	○
460 (CE)	/	○	○
● : Standard ○ : Optional / : Not Available			

Charger Configuration ChartCE Input Voltage: 3-Phase 380V (32A 5-Pin Industrial Plug)				
Capacity(Ah/5h)	2-3.8t(65A)	2-3.8t(100A)	2-3.8t(150A)	2-3.8t(200A)
135	●	/	/	/
150	●	/	/	/
175	●	○	/	/
205	●	○	/	/
230	●	○	/	/
280	●	○3-3.8T	○	/
300	●	○High-Performance	○	/
350	●	○Standard Configuration	○	○
410	●	○	○	○
460	●	○	○	○
● : Standard ○ : Optional / : Not Available Charger Compatible with Single-Phase 220V Input (Charging Current Halved)				



A-Series Lithium-ion Forklift Performance Specifications									No.20241211
Designation		CPD20-AF1H	CPD25-AF1H	CPD30-AF1S	CPD30-AF2H	CPD35-AF1S	CPD35-AF2H	CPD38-AF1S	CPD38-AF2H
Drive:electric(battery or mains),diesel,petrol gas>manual		Li-on battery	Li-on battery	Li-on battery	Li-on battery	Li-on battery	Li-on battery	Li-on battery	Li-on battery
Type of operation(hand,pedestrian,standing,seated.order-picker)		seated	seated	seated	seated	seated	seated	seated	seated
Load capacity/rated load	Q(kg)	2000	2500	3000	3000	3500	3500	3800	3800
Load centre distance	c(mm)	500	500	500	500	500	500	500	500
Fork dimensions	s/e/l(mm)	1070/120/40	1070/120/40	1070/122/45	1070/122/45	1070/122/50	1070/122/500	1070/122/50	1070/122/50
Fork Carriage Width	b3(mm)	1040	1040	1100	1100	1100	1100	1100	1100
Turning radius	Wa(mm)	2270	2270	2450	2450	2510	2510	2540	2540
Travel speed,laden/unladen	km/h	19/19	19/19	15/15	19/19	15/15	18/19	14/15	18/19
Lift speed,laden/unladen	mm/s	500/580	500/580	460/480	520/560	300/420	400/500	300/420	400/500
Lowering speed,laden/unladen	mm/s	400/420	400/420	380/410	380/410	380/410	380/410	380/410	380/410
Maximum Gradeability(laden/unladen) Mechanical Transmission	%	20/20	20/20	15/15	20/20	15/15	20/20	15/15	20/20
Drive motor tating S2-60min	kw	12	12	12	17	12	17	12	17
Lift motor rating S3-15min	kw	18	18	18	26	18	26	18	26
Battery voltage,nominal capacity	V/Ah	80/175	80/175	80/205	80/300	80/205	80/300	80/205	80/300

A-Series Lithium-ion Forklift Mast Table													
Designation	Mast Type	Maximum Lift Height	Mast Height			Free Lift Height		Front Overhang	Mast Tilt Angle	Lifting Capacity			
			Mast Lowered Height	Mast Extended Height		Without Load Backrest	Standard Load Backrest			500mmLoad Center Distance			
				Without Load Backrest	Standard Load Backrest					Single Wheel		Dual Wheel	
										mm	mm	mm	mm
		mm	2.0t/2.5t	2.0t/2.5t	2.0t/2.5t	2.0t/2.5t	2.0t/2.5t	2.0t/2.5t	(°)	kg	kg	kg	kg
Two-stage Wide-view Mast	A20/25/M200	2000	1615	2635	3045	140	140	465	6/12	2000	2500	2000	2500
	A20/25/M250	2500	1745	3135	3545	140	140	465	6/12	2000	2500	2000	2500
	A20/25/M270	2700	1845	3335	3745	140	140	465	6/12	2000	2500	2000	2500
	A20/25/M300	3000	1995	3635	4045	140	140	465	6/12	2000	2500	2000	2500
	A20/25/M330	3300	2145	3935	4345	140	140	465	6/12	2000	2500	2000	2500
	A20/25/M350	3500	2245	4135	4545	140	140	465	6/12	2000	2500	2000	2500
	A20/25/M360	3600	2345	4235	4645	140	140	465	6/12	2000	2500	2000	2500
	A20/25/M370	3700	2395	4335	4745	140	140	465	6/12	2000	2500	2000	2500
	A20/25/M380	3800	2445	4435	4845	140	140	465	6/12	2000	2500	2000	2500
	A20/25/M400	4000	2595	4635	5045	140	140	465	6/12	1900	2300	2000	2500
	A20/25/M430	4300	2745	4935	5345	140	140	465	6/6*6/12	1800	2100	1950	2450
	A20/25/M450	4500	2845	5135	5545	140	140	465	6/6*6/12	1700	2000	1900	2400
	A20/25/M480	4800	2995	5435	5845	140	140	465	6/6*6/12	1500	1700	1700	2100
	A20/25/M500	5000	3095	5635	6045	140	140	465	6/6*6/12	1400	1600	1600	2000
	A20/25/M550	5500	3345	6135	6545	140	140	465	3/6*3/6	1300	1400	1500	1800
	A20/25/M600	6000	3595	6635	7045	140	140	465	3/6*3/6	1000	1050	1400	1600
Two-stage Full Free Lift Mast	A20/25/U250	2500	1810	3170	3545	1140	760	465	6/12	2000	2500	2000	2500
	A20/25/U270	2700	1910	3370	3745	1240	860	465	6/12	2000	2500	2000	2500
	A20/25/U300	3000	2010	3670	4045	1340	960	465	6/12	2000	2500	2000	2500
	A20/25/U330	3300	2160	3970	4345	1490	1110	465	6/12	2000	2500	2000	2500
	A20/25/U360	3600	2310	4270	4645	1640	1260	465	6/12	2000	2500	2000	2500
	A20/25/U400	4000	2560	4670	5045	1890	1510	465	6/12	1900	2300	2000	2500
Three-stage Full Free Lift Mast	A20/25/N400	4000	1955	4695	5055	1270	910	475	6/6	1800	2100	1950	2450
	A20/25/N430	4300	2055	4995	5355	1370	1010	475	6/6	1700	2000	1900	2400
	A20/25/N450	4500	2125	5245	5605	1440	1080	475	6/6	1600	1900	1800	2300
	A20/25/N480	4800	2225	5495	5855	1540	1180	475	6/6	1500	1700	1700	2100
	A20/25/N500	5000	2290	5695	6055	1605	1245	475	6/6	1400	1600	1600	2000
	A20/25/N550	5500	2455	6195	6555	1770	1410	475	3/6	1050	1200	1500	1800
	A20/25/N600	6000	2675	6705	7055	1990	1630	475	3/6	700	800	1400	1600
	A20/25/N650	6500	2850	7195	7555	2165	1805	475	3/6	\		1300	1450
	A20/25/N700	7000	3055	7725	8055	2340	2010	475	3/6	\	\	1200	1300

Integrated Side Shifter: Capacity reduced by 100kg, External Side Shifter: Capacity reduced by 150kg

* Dual-wheel configuration with adjustable tilt angle (optional)。

2-2.5T Models: Optional three-stage 7.5m/8m mast.

A-Series Lithium-ion Forklift Mast Table																					
Designation	Mast Type	Maximum Lift Height	Mast Height						Free Lift Height				Front Overhang		Mast Tilt Angle	Lifting Capacity					
			Mast Lowered Height	Mast Extended Height				Without Load Backrest		Standard Load Backrest		500mmLoad Center Distance									
				Without Load Backrest		Standard Load Backrest						Single Wheel				Dual Wheel					
			mm	mm	3.0t	3.5t/3.8t	3.0t	3.5t/3.8t	3.0t	3.5t/3.8t	3.0t	3.5t/3.8t	3.0t	3.5t/3.8t	3.0t	3.5t/3.8t	front/rear °)	3.0t	3.5t	3.8t	3.0t
Wide-view Mast	A30/35/M200	2000	1555	1670	2670	2790	3105	3105	145	150	145	150	480	485	6/12	3000	3500	3800	3000	3500	3800
	A30/35/M250	2500	1805	1920	3170	3290	3605	3605	145	150	145	150	480	485	6/12	3000	3500	3800	3000	3500	3800
	A30/35/M270	2700	1905	2020	3370	3490	3805	3805	145	150	145	150	480	485	6/12	3000	3500	3800	3000	3500	3800
	A30/35/M300	3000	2055	2170	3670	3790	4105	4105	145	150	145	150	480	485	6/12	3000	3500	3800	3000	3500	3800
	A30/35/M330	3300	2205	2320	3970	4090	4405	4405	145	150	145	150	480	485	6/12	3000	3500	3800	3000	3500	3800
	A30/35/M350	3500	2305	2420	4170	4290	4605	4605	145	150	145	150	480	485	6/12	3000	3500	3800	3000	3500	3800
	A30/35/M360	3600	2405	2470	4270	4390	4705	4705	145	150	145	150	480	485	6/12	3000	3500	3800	3000	3500	3800
	A30/35/M370	3700	2455	2520	4370	4490	4805	4805	145	150	145	150	480	485	6/12	3000	3500	3800	3000	3500	3800
	A30/35/M380	3800	2505	2570	4470	4590	4905	4905	145	150	145	150	480	485	6/12	3000	3500	3800	3000	3500	3800
	A30/35/M400	4000	2655	2720	4670	4790	5105	5105	145	150	145	150	480	485	6/12	3000	3500	3800	3000	3500	3800
	A30/35/M430	4300	2805	2870	4970	5090	5405	5405	145	150	145	150	480	485	6/6*6/12	2900	3250	3650	3000	3400	3800
	A30/35/M450	4500	2905	2970	5170	5290	5605	5605	145	150	145	150	480	485	6/6*6/12	2850	3100	3350	3000	3350	3700
	A30/35/M480	4800	3055	3120	5470	5590	5905	5905	145	150	145	150	480	485	6/6*6/12	2700	2900	3100	2900	3050	3450
	A30/35/M500	5000	3155	3220	5670	5790	6105	6105	145	150	145	150	480	485	6/6*6/12	2550	2800	2850	2850	2850	3200
	A30/35/M550	5500	3405	3470	6170	6290	6605	6605	145	150	145	150	480	485	3/6*3/6	2250	2350	2650	2650	2700	3000
	A30/35/M600	6000	3655	3720	6670	6790	7105	7105	145	150	145	150	480	485	3/6*3/6	1550	1750	2200	2200	2400	2800
Full Free Lift Mast	A30/35/U250	2500	1880	1990	3260	3355	3620	3620	1120	1140	735	845	480	485	6/12	3000	3500	3800	3000	3500	3800
	A30/35/U270	2700	1980	2090	3460	3555	3820	3820	1220	1240	835	945	480	485	6/12	3000	3500	3800	3000	3500	3800
	A30/35/U300	3000	2090	2190	3770	3845	4120	4120	1330	1340	945	1045	480	485	6/12	3000	3500	3800	3000	3500	3800
	A30/35/U330	3300	2240	2390	4070	4155	4420	4420	1480	1540	1095	1245	480	485	6/12	3000	3500	3800	3000	3500	3800
	A30/35/U360	3600	2390	2550	4370	4455	4720	4720	1630	1700	1245	1405	480	485	6/12	3000	3500	3700	3000	3500	3700
	A30/35/U400	4000	2590	2750	4770	4855	5120	5120	1830	1900	1445	1605	480	485	6/12	2850	3250	3550	3000	3500	3700
Full Free Lift Mast	A30/35/N400	4000	2005	2105	4780	4855	5120	5120	1235	1260	860	960	490	505	6/6	2700	3000	3200	2900	3400	3600
	A30/35/N430	4300	2105	2205	5080	5155	5420	5420	1335	1360	960	1060	490	505	6/6	2550	2850	3200	2850	3350	3600
	A30/35/N450	4500	2175	2175	5335	5355	5670	5670	1405	1430	1030	1130	490	505	6/6	2400	2700	3100	2700	3200	3550
	A30/35/N480	4800	2275	2375	5580	5655	5920	5920	1505	1530	1130	1230	490	505	6/6	2250	2450	2800	2550	2950	3150
	A30/35/N500	5000	2340	2440	5780	5855	6120	6120	1570	1595	1195	1295	490	505	6/6	2100	2300	2600	2400	2800	3100
	A30/35/N550	5500	2505	2605	6280	6355	6620	6620	1735	1760	1360	1460	490	505	3/6	1650	1800	2050	2250	2550	2800
	A30/35/N600	6000	2725	2770	6780	6855	7120	7120	1955	1925	1580	1625	490	505	3/6	1200	1300	1550	2100	2300	2550
	A30/35/N650	6500	2900	3000	7280	7355	7615	7615	2130	2155	1755	1850	490	505	3/6				1950	2050	2300
	A30/35/N700	7000	3105	3170	7780	7855	8115	8115	2335	2325	1960	2125	490	505	3/6	\	\	\	1800	1850	2050

Integrated Side Shifter: Capacity reduced by 100kg, External Side Shifter: Capacity reduced by 200kg.

* Dual-wheel configuration with adjustable tilt angle

3-3.8T Models: Optional three-stage 7.5m/8m mast.



A Series 3.0/3.5/3.8 tonne Internal Combustion Forklift

A series is an internal combustion counterbalanced forklift developed by JUSTLIN with advanced technology. By configuring the national IV emission engine and optimising the transmission and hydraulic system matching, the whole forklift runs more environmentally friendly and consumes less energy.

Performance

- The ground clearance of the whole truck is increased for better passability; the fuel tank volume is increased to meet the requirements of continuous operation in two shifts.
- Wider mast and optimised pipeline of three-stage mast, better vision.
- 3.5T-3.8T lifting cylinder diameter is increased, chain is increased, fork frame roller spacing is increased, the failure rate of the mast is low.
- Optimised hydraulic system matching, faster lifting and lowering speed of the mast, higher working efficiency.
- Optimise the gear shift and micro-manoeuve, smoother operation.

Appearance

- Adopting brand-new appearance design, family face shape, streamline shape, smooth lines, beautiful and generous.
- The whole vehicle is simple, compact and powerful.
- The exposed parts are all metal parts, which are firm and reliable.

Safety

- Adopt long wheelbase design, better longitudinal stability of the whole vehicle, and greatly improve the carrying capacity under the same lifting height.
- Reduce the load of rear axle and prolong the life of steering tyres.
- The rear column of the overhead guard is enlarged to ensure the safety of the driver.
- Wide view mast, mast with lowering buffer, reduce the sound of cargo impact.

Comfort

- Ergonomic design, increase the driving legroom and headroom, increase the operating field of view, small diameter steering wheel to improve the operating comfort.
- Enlarged boarding pedal and boarding armrest make it more convenient to get on and off the truck.
- Integral front bottom plate can be opened without tools, which improves the convenience of daily maintenance and repair.
- The streamlined overall hood reduces noise.

Reliable

- The engine intake pipe adopts high independent intake, effectively preventing dust from being sucked in.
- High-flow air filter reduces air intake resistance and prolongs engine life.
- Aluminium tube and belt radiator and optimised balanced weight cooling ducts improve the cooling capacity of the whole vehicle and ensure the reliable operation of the engine and gearbox.
- Casting steering axle and steering pin adopts tapered roller bearing to improve the reliability of the whole vehicle.
- Optimised hydraulic pipeline layout and 24° cone seal for pipeline joints to reduce hydraulic leakage.



Advanced ergonomics significantly improve operational comfort.



A smaller diameter steering wheel is used to reduce operator fatigue.



The engine hood opens at an 80-degree angle.



Automotivestyle fuel filler cap.



Equipped with led lightning.



The widened mast provides a better field of vision.



Easy maintenance.



Enlarge the boarding step.



Increase the leg and headroom for the driver, and enhance visibility for operation.



The engine intake pipe uses a highmounted independent intake, effectively preventing dust from entering



Useful cup and pen holder.

Standard Configuration

- Standard Load Backrest
 - Full LED Lighting
 - Single Air Filter
 - Double-section Multi-section Valve
- Two-stage 3m Standard Mast
 - Cup Holder
 - Pneumatic Tire (Single)
 - Overhead Guard
- 1.07m Hook-mounted Fork
 - ID Recognition Instrument
 - Mid-position Exhaust
 - Weather Shield
- Fork Lowering Buffer
 - Central Rearview Mirror
 - High-position Intake
 - Onboard Toolbox

Optional Configuration

- Tilt Cylinder Boot
 - Solid Tire
 - Non-marking Tire
 - Counterweight Grille
 - Lowered Overhead Guard
 - Electro-hydraulic Directional Valve
 - Full-suspension Seat
- Radiator Grille
 - Fire Extinguisher
 - Rear Horn Handle
 - Electric Fan
 - Cab Heater
 - Cab Air Conditioner + Heater
 - Front Windshield
- 3/4/5-section Multi-section Valve
 - High-speed Transmission
 - Main Power Switch
 - Customer-specified Color
 - Warning Beacon
 - Rear Work Light
 - Welded Canopy
- Front Dual Wheels
 - Cab
 - High-position Exhaust
 - Exhaust Fire Arrestor
 - Dual Air Filter
 - Semi-enclosed Seat
 - Oil-bath Air Filter

Engine Configuration Table

Engine Model	Xinchai4D29V41	Xinchai4D32V41	Xinchai4D29V41	Quanchai V29-50V42
Engine Description	493VP Pump (China IV Emission)	498VP Pump (China IV Emission)	493VP Pump (China IV Emission)	493VP Pump (China IV Emission)
Engine Code	N1X1	N1X2	N1X3	N1Q1
Power Type	Diesel	Diesel	Diesel	Diesel
Power(kW/r/min)	36.8/2500	36.8/2500	34/2500	36.8/2500
Torque(N · m/r/min)	165/1600-1800	186/1600-1800	140/1600-1800	170/1800
Displacement(L)	2.85	3.17	2.85	2.85
Applicable Tonnage	2-3.8T	2-3.8T	1.5-1.8T	2-3.8T

Fuel Forklift A Series Performance Specifications						
Identification	1.2	Designation		CPC(D)30-N1X1	CPC(D)35-N1X1	CPC(D)38-N1X1
	1.3	Drive:electric(battery or mains),diesel,petrol gas>manual		Diesel	Diesel	Diesel
	1.4	Type of operation (hand, pedestrian, standing, seated.order-picker)		seated	seated	seated
	1.5	Load capacity/rated load	Q(kg)	3000	3500	3800
	1.6	Load centre distance	c(mm)	500	500	500
	1.8	Load distance,centre of drive axle to fork	x(mm)	480	485	485
	1.9	Wheelbase	y(mm)	1760	1760	1760
Weights	2.1	Service weight	kg	4250	4560	4760
	2.2	Axle loading,laden front/rear	kg	6450/800	7220/840	7690/870
	2.3	Axle loading,unladen front/rear	kg	1750/2500	1760/2800	1760/3000
Wheel, CHassis	3.1	Type:solid rubber, superelastic, pneumatic, polyurethane		pneumatic	pneumatic	pneumatic
	3.2	Tyres size,front		28x9-15-14PR	28x9-15-14PR	28x9-15-14PR
	3.3	Tyres size,rear		6.50-10-10PR	6.50-10-10PR	6.50-10-10PR
	3.5	Wheels,number front/rear(×=driven wheels)		2X/2	2X/2	2X/2
	3.6	Track width,front	b10(mm)	1000	1000	1000
	3.7	Track width,rear	b11(mm)	980	980	980
Basic Dimensions	4.1	Fork carriage tilt (forward/backward)	a/β(°)	6/12	6/12	6/12
	4.2	Lowered mast height	h1(mm)	2055	2170	2170
	4.3	Free lift height	h2(mm)	145	150	150
	4.4	Lift height	h3(mm)	3000	3000	3000
	4.4a	Lift height(Including Fork Thickness)	h23(mm)	3045	3050	3050
	4.5	Extended mast height	h4(mm)	4105	4105	4105
	4.7	Overhead load guardheight	h6(mm)	2150	2150	2150
	4.8	Seat height	h7(mm)	1050	1050	1050
	4.12	Coupling height	h10(mm)	420	420	420
	4.19	Overall length	l1(mm)	3840	3905	3945
	4.20	Length to face of forks	l2(mm)	2770	2835	2875
	4.21	Overall width(Chassis/Tire Type)	b1(mm)	1195/1228	1195/1228	1195/1228
	4.22	Fork dimensions	s/e/l(mm)	1070/122/45	1070/122/50	1070/122/50
	4.23	Fork Mounting Class		3A	3A	3A
	4.24	Fork carriage width	b3(mm)	1100	1100	1100
	4.31	Ground clearance,laden,under mast	m1(mm)	140	140	140
	4.32	Ground clearance,centre of wheelbase	m2(mm)	190	190	190
	4.34.1	Aisle width for pallets 1000×1200 crossways	Ast(mm)	4130	4195	4225
	4.34.2	Aisle width for pallets 800×1200 lengthways	Ast(mm)	4330	4395	4425
	4.35	Turning radius	Wa(mm)	2450	2510	2540
	4.36	Inside Turning Radius	b13(mm)	715	715	715

Fuel Forklift A Series Performance Specifications						
Performance Data	5.1	Travel speed,laden/unladen	km/h	19/20	19/20	19/20
	5.2	Lift speed,laden/unladen Two-stage Mast	mm/s	460/480	380/410	380/410
	5.3	Lowering speed,laden/unladen Two-stage Mast	mm/s	410/430	410/430	410/430
	5.6	Maximum Traction Force,laden/unladen Mechanical Transmission	kN	21/17	21/17	21/16
	5.6a	Maximum Traction Force,laden/unladen Hydraulic Transmission	kN	21/17	21/17	21/16
	5.7	Max.Gradient performance,laden/unladen S2 Mechanical Transmission	%	20/20	20/20	20/20
	5.7a	Max.Gradient performance,laden/unladen S2 Hydraulic Transmission	%	20/20	20/20	20/20
	5.10	Service brake		Hydraulic	Hydraulic	Hydraulic
E-Motor	7.1	Engine Manufacturer		XINCHAI 4D29V41	XINCHAI 4D29V41	XINCHAI 4D29V41
	7.2	Engine Rated PowerISO1585	kW	36.8	36.8	36.8
	7.3	Rated Speed	rpm	2500	2500	2500
	7.4	Cylinder Number/Displacement	cm3	4/2850	4/2850	4/2850
	7.5a	Maximum Torque	N.m/rpm	165/1600-1800	165/1600-1800	165/1600-1800
	7.9	System Rated Voltage	V	12	12	12
	7.10	Starter Battery Capacity	V/Ah	12/80	12/80	12/80
Transmission	8.1	Transmission Type		Mechanical(Hydraulic)	Mechanical(Hydraulic)	Mechanical(Hydraulic)
	8.2	Gear Positions (Forward/Reverse)		2/2(1/1)	2/2(1/1)	2/2(1/1)
	8.3	Shifting Mode		Mechanical(Mechanical-hydraulic)	Mechanical(Mechanical-hydraulic)	Mechanical(Mechanical-hydraulic)
Other Details	10.1	Attachment Working Pressure	Mpa	18.5	18.5	18.5
	10.2	Attachment Working Flow Rate	L/min	70	70	70
	10.4	Fuel Tank Capacity	L	70	70	70
		Tow Pin Specification DIN 15170		30	30	30

Fuel Forklift A Series Mast Specifications																					
Designation	Mast Type	Maximum Lift Height	Mast Height						Free Lift Height				Front Overhang		Mast Tilt Angle	Lifting Capacity					
			Mast Lowered Height	Mast Extended Height				Without Load Backrest		Standard Load Backrest		500mmLoad Center Distance									
				Without Load Backrest		Standard Load Backrest						Single Wheel				Dual Wheel					
			mm	3.0t	3.5t/3.8t	3.0t	3.5t/3.8t	3.0t	3.5t/3.8t	3.0t	3.5t/3.8t	3.0t	3.5t/3.8t	3.0t	3.5t/3.8t	3.0t	3.5t/3.8t	front/ rear	3.0t	3.5t	3.8t
		mm	3.0t	3.5t/3.8t	3.0t	3.5t/3.8t	3.0t	3.5t/3.8t	3.0t	3.5t/3.8t	3.0t	3.5t/3.8t	3.0t	3.5t/3.8t	(°)	kg	kg	kg	kg	kg	kg
Two-stage Wide-view Mast	A30/35/M200	2000	1555	1670	2670	2790	3105	3105	145	150	145	150	480	485	6/12	3000	3500	3800	3000	3500	3800
	A30/35/M250	2500	1805	1920	3170	3290	3605	3605	145	150	145	150	480	485	6/12	3000	3500	3800	3000	3500	3800
	A30/35/M270	2700	1905	2020	3370	3490	3805	3805	145	150	145	150	480	485	6/12	3000	3500	3800	3000	3500	3800
	A30/35/M300	3000	2055	2170	3670	3790	4105	4105	145	150	145	150	480	485	6/12	3000	3500	3800	3000	3500	3800
	A30/35/M330	3300	2205	2320	3970	4090	4405	4405	145	150	145	150	480	485	6/12	3000	3500	3800	3000	3500	3800
	A30/35/M350	3500	2305	2420	4170	4290	4605	4605	145	150	145	150	480	485	6/12	3000	3500	3800	3000	3500	3800
	A30/35/M360	3600	2405	2470	4270	4390	4705	4705	145	150	145	150	480	485	6/12	3000	3500	3800	3000	3500	3800
	A30/35/M370	3700	2455	2520	4370	4490	4805	4805	145	150	145	150	480	485	6/12	3000	3500	3800	3000	3500	3800
	A30/35/M380	3800	2505	2570	4470	4590	4905	4905	145	150	145	150	480	485	6/12	3000	3500	3800	3000	3500	3800
	A30/35/M400	4000	2655	2720	4670	4790	5105	5105	145	150	145	150	480	485	6/12	3000	3500	3800	3000	3500	3800
	A30/35/M430	4300	2805	2870	4970	5090	5405	5405	145	150	145	150	480	485	6/6*6/12	2900	3250	3650	3000	3400	3800
	A30/35/M450	4500	2905	2970	5170	5290	5605	5605	145	150	145	150	480	485	6/6*6/12	2850	3100	3350	3000	3350	3700
	A30/35/M480	4800	3055	3120	5470	5590	5905	5905	145	150	145	150	480	485	6/6*6/12	2700	2900	3100	2900	3050	3450
	A30/35/M500	5000	3155	3220	5670	5790	6105	6105	145	150	145	150	480	485	6/6*6/12	2550	2800	2850	2850	2850	3200
	A30/35/M550	5500	3405	3470	6170	6290	6605	6605	145	150	145	150	480	485	3/6	2250	2350	2650	2650	2700	3000
	A30/35/M600	6000	3655	3720	6670	6790	7105	7105	145	150	145	150	480	485	3/6	1550	1750	2200	2200	2400	2800
Two-stage Full Free Lift Mast	A30/35/U250	2500	1880	1990	3260	3355	3620	3620	1120	1140	735	845	480	485	6/12	3000	3500	3800	3000	3500	3800
	A30/35/U270	2700	1980	2090	3460	3555	3820	3820	1220	1240	835	945	480	485	6/12	3000	3500	3800	3000	3500	3800
	A30/35/U300	3000	2090	2190	3770	3845	4120	4120	1330	1340	945	1045	480	485	6/12	3000	3500	3800	3000	3500	3800
	A30/35/U330	3300	2240	2390	4070	4155	4420	4420	1480	1540	1095	1245	480	485	6/12	3000	3500	3800	3000	3500	3800
	A30/35/U360	3600	2390	2550	4370	4455	4720	4720	1630	1700	1245	1405	480	485	6/12	3000	3500	3700	3000	3500	3700
	A30/35/U400	4000	2590	2750	4770	4855	5120	5120	1830	1900	1445	1605	480	485	6/12	2850	3250	3550	3000	3500	3700
Three-stage Full Free Lift Mast	A30/35/N400	4000	2005	2105	4780	4855	5120	5120	1235	1260	860	960	490	505	6/6	2700	3000	3200	2900	3400	3600
	A30/35/N430	4300	2105	2205	5080	5155	5420	5420	1335	1360	960	1060	490	505	6/6	2550	2850	3200	2850	3350	3600
	A30/35/N450	4500	2175	2175	5335	5355	5670	5670	1405	1430	1030	1130	490	505	6/6	2400	2700	3100	2700	3200	3550
	A30/35/N480	4800	2275	2375	5580	5655	5920	5920	1505	1530	1130	1230	490	505	6/6	2250	2450	2800	2550	2950	3150
	A30/35/N500	5000	2340	2440	5780	5855	6120	6120	1570	1595	1195	1295	490	505	6/6	2100	2300	2600	2400	2800	3100
	A30/35/N550	5500	2505	2605	6280	6355	6620	6620	1735	1760	1360	1460	490	505	3/6	1650	1800	2050	2250	2550	2800
	A30/35/N600	6000	2725	2770	6780	6855	7120	7120	1955	1925	1580	1625	490	505	3/6	1200	1300	1550	2100	2300	2550
	A30/35/N650	6500	2900	3000	7280	7355	7615	7615	2130	2155	1755	1850	490	505	3/6				1950	2050	2300
		7000	3105	3170	7780	7855	8115	8115	2335	2325	1960	2125	490	505	3/6	\		\	1800	1850	2050

Integrated Side Shifter: Capacity reduced by 100kg, External Side Shifter: Capacity reduced by 200kg.

* Dual-wheel configuration with adjustable tilt angle

3-3.8T Models: Optional three-stage 7.5m/8m mast



Ergonomic Design



High Performance Battery



Easy Maintenance



Robust & Reliable Design



Rated Load 1200/1500kg



Great Power

Efficient operation in confined spaces like trucks and containers with agile maneuverability.



Transmission System

Integrated axle-gearbox structure with parallel layout and high gear ratio. High speed, powerful performance, and superior climbing capability.



Steering Axle

Dual-wheel structure ensures smoother operation. Rear wheels automatically center after power-off. Front-wheel drive, four-wheel three-point support forklift. Standard solid rubber tires with loaded travel speed up to 9 km/h and excellent stability.



Integrated Multi-section Valve Control Handle

Combines direction switch and horn switch into the lift control handle, enhancing operational comfort.



Simple and intuitive controls, compatible with USB add-ons.



Battery Handling

Side-extraction battery for easy installation and replacement. Full-open hood design simplifies maintenance. Optional multi-specification battery configurations.



Full LED lighting with standard warning beacon, enabling safe nighttime operations.



Adjustable seat (with seat belt and armrests) and adjustable steering wheel ensure optimal ergonomic positioning, reducing operator fatigue during prolonged use.



Safety handrails installed for boarding/alighting.



Multi-function display with low battery alert and fault alarm.

Advantages

Full AC Maintenance-free System: Travel motor uses maintenance-free AC motor with strong power output. Traditional DC motors require frequent carbon brush replacement, while JUSTLIN AC motors eliminate brush replacement. Equipped with speed and temperature sensors, comprehensive protection functions ensure significantly improved reliability and service life.	Integrated Handle Design: Combines forward/reverse direction switch and horn switch into the handle ball of the lift multi-section valve, enabling linked operation to reduce complex operation.	Optimized Chassis Design: Transverse drive axle with parallel layout and high gear ratio. Battery positioned at the chassis base for enhanced stability.	Proven Hydraulic System from Warehouse Trucks: Integrated motor-pump unit with damping system ensures low operational noise and operator comfort.	Ergonomic Control: EPS electric power steering provides effortless operation, energy-saving and eco-friendly.
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E-Series Battery Electric Counterbalanced Forklift

Identification				
1.1	Brand		JUSTLIN	JUSTLIN
1.2	Manufacture's type designation		FE3R12E	FE3R15E
1.3	Drive:electric(battery or mains),diesel,petrol gas>manual		electric	electric
1.4	Type of operation(hand,pedestrian,standing,seated.order-picker)		seated	seated
1.5	Load capacity/rated load	Q(kg)	1200	1500
1.6	Load centre distance	c(mm)	500	500
1.8	Load distance,centre of drive axle to fork	x(mm)	284	310
1.9	Wheelbase	y(mm)	1130	1214
Weights				
2.1	Service weight inc.battery	kg	1850	2440
2.2	Axle loading,laden front/rear	kg	2740/310	3540/400
2.3	Axle loading,unladen front/rear	kg	860/990	1040/1400
Wheel				
3.1	Type:solid rubber,superelastic,pneumatic,polyurethane		solid rubber	solid rubber
3.2	Tyres size,front		4.00-8	413×127
3.3	Tyres size,rear		3.50-5	323×100
3.5	Wheels,number front/rear(×=driven wheels)		2/2×2	2×/2
3.6	Track width,front	b10(mm)	800	848
3.7	Track width,rear	b11(mm)	186	188
Basic Dimensions				
4.1	Fork carriage tilt (forward/backward)	α/β)	3/5	3/5
4.2	lowered mast height	h1(mm)	1975	1970
4.3	Free lift height	h2(mm)	95	95

4.4	Lift height	h3(mm)	3000	3000
4.5	Extended mast height	h4(mm)	3865	3865
4.7	Overhead load guardheight	h6(mm)	1975	1975
4.8	Seat height	h7(mm)	980	980
4.12	Coupling height	h10(mm)	540	540
4.19	Overall length	l1(mm)	2570	2665
4.20	Length to face of forks	l2(mm)	1650	1745
4.21	Overall width	b1(mm)	922	1000
4.22	Fork dimensions	s/e/l(mm)	35/100/920	35/100/920
4.24	Fork carriage width	b3(mm)	825	825
4.31	Ground clearance,laden,under mast	m1(mm)	80	80
4.32	Ground clearance,centre of wheelbase	m2(mm)	90	90
4.33	Aisle width for pallets 1000×1200 crossways	Ast(mm)	2891	2986
4.34	Aisle width for pallets 800×1200 lengthways	Ast(mm)	3009	3104
4.35	Turning radius	Wa(mm)	1490	1590
Performance				
5.1	Travel speed,laden/unladen	km/h	9/10	8/9
5.2	Lift speed,laden/unladen	m/s	0.15/0.22	0.20/0.30
5.3	Lowering speed,laden/unladen	m/s	0.25/0.27	0.4/0.5
5.5	Drawbar pull,laden/unladenS2 60min	N	1800/2300	2100/2600
5.6	Max.drawbar pull,laden/unladenS2 5min	N	3420/3640	3700/3940
5.7	Max.Gradient performance,laden/unladenS2 5min	%	6/10	6/10
5.10	Service brake		Hydraulic+ electromagnetic	Hydraulic+ electromagnetic
E-Motor				
6.1	Drive motor tating S2 60min	kW	4.5	5
6.2	Lift motor rating S3 15%	kW	3	6
6.3	Battery(according to DIN 43531/35/36A,B,C standard)		DIN	DIN
6.4	Battery voltage,nominal capacity K5	V/Ah	48/160(4 singles) 48/(180/210)(optional)	48/(200/240/280)
6.5	Battery weight	kg	160/360/400	380/440/500
	Battery size Length/Width/Height	mm	806/372/628	718×485×631
Other Details				
8.1	Type of drive control		AC	AC
8.2	Operating pressure for attachments	Mpa	13.5	13.5
8.3	Oil volume for attachments	l/min	30	14.5
8.4	Sound level at driver's ear according to EN 12053	dB(A)	70	70



Sit-on Reach Truck RT15Q

RT15Q light duty reach truck is designed for light duty application scenario. It adopts 24V battery, EPS system, manual operated multiple-way valve, with capacity of 1500kg, the maximum lifting height is up to 5500mm, It has small turning radius, and is flexible and smart in use. It is applicable to store and stack goods in factories, warehouses, supermarkets, docks and other places.



Robust & reliable design



High operability



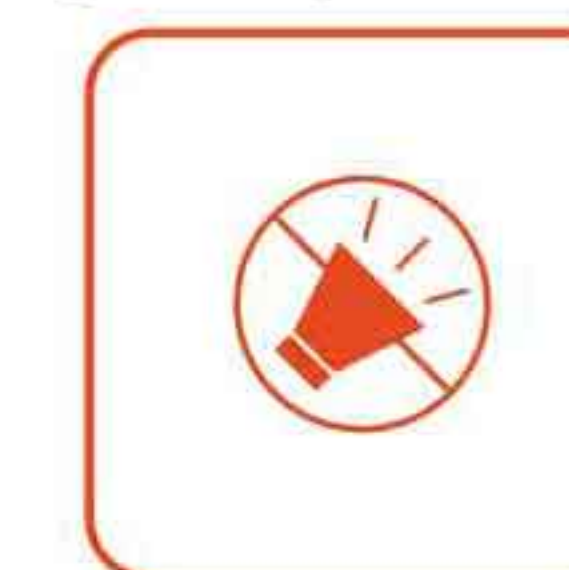
High cost performance



Rated Load 1500Kg

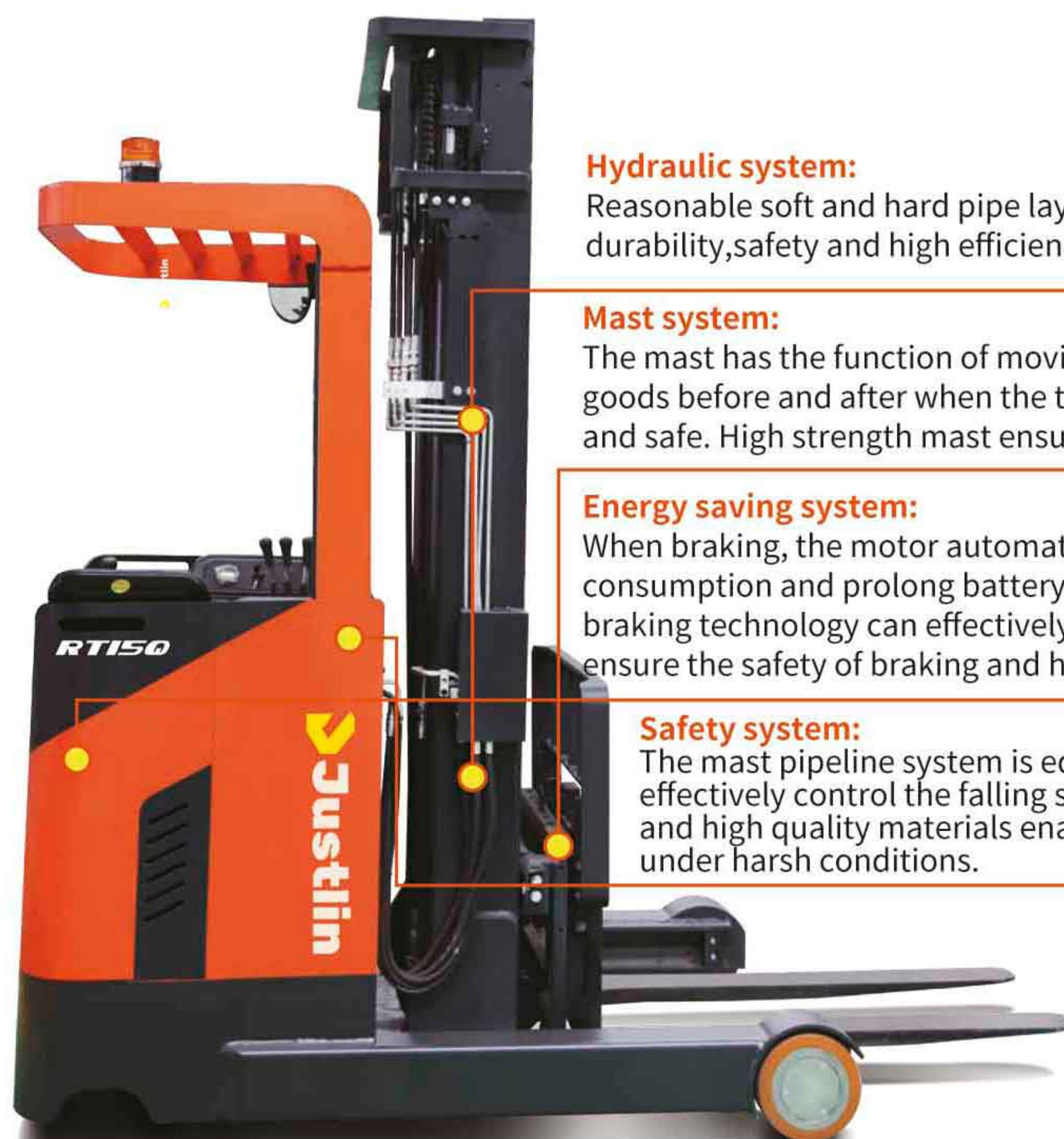


Easy maintenance



Low noise

Safety, high efficiency and energy saving



Hydraulic system:

Reasonable soft and hard pipe layout ensures heat dissipation, sealing, durability, safety and high efficiency of the hydraulic system.

Mast system:

The mast has the function of moving forward to realize the taking and placing of goods before and after when the truck does not need to move, which is convenient and safe. High strength mast ensures high load capacity of the whole truck.

Energy saving system:

When braking, the motor automatically cuts off power to minimize power consumption and prolong battery working time. The application of regenerative braking technology can effectively reduce the wear of braking system, effectively ensure the safety of braking and high efficiency of energy recovery.

Safety system:

The mast pipeline system is equipped with safety speed limiting valve to effectively control the falling speed of goods. The high standard of technology and high quality materials enable JUSTLIN forklift to perform excellently even under harsh conditions.

Flexible turning radius

The truck in narrow aisle can safely turn to load and unload goods.



Small turning radius

1745MM

Comfortable driving



Multifunction instrument



Small diameter steering wheel



Emergency stop button/horn switch



Multiple unit valve



Adjustable seat



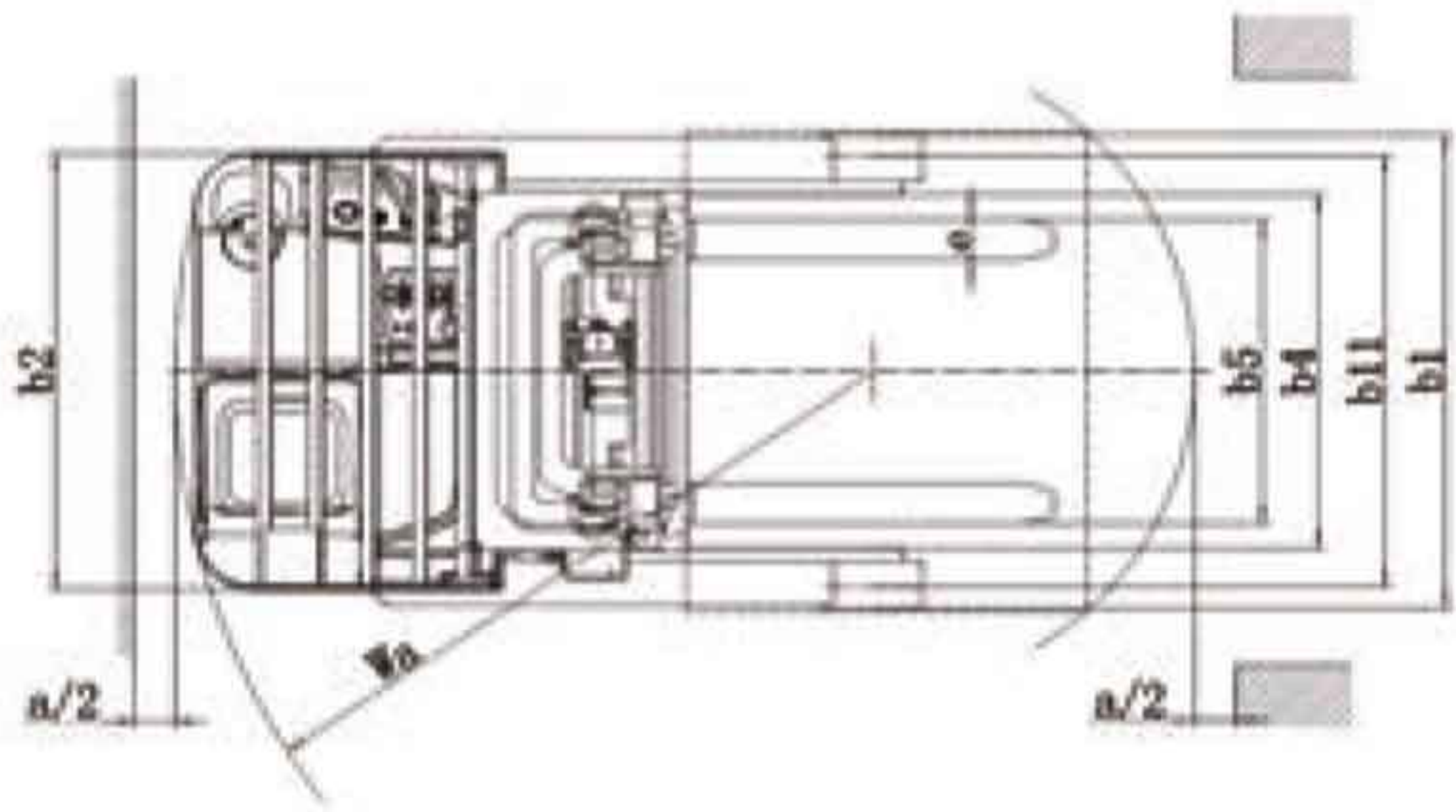
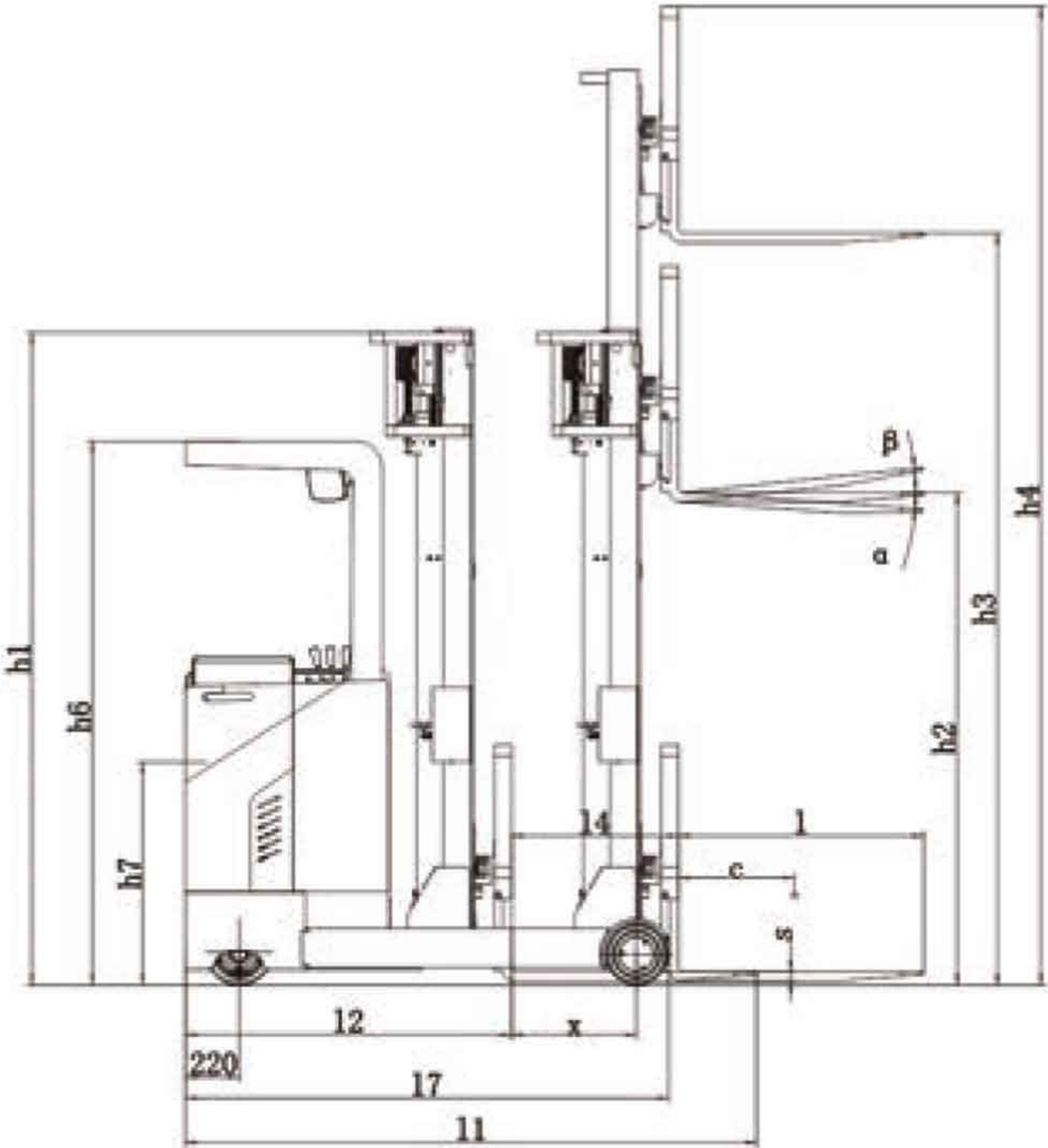
Rear view mirror

Reliable quality and convenient stacking

AC drive system, floating drive axle, electric steering, and high precision gearbox ensure the flexible steering and excellent driving function.



Types		RT15Q		
Doorframe		5500mm		
h3 (mm)	Q (kg)			
6000	800	600	500	
5500	1000	800	600	
5000	1100	900	700	
4500	1200	1000	800	
4000	1300	1100	900	
3300	1500	1300	1100	
C (mm)	500	600	700	



Type sheet for industrial truck acc. to VDI 2198

Identification						
1.1	Brand		JUSTLIN			
1.2	Manufacture's type designation		RT15Q			
1.3	Drive:electric(battery or mains),diesel,petrol gas>manual		electric			
1.4	Type of operation(hand,pedestrian,standing,seated. order-picker)		seated			
1.5	Load capacity/rated load	Q(kg)	1500			
1.6	Load centre distance	c(mm)	500			
1.9	Wheelbase	y(mm)	1494			
Weights						
2.1	Service weight incl.battery	kg	2050	2100	2200	2250
Wheel						
3.1	Type:solid rubber,superelastic,pneumatic,polyurethane		polyurethane			
3.2	Tyres size(drive side)	Øxw(mm)	Ø250×82			
3.3	Tyres size(load side)	Øxw(mm)	Ø230×100			
3.4	Tyres size(steer wheel)	Øxw(mm)	Ø180×76			
3.5	Wheels number drive side/steel side		1x+2/2			

Basic Dimensions						
4.1	Fork carriage tilt (forward/backward)	a/β(°)	2/4			
4.2	Lowered mast height	h1(mm)	2113	2463	2113	2463
4.3	Free lift height	h2(mm)	-	-	1500	1800
4.4	Lift height	h3(mm)	3000	3600	4500	5500
4.5	Extended mast height	h4(mm)	3900	4500	5400	6400
4.15	Lowered Height	h13(mm)	40			
4.19	Overall length	11(mm)	2146			
4.21	Overall width	b1/b2(mm)	1184/1090			
4.22	Fork dimensions	s/e/l(mm)	35/100/920			
4.25	Fork Arm Spacing	b5(mm)	200~660/760			
4.28	Reach Distance (With/without side shift)	14(mm)	567/627			
4.32	Ground clearance,centre of wheelbase	m2(mm)	60			
4.33	Aisle width for pallets 1000×1200 crossways	Ast(mm)	2748			
4.34	Aisle width for pallets 800×1200 lengthways	Ast(mm)	2780			
4.35	Turning radius	Wa(mm)	1745			
Performance						
5.1	Travel speed,laden/unladen	km/h	6.5/6.5			
5.2	Lift speed,laden/unladen	m/s	0.1/0.165			
5.3	Lowering speed,laden/unladen	m/s	0.12/0.11			
5.8	Maximum Gradeability(laden/unladen)	%	5/8			
Battery						
6.4	Battery voltage,nominal capacity K5	V/Ah	24/400			
Other Details						
8.1	Type of drive control		AC			
8.4	Sound level at driver's ear according to EN 12053 dB(A)	dB(A)	68			





Robust and reliable design



Rated load 1500-2000KG



Great power



High Performance Battery



Easy maintenance

Rider-seated
Electric Stacker

PSE15/20-C

PSE15-C						
Designation		Closed mast height h1 (mm)	Free lift height h2(mm)	Lift height h3(mm)	Extended mast height h4 (mm)	Overall lift height h3+h13(mm)
Mast	1600	1978	1510	1515	1985	1660
	2000	2378	1910	1915	2385	2000
2-Stage Mast	2900	1930	78	2815	3305	2900
	3200	2080	78	3115	3605	3200
	3600	2280	78	3515	4005	3600

PSE20-C					
Designation	Closed mast height h1 (mm)	Free lift height h2(mm)	Lift height h3(mm)	Extended mast height h4 (mm)	Overall lift height h3+h13(mm)
Mast	1980	1505	1505	1980	1590
	2380	1905	1905	2380	1990
2-Stage Mast	1955	/	2830	3370	2915
	2105	/	3130	3670	3215
	2305	/	3530	4070	3615

PSE15/20-C Rider-seated Electric Stacker is suitable for horizontal short-distance cargo transport, it is a combination of pedestrian and station board type vehicles, economical and durable, payload up to 1500/2000KG. Heavy body, high strength, good stability, easy to install,easy to maintain. It is suitable for loading and unloading goods in factories, warehouses, supermarkets and other places.

Ergonomic Design Smart Grip

Operational comfort to optimise operator comfort. All switching buttons are integrated in user-friendly reach positions for easy operation.

Turtle Mode Switch
Smart Combination Lock
Battery Level Display
Use Time Display
Fault Code Display



Rear



Front

Emergency reverse and horn switch
Double-sided butterfly thumb travel switch
Motorised lifting and lowering switch

Built-in charger

Enables greater autonomy in the operation of the vehicle and increases the working range.



auxiliary wheel

Easy adjustment of the auxiliary wheel without lifting the vehicle



Emergency power-off switch

Ensure driving safety



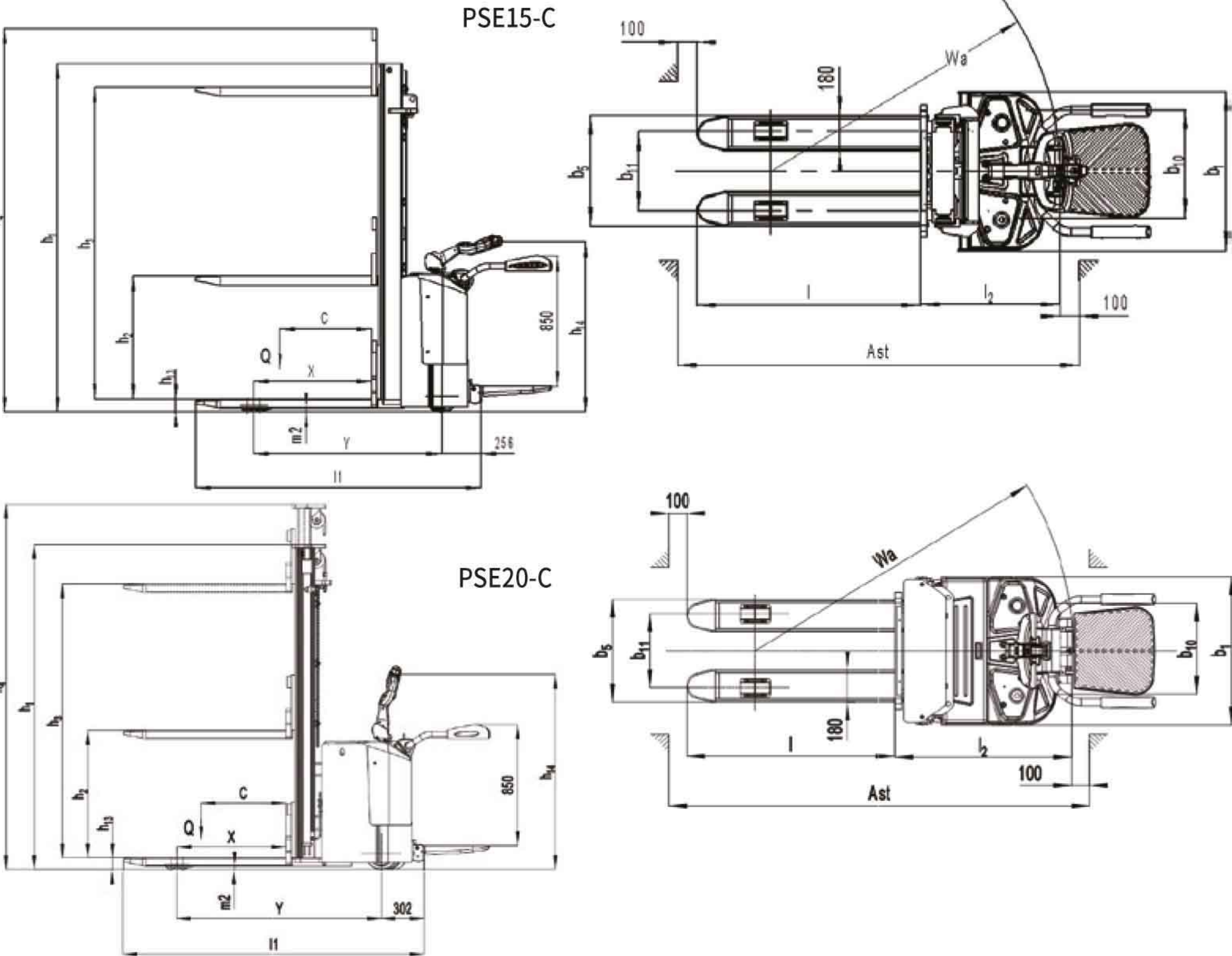
Foldable pedal

Good shock absorption effect, comfortable operation, not easy to fatigue

Portable, disassembled construction
The sturdy chassis with 8mm protection panels can effectively protect the body and internal parts from external mechanical impacts.



Functional application
The entire vehicle system adopts analog circuit control, removing superfluous fancy functions and strengthening necessary safety functions. It mainly focuses on action functions, reducing fault points, simplifying circuits, and making maintenance simple.

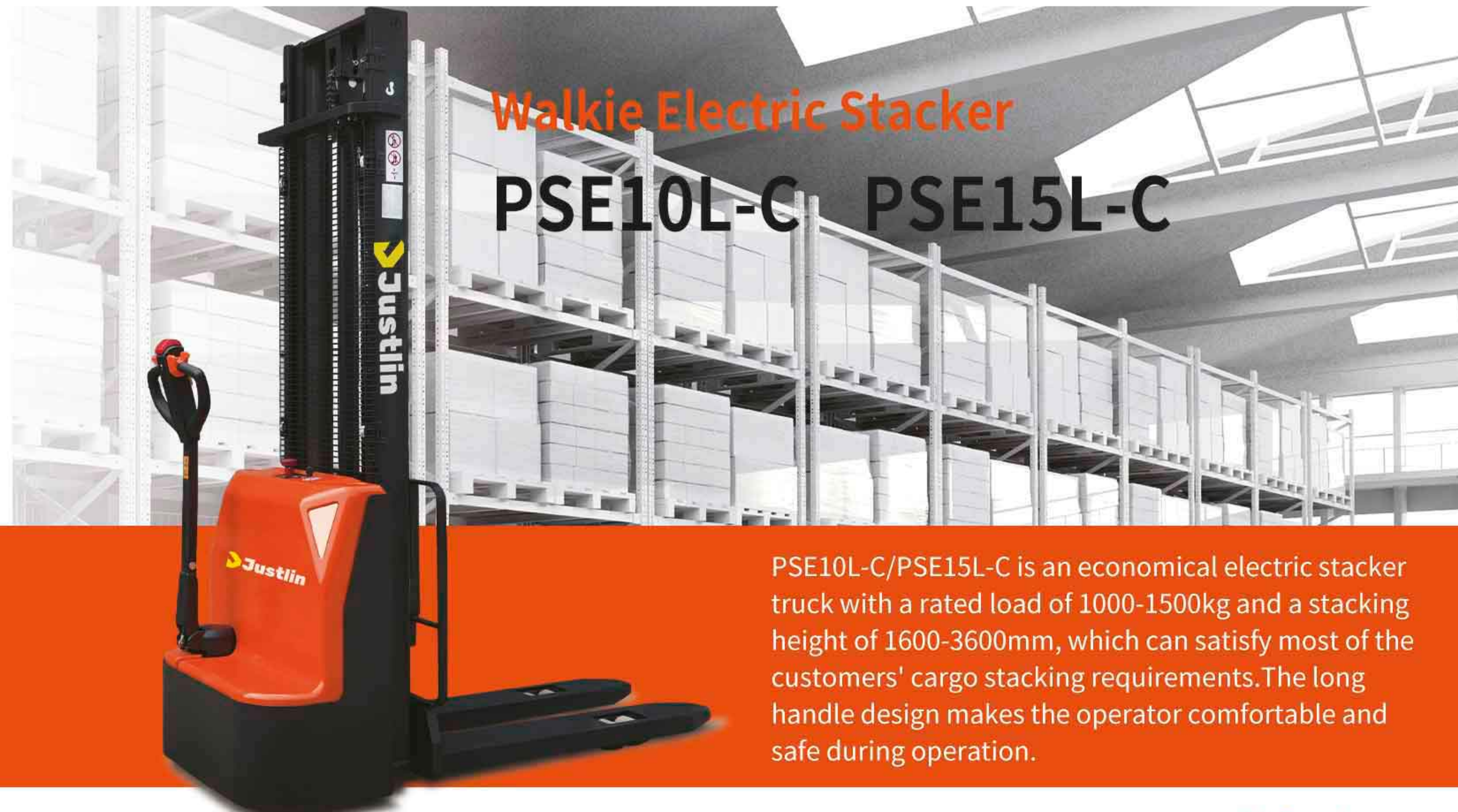


Type sheet for industrial truck acc.to VDI 2198

Identification				
1.2	Manufacture's type designation		PSE15-C 3600	PSE20-C 3600
1.3	Drive:electric(battery or mains),diesel,petrol gas,manual		electric	electric
1.4	Type of operation(hand,pedestrian,standing,seated. order-picker)		standing	standing
1.5	Load capacity/rated load	Q(t)	1.5	2
1.6	Load centre distance	c(mm)	600	600
1.8	Load distance,centre of drive axle to fork	x(mm)	770	690
1.9	Wheelbase	y(mm)	1232	1354
Weights				
2.1	Service weight inc.battery	kg	865	1310
2.2	Axle loading,laden front/rear	kg	830/1535	1070/2240
2.3	Axle loading,unladen front/rear	kg	663/202	900/410
Wheel				
3.1	Type:solid rubber,superelastic,pneumatic,polyurethane		polyurethane	polyurethane
3.2	Tyres size,front	Øxw(mm)	Ø210×70	Ø230×70
3.3	Tyres size,rear	Øxw(mm)	Ø230×100	Ø80×70
3.4	Stabilizer wheel	Øxw(mm)	Ø230×100	Ø180x80
3.5	Wheels,number front/rear(×=driven wheels)		1x+1/4	1x+1/4
3.6	Track width,front	b10(mm)	557	503
3.7	Track width,rear	b11(mm)	410/525	410/525
Basic Dimensions				
4.2	lowered mast height	h1 (mm)	2280	2305
4.3	Free lift height	h2(mm)	78	/
4.4	Lift height	h3(mm)	3515	3530
4.5	Extended mast height	h4 (mm)	4005	4070
4.9	Height of control handle at drive position(Minimum/ Maximum)	h14(mm)	1100/1360	1100/1360
4.15	Lowered Height	h13(mm)	85	85

Basic Dimensions				
4.19	Overall length	l1 (mm)	1867	21151
4.20	Length to face of forks	l2(mm)	717	965
4.21	Overall width	b1(mm)	820	820
4.22	Fork dimensions	s/e/l (mm)	60/180/1150	60/180/1150
4.25	Fork Arm Spacing	b5(mm)	570/685	570/685
4.32	Ground clearance,centre of wheelbase	m2 (mm)	25	25
4.33	Aisle width for pallets 1000×1200 crossways	Ast(mm)	2330	2545
4.34	Aisle width for pallets 800×1200 lengthways	Ast(mm)	2275	2520
4.35	Turning radius	Wa (mm)	1487	1670
Performance				
5.1	Travel speed,laden/unladen	km/h	4.0/4.2	5.5/6
5.2	Lift speed,laden/unladen	m/s	0.068/0.162	0.1/0.16
5.3	Lowering speed,laden/unladen	m/s	0.142/0.136	0.11/0.1
5.8	Maximum Gradeability(laden/unladen)	%	5/10	5/10
5.10	Service brake		electromagnetic	electromagnetic
E-Motor				
6.1	Drive motor tating S2 60min	kW	0.75	1.6
6.2	Lift motor rating S3 7.5%	kW	2.2	3
6.3	Battery(according to DIN 43531/35/36A,B,C standard)		No	2PZS
6.4	Battery voltage,nominal capacity K5	V/Ah	2x12/106	24/160 ²
6.5	Battery weight	kg	2x34	155
6.6	Energy consumption(according to VDI cycle standard)	kWh/h	0.7	0.75
Other Details				
8.1	Type of drive control		DC	DC
8.4	Sound level at driver's ear according to EN 12053	dB(A)	<70	<70

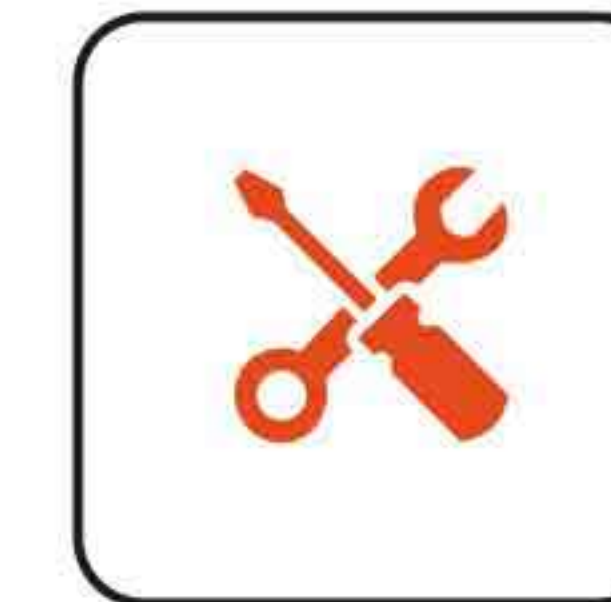
1)Pedal down:+455m 2)Optional:210Ah



Long Handle Design



Rated Load



Easy maintenance



AC Drive Technology



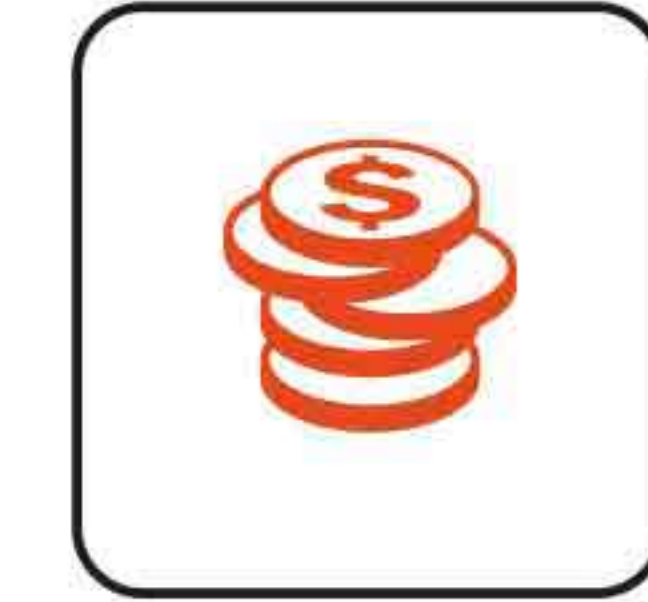
High capacity battery



Robust & reliable design



High operability



High cost performance

Advantages

- High efficiency and energy-saving, extended operation time.
- High-power pump station with enhanced lifting efficiency.
- Compact, lightweight, and easy operation.
- Superior overall stability, compliant with safety standards.
- Robust channel steel ensures improved stability and extended service life.
- New exterior design with unified multi-specification appearance.

Long handle design for ergonomic and safety requirements

The long handle design allows the operator to work efficiently while maintaining a safe distance from the vehicle. Compared to the short handle, the long handle requires less force to operate. The operator can choose an operating height that is more in line with his operating habits and more comfortable. Thanks to the safety distance and good visibility, stacking operations can be more efficient and faster.

Maintenance-free lead-acid batteries

Maintenance-free lead-acid batteries are used, and the batteries are protected against deep discharges. (PSE10L-C uses 80Ah maintenance-free lead-acid batteries, PSE15L-C uses 100Ah maintenance-free lead-acid batteries.)

Auxiliary Wheel

The auxiliary wheel is easy to adjust and does not require lifting the vehicle.

Multi-function meter

Multi-function meter displays vehicle operating status, battery level, and operating hours. Proven emergency button and power meter are more durable and reliable compared with other vehicles. The power meter has a low voltage auto cut-off boost function, which ensures higher battery life. PSE10L-C built-in 10A charger; PSE15L-C built-in 15A charger.



The steel channel gives the vehicle better stability and a longer life.

Racking (optional)

Optional high-quality stop shelf makes the goods more stable and safe when lifting the height.



Controller

PSE10-C adopts CANbus communication technology, which simplifies the line and enhances the reliability of the whole vehicle. PSE15L-C adopts analogue control technology, which has the advantages of intuition, good investigation and easy troubleshooting.



PSE10L-C



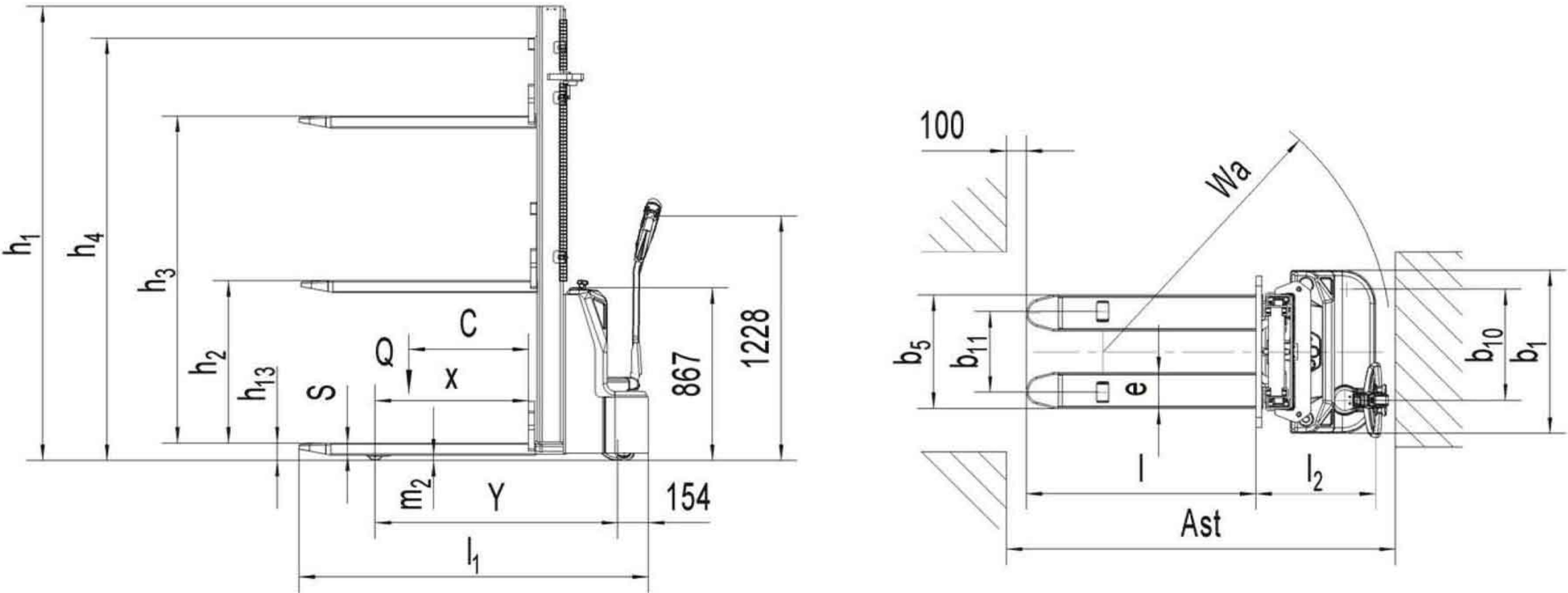
PSE15L-C

Debugging Interface

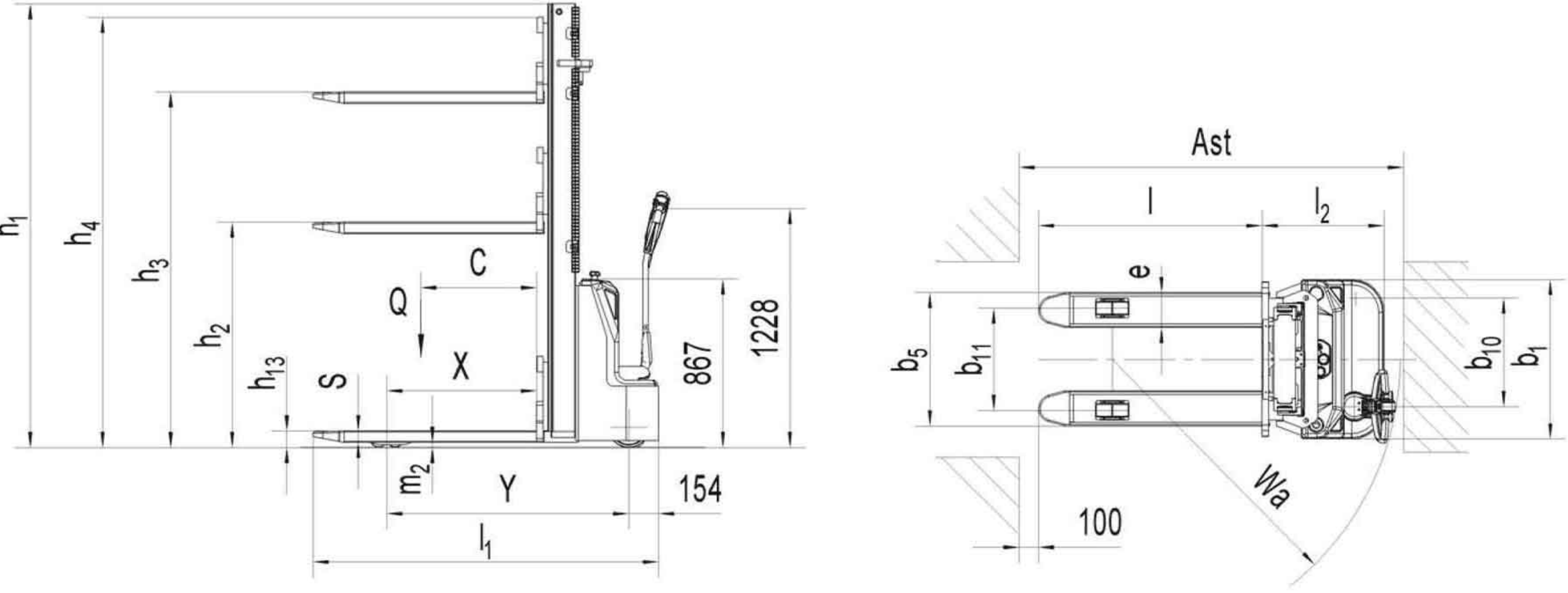
Through the debugging interface leads to the car body, without removing the cover.



PSE10L-C



PSE15L-C



PSE10L-C					
Designation	Closed mast height h1(mm)	Free lift height h2(mm)	Lift height h3(mm)	Extended mast height h4(mm)	Overall lift height h3+h13(mm)
Mast	2057	1513	1513	2057	1600
	2257	1913	1913	2257	2000
2-Stage Mast	1982	-	2813	3389	2900
	2132	-	3113	3689	3200
	2282	-	3413	3989	3500

PSE15L-C					
Designation	Closed mast height h1(mm)	Free lift height h2(mm)	Lift height h3(mm)	Extended mast height h4(mm)	Overall lift height h3+h13(mm)
Mast	1980	1508	1513	1985	1600
	2380	1908	1913	2385	2000
2-Stage Mast	1932	78	2963	3339	2900
	2082	78	3113	3639	3200
	2282	78	3513	4039	3600

Type sheet for industrial truck acc.to VDI 2198

Identification						
1.2	Manufacture's type designation		PSE10L-C		PSE15L-C	
			1600	3500	1600	3600
1.3	Drive:electric(battery or mains),diesel,petrol gas,manual		electric		electric	
1.4	Type of operation (hand, pedestrian, standing, seated. order-picker)		pedestrian		pedestrian	
1.5	Load capacity/rated load	Q(t)	1		1.5	
1.6	Load centre distance	c(mm)	600		600	
1.8	Load distance,centre of drive axle to fork	x(mm)	769		770	
1.9	Wheelbase	y(mm)	1215		1220	1245
Weights						
2.1	Service weight inc.battery	kg	450	570	590	750
2.2	Axle loading,laden （drive side/load side）	kg	490/960	540/1030	640/1450	690/1560
2.3	Axle loading,unladen (drive side/load side)	kg	330/120	330/120	410/180	525/225
Wheel						
3.1	Type:solid rubber,superelastic,pneumatic,polyurethane		polyurethane		polyurethane	
3.2	Tyres size,front	Øxw(mm)	Ø210×70		Ø210×70	
3.3	Tyres size,rear	Øxw(mm)	Ø80×70		Ø80×70	
3.4	Stabilizer wheel	Øxw(mm)	Ø100×50		Ø100×50	
3.5	Wheels,number front/rear(×=driven wheels)		1x+1/2		1x+1/2	
3.6	Track width,front	b10(mm)	557		557	
3.7	Track width,rear	b11 (mm)	410/525		410/525	
Basic Dimensions						
4.2	lowered mast height	h1(mm)	2057	2282	1980	2282
4.3	Free lift height	h2(mm)	1513	-	1508	78
4.4	Lift height	h3(mm)	1513	3413	1513	3513
4.5	Extended mast height	h4(mm)	2057	3989	1985	4039
4.9	Height of control handle at drive position(Minimum/Maximum)	h14(mm)	670/1228		670/1228	
4.15	Lowered Height	h13(mm)	87		87	

Basic Dimensions				
4.19	Overall length	l1(mm)	1750	1779
4.20	Length to face of forks	l2(mm)	600	629
4.21	Overall width	b1(mm)	820	820
4.22	Fork dimensions	s/e/l(mm)	60/180/1150	60/180/1150
4.25	Fork Arm Spacing	b5(mm)	570/685	570/685
4.32	Ground clearance,centre of wheelbase	m2(mm)	32	27
4.33	Aisle width for pallets 1000×1200 crossways	Ast(mm)	2293	2324
4.34	Aisle width for pallets 800×1200 lengthways	Ast(mm)	2238	2269
4.35	Turning radius	Wa(mm)	1450	1481
Performance				
5.1	Travel speed,laden/unladen	km/h	4.0/4.3	4.0/4.4
5.2	Lift speed,laden/unladen	m/s	0.119/0.195	0.087/0.148
5.3	Lowering speed,laden/unladen	m/s	0.166/0.159	0.125/0.117
5.8	Maximum Gradeability(laden/unladen)	%	5/10	5/10
5.10	Service brake		electromagnetic	electromagnetic
E-Motor				
6.1	Drive motor tating S2 60min	KW	0.75	0.75
6.2	Lift motor rating S3 7.5%	KW	2.2	2.2
6.3	Battery(according to DIN 43531/35/36A,B,C standard)		No	No
6.4	Battery voltage,nominal capacity K5	V/Ah	2x12/80	2x12/100
6.5	Battery weight(+/-5%)	kg	2x26	2x34
6.6	Energy consumption(according to VDI cycle standard)	kWh/h	0.44	0.68
Other Details				
8.1	Type of drive control		DC	DC
8.4	Sound level at driver's ear according to EN 12053	dB(A)	<70	<70



Rated load 2000kg



Easy maintenance



Great power



High Performance Battery



Robust and reliable design



Ideal for most material handling jobs

The PTB20-C is a vehicle for medium and long distance transport of goods, (with optional foldable pedals), ideal for most applications. The powerful vertical AC drive system guarantees a high working capacity.

Ergonomic Design Smart Grip

Operational comfort to optimise operator comfort. All switching buttons are integrated in user-friendly reach positions for easy operation.



Turtle Mode Switch
Smart Combination Lock

Battery Level Display
Use Time Display
Fault Code Display



Rear



Front

Emergency reverse and horn switch
Double-sided butterfly thumb travel switch
Motorised lifting and lowering switch

Advantages

- Robust and ergonomic design.
- AC drive system provides ample power.
- Steel battery and drive frame covers.
- Suitable for long hours of heavy duty work indoors.
- Curtis controller.
- 1.3kW high power vertical drive.



Vertical Drive

1.3kW high-power vertical drive, with integrated slewing bearing, compatible with AC/DC motors, suitable for heavy-duty applications and prolonged operation.



Horizontal Drive

Lower power, compatible with AC/DC motors, suited for light and medium-duty applications, not suitable for prolonged operation.



Mature warehouse truck design

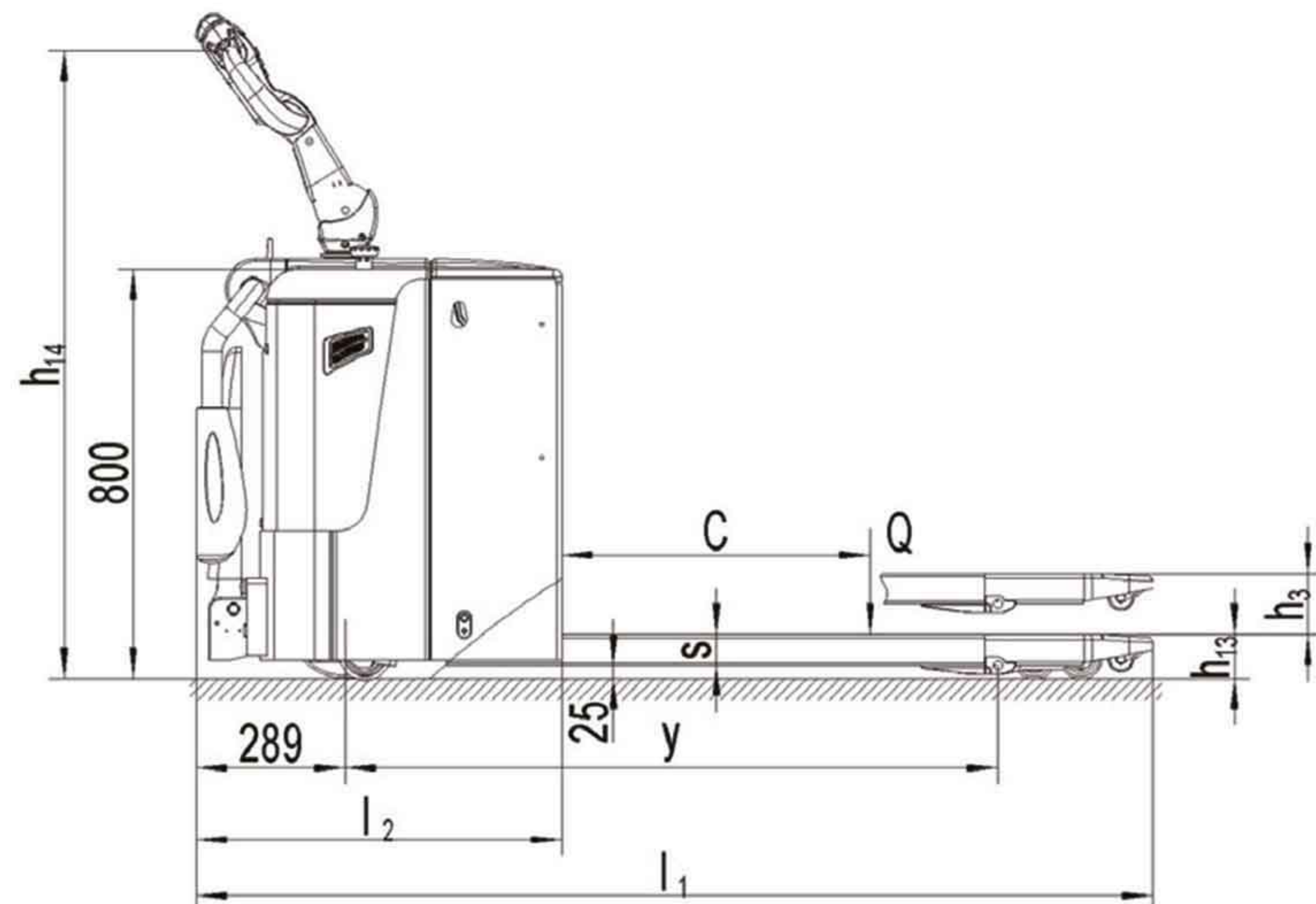


Easy pallet access
Roller-integrated design ensures smooth pallet handling and prevents damage.



Robust design
Reinforced metal battery cover and body casing.

Controller
American Curtis controller



Optional Configuration



Optional ergonomic traditional handle
Ergonomic handle accessible from both sides for easy operation. Turtle mode switch enhances safety in confined spaces.



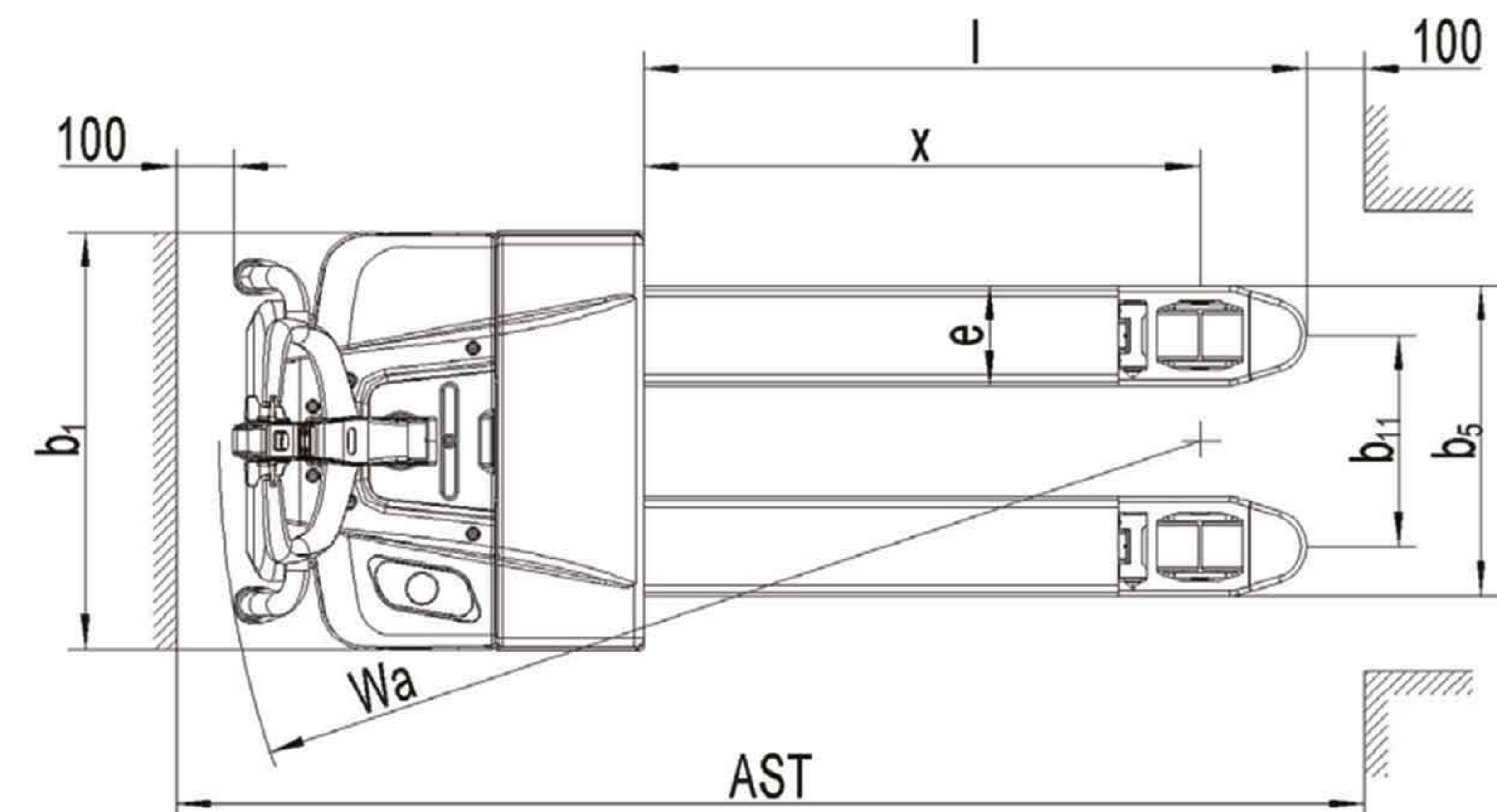
Optional control components
Key switch, emergency stop switch, and battery gauge.



Optional American-style components
American-style fork carriage with short fork tips.



Foldable pedal
Foldable pedal and lateral guard arm (optional).



Type sheet for industrial truck acc.to VDI 2198

Identification				
1.2	Manufacture's type designation		PTB20-C	
1.3	Drive:electric(battery or mains),diesel,petrol gas,manual		electric	
1.4	Type of operation (hand, pedestrian, standing,seated.order-picker)		standing	
1.5	Load capacity/rated load	Q(t)	2.0	
1.6	Load centre distance	c(mm)	600	
1.8	Load distance,centre of drive axle to fork	x(mm)	965	1083
1.9	Wheelbase	y(mm)	1388	1524
Weights				
2.1	Service weight inc.battery	kg	634(With pedal and guard arm)	610
2.2	Axle loading,laden front/rear	kg	960/1674	1140/1470
2.3	Axle loading,unladen front/rear	kg	514/120	505/105
Wheel				
3.1	Type:solid rubber, superelastic, pneumatic, polyurethane		polyurethane(PU)	
3.2	Tyres size,front	Øxw(mm)	Ø230×75	
3.3	Tyres size,rear	Øxw(mm)	Ø84×84	Ø82×110
3.4	Stabilizer wheel	Øxw(mm)	Ø100×40	
3.5	Wheels,number front/rear(×=driven wheels)		1x+2/2;+2/4	1 x+/-/2;+2/2
3.6	Track width,drive side	b10(mm)	500	
3.7	Track width,load side	b11(mm)	367	512
Basic Dimensions				
4.4	Lift height	h3(mm)	120	
4.9	Height of control handle at drive position(Minimum/Maximum)	h14(mm)	946/1338	
4.15	Lowered Height	h13(mm)	85	83
4.19	Overall length	l1 (mm)	1762	1850

Basic Dimensions				
4.2	Length to face of forks	l2 (mm)	612	630
4.21	Overall width	b1 (mm)	729	
4.22	Fork dimensions	s/e/l (mm)	60/173/1150	60/173/1220
4.25	Fork Arm Spacing	b5(mm)	540	685
4.32	Ground clearance,centre of wheelbase	m2(mm)	25	23
4.34	Aisle width for pallets 800×1200	Ast (mm)	2250	2385
4.35	Turning radius	Wa(mm)	1585	1720
Performance				
5.1	Travel speed,laden/unladen	km/h	6.0/6.0	
5.2	Lift speed,laden/unladen	m/s	0.027/0.035	
5.3	Lowering speed,laden/unladen	m/s	0.042/0.027	
5.8	Maximum Gradeability(laden/unladen)	%	6/10	
5.10	Service brake		electromagnetic	
E-Motor				
6.1	Drive motor tating S2 60min	kW	1.3	
6.2	Lift motor rating S3 8%	kW	0.8	
6.3	Battery(according to DIN 43531/35/36A,B,C standard)		B,2Pzb	
6.4	Battery voltage,nominal capacity K5	V/Ah	24/180	
6.5	Battery weight(+/-5%)	kg	215	
6.6	Energy consumption(according to VDI cycle standard)	kWh/h	0.75	
Other Details				
8.1	Type of drive control		AC	
8.4	Sound level at driver's ear according to EN 12053	dB(A)	<70	



Unique charm
that's the reason I chose you.

Avant
Lithium Powered Pallet Truck

NEW ARRIVAL



Vehicle Performance



The closed body structure provides good protection for the main parts and ensures the safety of the operators.



The fork adopts unique structural design, which makes it faster to enter and exit the pallet, and the leg plate adopts one-piece stamping design to maximise the strength of the fork.



AVANT adopts 24V DC permanent magnet motor technology. Large diameter drive wheels, strong ability to cross obstacles.



Box-type closed classic design, more solid structure, higher waterproof and dustproof level.
High strength frame design

- High-strength and compact frame design ensures the strength of the frame without increasing the weight of the bike.
- With a larger climbing angle of 6% of full load, the truck can be easily operated in the container platform and some other delivery environments.

Green Energy&Easy Maintenance

Different battery capacities are available to suit different needs.

AVANT is equipped with maintenance-free lithium iron phosphate batteries as standard, and the built-in BMS battery safety management system ensures the intelligent control of the battery and maximises its performance.



24V/20Ah



24V/40Ah



24V/60Ah



External programming port makes parameter adjustment and vehicle maintenance more convenient.



Highly integrated hydraulic system and electrical system, easy for installation and maintenance.



Integrated steel battery cover, waterproof and dustproof.



The steel battery cover can be opened with a light button, and the battery can be changed quickly, which makes the operation more convenient.

Brief introduction of AVANT

The inspiration for Avant comes from the PT16/20L series, which has a decade of successful market experience in heavy-duty models. It inherits the classic enclosed box-type design, featuring a more robust structure higher waterproof and dustproof ratings, along with strong power. At the same time, it possesses the lightness and flexibility of a small material-handling vehicle, capable of efficiently working in various narrow spaces such as supermarkets, warehouses, logistics centers, sorting centers, truck compartments, containers, and freight elevators.

Delivery application

Optimized vehicle dimensions and self-weight make it convenient to use inside trucks and elevators, occupying less cargo weight and space.

(optional) 24V 8A truck charger available for charging between delivery operations.



Small turning radius

The vehicle is capable of making turns in confined spaces.

The compact vehicle body design, coupled with the upright walking function, is capable of handling work in narrow spaces such as truck compartments, containers, freight elevators, small warehouses, and supermarket aisles.

The handle is integrated with multiple functions, making operation convenient. It comes standard with a battery level display and fault indicator, allowing the truck condition to be easily assessed at a glance, enhancing truck management safety. All switches and buttons are ergonomically designed for easy operation.



Brake overriding mode

Press and hold the lowering button and the turtle-speed switch on the handle for 7 seconds, and the brake will be released. This allows you to manually pull the truck for its relocation.

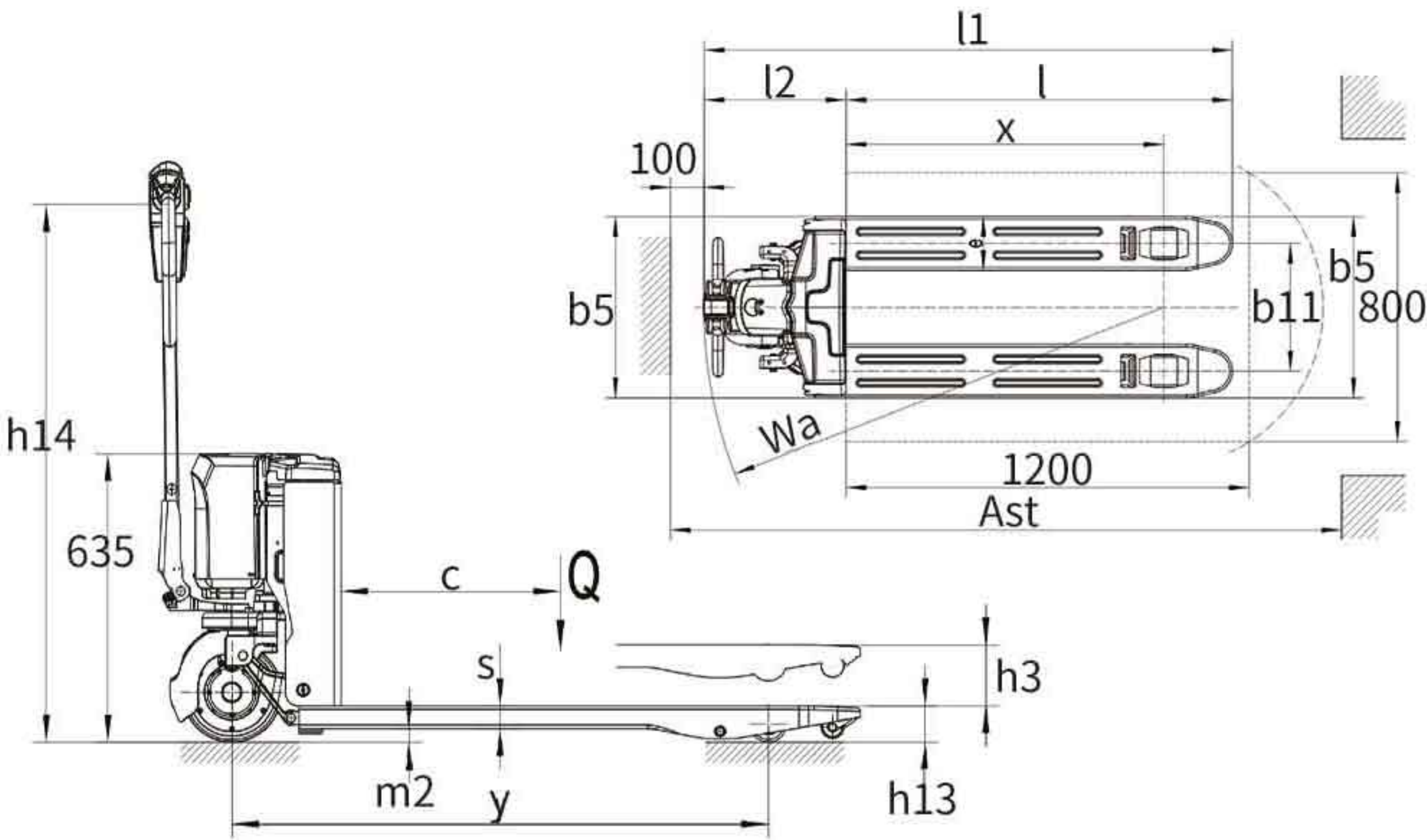
The brake release is for forced relocation only and must not be used for regular operation.



Industrial Vehicle Parameter Sheet(VDI2198)

No.20240715

Manufacture's type designation		PWB-150	PWB-200
Load capacity/rated load	Q(t)	1.5	2.0
Tyres size, drive	Ø xw(mm)	Ø 210x70	Ø 210x70
Overall length	b1(mm)	540 685	540 685
Aisle width for pallets 800×1200	Ast(mm)	2005	2005
Turning radius	Wa(mm)	1332	1332
Travel speed(laden/unladen)	km/h	4.0/4.3	4.0/4.4
Maximum Gradeability(laden/unladen)	%	6/20	6/20
Battery voltage, nominal capacity K5	V/Ah	24/20(24/40;24/60)	48/10(48/20)



What you get when invest in a truck with lithium battery:



Lithium batteries have significantly longer life time in comparison with lead-acid or AGM solutions. You will need to buy several lead-acid batteries to achieve the same life-time as lithium battery has.



Charge any time as long as you can, opportunity charging doesn't affect the battery's performance.



You start to save on maintenance from the first day and eventually pretty soon total cost of ownership (TCO) for lithium is getting lower than lead-acid battery, not even to mention internal combustion trucks.



Improve you safety: lithium batteries don't create evaporation of hydrogen and remove inflammable gas related hazards. More environmental friendly in operation cycles.



No need to purchase second battery for intensive work as you have fast charging option available. You can get your battery charged in about 2 hours.



Lithium batteries can be equipped with additional features: on-board diagnostics, integrated heating etc.

How the safety is ensured:

JUSTLIN is using lithium batteries only with stable LiFePO4 chemistry, which not only provides long life-time, but also safe in use. The performance of the batteries and work of safety functions, such as over-discharging, over-charging, over-temperature, under-temperature, cells dis-balance etc are realised by means of Battery Management System, which is constantly monitoring the status of the battery.

Where is the future:

As car industry is moving to lithium, Material Handling Equipment is transforming in the same direction. At the current stage lithium superseding not only lead-acid and AGM solutions, but also internal combustion trucks. In order to be on a cutting edge - consider our lithium options for all the trucks in model range today!

OPTIMUM GLOBAL CO., LTD.

ADD.:RM10610,BUILDING 1,JINGDU INTERNATIONAL,CHANGLE EAST ROAD,XI'AN,SHAANXI,CHINA