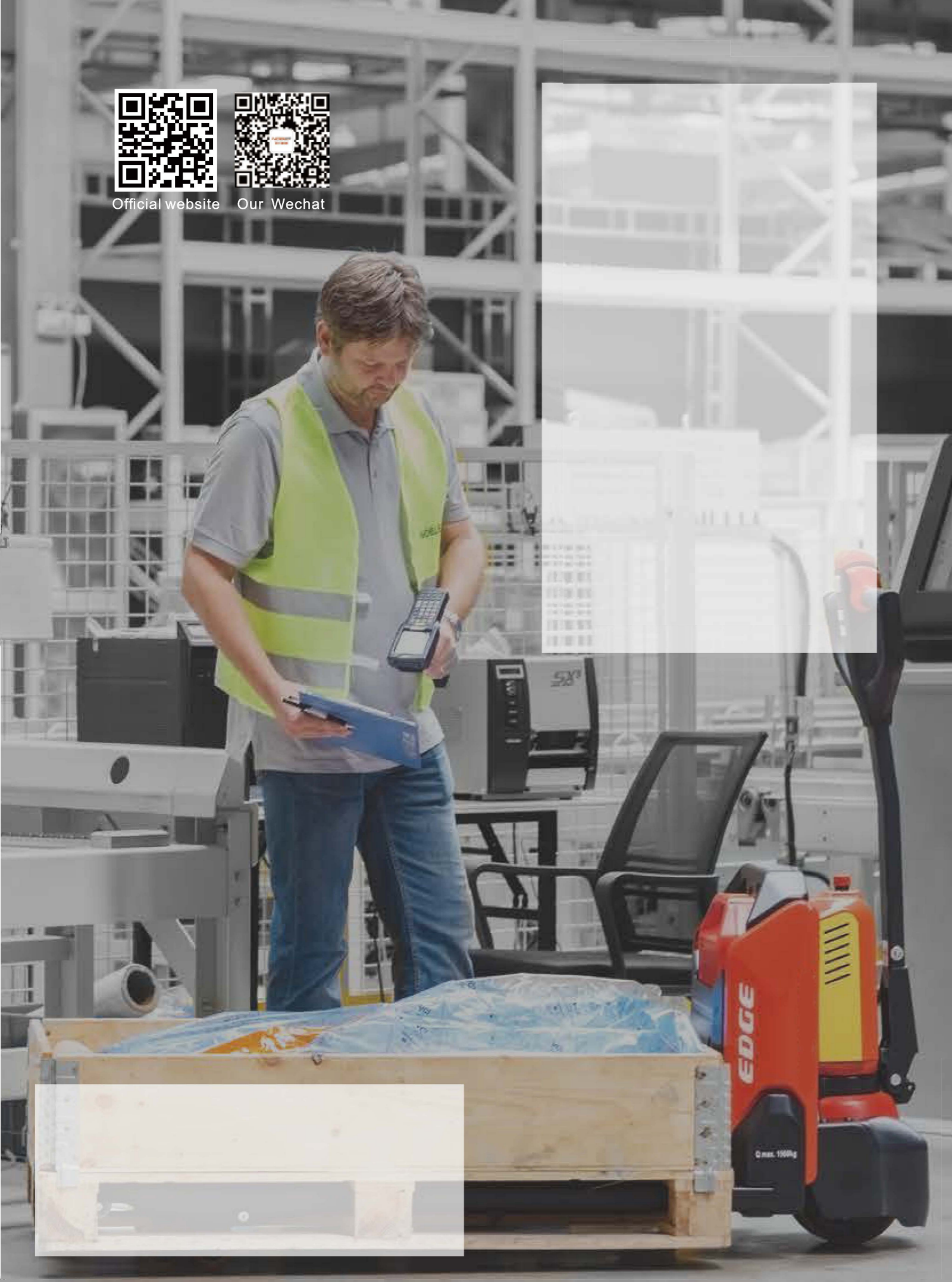




Official website



Our Wechat



Material Handling

EDGE series

Pallet Truck:

Li-ion Powered 1.2T- 1.5T- 2.0T & AGM 2.0T

Pallet Stacker:

Li-ion or AGM Powered 1.2T, Lift height: up to 3.6m



The EDGE Smart Design Pallet Stackers

Performance

FPS12X-A

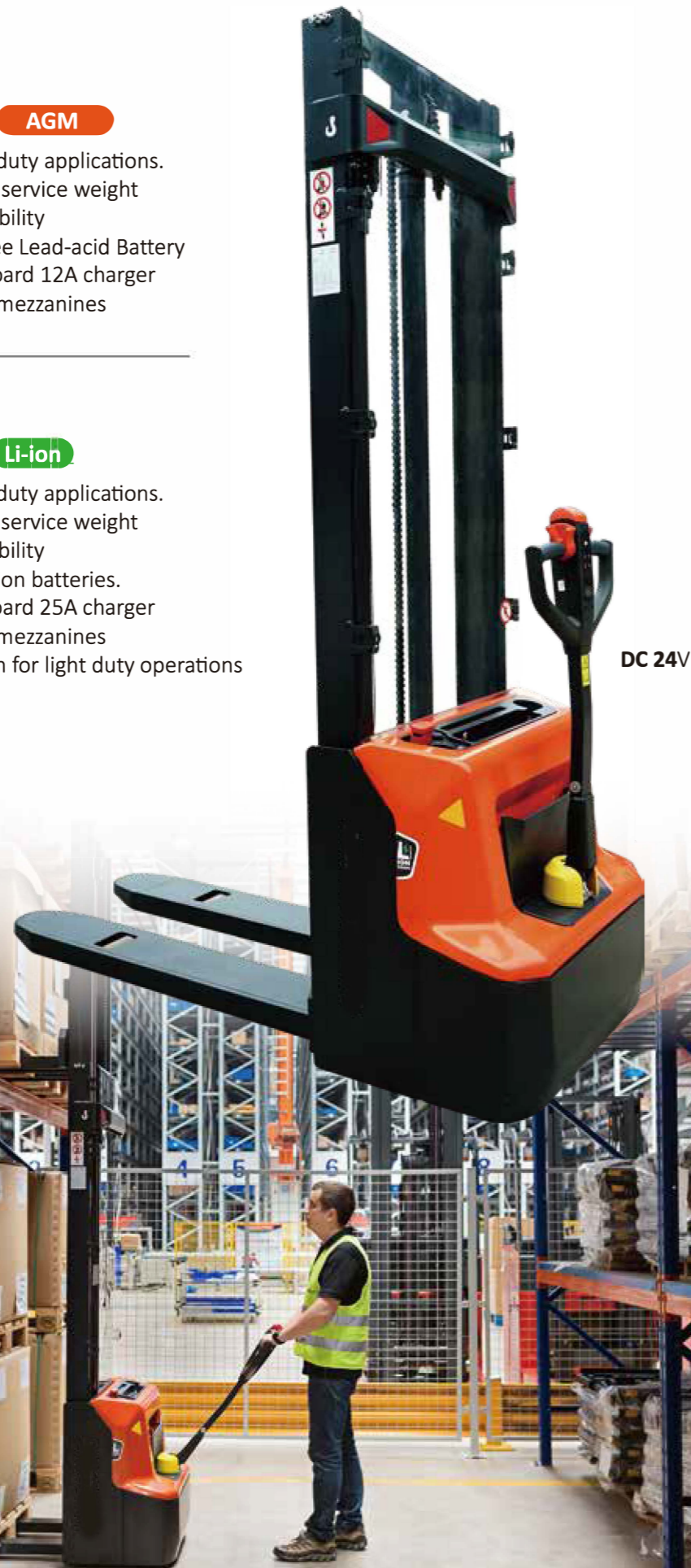
● 1.2T Capacity **AGM**

- Perfect for light-duty applications.
- Compact & light service weight
- High maneuverability
- Maintenance-free Lead-acid Battery
- Integrated on-board 12A charger
- Ideal for use on mezzanines

FPS12X-I

● 1.2T Capacity **Li-ion**

- Perfect for light-duty applications.
- Compact & light service weight
- High maneuverability
- Fast-charging Li-ion batteries.
- Integrated on-board 25A charger
- Ideal for use on mezzanines
- Ultimate solution for light duty operations



DC 24V

Smart and Ergonomic Tillers

Standard For FPS12X-A and FPS12X-I



RFID card Access



RFID Card Access is optional for FPS12X-A and standard for FPS12X-I

RFID card provides faster access to equipment and ideal for applications when one truck needs to be used by different operators

Vertical Driving in Confined Space



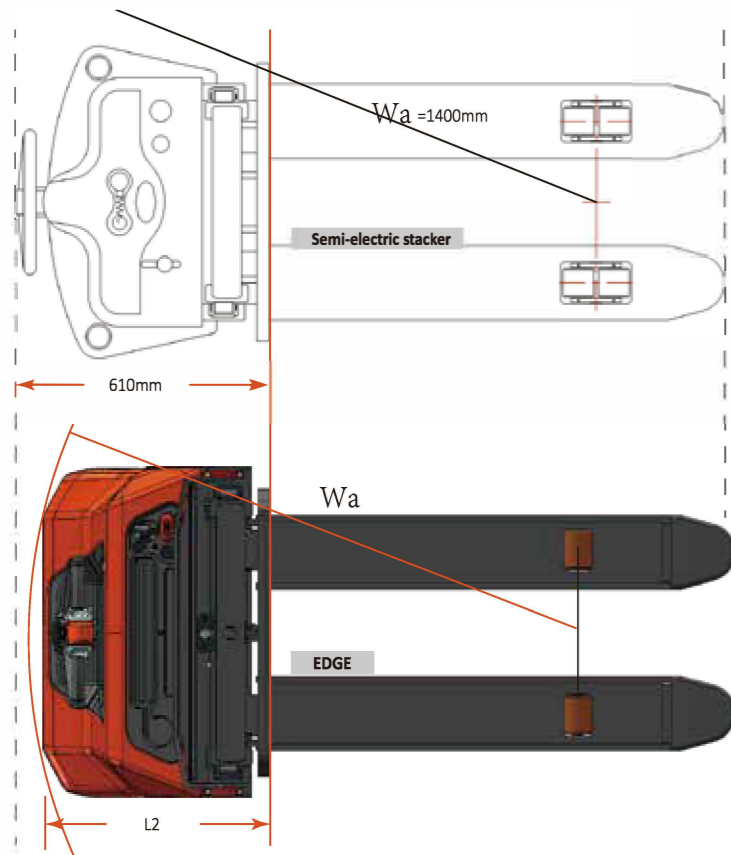
The function of driving with tiller in the **vertical position** helps with work in confined area without sacrificing of safety.

The tiller bar is supported by the air spring which helps to return the tiller to its vertical position without strike in the end point.

For increase of operation comfort and safety the trucks are equipped with speed reduction function in turns.



Smart Design with Compact Size and Perfect observation



Model	FPS12X-A	FPS12X-I
length(L2)	560mm	560mm
Turning Radius	1350mm	1350mm

Our engineers put a lot of efforts to achieve compactness of the trucks in comparison with traditionally used manual and semi-electric products without sacrificing of stability, robustness, safety and operation comfort.



Wide mast provides perfect observation of forks, the field of view is clear and not interrupted by mast sections, cylinder or chains.



The operator can always clearly see the forks which significantly increases safety of operation



Robustness



Steel cover

The main cover is made out of steel with thickness 2.0mm



Tiller is made out of PA6 30% of glass fiber material, having high strength.

Capacity of 1200kg with high residual value at maximum height (load center distance 600 mm)

Real mast profiles are used for long life-time, no cheap bended solutions used. All directed to maintain performance of the truck during its life-cycle.



Welded forks are used to ensure robustness.

Gradeability Performance

Model	FPS12X-A	FPS12X-I
Max. grade ability laden	5%	5%
Max. grade ability unladen	10%	10%



Maintenance Friendly

Convenient and fast access to any component of the truck, no elements are located in areas difficult to reach. No Special tools are required.



Capacity	Ready	Min Volt	Max Volt
17.6%	24.50V	0mV	0mV
	0.00A	Avg Volt	Communication
		0.0mV	Normal

Realtime			
Rated Capacity	60.0 Ah	Wh(Current)	0.0 Wh
Discharge Cycle Times	...	Discharge Cycle Times	...

Other		
Name	Value	Units
Cell Temp1	25.3	°C
Cell Temp1	25.1	°C
SOC	45	1/255
Power Temp	27.1	°C
Envir Temp	32.2	°C
Cell Volt Alarm	none	
Total Volt Alarm	none	
Current Alarm	none	
Temp Alarm	none	
Balance Alarm	none	

Volt		
Name	Value	Units
Cell	3507	mV
Total	24.5	V
Current	0.0	A
Run(Wh)	0	Wh

The software diagnostic tool for lithium batteries can provide full information about battery's condition and its current status. (The above values are for reference only.)

Battery Management System

CAN-bus

The BMS of battery controls charging and discharging parameters, working temperature, short circuits, has sleeping mode and is able to turn off the power in case of emergency. Communication with BMS and software adjustment is possible via CAN



The electric system is using CAN communication protocol increasing reliability of the system.



FPS12X-A

2x12 85Ah (5Hr) AGM maintenance free batteries are used.

Optionally available 2x12 105Ah (5Hr).



For FPS12X-A the charger with current 12A is used The standard charging time is 7 hours



FPS12X-I

24V 60Ah Lithium LiFePO4 battery with BMS. Lithium battery has connection terminals with screws and located inside the steel case



For FPS12X-I the charger with current 25A is used The standard charging time is 2.5 hours Opportunity charging is supported

The FPS12X-I stacker is equipped with maintenance-free 24V/60Ah LiFePO4 type Li-ion battery with fast charging and ultra-high number of charging /discharging cycles during life time; opportunity charging feature basically does not limit your operation time. The integrated BMS provides the same features as the BMS for the batteries of pallet trucks(refer to pallet truck section)

The on-board charger with 25A current can provide full charge for less than 2.5 hours with great efficiency.

The **FPS12X-A** stacker is equipped with 2x12V 85Ah VRLA-AGM maintenance free batteries. Optionally available 2x12V 105Ah batteries for longer operation.

The stacker is equipped with 12A on-board charger. The charging time is 7-8 hours, opportunity charging is not available.



STANDARD CONFIGURATION & OPTIONS FOR EDGE FAMILY

STANDARD CONFIGURATION OR OPTIONS	FPS12X-A	FPS12X-I
Standard Battery	AGM 2x12V/85Ah	Li-ion 24V/60Ah
Li-ion Battery 24V/20Ah	—	—
Li-ion Battery 24V/30Ah	—	—
Li-ion Battery 24V/36Ah	—	—
AGM 2x12V/106Ah (5 Hr)	O	—
Standard Charger	24V / 12A	24V / 25A
Li-ion Charger 24V/5Ah	—	—
Li-ion Charger 24V/8Ah	—	—
Li-ion Charger 24V/12Ah	—	—
Curtis controller	S	S
BMS	—	S
CAN-communication	S	S
Speed Reduction at Turning	S	S
Vertical drive/Pin wheel	S	S
Fast battery replacement	—	—
Entry Roller	—	—
Single Fork Roller	S	S
Tandem Fork Rollers	—	—
On-board charger	S	S
Stability Castors	S	S
High traction drive wheel tyre	—	—
Fork length 800/900/1000mm	—	—
Fork width 370/550/570mm	—	—
Load backrest(42/48/60")	—	—
Pin Code Access	S	S
RFID Access	—	O
LED Indicators on Tiller	—	—
LCD Display on Tiller	S	S

S=Standard O=Optional — =not available

Various Options(Pallet Truck)



Optional tandem fork rollers



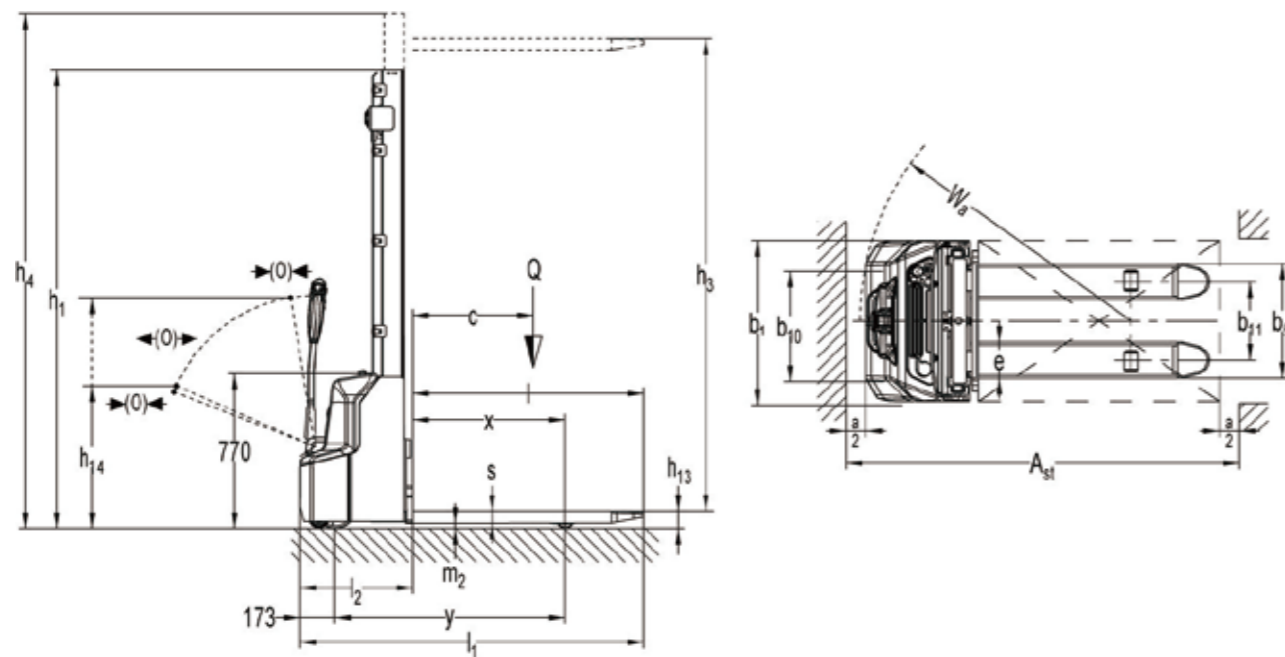
Optional high traction drive wheel



Optional Stability Casters



Optional backrest



Mast table FPS12X-A/ FPS12X-I

Designation	Lowered mast height h_1 (mm)	Free lift height h_2 (mm)	Lift height h_3 (mm)	Extended mast height h_4 (mm)	Lift + fork height $h_3 + h_{13}$ (mm)
Single-stage mast	1930	1514	1514	1930	1600
	2330	1914	1914	2330	2000
Two-stage mast	1780	-	2514	3037	2600
	1930	-	2814	3337	2900
	2080	-	3114	3637	3200
	2280	-	3514	4037	3600

Distinguishing mark		FPS12X-A	FPS12X-I
1.2	Manufacturer's type designation		3600
1.3	Power (battery, diesel, petrol, gas, manual)		Battery
1.4	Operator type		Pedestrian
1.5	Load Capacity / rated load	Q (t)	1.2
1.6	Load centre distance	c (mm)	600
1.8	Load distance, centre of drive axle to fork	x (mm)	760
1.9	Wheelbase	y (mm)	1147

Weight				
2.1	Service weight	kg	620	585
2.2	Axle loading, laden front/rear	kg	580 / 1240	560 / 1225
2.3	Axle loading, unladen front/rear	kg	450 / 170	440 / 145

Tyres, chassis			
3.1	Tires		Polyurethane
3.2	Tire size, front	x w (mm)	Φ 210×70
3.3	Tire size, rear	x w (mm)	Φ 84×93
3.4	Additional wheels(dimensions)	x w (mm)	Φ 100×50
3.5	Wheels, number front/rear(x=driven wheels)		1x + 1 / 2
3.6	Tread, front	b_{10} (mm)	550
3.7	Tread, rear	b_{11} (mm)	400 / 515

Dimensions			
4.2	Lowered mast height	h_1 (mm)	2280
4.3	Free Lift height	h_2 (mm)	—
4.4	Lift height	h_3 (mm)	3514
4.5	Extended mast height	h_4 (mm)	4037
4.9	Height of tiller in drive position min./ max.	h_{14} (mm)	710 / 1150
4.15	Height, lowered	h_{13} (mm)	86
4.19	Overall length	l_1 (mm)	1710
4.20	Length to face of forks	l_2 (mm)	560
4.21	Overall width	b_1 (mm)	800
4.22	Fork dimensions	s/e/l (mm)	60 / 180 / 1150
4.25	Distance between fork-arms	b_5 (mm)	570 / 685
4.32	Ground clearance, centre of wheelbase	m_2 (mm)	24
4.33	Aisle width for pallets 1000X1200 crossways	A_{st} (mm)	2197
4.34	Aisle width for pallets 800X1200 lengthways	A_{st} (mm)	2145
4.35	Turning radius	W_a (mm)	1350

Performance Data			
5.1	Travel speed, laden/ unladen	km/h	4.2/4.5
5.2	Lift speed, laden/ unladen	m/s	0.11/0.16
5.3	Lowering speed, laden/ unladen	m/s	0.13 / 0.11
5.8	Max. gradeability, laden/ unladen	%	5 / 10
5.10	Service brake		Electromagnetic

Electric- engine			
6.1	Drive motor rating S2 60min	kW	0.65
6.2	Lift motor rating at S3 4.5%	kW	2.2
6.3	Battery acc. to DIN 43531/35/36 A, B, C, no		No
6.4	Battery voltage, nominal capacity K5	V / Ah	2x12/85 ¹⁾ 24/60
6.5	Battery weight +/-5%	kg	2x27 ²⁾ 19
6.6	Energy consumption acc: to VDI cycle	kWh/h	0.8

Additional data			
8.1	Type of drive control		DC
8.4	Sound level at driver's ear acc. to EN 12053	dB(A)	<70

1) Option: 2x12V/106Ah
2) 2x12V/106Ah : 2 x 34

