

LI-ION
TECHNOLOGY

INNOVATIVE LITHIUM-ION



X Series Lithium-ion Narrow Aisle Pantograph Reach Truck

with capacity of 3,000 to 4,500lbs



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ISO45001:2018



ISO14001:2015



ISO9001:2015



HANGCHA trucks conform
to the European Safety
Requirements.

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Making Material Handling Easier
SINCE 1956

HANGCHA

EFFICIENT TRUCKS



The 3,000-4,500lb lithium-ion pantograph reach trucks are suitable for operations in narrow aisles and limited spaces. These trucks feature a high lift, large load capacity, pantograph, and a small turning radius. Using their advanced performance and technology, the reach trucks add to the efficiency of operations while maintaining reliability and a high level of safety. The X Series Lithium-ion Narrow Aisle Pantograph Reach Truck is the ideal tool for material handling in warehouses, supermarkets, and workshops.

Appearance

The X Series Lithium-ion Narrow Aisle Pantograph Reach Truck is designed to stack and retrieve goods efficiently in narrow warehouses and at high lift heights while still maintaining a lifting capacity of up to 4,500lbs. The exterior of this forklift is powder coated in a durable, easy to see, green finish that designates it as a lithium-ion model.

Stability

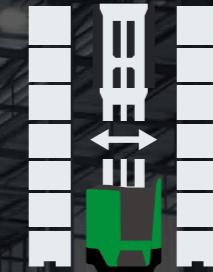
- The battery placed at the bottom of the chassis to create a low center of gravity. This allows the truck to have good stability.
- The four-pivot structure provides stability when the truck is being used to perform a high lift.



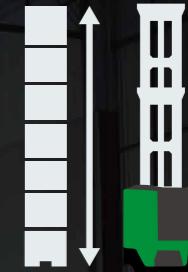
Load Capacity

3000
4500
lbs

103.2"
Aisle Width



Reliable & Safe



421"
Max. Lift Height

Highly Efficient

- The truck can operate in narrow aisles thanks to its small turning radius.
- Both a high-power pump motor and a silent gear pump (CONCENTRIC) are used to improve the lifting speed, lowering speed, and operating efficiency.
- With several power modes, the truck is able to adapt to different operating conditions.
- The regenerative braking system provides an increase in the truck's operating time.

Comfort

The hanging pedal alleviates operator fatigue when driving for a long period of time by being placed in a comfortable position for the operator.



The operator is able to get on and off the truck more comfortably thanks to the low step-on height of the reach truck's operator compartment.

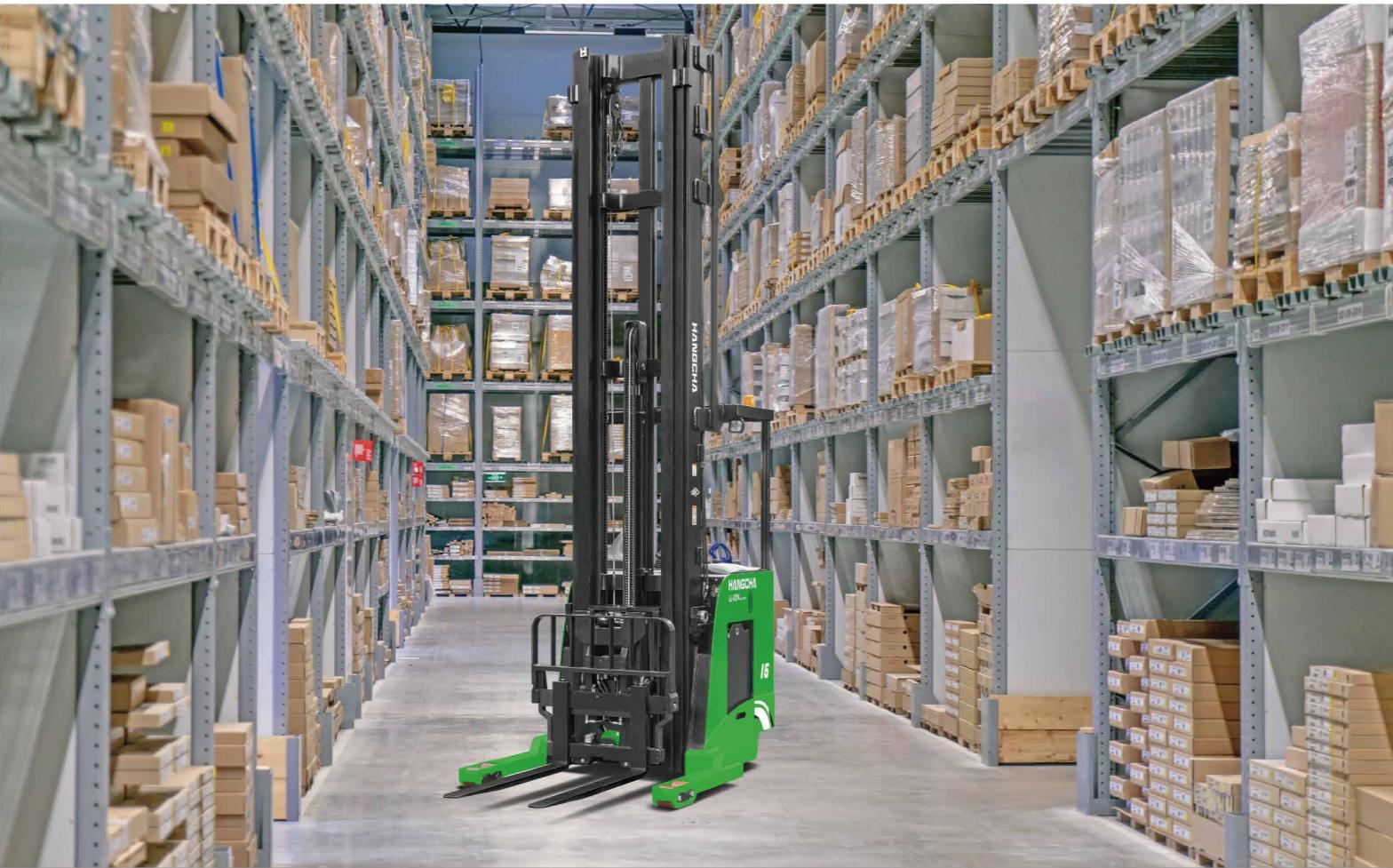


The control handle and backrest can be adjusted according to the operator's optimal driving position.

The lifting system is optimized for the operator to have an excellent line of sight through the mast.



The lateral removal of the battery provides easier maintenance and allows for the battery to be swapped out when running in continuous operating conditions.

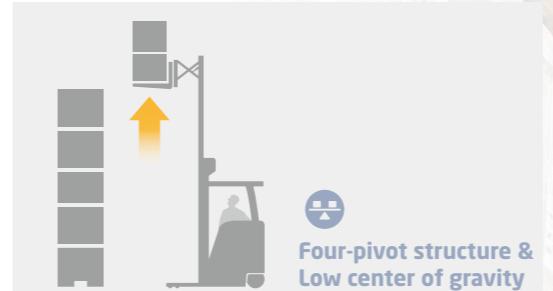


Reliability and Safety

- The four-pivot structure, low center of gravity, and high strength of the main frame components are designed to withstand the maximum load capacity of the reach truck.
- The controller, connectors, battery plug, and cut-off switch are all parts from industry known suppliers to ensure reliability, performance, and ease of service.
- The ZF transmission, SCHABMULLER drive motor, and the efficient AC power system greatly improve the reliability and service life of the narrow aisle reach truck.
- The controller manipulates the truck's steering angle, lifting height, and traveling speed in unison to provide safer operations.



The newly designed, multi-function joystick has a unique shape and angled design helps to minimize hand movement and muscle fatigue.



With the pedal sensing system, the truck can be driven only if the driver stands on the pedal. If the operator takes their foot off the pedal, active braking is initiated to prevent an accident.

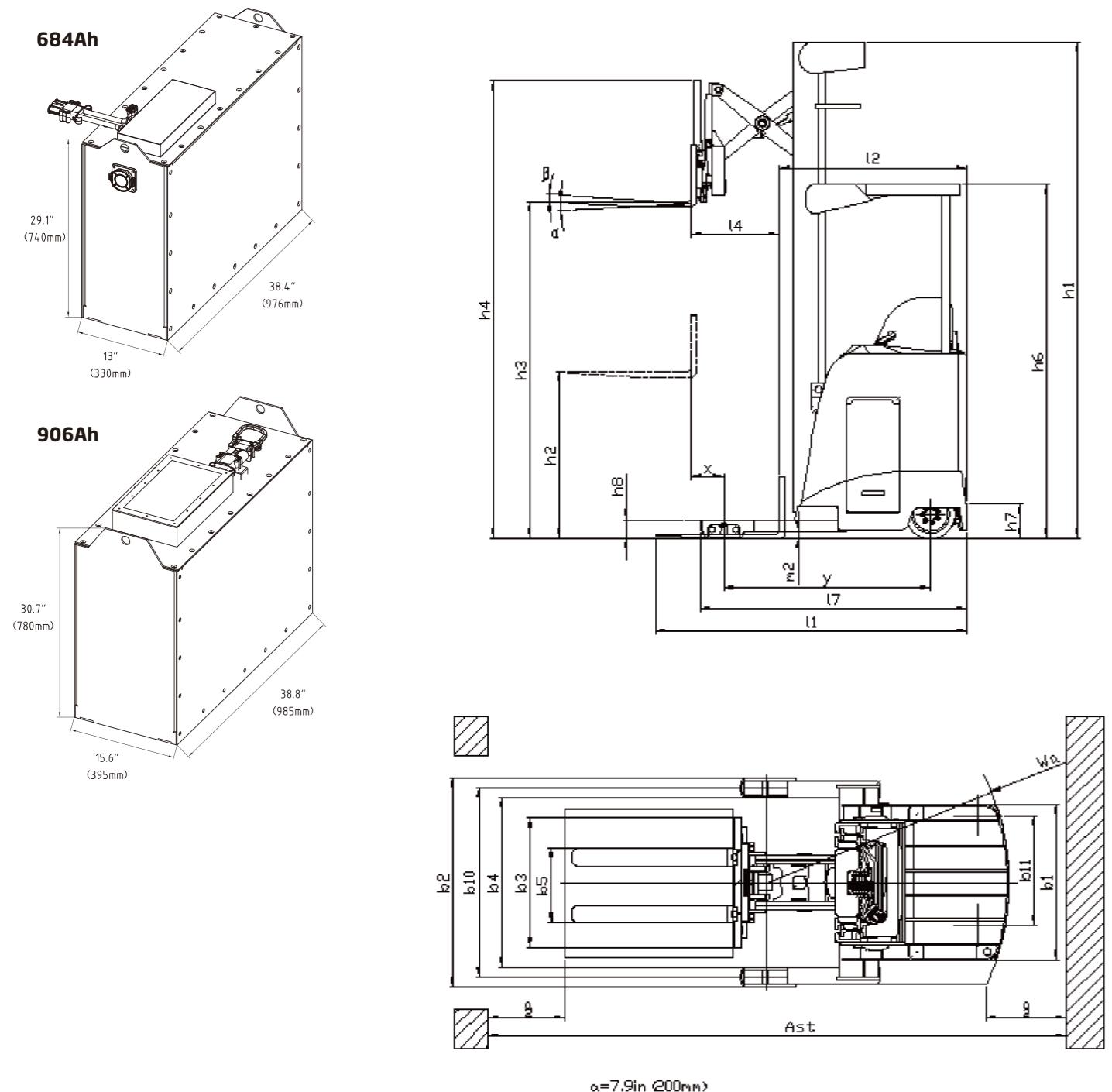


The Full Free Lift 3 Stage Mast provides great visibility for the operator and improves operations safety.



Table 1

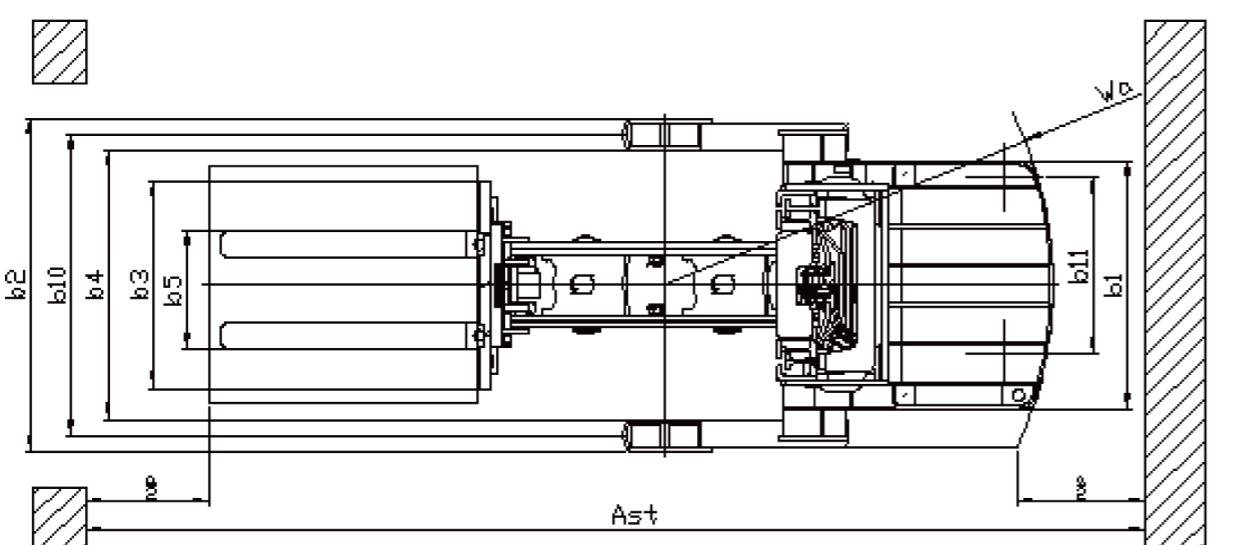
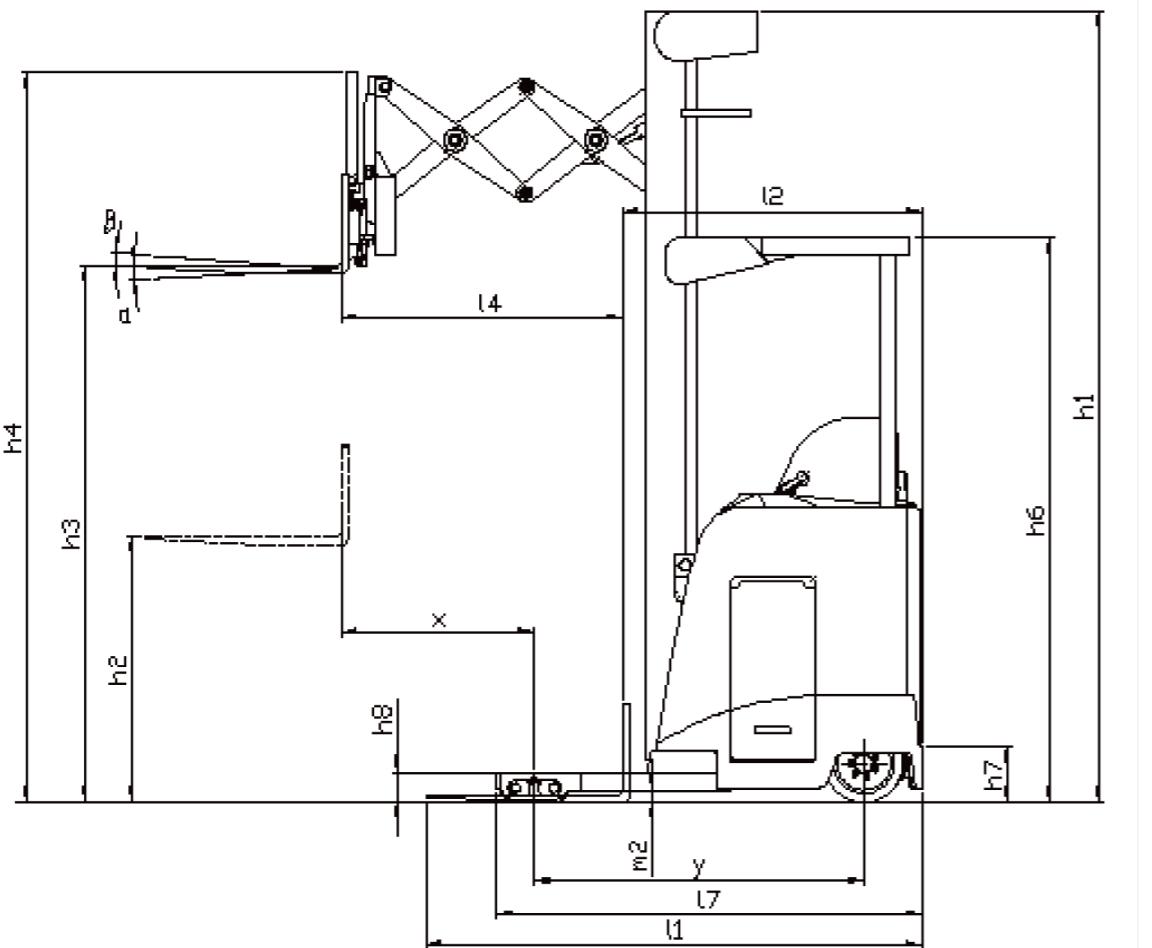
Battery and compartment size			16.5"	18.5"
6.4	Battery Voltage	V		38.6
	Battery capacity maximum 5 Hr Rate	Ah	684	906
Battery Compartment	"X" Max.	in(mm)	38.4(976)	38.8(985)
	"Y" Max.	in(mm)	13(330)	15.55(395)
	"Z" Max.	in(mm)	29.1(740)	30.7(780)
6.5	Minimum Batt.Wt.	lb(kg)	573(260)	683(310)
	Maximum Batt.Wt.	lb(kg)	661(300)	727.5(330)
1.9	Wheelbase	y (in/mm)	57.8(1469)	59.8(1519)
4.37	Length across wheel arms	l _r (in/mm)	74.7(1898)	76.7(1948)
4.20	Length to face of forks	l _f (in/mm)	57(1450)	59(1500)
4.35	Turning Radius	Wa (in/mm)	67.8(1722)	69.8(1772)
4.34	Ast 40" L(1026mm)×48" W(1220mm) clearance 7.9"	Ast in(mm)	105.24(2673)	107.24(2724)
	Ast 48" L(1220mm)×40" W(1026mm) clearance 7.9"	Ast in(mm)	112.87(2867)	114.88(2918)
	Ast 48" L(1220mm)×32" W(813mm) clearance 7.9"	Ast in(mm)	112.87(2867)	114.88(2918)



X Series Lithium-ion Narrow Aisle Pantograph Double Reach Truck

HANGCHA GROUP CO.,LTD.			
1.1	Manufacturer		
1.2	Manufacturer's type designation	CQD14-XD3-JDI	
1.3	Drive: electric	Electric	
1.4	Operator type	Standing	
1.5	Rated capacity/rated load	Q (lb/kg)	
		3000(1361)	
1.6	Load centre distance	c (in/mm)	
		24(600)	
1.8	Load distance, centre of drive axle to fork	x (in/mm)	
		31(786)	
1.9	Wheelbase	y (in/mm)	
		62.8(1596)①	
Weight			
2.1	Service weight (without battery)	lb (kg)	
		7067(3205)	
		7363(3340)	
Tyres/chassis			
3.1	Tyres: solid rubber, superelastic, pneumatic, polyurethane	Polyurethane	
3.2	Tyre size, front	in(mm)	
		5×3.9(0127×98)	
3.3	Tyre size, rear	in(mm)	
		13.5×5.5(0343×140)	
3.4	Additional wheels(dimensions)	in(mm)	
		7.9×2.2(0200×55)	
3.5	Wheels, number front/rear (x = driven wheels)		
		2/2(1x)	
3.6	Tread, front	b ₁₀ (in/mm)	
		b+5.4"(137mm)	
3.7	Tread, rear	b ₁₁ (in/mm)	
		762.5	
Dimensions			
4.1	Tilt of mast/fork carriage forward/backward	α/β(°)	
		3/4	
4.2	Height, mast lowered	h ₁ (in/mm)	
		92(2340)	
4.3	Free lift	h ₂ (in/mm)	
		50(1267)	
4.4	Lift	h ₃ (in/mm)	
		198(5030)	
4.5	Height, mast extended	h ₄ (in/mm)	
		239(6063)	
4.7	Height of overhead guard (cabin)	h ₅ (in/mm)	
		92.5(2350)	
4.8	Seat height relating to SLP/stand height	h ₆ (in/mm)	
		9.5(240)	
4.10	Height of wheel arms	h ₇ (in/mm)	
		5.1(130)	
4.19	Overall length	l ₁ (in/mm)	
		103.9(2639)①	
4.20	Length to face of forks	l ₂ (in/mm)	
		61.8(1569)①	
4.21	Overall width	b (in/mm)	
		42.5(1080)	
4.22	Fork dimensions DIN ISO 2331	s/e/l (in/mm)	
		1.6/4.8/42(40/122/1070) [1.8/4.8/L(45/122/L),L>2000]	
4.24	Fork-carriage width	b ₁ (in/mm)	
		35.3(86)	
4.25	Fork spread	b ₂ (in/mm)	
		7.9-29.1(200-740)	
4.26	Distance between wheel arms/loading surfaces	b ₃ (in/mm)	
		46(1170)[34-50(864-1270), (1"increments)]②	
	Distance between outside wheel arms	b ₄ (in/mm)	
		b+10.7"(272mm)	
4.28	Reach distance	l ₄ (in/mm)	
		42(1067)	
4.32	Ground clearance, centre of wheelbase	m ₁ (in/mm)	
		2(50)	
4.34	Aisle width	Ast (in/mm)	
		See table 2	
4.35	Turning radius	Wa (in/mm)	
		72.8(1849)①	
4.37	Length across wheel arms	l _r (in/mm)	
		79.7(2025)①	
Performance Data			
5.1	Travel speed, laden/unladen	mph km/h	6.5/7.5 10.5/12
5.2	Lift speed, laden/unladen	fpm mm/s	78/105 395/535
5.3	Lowering speed, laden/unladen	fpm mm/s	105/105 535/535
5.4	Reaching speed, laden/unladen	fpm mm/s	31/35 160/180
5.8	Max. gradeability, laden/unladen	%	10/12
5.10	Service brake		Electromagnetic
	Parking brake		Electromagnetic
Electric-Engine			
6.1	Drive motor rating S ₂ 60 min	hp/kW	8.6(6.4)
6.2	Lift motor rating at S ₃ 15 %	hp/kW	17.4(13)
6.3	Battery according to DIN 43531/35/36 A, B, C, no		no
6.4	Battery voltage/nominal capacity K _s	(V)/(Ah)	38.6/684
	Battery weight	lb (kg)	280

Note: ① With min. battery; ② Distance between wheel arms is unadjustable.



$a=7.91m \approx 200mm$

