

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

A2 series Lithium Battery Forklift

1500-3800 kg Capacity

76.8V Li-ion



Capacity
1500-3800KG



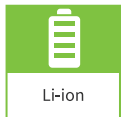
High
Performance



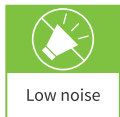
Robust
Design



Ergonomic



Li-ion



Low noise



Easy
Maintenance



Highly
Cost Effective

Why choose between price and quality **WHEN YOU CAN HAVE BOTH!**

The A2-series lithium battery forklift is a new energy forklift product developed based on the architecture of Noblelift's internal combustion forklifts and the advantages of lithium battery technology. While continuing the optimized design of the electric counterbalance family, some key components are universal with internal combustion forklifts. The A-series outperforms traditional electric forklifts in terms of overall vehicle performance, ergonomics, reliability, maintenance, outdoor work capabilities, and load capacity. It meets customer usage scenarios for internal combustion forklifts and is an ideal choice for users in standard and heavy-duty working environments looking to switch from fuel to electricity.



1500-3800 kg. Capacity

A2 series Lithium Battery Forklift

Performance

- The standard equipment offers a lifting and travel speed of 15 km/h, which can accommodate the majority of use scenarios for forklifts. The optional H configuration provides a lifting and travel speed of 20 km/h, meeting the performance requirements that are typical for internal combustion forklifts.
- The ground clearance of the entire vehicle has been increased for better passability; based on customer requirements, the lithium battery capacity is selectable from 135Ah to 460Ah (with standard equipment including electric heating).
- The mast has been widened, and the internal routing of the three-stage mast has been optimized for a better field of view; the spacing between the fork carriage rollers has been increased, reducing the incidence of mast-related malfunctions.
- The vehicle body system, mast system, steering system, control system, and drive axle are interchangeable with those of internal combustion forklifts.

Appearance

- The design continues the A-series family's facial structure with a streamlined good looking shape.
- The overall appearance of the vehicle is simple, compact in size, and robust in appearance.
- All exposed components are made of metal, ensuring durability and reliability.

Safety

- The design incorporates a long wheelbase, which enhances the longitudinal stability of the entire vehicle, significantly increasing the load capacity at the same lifting height.
- Reducing the rear axle load extends the lifespan of the steering tires.
- Wide-view mast with descent buffer to reduce impact.

Comfort

- Ergonomic design increases legroom and headroom for the driver, enhances visibility for operation, and improves comfort with a smaller diameter steering wheel.
- Enlarge the boarding step and handrail to make getting on and off the vehicle more convenient.
- The front undercarriage is designed as a one-piece unit, which can be opened without tools, enhancing the convenience for daily maintenance and repairs.
- The streamlined integral hood reduces noise.

Reliability

- Adopting the testing standards for internal combustion forklifts, the enhanced test intensity surpasses that of traditional electric forklifts.
- Thanks to large tire design, the vehicle offers a stable ride, making it suitable for outdoor work requirements.
- The electronic control system utilizes a fan for forced cooling and is strategically placed away from the hydraulic oil tank. The hydraulic pump motor is positioned near the counterweight ventilation outlet, resulting in a significant improvement in the overall thermal balance of the vehicle.
- The cast steering axle uses tapered roller bearings for the kingpin, enhancing reliability.
- The hydraulic piping layout is optimized, and the pipe joints use 24-degree cone seals to reduce hydraulic leakage.



RUGGED AND SMART DESIGN/EASY MAINTENANCE



Standard head-up display, safer operation.



The widened mast offers better visibility.



Full Vehicle LED Lighting.



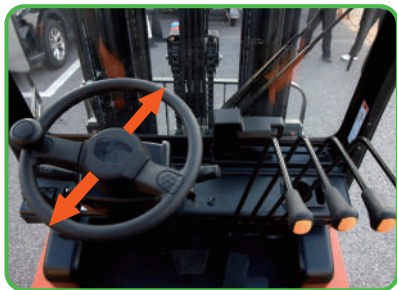
Convenient hydraulic oil level check.



Easy maintenance.



New Mechanical Vibration-Damping Seat.



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



Cast Internal Combustion Forklift Steering Axle.



Front and rear wiper switch.



Enlarged boarding step.



Lithium Battery Charging Port.



Battery voltage/capacity 76.8V

Capacity (Ah/5h)	1.5-1.8t	2-2.5t (High performance)	3-3.8t	3-3.8t (High performance)
135	○	○	○	/
150	●	○	○	/
175	○	●	○	/
205	○	○	●	/
230	○	○	○	/
280	○	○	○	○
300	○	○	○	●
350	○	○	○	○
410	○	○	○	○
460	○	○	○	○
560(EVE)	/	/	○	○
608(EVE)	/	/	○	○

●:standard ○:optional / :This option is not available

Charger Configuration Table

Charger specification	1.5-1.8t	2-2.5t	3-3.8t (High performance)	Input voltage	Input plug
Vehicle 35A	●	○	○	Single-phase 220V	16A GB standard plug
Vehicle 100A	○	○	○	Three-phase 380V	32A five-pin industrial plug
35A	○	○	○	Single-phase 220V	16A three-pin industrial plug
65A	○	●	○	Three-phase 380V	32A five-pin industrial plug
100A	○	○	●	Three-phase 380V	32A five-pin industrial plug
150A	○	○	○	Three-phase 380V	32A five-pin industrial plug
200A	○	○	○	Three-phase 380V	32A five-pin industrial plug
250A	/	○	○	Three-phase 380V	32A five-pin industrial plug

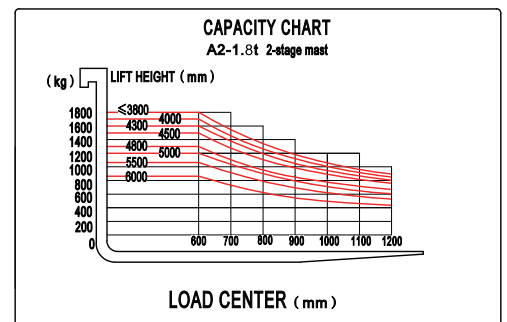
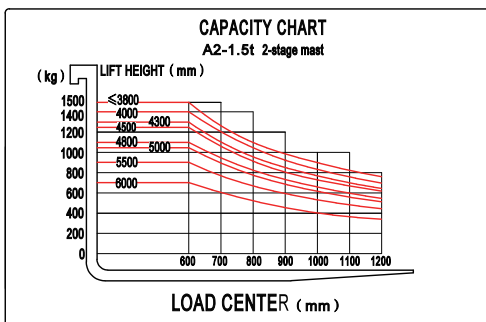
●:standard ○:optional / :This option is not available Three-phase chargers are also suitable for single-phase 220V input, with reduced charging current.

A2 series 1.5/1.8T Table of Mast

Designation	Mast table	Lift height	Mast height			Free lift		Front overhang	Tilt angle	Load capacity			
			Closed mast height	Extended mast height		Without load backrest	With load backrest			Capacity table(kg) C=600mm without attachment			
				mm	Without load backrest					With load backrest	Single tire		Dual tires
			mm		mm	mm	mm			mm	mm	mm	forward/backward
										kg	kg	kg	kg
Two-stage ZT	A15/18/M200	2000	1495	3500	3940	140	140	410	6/12	1500	1800	1500	1800
	A15/18/M250	2500	1745	3000	3440	140	140	410	6/12	1500	1800	1500	1800
	A15/18/M270	2700	1845	3200	3640	140	140	410	6/12	1500	1800	1500	1800
	A15/18/M300	3000	1995	3500	3940	140	140	410	6/12	1500	1800	1500	1800
	A15/18/M330	3300	2145	3800	4240	140	140	410	6/12	1500	1800	1500	1800
	A15/18/M350	3500	2245	3960	4400	140	140	410	6/12	1500	1800	1500	1800
	A15/18/M360	3600	2345	4100	4540	140	140	410	6/12	1500	1800	1500	1800
	A15/18/M370	3700	2395	4200	4640	140	140	410	6/12	1500	1800	1500	1800
	A15/18/M380	3800	2445	4300	4740	140	140	410	6/12	1500	1800	1500	1800
	A15/18/M400	4000	2595	4500	4940	140	140	410	6/12	1400	1700	1500	1800
	A15/18/M430	4300	2745	4800	5240	140	140	410	6/6 * 6/12	1300	1600	1400	1700
	A15/18/M450	4500	2845	5000	5440	140	140	410	6/6 * 6/12	1250	1500	1350	1600
	A15/18/M480	4800	2995	5300	5740	140	140	410	6/6 * 6/12	1100	1300	1200	1400
	A15/18/M500	5000	3095	5500	5940	140	140	410	6/6 * 6/12	1050	1200	1150	1300
	A15/18/M550	5500	3345	6000	6440	140	140	410	3/6 * 3/6	900	1050	1000	1150
A15/18/M600	6000	3595	6500	6940	140	140	410	3/6 * 3/6	700	850	800	1000	
Two-stage Full Free Lift	A15/18/U250	2500	1760	3095	3455	1175	815	430	6/12	1500	1800	1500	1800
	A15/18/U270	2700	1860	3295	3655	1275	915	430	6/12	1500	1800	1500	1800
	A15/18/U300	3000	2010	3595	3955	1425	1065	430	6/12	1500	1800	1500	1800
	A15/18/U330	3300	2160	3895	4255	1575	1215	430	6/12	1500	1800	1500	1800
	A15/18/U360	3600	2310	4195	4555	1725	1365	430	6/12	1500	1800	1500	1800
	A15/18/U400	4000	2560	4595	4955	1975	1615	430	6/12	1400	1750	1500	1800
Three-stage Full Free Lift	A15/18/N400	4000	1930	4645	4985	1245	905	450	6/6	1300	1550	1400	1700
	A15/18/N430	4300	2030	4945	5285	1345	1005	450	6/6	1250	1450	1350	1600
	A15/18/N450	4500	2100	5145	5485	1415	1075	450	6/6	1200	1350	1300	1500
	A15/18/N480	4800	2200	5445	5785	1515	1175	450	6/6	1100	1250	1200	1400
	A15/18/N500	5000	2265	5645	5985	1580	1240	450	6/6	1050	1150	1150	1300
	A15/18/N550	5500	2430	6145	6485	1745	1405	450	3/6	850	950	950	1100
	A15/18/N600	6000	2650	6645	6985	1965	1625	450	3/6	650	750	750	900
	A15/18/N650	6500	2825	7145	7485	2140	1800	450	3/6	\	\	550	700
	A15/18/N700	7000	3030	7645	7985	2345	2005	450	3/6	\	\	350	500

100kg less with integral side shifter, 150kg less with external side shifter.
 * Optional tilt Angle for dual wheels.

Load curve diagram



A2 series 2.0/2.5T Table of Mast

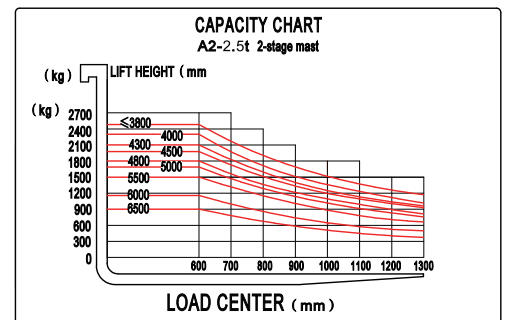
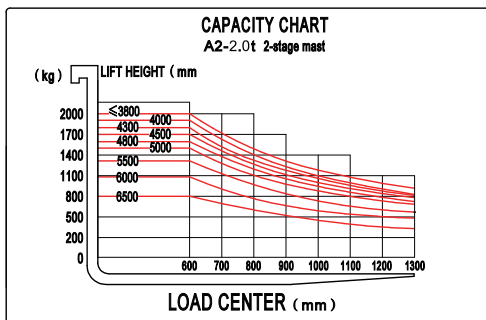
Designation	Mast table	Lift height	Mast height			Free lift		Front overhang	Tilt angle	Load capacity			
			Closed mast height	Extended mast height		Without load backrest	With load backrest			Capacity table(kg) C=600mm without attachment			
				mm	mm					mm	Single tire		Dual tires
			mm			2.0t/2.5t	2.0t/2.5t				2.0t/2.5t	2.0t	2.5t
Two-stage ZT	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	1600	1800	1700	2100
	A20/25/M500	5000	3095	5635	6045	140	140	465	6/6 * 6/12	1500	1700	1600	2000
A20/25/M550	5500	3345	6135	6545	140	140	465	3/6 * 3/6	1300	1500	1500	1800	
A20/25/M600	6000	3595	6635	7045	140	140	465	3/6 * 3/6	1050	1150	1400	1600	
Two-stage Full Free Lift	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	A20/25/N400	4000	1955	4695	5055	1270	910	475	6/6	1800	2200	1950	2450
	A20/25/N430	4300	2055	4995	5355	1370	1010	475	6/6	1700	2100	1900	2400
	A20/25/N450	4500	2125	5245	5605	1440	1080	475	6/6	1600	1950	1800	2300
	A20/25/N480	4800	2225	5495	5855	1540	1180	475	6/6	1500	1850	1700	2100
	A20/25/N500	5000	2290	5695	6055	1605	1245	475	6/6	1400	1700	1600	2000
	A20/25/N550	5500	2455	6195	6555	1770	1410	475	3/6	1050	1300	1500	1800
	A20/25/N600	6000	2675	6705	7055	1990	1630	475	3/6	700	850	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

100kg less with integral side shifter, 150kg less with external side shifter.

* Optional tilt Angle for dual wheels.

2000-2500kg models can choose three levels 7500mm,8000mm door frame.

Load curve diagram



A2 series 3.0/3.5/3.8 T Table of Mast

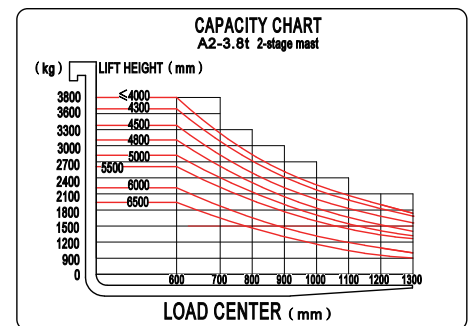
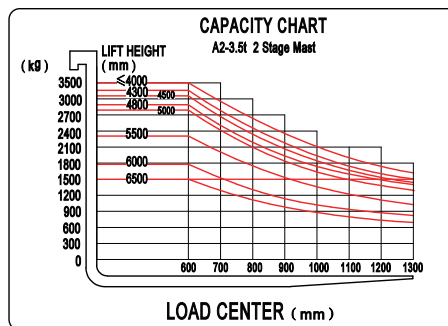
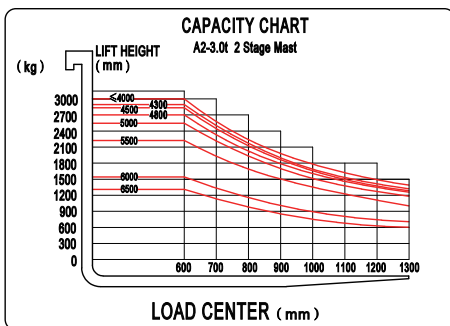
Designation	Mast table	Lift height	Mast height						Free lift				Front overhang		Tilt angle	Load capacity					
			Closed mast height		Extended mast height				Without load backrest		With load backrest					Capacity table(kg) C=600mm without attachment					
					mm		mm						mm		mm		mm		Single tire		Dual tires
			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		
Two-stage ZT	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	
Two-stage Full Free Lift	A30/35/U250	2500	1990	1990	3355	3355	3620	3620	1140	1140	845	845	480	485	6/12	3000	3500	3800	3000	3500	3800
	A30/35/U270	2700	2090	2090	3555	3555	3820	3820	1240	1240	945	945	480	485	6/12	3000	3500	3800	3000	3500	3800
	A30/35/U300	3000	2190	2190	3845	3845	4120	4120	1340	1340	1045	1045	480	485	6/12	3000	3500	3800	3000	3500	3800
	A30/35/U330	3300	2390	2390	4155	4155	4420	4420	1540	1540	1245	1245	480	485	6/12	3000	3500	3800	3000	3500	3800
	A30/35/U360	3600	2550	2550	4455	4455	4720	4720	1700	1700	1405	1405	480	485	6/12	3000	3500	3700	3000	3500	3700
A30/35/U400	4000	2750	2750	4855	4855	5120	5120	1900	1900	1605	1605	480	485	6/12	2850	3250	3550	3000	3500	3700	
Three-stage Full Free Lift	A30/35/N400	4000	2105	2105	4855	4855	5120	5120	1260	1260	960	960	500	505	6/6	2700	3100	3300	2900	3400	3600
	A30/35/N430	4300	2205	2205	5155	5155	5420	5420	1360	1360	1060	1060	500	505	6/6	2600	3000	3200	2850	3350	3600
	A30/35/N450	4500	2175	2175	5335	5355	5670	5670	1430	1430	1130	1130	500	505	6/6	2400	2900	3100	2700	3200	3550
	A30/35/N480	4800	2375	2375	5655	5655	5920	5920	1530	1530	1230	1230	500	505	6/6	2300	2750	2950	2550	2950	3150
	A30/35/N500	5000	2440	2440	5855	5855	6120	6120	1595	1595	1295	1295	500	505	6/6	2150	2550	2700	2400	2800	3100
	A30/35/N550	5500	2605	2605	6355	6355	6620	6620	1760	1760	1460	1460	500	505	3/6	1650	1900	2100	2250	2550	2800
	A30/35/N600	6000	2770	2770	6855	6855	7120	7120	1925	1925	1625	1625	500	505	3/6	1200	1400	1600	2100	2300	2550
	A30/35/N650	6500	3000	3000	7355	7355	7615	7615	2155	2155	1850	1850	500	505	3/6	\	\	\	1950	2050	2300
A30/35/N700	7000	3170	3170	7855	7855	8115	8115	2325	2325	2125	2125	500	505	3/6	\	\	\	1800	1850	2050	

100kg less with integral side shifter, 150kg less with external side shifter.

* Optional tilt Angle for dual wheels.

3000-3800kg models can choose three levels 7500mm,8000mm door frame.

Load curve diagram



Identification							
1.1	Manufacture(abbreviation)		NOBLELIFT	NOBLELIFT	NOBLELIFT	NOBLELIFT	NOBLELIFT
1.2	Manufacturer's type designation		CPD15-A2F3S	CPD18-A2F3S	CPD20-A2J3H	CPD25-A2J3H	CPD30-A2J3S
1.3	Drive:electric(battery or mains),diesel,petrol gas>manual)		LFP battery	LFP battery	LFP battery	LFP battery	LFP battery
1.4	Type of operation(hand,pedestrian,standing,seated,order-picker)		Seated	Seated	Seated	Seated	Seated
1.5	Load capacity/rated load	Q(kg)	1500	1800	2000	2500	3000
1.6	Load centre distance	c (mm)	600	600	600	600	600
1.8	Load distance,centre of drive axle to fork	x (mm)	410	410	465	465	480
1.9	wheelbase	y (mm)	1480	1480	1660	1660	1760
Weights							
2.1	Service weight incl	kg	3000	3200	3450	3750	4300
2.2	Axle loading ,laden front/rear	kg	3850/650	4410/590	4800/650	5500/750	6520/780
2.3	Axle loading,unladen front/rear	kg	1400/1600	1400/1800	1400/2050	1400/2350	1650/2650
Wheels, Chassis							
3.1	Type:solid rubber,superelastic,pneumatic,polyurethane		Pneumatic tire	Pneumatic tire	Pneumatic tire	Pneumatic tire	Pneumatic tire
3.2	Tyres size,front		6.00-10-10PR	6.00-10-10PR	7.00-12-12PR	7.00-12-12PR	28x9-15-14PR
3.3	Tyres size,rear		5.00-8-10PR	5.00-8-10PR	6.00-9-10PR	6.00-9-10PR	6.50-10-10PR
3.5	Wheels,number front/rear(X=driven wheels)		2X/2	2X/2	2X/2	2X/2	2X/2
3.6	Track width,front	b10 (mm)	958	958	973	973	1000
3.7	Track width,rear	b11 (mm)	918	918	980	980	980
Basic Dimensions							
4.1	Mast/fork carriage tilt forward/backward	$\alpha/\beta(^{\circ})$	6/12	6/12	6/12	6/12	6/12
4.2	lowered mast height	h1(mm)	1995	1995	1995	1995	2055
4.3	Free lift	h2(mm)	140	140	140	140	150
4.4	Lift height	h3(mm)	3000	3000	3000	3000	3000
4.4a	Lift height (Including cargo fork)	h23(mm)	3040	3040	3040	3040	3050
4.5	Extended mast height	h4(mm)	3940	3940	4025	4025	4105
4.7	Overhead load guardheight	h6(mm)	2090	2090	2130	2130	2150
4.8	Seat height/standing height	h7(mm)	990	990	1030	1030	1050
4.12	Coupling height	h10(mm)	425	425	400	400	420
4.19	Overall length (Including cargo fork)	l1(mm)	3510	3510	3825	3825	3990
4.20	Overall length	l2(mm)	2290	2290	2605	2605	2770
4.21	Overall width (Frame/tires)	b1(mm)	1126/1118	1126/1118	1150/1163	1150/1163	1195/1228
4.22	Fork dimensions	s/e/l(mm)	1220/120/40	1220/120/40	1220/120/40	1220/120/40	1220/122/45
4.23	Fork mounting grade		2A	2A	2A	2A	3A
4.24	Width of fork rack	b3(mm)	1040	1040	1040	1040	1100
4.31	Ground clearance ,laden,under mast	m1(mm)	110	110	120	120	140
4.32	Ground clearance,centre of wheelbase	m2(mm)	130	130	170	170	190
4.34.1	Aisle width for pallets 1000×1200 crossways	Ast(mm)	3640	3640	3915	3915	4130
4.34.2	Aisle width for pallets 800×1200 lengthways	Ast(mm)	3840	3840	4115	4115	4330
4.35	Turning radius	Wa (mm)	2030	2030	2250	2250	2450
4.36	Inside turning radius	b13(mm)	580	580	615	615	715
Performance Data							
5.1	Travel speed,laden/unladen	km/h	15/15	14.5/15	18/19	18/19	15/15
5.2	Lift speed,laden/unladen Two stage gantry	mm/s	350/430	330/430	500/580	500/580	340/480
5.3	lowering speed,laden/unladen Two stage gantry	mm/s	440/400	440/400	400/420	400/420	380/410
5.6	Max.Drawbar pull ,laden/unladen mechanical drive	kN	9/9	9/9	15/12	15/12	15/15
5.7	Max.Gradient performance,laden/unladen S2 mechanical drive	%	18/20	16/20	20/20	20/20	15/15
5.10	Service brake		Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic
5.11	Parking braking		Mechanical	Mechanical	Mechanical	Mechanical	Mechanical
Battery							
6.1	Battery voltage/capacity	V/Ah	76.8/150	76.8/150	76.8/175	76.8/175	76.8/205
6.2	Battery weight	kg	130	130	110	110	130
Motors and controllers							
7.1	Drive motor power S2-60min	kw	10	10	15	15	15
7.2	Lifting motor power S3-15min	kw	18	18	24	24	24
7.3	Drive motor control mode		MOSFET/PMSM	MOSFET/PMSM	MOSFET/PMSM	MOSFET/PMSM	MOSFET/PMSM
7.4	Lifting motor control mode		MOSFET/PMSM	MOSFET/PMSM	MOSFET/PMSM	MOSFET/PMSM	MOSFET/PMSM
7.5	Controller type		FJZC-G2PR-350-CE	FJZC-G2PR-350-CE	ACM80R350-CE	ACM80R350-CE	ACM80R350-CE
Other Details							
10.1	Operating pressure for attachments	Mpa	18.5	18.5	18.5	18.5	18.5
10.2	Oil volume for attachments	L/min	40	40	50	50	50
10.4	Fuel tank volume	L	50	50	60	60	70
10.7	Driver's ear noise,According to EN 12053	dB	70	70	72	72	73
10.8	Traction pin specification DIN 15170		30	30	30	30	30

Identification							
1.1	Manufacture(abbreviation)		NOBLELIFT	NOBLELIFT	NOBLELIFT	NOBLELIFT	NOBLELIFT
1.2	Manufacturer's type designation		CPD30-A2S2H	CPD35-A2J3S	CPD35-A2S2H	CPD38-A2J3S	CPD38-A2S2H
1.3	Drive:electric(battery or mains),diesel,petrol gas>manual)		LFP battery	LFP battery	LFP battery	LFP battery	LFP battery
1.4	Type of operation(hand,pedestrian,standing,seated,order-picker)		Seated	Seated	Seated	Seated	Seated
1.5	Load capacity/rated load	Q(kg)	3000	3500	3500	3800	3800
1.6	Load centre distance	c (mm)	600	600	600	600	600
1.8	Load distance,centre of drive axle to fork	x (mm)	480	480	480	485	485
1.9	wheelbase	y (mm)	1760	1760	1760	1760	1760
Weights							
2.1	Service weight incl	kg	4380	4600	4680	4800	4880
2.2	Axle loading ,laden front/rear	kg	6590/790	7270/830	7340/840	7730/870	7800/880
2.3	Axle loading,unladen front/rear	kg	1690/2690	1650/2950	1690/2990	1650/3150	1690/3190
Wheels, Chassis							
3.1	Type:solid rubber,superelastic,pneumatic,polyurethane		Pneumatic tire	Pneumatic tire	Pneumatic tire	Pneumatic tire	Pneumatic tire
3.2	Tyres size,front		28x9-15-14PR	28x9-15-14PR	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	6.50-10-10PR	6.50-10-10PR
3.5	Wheels,number front/rear(X=driven wheels)		2X/2	2X/2	2X/2	2X/2	2X/2
3.6	Track width,front	b10 (mm)	1000	1000	1000	1000	1000
3.7	Track width,rear	b11 (mm)	980	980	980	980	980
Basic Dimensions							
4.1	Mast/fork carriage tilt forward/backward	$\alpha/\beta(^{\circ})$	6/12	6/12	6/12	6/12	6/12
4.2	lowered mast height	h1(mm)	2055	2170	2170	2170	2170
4.3	Free lift	h2(mm)	150	150	150	150	150
4.4	Lift height	h3(mm)	3000	3000	3000	3000	3000
4.4a	Lift height (Including cargo fork)	h23(mm)	3050	3050	3050	3050	3050
4.5	Extended mast height	h4(mm)	4105	4105	4105	4105	4105
4.7	Overhead load guardheight	h6(mm)	2150	2150	2150	2150	2150
4.8	Seat height/standing height	h7(mm)	1050	1050	1050	1050	1050
4.12	Coupling height	h10(mm)	420	420	420	420	420
4.19	Overall length (Including cargo fork)	l1(mm)	3990	3995	3995	3995	3995
4.20	Overall length	l2(mm)	2770	2775	2775	2775	2775
4.21	Overall width (Frame/tires)	b1(mm)	1195/1228	1195/1228	1195/1228	1195/1228	1195/1228
4.22	Fork dimensions	s/e/l(mm)	1220/122/45	1220/122/50	1220/122/50	1220/122/50	1220/122/50
4.23	Fork mounting grade		3A	3A	3A	3A	3A
4.24	Width of fork rack	b3(mm)	1100	1100	1100	1100	1100
4.31	Ground clearance ,laden,under mast	m1(mm)	140	140	140	140	140
4.32	Ground clearance,centre of wheelbase	m2(mm)	190	190	190	190	190
4.34.1	Aisle width for pallets 1000×1200 crossways	Ast(mm)	4130	4135	4135	4135	4135
4.34.2	Aisle width for pallets 800×1200 lengthways	Ast(mm)	4330	4335	4335	4335	4335
4.35	Turning radius	Wa (mm)	2450	2450	2450	2450	2450
4.36	Inside turning radius	b13(mm)	715	715	715	715	715
Performance Data							
5.1	Travel speed,laden/unladen	km/h	19/19	15/15	19/19	14.5/15	19/19
5.2	Lift speed,laden/unladen Two stage gantry	mm/s	530/500	300/420	400/500	300/420	400/500
5.3	lowering speed,laden/unladen Two stage gantry	mm/s	380/410	380/410	380/410	380/410	380/410
5.6	Max.Drawbar pull ,laden/unladen mechanical drive	kN	23/15	15/15	21/15	15/15	21/15
5.7	Max.Gradient performance,laden/unladen S2 mechanical drive	%	20/20	15/15	20/20	15/20	20/20
5.10	Service brake		Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic
5.11	Parking braking		Mechanical	Mechanical	Mechanical	Mechanical	Mechanical
Battery							
6.1	Battery voltage/capacity	V/Ah	76.8/300	76.8/205	76.8/300	76.8/205	76.8/300
6.2	Battery weight	kg	210	130	210	130	210
Motors and controllers							
7.1	Drive motor power S2-60min	kw	20	15	20	15	20
7.2	Lifting motor power S3-15min	kw	28	24	28	24	28
7.3	Drive motor control mode		MOSFET/PMSM	MOSFET/PMSM	MOSFET/PMSM	MOSFET/PMSM	MOSFET/PMSM
7.4	Lifting motor control mode		MOSFET/PMSM	MOSFET/PMSM	MOSFET/PMSM	MOSFET/PMSM	MOSFET/PMSM
7.5	Controller type		SZ8744-DDNLZN-ZC02-CE	ACM80R350-CE	SZ8744-DDNLZN-ZC02-CE	ACM80R350-CE	SZ8744-DDNLZN-ZC02-CE
Other Details							
10.1	Operating pressure for attachments	Mpa	18.5	18.5	18.5	18.5	18.5
10.2	Oil volume for attachments	L/min	50	50	50	50	50
10.4	Fuel tank volume	L	70	70	70	70	70
10.7	Driver's ear noise,According to EN 12053	dB	73	73	73	73	73
10.8	Traction pin specification DIN 15170		30	30	30	30	30

Standard configuration

- Load backrest
- 2-stage 3m Mast
- 1.07-meter hook-mounted forks
- Fork descent cushioning
- Full vehicle LED lighting
- Cup holder
- Pin code Panel
- Rearview mirror
- Standard with Lithium Battery
- Pneumatic Tires (single)
- Emergency Power Off Switch
- Color Display instrument
- Two-spool multi-way valve
- Overhead guard
- Rain cover
- Onboard tool kit

Optional configuration

- Tilt cylinder cover
- Radiator grille
- 3rd/4th/5th Function Valve (Multi-way Valve)
- Dual Front Tires
- Solid tires
- Fire extinguisher
- Big Capacity Lithium Battery
- Cabin
- Non-marking tire
- Rear handrail with horn
- Electric fan
- Welded Metal Roof
- lowered overhead
- Rear working light
- Customer-specified Color
- Warning light
- Front wind-shield
- Cabin heater
- Cabin ac+heater
- Semi-enclosed Seat
- Full suspension seat
- External side shifter
- Integrated Side Shifter
- External Fork Positioner

Structure diagram

