

NOBLELIFT

A series2.0/2.5/3.0/3.5/3.8 T
Lithium Battery Forklift



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

NEW
Noblelift Products
ARRIVAL

NOBLELIFT INTELLIGENT EQUIPMENT CO., LTD.

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 architecture of Noblift'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.

Performance

- The standard equipment offers a lifting and travel speed of 15 km/h, which can accommodate the majority of use scenarios ic 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.



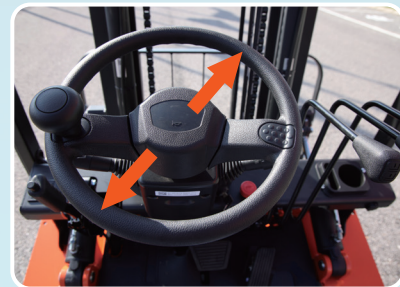
Battery voltage/capacity 76.8V			
Capacity (Ah/5h)	2-2.5t (High performance)	3-3.8t	3-3.8t (High performance)
135	○	○	/
150 (CE)	○	○	/
175	●	○	/
205 (CE)	○	●	/
230 (CE)	○	○	/
280 (CE)	○	○	●
300 (CE)	○	○	○
350 (CE)	○	○	○
410 (CE)	/	○	○
460 (CE)	/	○	○
●:standard ○:optional / :This option is not available			

Charger specification CE 380V,Three-Phase,32A,5-core Industrial Power 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	●	○	○	/
300	●	○	○	/
350	●	3-3.8t High performance standard		○
410	●	○	○	○
460	●	○	○	○
●:standard ○:optional / :This option is not available				

The 65A/100A/150A charger is suitable for single-phase 220V input, with hal charging current.



Smart LCD Display.



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



Cast Internal Combustion Forklift Steering Axle.



Convenient hydraulic oil level check.



The widened mast offers better visibility.



Full Vehicle LED Lighting.



Lithium Battery Charging Port.



Enlarged boarding step.



The engine hood opens at an 80-degree angle.



Easy maintenance.



Heat sink net cover.



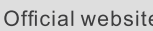
■ Load backrest	■ 2-stage 3m Mast	■ 1.07-meter hook-mounted forks	■ Fork descent cushioning
■ Full vehicle LED lighting	■ Cup holder	■ Pin code Panel	■ Rearview mirror
■ Standard with Lithium Battery	■ Pneumatic Tires (single)	■ Emergency Power Off Switch	■ Color Display instrument
■ Two-spool multi-way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

■ 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

The graph plots load capacity Q (Kg) on the y-axis against center distance C (mm) on the x-axis. Five data series are shown, each representing a different load capacity: 2.0t, 2.5t, 3.0t, 3.5t, and 3.8t. All series show a decreasing trend as C increases.

C (mm)	2.0t (Kg)	2.5t (Kg)	3.0t (Kg)	3.5t (Kg)	3.8t (Kg)
500	2000	2500	3000	3500	3800
600	1800	2300	2800	3300	3600
700	1600	2100	2600	3100	3400
800	1450	1950	2450	2950	3250
900	1350	1850	2350	2850	3150
1000	1250	1750	2250	2750	3050
1100	1150	1650	2150	2650	2950
1200	1050	1550	2050	2550	2850
1300	1000	1450	1950	2450	2750

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No.20250313							
Identification	1.1	Manufacture(abbreviation)		NOBLELIFT		NOBLELIFT	
	1.2	Manufacturer's type designation		CPD20		CPD25	
	1.3	Drive(electric(battery or mains),diesel,petrol gas,manual)		LFP battery		LFP battery	
	1.4	Type of operation(hand,pedestrian,standing,seated,order-picker)		Seated		Seated	
	1.5	Load capacity/rated load	Q(kg)	2000		2500	
	1.6	Load centre distance	c (mm)	500		500	
	1.8	Load distance,centre of drive axle to fork	x (mm)	465		465	
	1.9	wheelbase	y (mm)	1660		1660	
	Weights	2.1	Service weight incl	kg	3250		3550
2.2		Axle loading ,laden front/rear	kg	4650/600		5350/700	
2.3		Axle loading,unladen front/rear	kg	1400/1850		1400/2150	
Wheels, Chassis	3.1	Types:solid rubber,superelectric,pneumatic,polyurethane		Pneumatic tire		Pneumatic tire	
	3.2	Tyres size ,front		7.00-12-12PR		7.00-12-12PR	
	3.3	Tyres size ,rear		6.00-9-10PR		6.00-9-10PR	
	3.5	Wheels,number front/rear(×=driven wheels)		2X/2		2X/2	
	3.6	Track width,front	b10 (mm)	973		973	
	3.7	Track width,rear	b11 (mm)	980		980	
	Basic Dimensions	4.1	Mast/fork carriage tilt forward/backward	α/β(°)	6/12		6/12
4.2		lowered mast height	h1(mm)	1995		1995	
4.3		Free lift	h2(mm)	140		140	
4.4		Lift height	h3(mm)	3000		3000	
4.4a		Lift height (Including cargo fork)	h23(mm)	3040		3040	
4.5		Extended mast height	h4(mm)	4025		4025	
4.7		Overhead load guardheight	h6(mm)	2130		2130	
4.8		Seat height,standing height	h7(mm)	1030		1030	
4.12		Coupling height	h10(mm)	400		400	
4.19		Overall length (Including cargo fork)	l1(mm)	3698		3698	
4.20		Overall length	l2(mm)	2628		2628	
4.21		Overall width (Frame/tyres)	b1(mm)	1150/1163		1150/1163	
4.22		Fork dimensions	s/e/(mm)	1070/120/40		1070/120/40	
4.23		Fork mounting grade		2A		2A	
4.24		Width of fork rack	b3(mm)	1040		1040	
4.31		Ground clearance ,laden,under mast	m1(mm)	120		120	
4.32		Ground clearance,centre of wheelbase	m2(mm)	170		170	
4.34.1		Aisle width for pallets 1000×1200 crossways	Ast(mm)	3935		3935	
4.34.2		Aisle width for pallets 800×1200 lengthways	Ast(mm)	4135		4135	
4.35	Turning radius	Wa (mm)	2270		2270		
4.36	Inside turning radius	b13(mm)	615		615		
Performance Data	5.1	Travel speed,laden/unladen	km/h	19/19		19/19	
	5.2	Lift speed,laden/unladen Two stage gantry	mm/s	500/580		500/580	
	5.3	lowering speed,laden/unladen Two stage gantry	mm/s	400/420		400/420	
	5.6	Max.Drawbar pull ,laden/unladen mechanical drive	kN	15/12		15/12	
	5.7	Max.Gradient,performance,laden/unladen S2 mechanical drive	%	20/20		20/20	
	5.10	Service brake		Hydraulic		Hydraulic	
	5.11	Parking braking		Mechanical		Mechanical	
Battery	6.1	Battery voltage/capacity	V/Ah	76.8/175		76.8/175	
	7.2	Battery weight	kg	110		110	
Motors and controllers	7.1	Drive motor power S2-60min	kw	12	15	12	15
	7.2	Lifting motor power S3-15min	kw	18	24	18	24
	7.3	Drive motor control mode		MOSFET/ACIM	MOSFET/PMSM	MOSFET/ACIM	MOSFET/PMSM
	7.4	Lifting motor control mode		MOSFET/ACIM	MOSFET/PMSM	MOSFET/ACIM	MOSFET/PMSM
	7.5	Controller type		FJ-G2-80-03	ACMIII80R350	FJ-G2-80-03	ACMIII80R350
Other Details	10.1	Operating pressure for attachments	Mpa	18.5		18.5	
	10.2	Oil volume for attachments	L/min	50		50	
	10.4	Fuel tank volume	L	60		60	
	10.7	Driver's ear noise,According to EN 12053	dB	72		72	
	10.8	Traction pin specification DIN 15170		30		30	

Designation	Main table	Lift height	Main 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≤500mm without attachment			
				Without load backrest	With load backrest								
													mm
		mm	mm	mm	mm	mm	mm	mm	forward/backward (°)	2.0t	2.5t	2.0t	2.5t
		mm	mm	mm	mm	mm	mm	mm	mm	kg	kg	kg	kg
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	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	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
	A20/25/U400	4000	1955	4695	5055	1270	910	475	6/6	1800	2100	1950	2450
Three-stage Full Free lift	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/N6												

2-2.5t models can choose three levels 7.5 meters, 8 meters door frame.

1.1	Manufacturer(abbreviation)		NOBLELIFT			NOBLELIFT			NOBLELIFT		
1.2	Manufacturer's type designation		CPD30			CPD35			CPD38		
1.3	Drive(electric (battery or mains),diesel,petrol gas>manual)		LFP battery			LFP battery			LFP battery		
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		
2.1	Service weight incl	kg	4100		4180	4400		4480	4600		4680
2.2	Axle loading,laden front/rear	kg	6390/710		6430/750	7100/800		7140/840	7500/900		7540/940
2.3	Axle loading,unladen front/rear	kg	1650/2450		1690/2490	1600/2800		1630/2850	1600/3000		1630/3050
3.1	Type:solid rubber,superelastic,pneumatic,polyurethane		Pneumatic tire			Pneumatic tire			Pneumatic tire		
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(X=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		
4.1	Mast/fork carriage tilt forward/backward	α(B)°	6/12			6/12			6/12		
4.2	lowered mast height	h1(mm)	2170			2170			2170		
4.3	Free lift	h2(mm)	150			150			150		
4.4	Lift height	h3(mm)	3000			3000			3000		
4.4a	Lift height (Including cargo fork)	h23(mm)	3050			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/standing height	h7(mm)	1050			1050			1050		
4.12	Coupling height	h10(mm)	420			420			420		
4.19	Overall length (Including cargo fork)	l1(mm)	3870			3905			3945		
4.20	Overall length	l2(mm)	2775			2835			2875		
4.21	Overall width (Frame/tyres)	b1(mm)	1195/1228			1195/1228			1195/1228		
4.22	Fork dimensions	s,e/l(mm)	1070/122/45			1070/122/50			1070/122/45		
4.23	Fork mounting grade		3A			3A			3A		
4.24	Width of fork rack	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	As1(mm)	4130			4195			4225		
4.34.2	Aisle width for pallets 800×1200 lengthways	As2(mm)	4330			4395			4425		
4.35	Turning radius	Wa (mm)	2450			2510			2540		
4.36	Inside turning radius	b13(mm)	715			715			715		
5.1	Travel speed,laden/unladen	km/h	15/15		19/19	15/15		18/19	14.5/15		18/19
5.2	Lift speed,laden/unladen Two stage gantry	mm/s	340/480		360/500	300/420		320/420	400/500		300/420
5.3	lowering speed,laden/unladen Two stage gantry	mm/s	380/410		520/560	380/410		520/560	380/410		520/560
5.6	Max.Drawbar pull,laden/unladen mechanical drive	kN	15/15		16/15	21/15		15/15	16/15		21/15
5.7	Max.Gradient performance,laden/unladen S2 mechanical drive	%	15/15		17/20	20/20		15/15	16/20		20/20
5.10	Service brake		Hydraulic			Hydraulic			Hydraulic		
5.11	Parking braking		Mechanical			Mechanical			Mechanical		
6.1	Battery voltage/capacity	V/Ah	76.8/205		76.8/300	76.8/205		76.8/300	76.8/205		76.8/300
7.2	Battery weight	kg	130		210	130		210	130		210
7.1	Drive motor power S2-60min	kw	12		15	12		15	12		15
7.2	Lifting motor power S3-15min	kw	18		24	18		24	18		24
7.3	Drive motor control mode		MOSFET/ACIM		MOSFET/PSM	MOSFET/ACIM		MOSFET/PSM	MOSFET/ACIM		MOSFET/PSM
7.4	Lifting motor control mode		MOSFET/ACIM		MOSFET/PSM	MOSFET/ACIM		MOSFET/PSM	MOSFET/ACIM		MOSFET/PSM
7.5	Controller type		FJ-G2-80-03		ACM11I80R350	FJ-G2-80-05		ACM11I80R350	FJ-G2-80-03		ACM11I80R350
10.1	Operating pressure for attachments	Mpa	18.5			18.5					

Designation	Main table	Lift height	Mast height								Free lift						Front overhang		Tilt angle °	Load capacity Capacity table(g) C=500mm without attachment						
			Closed mast		Extended mast height		Without load backrest		With load backrest		Without load backrest		With load backrest				Single tire			Dual tires						
		mm	3.0t	3.5m/3.8t	3.0t	3.5m/3.8t	3.0t	3.5m/3.8t	3.0t	3.5m/3.8t	3.0t	3.5m/3.8t	3.0t	3.5m/3.8t	3.0t	3.5m/3.8t	mm	forward/backward (°)	3.0t	3.5t	3.8t	3.0t	3.5t	3.8t		
Two-stage Z1	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	2355	2470	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					
Two-stage Full Free Lift	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	2950	3250	3650	3000	3400						
	A30/35/M450	4500	2905	2970	5170	5290	5605	5605	145	150	145	150	480	485	6/6 * 6/12	2850	3150	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						
	A30/35/U250	2500	1880	1990	3260	3355	3620																			

-3.8t models can choose three levels 7.5 meters, 8 meters door frame.

Technical drawing of a forklift showing dimensions for height, width, and weight.

