

NOBLELIFT

A series 4.0/4.5/5.0/5.5 T
Lithium Battery Forklift



NEW / *Noblelift Products*
ARRIVAL

NOBLELIFT INTELLIGENT EQUIPMENT CO., LTD.

A series 4.0/4.5/5.0/5.5T Lithium Battery Forklift

The A-Series lithium battery forklift combines Noblelift's proven internal combustion architecture with cutting-edge lithium technology to deliver powerful, efficient performance. By sharing key components with IC models and enhancing the electric counterbalance design, it offers superior ergonomics, reliability, load capacity, and outdoor capability. Ideal for both standard and heavy-duty applications, it's the perfect solution for users looking to transition from fuel to electric—without sacrificing performance.

Performance

- Equipped with a 153.6V high-voltage platform, permanent magnet synchronous technology, and an automotive-grade electric system, the forklift delivers high performance with lower energy consumption and enhanced safety.
- The standard configuration matches the performance of internal combustion forklifts, featuring a full-load lift speed of 400mm/s, a driving speed of 18km/h, and a gradeability of 18%.
- Increased ground clearance enhances passability on uneven or outdoor surfaces. Lithium battery options range from 210Ah to 560Ah, with standard electric heating to suit various working conditions.
- A widened mast and optimized three-stage hose routing improve forward visibility. Increased spacing between fork carriage rollers helps reduce mast failure rates. Optimized hydraulic and electrical systems enable faster mast lifting and lowering, enhancing operational efficiency.
- The forklift chassis, mast, steering system, control system, and drive axle are shared with the internal combustion platform for proven durability and performance.
- An optional stone-handling version is available for specialized applications.

Appearance

- The forklift continues the signature A-Series front design, with a streamlined shape and smooth lines for a sleek, modern look.
- Its clean, compact profile conveys strength and power.
- All exposed components are made of metal, ensuring durability and long-lasting reliability.

Comfort

- Ergonomic design enhances legroom and headroom for the driver, expands the field of vision, and improves operating comfort with a small-diameter steering wheel.
- Enlarged entry steps and grab handles make getting in and out of the forklift more convenient.
- The front and rear floor panels can be opened without tools, enhancing convenience for daily maintenance and repairs.
- The streamlined integral hood is adopted to reduce noise.

Reliability

- Tested under the same stringent standards as internal combustion forklifts, with even more rigorous durability tests to ensure performance and reliability.
- Smooth driving performance with large tire design makes it suitable for outdoor operations.
- The electronic control system uses forced air cooling with a fan and is positioned away from the hydraulic oil tank; the oil pump motor is placed near the counterweight ventilation outlet, significantly improving the overall thermal balance of the forklift.
- The cast steering axle features kingpins with tapered roller bearings, enhancing the overall reliability of the forklift.
- The hydraulic pipeline layout has been optimized with increased pipe diameter, and 24° cone-seal fittings are used to reduce hydraulic leakage.

Safety

- The long wheelbase design provides better longitudinal stability and significantly improves load capacity at the same lifting height.
- Reducing the load on the rear axle extends the lifespan of the steering tires.
- The rear posts of the overhead guard are enlarged to ensure the safety of the driver.
- The wide-visibility mast features a mast with downward cushioning to reduce cargo impact noise.

Battery voltage/capacity	153.6V	
Capacity (Ah/5h)	4-St	5-5.5t
210	○	/
280	●	○
420	○	●
560	○	○

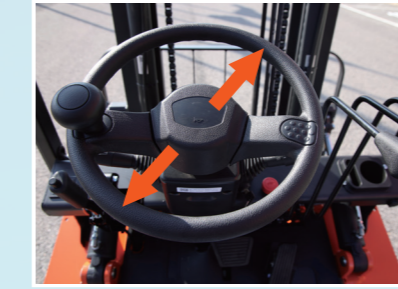
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Charger specification	CE 380V, Three-Phase, 32A, Industrial Power Plug		
Capacity (Ah/5h)	4-5.5t(100A)	4-5.5t(150A)	4-5.5t(200A)
210	○	/	/
280	○	●	/
420	○	●	○
560	○	●	○

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



Smart LCD Display.



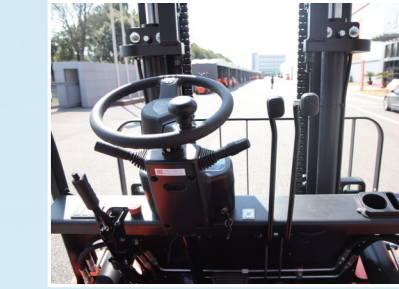
The use of a smaller diameter steering wheel reduces the fatigue for the operator.



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.



Anti-slip pedals and ergonomic layout for comfort.



The engine hood opens at an 80-degree angle.



Easy maintenance.



Heat sink net cover.

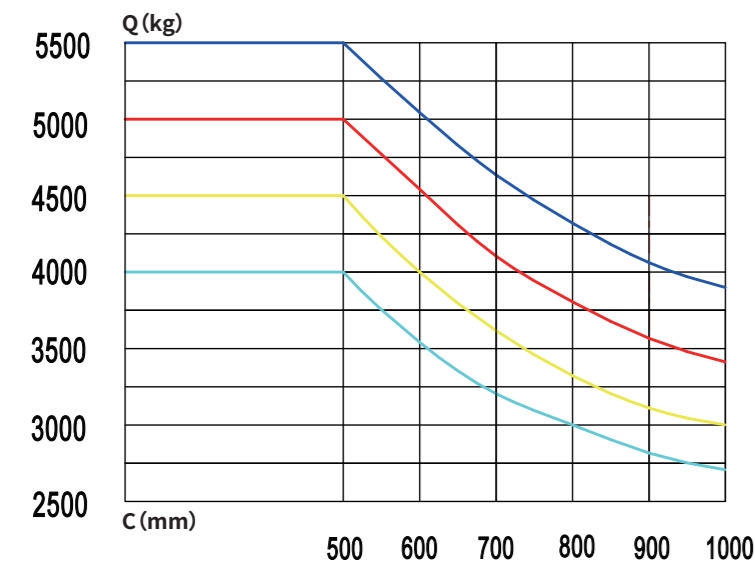
Standard configuration

- Load backrest
- 2-stage 3m Mast
- 1.37-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

Load curve diagram



NOBLELIFT CHINA

Address:528 Changzhou Road, Taihu Sub-district, Changxing, Zhejiang 313100 China
 Tel:86-572-6210817 6210311
 Fax:86-572-6210777 6128612
 Email: info@noblelift.com
 Http: www.noblelift.com www.noblelift.cn



Official website Our Wechat

All specifications and figures are subject to change without notice for improvement.

A series 4.0/4.5/5.0/5.5T Lithium Battery Forklift No.20250313

Identification	1.1	NOBLELIFT				
		1.2	CPD40-AJ2M	CPD45-AJ2M	CPD50-AJ2M	CPD55-AJ2M
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)	4000	4500	5000	5000
1.6	Load centre distance	c (mm)	500	500	500	600
1.8	Load distance,centre of drive axle to fork wheelbase	x (mm)	555	555	555	590
1.9		y (mm)	2100	2100	2100	2100
2.1	Service weight incl	kg	6450	6650	6900	7300
2.2	Axle loading ,laden front/rear	kg	9000/1450	9800/1350	10550/1350	11300/1500
2.3	Axle loading,unladen front/rear	kg	2950/3500	2950/3700	2950/3950	3100/4200
3.1	Type:solid rubber,superelastic,pneumatic,polyurethane	Pneumatic tire	Pneumatic tire	Pneumatic tire	Pneumatic tire	Pneumatic tire
3.2	Tyres size,front	8.25-15-14PR	300-15-18PR	300-15-18PR	300-15-18PR	300-15-18PR
3.3	Tyres size,rear	7.00-12-12PR	7.00-12-12PR	7.00-12-12PR	6.00-9-10PR	6.00-9-10PR
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)	1200	1200	1200	1200
3.7	Track width,rear	b11 (mm)	1210	1210	1210	1210
4.1	Mast/fork carriage tilt forward/backward	α/β(°)	6/12	6/12	6/12	10/10
4.2	lowered mast height	h1(mm)	2250	2250	2250	2250
4.3	Free lift	h2(mm)	150	150	150	150
4.4	Lift height	h3(mm)	3000	3000	3000	3000
4.4a	Lift height (Including cargo fork)	h23(mm)	3050	3050	3050	3050
4.5	Extended mast height	h4(mm)	4300	4300	4300	4300
4.7	Overhead load guardheight	h6(mm)	2250	2250	2250	2250
4.8	Seat height,standing height	h7(mm)	1000	1000	1000	1000
4.12	Coupling height	h10(mm)	390	390	390	390
4.19	Overall length (Including cargo fork)	l1(mm)	4605	4605	4605	4755
4.20	Overall length	l2(mm)	3235	3235	3235	3235
4.21	Overall width (Frame/tires)	b1(mm)	1480/1480	1480/1490	1480/1490	1480/1490
4.22	Fork dimensions	s/e/l(mm)	1370/150/50	1370/150/50	1370/150/50	1370/150/55
4.23	Fork mounting grade		3A	3A	3A	3A
4.24	Width of fork rack	b3(mm)	1380	1380	1380	1380
4.31	Ground clearance ,laden,under mast	m1(mm)	180	180	180	180
4.32	Ground clearance,centre of wheelbase	m2(mm)	235	235	235	235
4.34.1	Aisle width for pallets 1000×1200 crossways	Ast(mm)	4685	4685	4685	4685
4.34.2	Aisle width for pallets 800×1200 lengthways	Ast(mm)	4885	4885	4885	4885
4.35	Turning radius	Wa (mm)	2930	2930	2930	2930
4.36	Inside turning radius	b13(mm)	960	960	960	960
5.1	Travel speed,laden/unladen	km/h	18/19	18/19	18/19	18/18
5.2	Lift speed,laden/unladen	mm/s	450/500	430/500	410/500	400/500
5.3	lowering speed,laden/unladen	mm/s	400/420	400/420	400/420	400/420
5.6	Max.Drawbar pull ,laden/unladen	kN	26/18	26/18	26/18	26/18
5.7	Max.Gradient performance,laden/unladen	%	20/23	19/22	19/21	18/20
5.10	Service brake		Hydraulic	Hydraulic	Hydraulic	Hydraulic
5.11	Parking braking		Mechanical	Mechanical	Mechanical	Mechanical
6.1	Battery voltage/capacity	V/ah	153.6/280	153.6/280	153.6/280	153.6/280
7.2	Battery weight	kg	400	400	400	400
7.1	Drive motor power	kw	29	29	29	29
7.2	Lifting motor power	kw	34	34	34	24
7.3	Drive motor control mode		MOSFET/PM AC	MOSFET/PM AC	MOSFET/PM AC	MOSFET/PM AC
7.4	Lifting motor control mode		MOSFET/PM AC	MOSFET/PM AC	MOSFET/PM AC	MOSFET/PM AC
7.5	Controller type		ACM152C350	ACM152C350	ACM152C350	ACM152C350
10.1	Operating pressure for attachments	Mpa	21	21	21	21
10.2	Oil volume for attachments	L/min	60	60	60	60
10.4	Fuel tank volume	L	90	90	90	90
10.7	Driver's ear noise,According to EN 12053	dB	73	74	74	75
10.8	Traction pin specification DIN 151700		35	35	35	35

A series 4.0/4.5/5.0/5.5T Lithium Battery Forklift

Designation	Mast table	Lift height	Mast height				Free lift		Front overhang	Tilt angle forward/backward (°)	Load capacity							
			Closed mast height mm	Extended mast height		Without load backrest mm	With load backrest mm	Capacity table(kg) C=500mm without attachment										
				Without load backrest mm	With load backrest mm			Single tire			Dual tires							
Two-stage ZT	A40/45/50/M210	2100	1800	3010	3340	150	150	555	590	6/12	4000	4500	5000	5500	4000	4500	5000	5500
	A40/45/50/M250	2500	2000	3410	3740	150	150	555	590	6/12	4000	4500	5000	5500	4000	4500	5000	5500
	A40/45/50/M260	2600	2050	3510	3840	150	150	555	590	6/12	4000	4500	5000	5500	4000	4500	5000	5500
	A40/45/50/M270	2700	2100	3610	3940	150	150	555	590	6/12	4000	4500	5000	5500	4000	4500	5000	5500
	A40/45/50/M290	2900	2200	3810	4140	150	150	555	590	6/12	4000	4500	5000	5500	4000	4500	5000	5500
	A40/45/50/M300	3000	2250	3910	4240	150	150	555	590	6/12	4000	4500	5000	5500	4000	4500	5000	5500
	A40/45/50/M330	3300	2400	4210	4540	150	150	555	590	6/12	4000	4500	5000	5500	4000	4500	5000	5500
	A40/45/50/M350	3500	2500	4410	4740	150	150	555	590	6/12	4000	4500	5000	5500	4000	4500	5000	5500
	A40/45/50/M370	3700	2600	4610	4940	150	150	555	590	6/12	4000	4500	5000	5500	4000	4500	5000	5500
	A40/45/50/M375	3750	2625	4660	4990	150	150	555	590	6/12	4000	4500	5000	5500	4000	4500	5000	5500
	A40/45/50/M400	4000	2800	5010	5340	150	150	555	590	6/6	4000	4500	5000	5500	4000	4500	5000	5500
	A40/45/50/M425	4250	2925	5260	5590	150	150	555	590	6/6	3800	4300	3350	5500	4000	4500	5000	5500
A40/45/50/M450	4500	3050	5510	5840	150	150	555	590	6/6	3700	4200	3100	4800	4000	4500	5000	5500	
A40/45/50/M475	4750	3175	5760	6090	150	150	555	590	6/6	3700	4200	4500	4500	4000	4500	5000	5000	
A40/45/50/M480	4800	3200	5810	6140	150	150	555	590	6/6	3500	4000	4250	4500	3700	4200	4600	5000	
A40/45/50/M500	5000	3300	6010	6340	150	150	555	590	6/6	3500	4000	4250	4200	3700	4200	4600	4600	
A40/45/50/M550	5500	3550	6510	6840	150	150	555	590	6/6	2900	3200	3600	3900	3200	3600	3800	4200	
A40/45/50/M600	6000	3800	7010	7340	150	150	555	590	6/6	2600	3000	3300	3600	2900	3200	3600	3800	
A40/45/50/M650	6500	4150	7710	8040	150	150	555	590	3/6	2300	2700	3000	3300	2600	2900	3300	3600	
A40/45/50/M700	7000	4300	8010	8340	150	150	555	590	3/6	2000	2400	2700	3000	2300	2600	3000	3300	
Two-stage Full Free Lift	A40/45/50/U230	2300	1900	3214	3544	1144	744	555	560	6/12	4000	4500	5000	5500	4000	4500	5000	5500
	A40/45/50/U243	2430	1965	3365	3695	1230	830	555	560	6/12	4000	4500	5000	5500	4000	4500	5000	5500
	A40/45/50/U250	2500	2000	3415	3745	1245	845	555	560	6/12	4000	4500	5000	5500	4000	4500	5000	5500
	A40/45/50/U261	2610	2055	3525	3855	1300	900	555	560	6/12	4000	4500	5000	5500	4000	4500	5000	5500
	A40/45/50/U271	2710	2105	3625	3955	1350	950	555	560	6/12	4000	4500	5000	5500	4000	4500	5000	5500
	A40/45/50/U300	3000	2250	3915	4245	1495	1095	555	560	6/12	4000	4500	5000	5500	4000	4500	5000	5500
	A40/45/50/U330	3300	2400	4215	4545	1645	1245	555	560	6/12	4000	4500	5000	5500	4000	4500	5000	5500
	A40/45/50/U350	3500	2500	4415	4745	1745	1345	555	560	6/12	4000	4500	5000	5500	4000	4500	5000	5500
	A40/45/50/U375	3750	2625	4665	4995	1870	1470	555	560	6/12	4000	4500	5000	5500	4000	4500	5000	5500
	A40/45/50/U400	4000	2750	4915	5245	1995	1595	555	560	6/6	4000	4200	5000	5500	4000	4500	5000	5500
	A40/45/50/U450	4500	3000	5415	5746	2246	1846	555	560	6/6	3700	4500	4500	4800	4000	4500	5000	5500
	A40/45/50/U500	5000	3250	5916	6246	2495	2096	555	560	6/6	3200	3600	4000	4500	3400	4000	4200	4800
A40/45/50/U550	5500	3500	6416	6746	2746	2346	555	560	6/6	2900	3200	3600	3900	3200	3600	3800	4500	