LIFTRON
MATERIAL HANDLING

INTELLIGENT MANUFACTURING STRENGTH
TRANSPORTING THE FUTURE

LIFTRON MATERIAL HANDLING

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Due to continuous improvement of products, the actual products supplied may be different from those in this catalog. The right of interpretation rests with our company.

FORKLIFT

LITHIUM BATTERY COUNTERBALANCED FORKLIFT

GLOBAL INDUSTRIAL VEHICLE
INTELLIGENT MANUFACTURING



LIFTRON
MATERIAL HANDLING

www.liftronmh.com

GLOBAL INTELLIGENT MANUFACTURING



GLOBAL CENTER FOR R&D AND MANUFACTURING, XIAMEN, CHINA



VIETNAM FACTORY



U.S. HEADQUARTERS, CA



EAST U.S. OPERATIONS, FL



CENTRAL U.S. OPERATIONS, TX

About Liftron Material Handling

- Liftron is an international manufacturer specializing in lithium-powered electric forklifts and intelligent warehousing solutions. Headquartered in Xiamen, China, we combine advanced manufacturing, strong engineering capabilities, and a global mindset to support modern material handling operations worldwide.
- Powered by a dedicated in-house R&D team, Liftron develops reliable, efficient, and smart forklift solutions based on advanced lithium battery technology. Our products are designed to improve productivity, reduce operating costs, and support more sustainable logistics environments.

ISO CERTIFICATION

ECM CERTIFICATION

PATENT CERTIFICATES

1.62M
FACILITY

$150M
INVESTMENT

65
PATENTS

100,000+
INDUSTRIAL VEHICLES PRODUCED ANNUALLY

500M
ANNUAL SALES REVENUE



- To better serve global markets, Liftron operates three warehouses in the United States — in California, Texas, and Florida — and works with a worldwide dealer network to ensure fast delivery, localized support, and long-term partnership for customers around the world.

INTEGRATED INTELLIGENT LITHIUM SYSTEM



20 YEARS OF EXPERIENCE IN R&D, MANUFACTURING AND PRODUCTION

Independent R&D and in-house production across the entire lithiumbattery chain ensure stable performanceand more competitive pricing



CONVENIENT BATTERY SWAPPING WITH LARGE-CAPACITY LITHIUM BATTERIES

The 3-ton model is equipped with an 80V 640Ah battery, delivering up to 12 hours of operation on a single charge. It is designed to handle long, high intensity working conditions with ease, significantly improving overall operational efficiency.



OPERATING COSTS REDUCED BY 75%

Certified to ISO9001 and ECM standards, our forklifts are energy-efficient and environmentally friendly. Compared to traditional diesel forklifts, they offer significantly lower noise and vibration levels, helping businesses build a greener, low-carbon, and more modern operational system.



4000
CONTINUOUS CYCLE

93%
SYNCHRONOUS MOTOR EFFICIENCY

75%+
CAPACITY AFTER 5 YEARS OR 10,000 HOURS OF OPERATION

- Comprehensive operating costs are approximately 25% of those of fuel-powered vehicles.
- Low noise and minimal vibration for comfortable operation.
- Simple structure with low maintenance requirements.
- Zero emissions and eco-friendly.

LITHIUM BATTERY FORKLIFT

VS

- High fuel consumption, maintenance, and operating costs.
- Excessive noise and vibration, leading to increased operator fatigue.
- Complex maintenance with higher repair costs.
- Significant environmental impact, including noise, vibration, and harmful emissions

DIESEL FORKLIFT



INNOVATION DRIVES FUTURE



S SERIES

3-WHEEL ELECTRIC COUNTERBALANCE FORKLIFT (1.2-2T)

Excellent maneuverability and space efficiency for warehouses and confined working environments.

- CPD12S
- CPD16S
- CPD20S

DE SERIES

HIGH-EFFICIENCY STANDARD CONFIGURATION · PERFORMANCE FOR ANY JOB SITE (1.5–5T)

Flexible and compact, easily navigating narrow spaces. Stable, reliable, and smooth operation, making it the top choice for warehousing and daily material handling.

- CPD15
- CPD20
- CPD25
- CPD30
- CPD35
- CPD50

DL SERIES

THE LONG-WHEELBASE OFF-ROAD KING – BUILT FOR TOUGH JOB SITES (3–3.8T)

The extended wheelbase delivers outstanding off-road stability, allowing the vehicle to effortlessly handle uneven terrain.

- CPD30L
- CPD35L
- CPD38L

DD SERIES

HEAVY-DUTY POWER: BIG STRENGTH IN A COMPACT FOOTPRINT (4T)

The shorter wheelbase offers greater flexibility and is specifically designed for heavy-duty tasks in confined spaces. With a powerful 4-ton capacity, it offers agile turning and higher efficiency, making it a cost-effective choice for high-intensity operations.

- CPD40D

HIGH STANDARDS, EXCEPTIONAL QUALITY



0 PRICE INCREASE

POWER, COMFORT, SAFETY, INTELLIGENCE. OUR HIGH STANDARDS COME BUILT-IN, NEVER ADDED ON.

LUXURY SEATS



80V 210AH BATTERY



SOLID TIRES

WIRELESS SMARTPHONE CHARGING AND USB PORTS



COMFORTABLE GRIP HAND-BRAKE

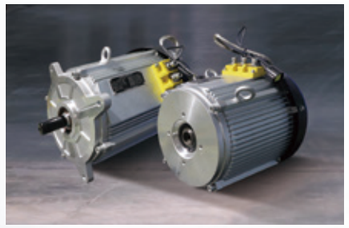


AUTOMOTIVE-STYLE TAILLIGHTS

CONFIGURATION INCLUDES A SAFETY WARNING HORN



CONFIGURATION INCLUDES A 9-INCH LARGE SCREEN WITH A REVERSING CAMERA



HIGH-EFFICIENCY PERMA-NENT MAGNET MOTOR INCREASES RANGE BY OVER 20%

ENGINEERED FOR COMPACT SPACES

3-WHEEL ELECTRIC COUNTERBALANCE FORKLIFT

Compact design. Agile maneuverability.
Efficient material handling.



AGILE MANEUVERABILITY

Designed for responsive turning and flexible movement in confined working areas.

SPACE-SAVING OPERATION

Navigate tight aisles and make more efficient use of available warehouse space.

FLEXIBLE LOAD HANDLING

Maneuver and position loads efficiently in compact storage areas and busy work zones.

IDEAL FOR INDOOR APPLICATIONS

A practical solution for warehouses, manufacturing facilities and logistics operations where space is limited.







HIGH EFFICIENCY & OPTIMAL PERFORMANCE

STABLE PERFORMANCE, EASY OPERATION, AND A COMPACT DESIGN FOR HIGHER EFFICIENCY IN CRITICAL TASKS.

MAXIMUM DRIVING SPEED
20 km/h

MAXIMUM GRADEABILITY
20%

EASY-TO-SWAP LITHIUM BATTERIES
CAPACITY UP TO
80V 640AH

ENERGY REDUCTION (PMSM)
20%









BOOM DIRECTION CONTROL

The ergonomically designed control lever provides a comfortable grip and intuitive operation, significantly enhancing work efficiency while reducing operator fatigue.

CURVE CONTROL 360°

Automatically limiting driving speed based on turning radius effectively reduces vehicle speed, enabling smooth and precise 360-degree steering operations and improving driving safety and comfort.

PERMANENT MAGNET SYNCHRONOUS MOTOR

Both the drive and pump motors feature advanced permanent magnet synchronous technology, providing outstanding driving power and lifting performance. They're built to be reliable, durable, efficient, and long-lasting—with minimal maintenance required.

PROVEN QUALITY · GUARANTEED SAFETY

EVERY DETAIL HAS BEEN METICULOUSLY DESIGNED TO ENHANCE OPERATIONAL SAFETY, COMFORT, AND WORK EFFICIENCY, HELPING YOU COMPLETE YOUR DAILY TASKS EFFICIENTLY.

FORK SAFETY FEATURES

During lowering, the descent-control valve maintains a smooth and steady fork speed, while the safety valve protects against unexpected fork drop in the event of hydraulic line damage.





BUMP TEST



TWIST ROAD TEST



DURABILITY TEST



GRADEABILITY TEST



UNATTENDED OPERATION TESTING



COMPONENT BENDING TEST



COMPONENT CONSTANT TEMPERATURE AND HUMIDITY TESTING



COMPONENT DURABILITY TESTING



SALT FOG TEST

PERFORMANCE

Series			DE SERIES						DL SERIES			DD SERIES	S SERIES		
Characteristics	Manufacturer		DELIFORK	DELIFORK	DELIFORK	DELIFORK	DELIFORK	DELIFORK	DELIFORK	DELIFORK	DELIFORK	DELIFORK	DELIFORK	DELIFORK	DELIFORK
	Model	Unit	CPD15	CPD20	CPD25	CPD30	CPD35	CPD50	CPD30L	CPD35L	CPD38L	CPD40D	CPD12S	CPD16S	CPD20S
	Power Type		Electric	Electric	Electric	Electric	Electric	Electric	Electric	Electric	Electric	Electric	Electric	Electric	Electric
	Operator Position		Seated Rider	Seated Rider	Seated Rider	Seated Rider	Seated Rider	Seated Rider	Seated Rider	Seated Rider	Seated Rider	Seated Rider	Seated Rider	Seated Rider	Seated Rider
	Load Capacity	Kg	1500	2000	2500	3000	3500	5000	3000	3500	3800	4000	1200	1600	2000
	Load Center	mm	500	500	500	500	500	500	500	500	500	500	400	400	500
	Load Distance (Centerline of Front Axle to Front Face of Forks)	mm	406	406	406	467	467	562	467	467	467	467	314	353	456
	Wheelbase	mm	1520	1520	1520	1650	1650	2000	1780	1780	1780	1780	1210	1300	1400
Weights	Total Weight	Kg	3300	3650	3800	4300	4700	6700	4280	4680	5180	5350	1930	2530	3470
	Laden Axle Load: Front / Rear	Kg	4220/580	4910/740	5570/730	6600/700	7510/690	10295/1405	6530/750	7500/680	7960/1020	8110/1250	2690/440	3420/710	4810/660
	Laden Axle Unload: Front / Rear	Kg	1060/2240	1260/2390	1350/2450	1880/2420	1900/2800	2345/4355	1850/2430	1920/2760	2020/3160	2020/3330	740/1190	950/1580	1250/2220
Dimensions	Tires: Solid rubber, Superelastic, Pneumatic, Polyurethane		SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE
	Tire Size, Front		7.00-12	7.00-12	7.00-12	28x9-15	28x9-15	300-15	28x9-15	28x9-15	28x9-15	250-15	4.00-8	18*7-8	200-50-10
	Tire Size, Rear		18x7-8	18x7-8	18x7-8	6.50-10	6.50-10	23×10-12	6.50-10	6.50-10	6.50-10	6.50-10	3.50-5	15*4 1/2-8	16*6-8
	Wheels, Number Front/Rear (x=Driven Wheels)		2x/2	2x/2	2x/2	2x/2	2x/2	2x/2	2x/2	2x/2	2x/2	2x/2	2x/2	2x/2	2x/2
	Track Width, Front	mm	982	982	982	1002	1002	1200	1002	1002	1002	1008	896	896	930
	Track Width, Rear	mm	958	958	958	982	982	1130	982	982	982	982	205	195	212
	Tilt Range (Forward / Backward)	(°)	6/12	6/12	6/12	6/12	6/12	6/12	6/12	6/12	6/12	6/12	6/10	6/10	6/10
	Mast Lowered Height Free Lift (Top of Forks)	mm	2015	2015	2015	2065	2065	2230	2065	2065	2065	2065	1987	1992	1978
	Free Lift (Top of Forks)	mm	150	150	150	160	160	120	160	160	160	160	0	0	60
	Lifting	mm	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000
	Mast Extended Height (Top of Load Backrest)	mm	4125	4125	4125	4255	4255	4050	4255	4255	4255	4255	3800	3800	4075
	Overhead Guard Height	mm	2090	2090	2090	2115	2115	2249	2115	2115	2115	2115	1966	1971	1981
	Seat/Stand-on Platform Height	mm	1100	1100	1100	1150	1150	1265	1150	1150	1150	1150	950	955	965
	Coupling Height	mm	490	490	490	480	480	420	480	480	480	480	480	485	495
	Length to Fork Face	mm	2472	2472	2472	2650	2650	3127	2840	2840	2840	2840	1635	1733	1900
	Overall Length	mm	3542	3542	3542	3720	3720	4510	4060	4060	4060	4060	2655	2660	3220
	Overall Width	mm	1160	1160	1160	1240	1240	1480	1240	1240	1270	1270	1080	1080	1140
	Fork Size (T × W × L)	mm	40x120x1070	40x120x1070	40x120x1070	45x120x1220	45x120x1220	50x150x1220	45x120x1220	45x125x1220	50x122x1220	50x122x1220	32x100x770	32x100x770	40x120x1070
	Fork Carriage to DIN 15173, Class/Type A, B		A	A	A	A	A	A	A	A	A	A	A	A	A
	Fork-Carriage Width	mm	1038	1038	1038	1100	1100	1420	1100	1100	1100	1100	980	980	1040
	Underclearance, Full load, Minimum (Mast)	mm	120	120	120	120	120	150	120	120	120	120	98	103	88
	Underclearance, Full Load, Center of Wheelbase	mm	125	125	125	140	140	160	140	140	140	140	111	116	126
	Basic Right Angle Stacking Aisle Width, 1000x1200 Across Forks	mm	3879	3879	3879	4085	4085	4592	4204	4204	4204	4204	3264	3323	3608
	Basic Right Angle Stacking Aisle Width, 800x1200 along ForksTurning Radius Turning Radius	mm	4079	4079	4079	4285	4285	4792	4404	4404	4404	4404	3464	3523	3808
	Turning Radius	mm	2273	2273	2273	2418	2418	2830	2537	2537	2537	2537	1750	1770	1952
	Minimum Pivoting Point Distance	mm	808	808	808	764	764	1015	880	880	880	880	500	500	550
Performances	Travel Speed, Full Load/No Load	km/h	12.5/14	12.5/14	12.5/14	12.5/14	12.5/14	12.5/14	12.5/14	12.5/14	12.5/14	12.5/14	10/12	10/12	10/12
	Lifting Speed, Full Load/No Load	mm/s	280/350	280/350	280/350	300/380	300/380	280/350	300/380	300/380	300/380	260/390	260/330	260/330	260/350
	Lowering Speed, Full Load/No Load	mm/s	430/400	430/400	450/400	420/390	420/390	430/390	420/390	420/390	415/380	415/380	430/400	420/390	430/390
	Max. Drawbar Pull, Full Load/No Load	%	15/20	15/20	15/20	15/20	15/20	15/20	15/20	15/20	15/20	15/20	10/15	10/15	10/15
	Service Brake		Hydraulic												
	Parking Brake		Mechanical												
	Max traction force (5Min)	KN	8	8	8	12.5	12.5	25	12.5	12.5	16	20	4.5	5	6
Drive	Drive Motor, S2 60 Min Duty Cycle	kw	10.2	10.2	10.2	15.2	15.2	26.2	15.2	15.2	17.2	17.2	6.3	6.3	10.2
	Lifting Motor, S3 15% Duty Cycle	kw	15.2	15.2	15.2	24.2	24.2	31.2	24.2	24.2	24.2	24.2	8.2	8.2	12.2
	Battery Capacity	v/ah	80/210	80/210	80/210	80/210	80/210	80/420	80/210	80/210	80/320	80/320	80/105	80/105	80/105
Others	Attachment Relief Pressure Setting	MPa	18	18	18	18	18	18	18	18	18	18	18	18	18

COLOR OPTION



● Orange-red



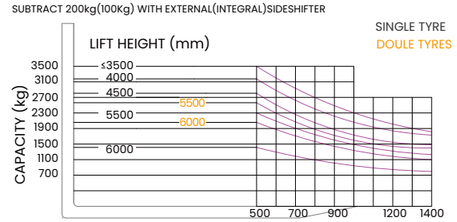
● Blue

OPTIONAL

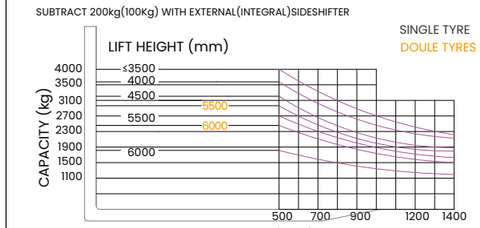
● Standard configuration, ○ Optional

Full series		CPD15	CPD20	CPD25	CPD30	CPD35	CPD50	CPD30L	CPD35L	CPD38L	CPD40D	CPD12S	CPD16S	CPD20S
tire	pneumatic tire	○	○	○	○	○	○	○	○	○	○			
	solid tire	●	●	●	●	●	●	●	●	●	●	●	●	●
	eco-friendly tires	○	○	○	○	○	○	○	○	○	○	○	○	○
Seats	Luxury seats	●	●	●	●	●	●	●	●	●	●	●	●	●
control valve	Two-way valve	●	●	●	●	●	●	●	●	●	●	●	●	●
	Three-way valve	○	○	○	○	○	○	○	○	○	○	○	○	○
	Four-way valve	○	○	○	○	○	○	○	○	○	○	○	○	○
gantry	Standard Level 2, 3m	●	●	●	●	●	●	●	●	●	●	●	●	●
	Standard Level 2, 3.5m	○	○	○	○	○	○	○	○	○	○	○	○	○
	Standard Level 2, 4m	○	○	○	○	○	○	○	○	○	○	○	○	○
	Standard 2 Level 4.5m	○	○	○	○	○	○	○	○	○	○	●	●	●
	Standard Level 2, 5m	○	○	○	○	○	○	○	○	○	○			
	Level 2 Full Freedom	○	○	○	○	○	○	○	○	○	○	○	○	○
	Grade 3 Full Free 4.5m	○	○	○	○	○	○	○	○	○	○	○	○	○
	3-level full freedom 5m	○	○	○	○	○	○	○	○	○	○			
	Grade 3 Full Free 5.5m	○	○	○	○	○	○	○	○	○	○			
	Grade 3 Full Freedom 6m	○	○	○	○	○	○	○	○	○	○			
Forklift	920mm	○	○	○	○	○	○	○	○	○	○	●	●	●
	1070mm	○	○	○	○	○	○	○	○	○	○	○	○	○
	No forklift required	○	○	○	○	○	○	○	○	○	○	○	○	○
	1220mm	●	●	●	●	●	●	●	●	●	●	○	○	○
	1370mm	○	○	○	○	○	○	○	○	○	○	○	○	○
	1520mm	○	○	○	○	○	○	○	○	○	○	○	○	○
	1670mm	○	○	○	○	○	○	○	○	○	○	○	○	○
	1820mm	○	○	○	○	○	○	○	○	○	○	○	○	○
	2000mm	○	○	○	○	○	○	○	○	○	○	○	○	○
lamp	Standard lighting (front and rear combined lights)	●	●	●	●	●	●	●	●	●	●	●	●	●
	Strobe Warning Light (Yellow)	○	○	○	○	○	○	○	○	○	○	○	○	○
	Rear light	●	●	●	●	●	●	●	●	●	●	●	●	●
	Three-sided blue light	○	○	○	○	○	○	○	○	○	○	○	○	○
Cockpit	Standard roof guard	●	●	●	●	●	●	●	●	●	●	●	●	●
motor	Double 14	●	●	●	●	●	●	●	●	●	●	●	●	●
	Double 18	○	○	○	○	○	○	○	○	○	○	●	●	●
Battery	80V105AH	○	○	○	○	○	○	○	○	○	○	●	●	●
	80V165AH	○	○	○	○	○	○	○	○	○	○	○	○	○
	80V210AH	●	●	●	●	●	○	●	●	○	○	○	○	○
	80V320AH	○	○	○	○	○	○	○	○	●	●			○
	80V420AH	○	○	○	○	○	●	○	○	○	○			
	80V640AH	○	○	○	○	○	○	○	○	○	○			
charger	20A	○	○	○	○	○	○	○	○	○	○	●	●	●
	65A	●	●	●	●	●	●	●	●	●	●	○	○	○
	100A	○	○	○	○	○	○	○	○	○	○	○	○	○
	200A	○	○	○	○	○	○	○	○	○	○	○	○	○
Usage Environment	Charge and Discharge Heating System	○	○	○	○	○	○	○	○	○	○	○	○	○
	Cold storage vehicle	○	○	○	○	○	○	○	○	○	○	○	○	○
attachments	Lateral displacement of the external support	○	○	○	○	○	○	○	○	○	○	○	○	○
	Adjustable distance fork	○	○	○	○	○	○	○	○	○	○	○	○	○

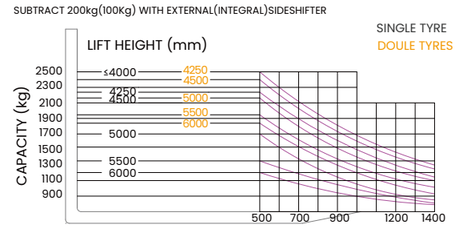
CAPACITY CHART



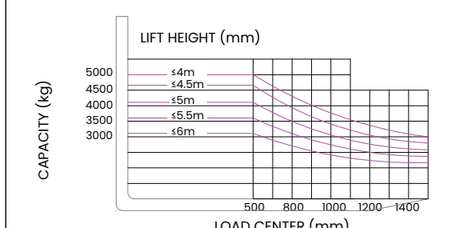
CAPACITY CHART



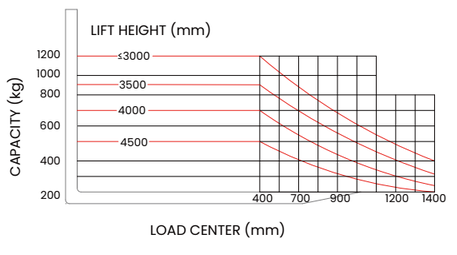
CAPACITY CHART



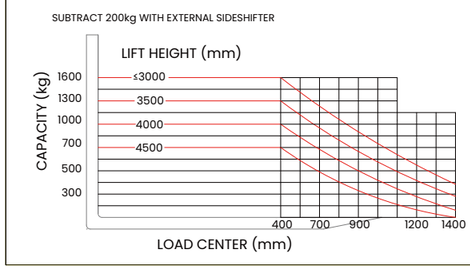
CAPACITY CHART



CAPACITY CHART



CAPACITY CHART



CAPACITY CHART

