

Standard configuration	Optional
Continuously variable transmission system	Cab
4.3 inch LCD color screen intelligent instrument	Air conditioner(certain type)
Operator-presence control system (OPS)	Heater
USB interface	Front/Overhead /Rear windshield
Comfortable seat	Lifting valve stem horn button
Protection net of exhaust	Fire extinguisher
Adjustable steering wheel	Fan
Reversing handle (with horn)	Fork extension
Control valve	Solid tyre
Back view mirror	Widen fork arm carrier
Handle ball steering wheel	Protection net of overhead guard
Protection for steering cylinder	Lifting slings
Front combined lamp	Optional attachments
Rear combined lamp	Main switch
Backward buzzer	Rear working light
Backrest	Warning light
Driver's tool	Reversing voice speaker
Standard fork	Universal key
Integrated electric box	Synchronized steering
Wide view mast	Rear view camera
Durable tread tyre	Tachograph
Tilt oil circuit self lock valve	Red/blue warning light
Flow regulator	Finger tip operation system
Traction pin	Overspeed alarm
Starting through card (National IV model)	Speed limit function
Visualized reminder for electrical appliances	Starting through card or face recognition
	Internet of vehicle
	HELI active stability safety control system
	HELI Anti-collision intelligent warning system
	HELI visual warning system
	HELI smart fleet management system
	Weighing system

CPD 20/25/30/35
D11LIG2-P



1.1 TON 2-3.5 t

G2 Series Lithium-Ion Battery-Powered
Counterbalanced Forklift Trucks



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Linked in



YouTube

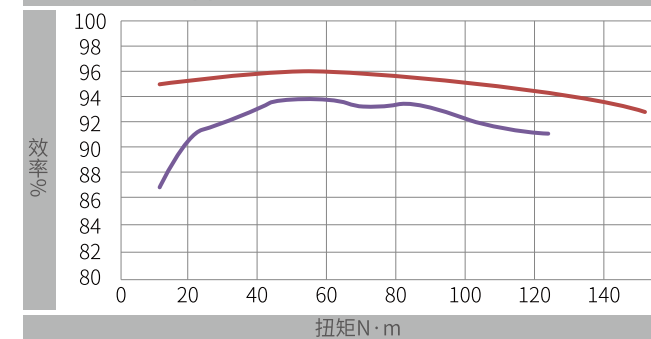


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Powerful Performance High Efficiency & Energy Savings

- Voltage increased from 80V to 115.2V, reducing motor and controller current while significantly improving overall energy efficiency.
- EV-grade permanent magnet synchronous motors (PMSM), lighter in weight compared to induction motors of the same performance, with notably higher overall efficiency.
- Standard load-sensing system prioritizes steering, saving 5% energy.

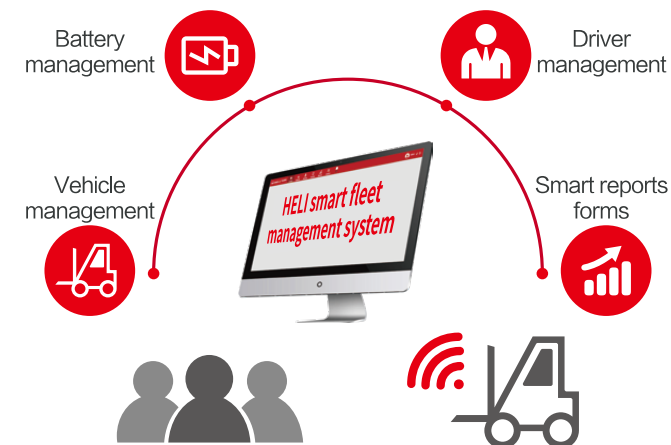
效率曲线对比图



— Induction motor flat-ground travel efficiency

— Permanent magnet synchronous motor flat-ground travel efficiency

Integrated Powertrain System reduces wiring connections, significantly lowering energy transmission loss. Modular design for components and controls ensures easy maintenance.



HELI smart fleet management system

Vehicle positioning

Statistical form

Remote diagnosis

Vehicle management

Remote monitoring

Identification recognition (optional)

Maintenance reminder

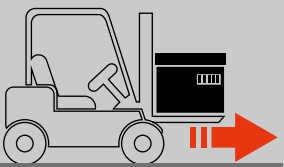
Weight management (optional)

Battery management

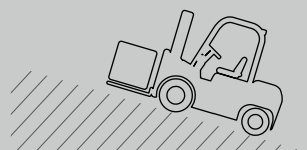
Collision management (optional)



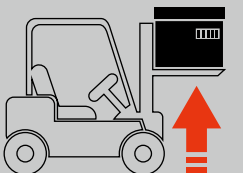
Travel Speed: **20** km/h



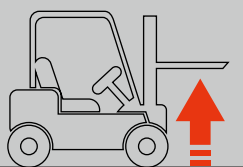
Loaded 10m Acceleration Time:
Reduced by **20%** (under full load)



Max Gradeability
(Full Load): **20%**



Lifting Speed (Full Load,
3t model): **490** mm/s



Lifting Speed (No Load,
3t model): **610** mm/s



Multi-stage performance modes for flexible operation in complex working conditions.

**LIMITLESS PERFORMANCE
POWERFUL AND EFFICIENT**

Intelligent Safety & Full Protection



Color Display Panel: Comprehensive vehicle data visualization with real-time alerts for easy operation.



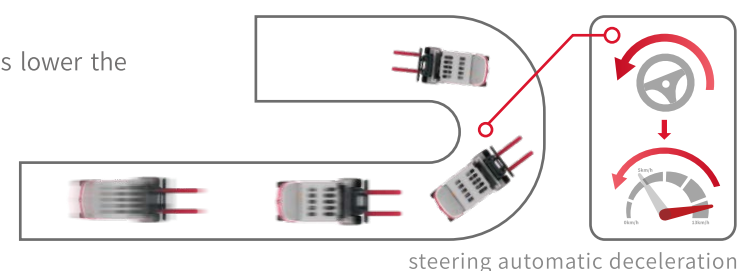
Standard High-Efficiency Liquid Cooling System: Meets automotive S1 duty cycle requirements for continuous operation.



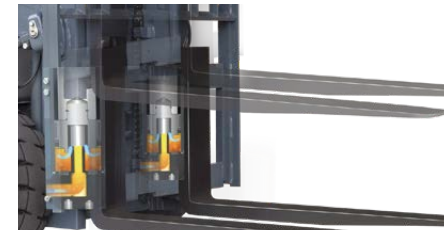
Triple-Layer Insulation Monitoring:
Battery Management System (BMS) with Integrated Insulation Monitoring, Drive Motor Controller with Insulation Monitoring, Hydraulic Pump Controller with Insulation Monitoring
System-Level High-Voltage Safety Protection:
Integrated & Minimized High-Voltage Wiring Design
Multi-Layer Insulation Monitoring & Protection



- **steering deceleration function:**
Optional automatic speed reduction on curves helps lower the risk of rollover.



Smart Comfort, Human-Centric Design



The lifting system has been buffered and upgraded to reduce operational impact, providing a comfortable and safe experience.



Tilting cylinder retraction: Expands floor space, enhancing legroom.



A small diameter steering wheel



Charging Port



Automotive integrated handles



Wide-view Mast: Optimized design minimizes blind spots for safer and more comfortable operation.

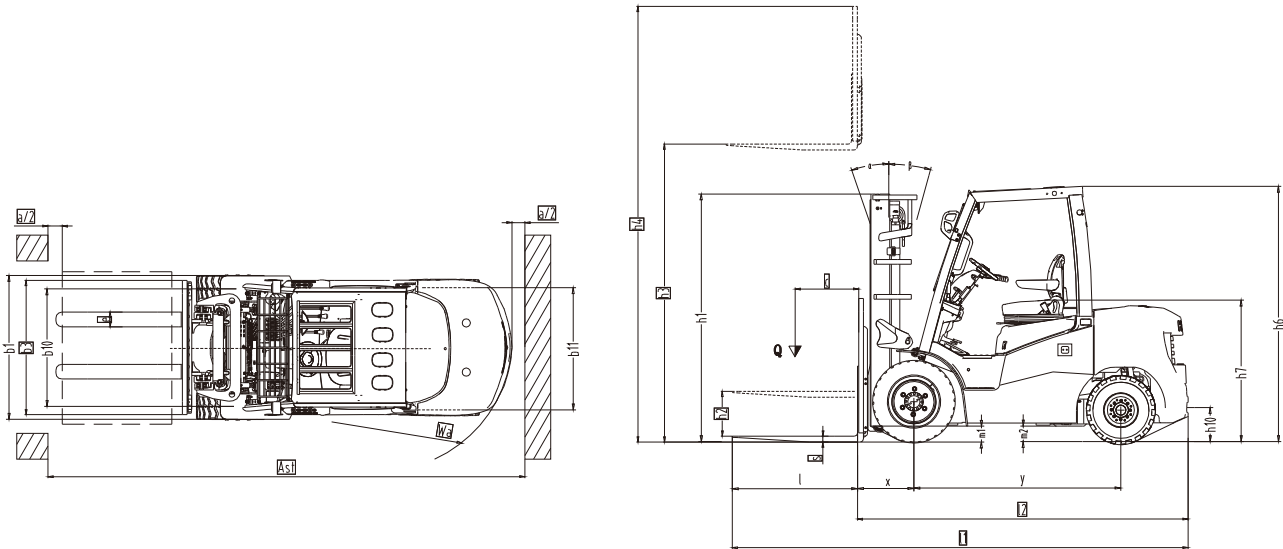
Centralized Maintenance – Quick and Convenient

- Ergonomically designed 80° opening angle meets ISO 15870 maintenance accessibility standards.
- Walk-in serviceability – Ample room for tools and hands to work without disassembly
- Modular design of powertrain and electrical systems: simplifies maintenance and reduces operating costs.

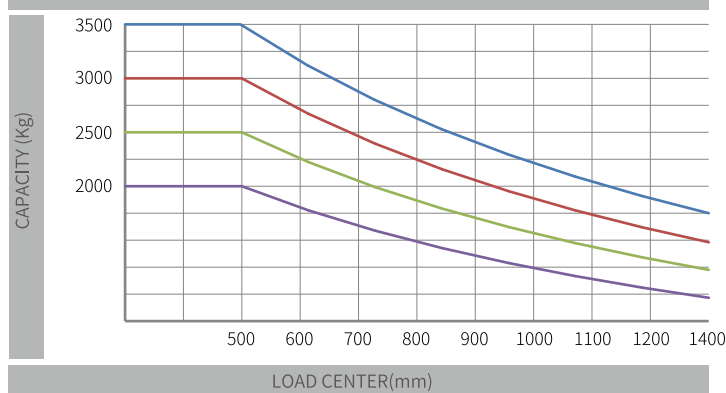


MANUFACTRER AND TECHNICAL DATA

Identification						
1.1	Manufacturer			HELI		
1.2	Power Model			CPD20-D11LIG2-P	CPD25-D11LIG2-P	CPD30-D11LIG2-P
1.3	Drive			Lithium battery		
1.4	Operator type			Seated		
1.5	Rated capacity/rated load	Q	kg	2000	2500	3000
1.6	Load centre distance	c	mm	500	500	500
1.7	Load distance, centre of drive axle to fork	x	mm	462	462	477
1.8	Wheelbase	y	mm	1720	1720	1770
Weights						
2.1	Service weight (with/without battery)		kg	3480/3240	3900/3660	4470/4230
2.2	Axle loading, laden front/rear		kg	4710/770	5580/820	6520/950
2.3	Axle loading, unladen front/rear		kg	1335/2145	1635/2265	1685/2785
Wheels / chassis						
3.1	Tyres: solid rubber, superelastic, pneumatic, polyurethane			Pneumatc tyre		
3.2	Tyre size, front			7.00-12-12PR	7.00-12-12PR	28*9-15-14PR
3.3	Tyre size, rear			6.00-9-10PR	6.00-9-10PR	6.50-10-10PR
3.4	Wheels, number front/rear (x = driven wheels)			2x/2	2x/2	2x/2
3.5	Tread, front	b10	mm	970	970	1000
3.6	Tread, rear	b11	mm	970	970	970
Dimensions						
4.1	Tilt of mast/fork carriage forward/backward	α /β	°	6/12	6/12	6/12
4.2	Height, mast lowered	h1	mm	2000	2000	2070
4.3	Free lift	h2	mm	150	150	155
4.4	Lift	h3	mm	3000	3000	3000
4.5	Height, mast extended	h4	mm	4030	4030	4217
4.6	Height of overhead guard	h6	mm	2210	2210	2230
4.7	Seat height/stand height	h7	mm	1030	1030	1125
4.8	Coupling height	h10	mm	275	275	295
4.9	Overall length	l1	mm	3510	3745	3870
4.10	Length to face of forks	l2	mm	2590	2675	2800
4.11	Overall width	b1	mm	1160	1160	1225
4.12	Fork dimensions ISO 2331	s/e/l	mm	40/122/920	40/122/1070	45/125/1070
4.13	Fork carriage ISO 2328, class/type A, B			IIA	IIA	IIIA
4.14	Fork-carriage width	b3	mm	1038	1038	1100
4.15	Ground clearance, laden, below mast	m1	mm	115	115	135
4.16	Ground clearance, centre of wheelbase	m2	mm	115	115	135
4.17	Aisle width for pallets 1000 × 1200 crossways	Ast	mm	3880	3960	4070
4.18	Aisle width for pallets 800 × 1200 crossways	Ast	mm	4080	4160	4270
4.19	Turning radius	Wa	mm	2220	2300	2400
Performance data						
5.01	Travel speed, laden/unladen		km/h	20/20	20/20	
5.02	Lift speed, laden/unladen		mm/s	530/630	490/610	430/540
5.03	Lowering speed, lade/unladen		mm/s	450/500		
5.04	Max. drawbar pull, laden/unladen		KN	16/12	16/12	15/13
5.05	Max. gradeability, laden/unladen1)		%	30/20	25/20	20/23
Battery						
6.01	Battery voltage/Capacity (standard/option)		V/Ah	Standard :115.2v/230ah, Option:115.2v/280ah / 115.2v/346ah		
6.02	Battery weights		kg	240/350		
Motor And Controller						
7.01	Driving motor powering (S9)			20kw		
7.02	Lifting motor powering (S9)			20kw		
7.03	Driving motor controlling mode			MOS/AC		
7.04	Lifting motor controlling mode			MOS/AC		
Others						
8.1	Operating pressure for attachments		bar	140	140	140
8.2	Oil volume for attachments		L/min	55	55	64



Load curve



— CPD35
— CPD30
— CPD25
— CPD20

Note: The vertical axis stands for load capacity while the horizontal axis stands for load center which is calculated from the front surface of the forks to the gravity of the standard load. the standard load means a cubic with 1000mm edge length. When the mast is tilted forward, The worker using nonstandard forks for loading large goods, the load capacity will be reduced. The load capacity of standard mast at different load center can be known from this load chart.

WIDE VIEW MAST

Mast model	Max.lifting height (mm)	Load capacity(loder center 500mm) (kg)				Mast height (mm)			Mast tilt angle Front/Rear	Service weight (kg)			
		2t	2.5t	3t	3.5t	2-2.5t	3t	3.5t		2t	2.5t	3t	3.5t
M300	3000	2000 2000*	2500 2500*	3000 3000*	3500 3500*	2000	2070	2120	6-12	3475	3900	4470	4820
M330	3300	2000 2000*	2500 2500*	3000 3000*	3500 3500*	2150	2220	2270	6-12	3505	3926	4495	4850
M350	3500	2000 2000*	2500 2500*	3000 3000*	3500 3500*	2250	2320	2370	6-12	3523	3943	4513	4869
M370	3700	2000 2000*	2500 2500*	3000 3000*	3500 3500*	2350	2420	2470	6-12	3540	3961	4531	4888
M400	4000	2000 2000*	2500 2500*	3000 3000*	3500 3500*	2550	2620	2670	6-12	3614	4034	4605	4965
M450	4500	1950 2000*	2300 2450*	3000 3000*	3500 3500*	2800	2870	2920	*6-6 *6-6	3657	4077	4650	5013
M500	5000	1800 1950*	1850 2400*	2700 3000*	3300 3400*	3050	3120	3170	*6-6 *6-6	3700	4121	4695	5061
M550	5500	1850*	2300*	2750*	2950*	3350	3420	3470	*3-6	3791	4212	4787	5156
M600	6000	1650*	1850*	2250*	2450*	3600	3670	3720	*3-6	3834	4255	4832	5204

Note: ① * stands for rated capacity for trucks with dual front tyre; ② When trucks with dual front tyre, the service weight is the data in the table plus 110kg.

WIDE VIEW FULL FREE 2-STAGE MAST

Mast model	Max.lifting height (mm)	Load capacity(loder center 500mm) (kg)				Mast height (mm)			Free lift (with backrest)(mm)			Mast tilt angle Front/Rear	Service weight (kg)			
		2t	2.5t	3t	3.5t	2-2.5t	3t	3.5t	2-2.5t	3t	3.5t		2t	2.5t	3t	3.5t
ZM300	3000	2000 2000*	2500 2500*	3000 3000*	3500 3500*	2000	2070	2120	991	888	943	6-12	3504	3930	4562	4893
ZM330	3300	2000 2000*	2500 2500*	3000 3000*	3500 3500*	2150	2220	2270	1141	1038	1093	6-12	3534	3960	4594	4925
ZM350	3500	2000 2000*	2500 2500*	3000 3000*	3500 3500*	2250	2320	2370	1241	1138	1193	6-12	3552	3978	4614	4945
ZM370	3700	2000 2000*	2500 2500*	3000 3000*	3500 3500*	2350	2420	2470	1341	1238	1293	6-12	3572	3998	4634	4965
ZM400	4000	2000 2000*	2500 2500*	3000 3000*	3500 3500*	2550	2620	2670	1541	1438	1493	6-12	3648	4074	4712	5043

Note: ① * stands for rated capacity for trucks with dual front tyre; ② When trucks with dual front tyre, the service weight is the data in the table plus 110kg.

WIDE VIEW FULL FREE 3-STAGE MAST

Mast model	Max.lifting height (mm)	Load capacity(loder center 500mm) (kg)				Mast height (mm)			Free lift (with backrest)(mm)			Mast tilt angle Front/Rear	Service weight (kg)			
		2t	2.5t	3t	3.5t	2-2.5t	3t	3.5t	2-2.5t	3t	3.5t		2t	2.5t	3t	3.5t
ZSM435	4350	2000 2000*	2500 2500*	3000 3000*	3500 3500*	2050	2120	2120	1041	938	943	6-6	3686	4112	4694	5011
ZSM450	4500	2000 2000*	2500 2500*	3000 3000*	3500 3500*	2100	2170	2170	1091	988	993	6-6	3700	4126	4707	5024
ZSM470	4700	1900 2000*	2200 2500*	3000 3000*	3400 3500*	2165	2230	2230	1156	1048	1053	6-6	3718	4143	4724	5041
ZSM500	5000	1700 2000*	1750 2400*	2700 2950*	3100 3300*	2300	2370	2370	1291	1188	1193	6-6	3753	4179	4759	5076
ZSM540	5400	1450 1900*	1500 2200*	2300 2800*	2650 3150*	2400	2470	2470	1391	1288	1293	6-6	3783	4208	4788	5105
ZSM600	6000	950 1650*	1000 1800*	1550 2150*	1900 2450*	2600	2670	2670	1591	1488	1493	6-6	3884	4310	4889	5206
ZSM650	6500	1600*	1650*	1800*	2000*	2800	2870	2870	1791	1688	1693	3-3	3937	4363	4941	5258
ZSM700	7000	1250*	1300*	1400*	1500*	2975	3045	3045	1966	1863	1868	3-3	3985	4411	4988	5305

Note: ① * stands for rated capacity for trucks with dual front tyre; ② When trucks with dual front tyre, the service weight is the data in the table plus 110kg.