Control (*DC*)

Separately Excited Motor (SEM) is a new type of DC motor where the field motor coil and armature receive power independently. This greatly improves motor performance providing increased acceleration and top speeds and reduced brush wear. One of the key benefits of Separately Excited Motor (SEM) is that in enables a significant amount of vehicular kinetic energy which is normally wasted during mechanical braking to be fed back to the battery, hence enhancing battery life. This regenerative braking is activated whenever accelerator pedal is released, The programmable controller represents the next level in drive system and is designed to provide smooth, silent, efficient and cost effective speed control. Output voltage at armature and current in field winding of the motor are controlled by varying switching frequency of MOSFETS. An infinitely variable speed can be obtained by throttle potentiometer.





MOSFET Electric Controller (*DC*)

We applied advanced GE U.S. MOSFET electronic controller on our CPD series electric forklift truck, It has very small voltage loss and higher efficiency; which consider stepless stable movement, speed and safe. Economical operation due to high working performance.



The management of apitiude power, in any conditions of operation, gurantee the best electric supply status, keep the performanace of forklift and accumulator balanced, this controller still provide 3 mode of power management:

1) Economic mode

qualified the performance of accumulator control the limited performance of forklift 2)Standerd mode

balanced the performance of accumulator and forklift

3)Qualified mode

qualified the performance of forklift control the limited performance of accumulator

CPD/CPD-J series is adopted a new type of integrated steering unit with the load sensing, eliminate the steering motor and steering pump, achieved hydraulic system driven by only single pump. This series is adopted the excellent performance DC motor and the low noise pump, it is remarkably decrease noise of the driving and lifting, and the truck is more green to environment.

Reliable Plugs and Switches

CPD10-30 series has been effectively considered the circumstances of users operation at the beginning of products design and the important plugs and switches all have measures of protection, all the subassemblies have been past the check strictly, and the very important parts and subassemblies also have been past the fatigue and lasting experiments, Ultimately every truck has been past the performance-examine strictly.



Prefessional qulity, with long life design, robust and reliable.



SME twin AC motor, Italy (*AC*)

The incorporation of SME developed components, including finely engineered helical gears, assures low noise, high quality and a longer service life. the front driving tyres with double motor which are two high performance, low noise, 3-way AC motors. Driving system is with strong traction and driving edit function. flexible driving, available to stop on the ramp when full load.

The advantages is with strong traction and acceleration from zero to Max. speed with the control of apititude moment and speed. It with high speed when straight going and transfer to lower speed automatic when turning.

Standard Equipment

- MOSFET controller
- Standard fork
- Standard seat
- Cargo protecting shelf
- Backup light
- Backup buzzer
- Backup mirror
- Lighting switches
- Lighting shield
- Electronic horn
- Double piece multiple-way valve

Optional Attachments

Fork extension sleeves

Sleeve-in drum gripper

Load stabilizer(with side shift)

Hinged forks, bucket

Paper roll clamp

 Carton clamp Rotating forks Multiple drum clamp

 Load push pull Baked block clamp Crane arm Ram

Wide view 2-stage full free masts

Wide view 3-stage full free masts

Direction switches

Wide carriage

Long forks

Side shift

Load grad

- Backup light set Durable tire with pattern
- Hour meter

- Idle shift indicator
 - High visibility mast

 - Guy cable parking brake Lift-leaning joy stick
 - Lifting speed limiting valve
 - Towing pin
 - Front spotlight
 - Lean and adjustable steeling wheel
 - Tilt oilway lockvalve
 - Hydraulic turning
 - o Top ventilation device
 - Jov stick
 - Hand brake
 - Water temperature meter Tool kits

- Top-front light
- Rubber footplate mat
- Accumulator pile
- LCD cluster gauge
- Hydraulic oil-return filtration core
- Hydraulic oil-collection filtration core
- Hydraulic oil-collection staff guage Key switch
- Detent
- Turning light
- Emergency disconnect switch
- Rubber floor mat
- Locked spring gas
- Adjustable steering controlled
- Toolbox and file folder













Optional Equipment and Accessories

- Front dual wheels and fender extension
- Solid tires
- All weather steel cabin
- Heater for steel cabin Color tire(white,green)
- Power brake
- Smoke reduction/spark arrester muffler
- Fire extinguisher

- Rear working light
- Custom colorpaint
- Auxiliary piping
- Auxiliary hydraulic valve modules Non-slip differential
- Overhead exhaust
- Headquard canvas
- 3-Fulcrums

Fork Standard

Standard Equipment L x W x T mm	Width W mm	Thickness T mm					Length L mm					Suitable Forklift
920×100×35	100	35	770	*920	1070	1220	1370	1520	1670	1820	1970	1.0~1.5T
1070×125×40	125	40	770	920	*1070	1220	1370	1520	1670	1820	1970	2.0T
1150×125×45	125	45	770	920	*1070	1220	1370	1520	1670	1820	1970	2.5~3.0T





Electric Forklift

ISO9001



SINOLIFT MATERIAL HANDLING EQUIPMENT CORP.

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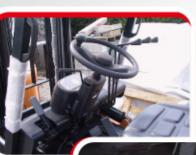
1~3T Electric Balance Weight Forklift Truck

- Arc streamline body, beautiful, wide visual view, low center of gravity, safety and high reliability.
- o DC series with electric control system produced by American GE company, characterized by stepless speed adjustment, safety, reliability, electricity saving, sensitive, small heating and high efficiency, having function of brake regeneration, heat protection, too low battery capacity protection and instrument automatic testing trouble.
- Comparing with DC Motors, the AC motors provide operator with more smooth, sensitive and quicker response of operation. No more maintenance for AC motors, which can extend the service life of the motors.
- Electric control system is fitted inside the balance weight, good heat conduction efficiency, portable opening of back cover, easy to maintenance and service.
- Fully imported dua pedal accelerator, small and flexible steering wheel, big capacity battery and rubber handle.
- The lifting motor is arranged in the side of the frame, easy to maintenance and sevice.
- Adjustable driver's parts meet requirement of the human body engineering, low noise, no pollution and environmental protec-

Features:

Flexibility, Quiet, Easy to drive, Efficently

- Multimode operation: -Tortoise-For moving in constrained spacer. -Hare- For long distance traveling.
- Regenerative braking:-a)enhances life of brake shoe liners. -b) enhances period between consecutive battery charges.
- Easy trouble shooting with built-in diagnostics
- Programmable truck characteristics to suit operating requirements
- Lesser maintenance due to fewer componentsy



We use scientific ergonomic method to design those forklift truck, The operation space has been efficiently enlarged. The rough feeling of the driver has been reduced to the lowest extends.



ligh Capacity Battery

Bacause you open and close the battery cover for daily checkup, access of battery cover is improved by using gas-spring with lock function. Quick and easy battery change due to tilt-



It has minibus turning radius, safe and reliable, and easy to install, with a service lift, It's not necessary to adjust the right and left steering angles, It uses tapered roller bearings to minimize play, extend durability, and reduce friction, Grease fittings are easily accessible for quick maintenance. In our new AC system electric forklift, we use the turning angle sensor makes the truck travel smoothly and safely when



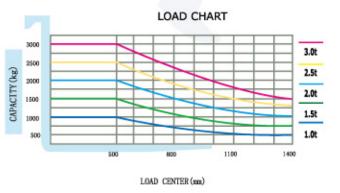
Import multifunction LCD instrument

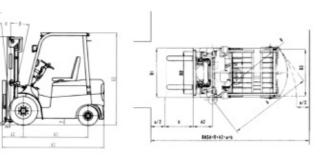
The new multi-functional LCD dash board provides more information for operator, this LCD instrument is also waterproof and vibration-proof.

■ CPD/CPD-J Series 1.0T-3.0T Battery Forklift Specifications

<u> </u>	Manufacturer								SINOL	IFT					
i i	4odel .						CPD10	CPD15	CPD20	CPD25	CPD30	CPD15J	CPD20J	CPD25J	CPD30J
General 18 W	Power type						Battery	Battery	Battery	Battery	Battery		Bat	tery	
9 R	Rated capacity					kg	1000	1500	2000	2500	3000	1500	2000	2500	3000
L	oad center					mm	500	500	500	500	500	500	500	500	500
L	.ift height				Н	mm	3000	3000	3000	3000	3000	3000	3000	3000	3000
-	ree lift				Е	mm	164	164	140	140	145	162	140	140	145
_	Fork size					mm	920×120×40	920×120×40	1070×122×40		1070×125×45		1070×120×40		1070×125×45
	Fork outside sp					mm	200/950	200/950	240/1020	240/1020	260/1100	200/980	240/1020	240/1020	260/1100
	Mast tilt angle ((forward/bad	ckward)		α/β	deg	6/12	6/12	6/12	6/12	6/10	6/12	6/10	6/10	6/10
Dimensions	ront ovehang	9.0			A2	mm	436	436	484	484	454	436	484	484	454
ĝ.		ength to face	e of fork		A1	mm	2056	2056	2349	2381	2481	2056	2349	2381	2481
ë c	Overall	verall width				mm	1080	1080	1152	1152	1265	1090	1265	1265	1265
5 0	TILICII SIOLIS	ast lowered			H1	mm	1995	1995	2060	2060	2040	1995	2040	2040	2040
	_	ast extende				mm	4038	4038	4040	4040	4270	4038	4270	4270	4270
L		verhead gua	erd height		H2	mm	2162	2162	2159	2159	2125	2162	2125	2125	2125
	Turning radius				_	mm	1820	1820	2050	2100	2230	1820	2050	2100	2230
	Min. right angle				Х	mm	1810	1810	2110	2150	2280	1810	2110	2150	2280
M	Min. right angle stacking aisle width					mm	3370	3370	3715	3755	3915	3370	3715	3755	3915
, l	Travel speed (n	o load / full	load)			km/h	13.5/11.5	13/11	12.5/11	12.5/10.5	14.5/12	15/13	14/12	14/12	14.5/12
Nerrormance	Lifting speed (n	o load / full	load)			mm/sec	400/300	390/285	400/260	390/250	420/280	400/300	420/300	420/300	420/280
Ē M	Max. pull force (full load)					KN	6	6.5	8	8	10	6.5	8	8	10
5	Services weight	t				kg	2900	3120	4160	4360	4850	3120	4160	4360	4850
· N	Max. gradebility	у				%	15	15	10	10	10	15	10	10	10
٦,	Duma			Front			6.50-10-10PR	6.50-10-10PR	7.00-12-12PR	7.00-12-12PR	23×9-10	6.50-10-10PR	23×9-10-18PR	23×9-10-18PR	23×9-10
<u> </u>	Tyre			Rear		2	5.00-8-8PR	5.00-8-8PR	18×7-8-8PR	18×7-8-8PR	18×7-8	5.00-8-8PR	18×7-8-14PR	18×7-8-14PR	18×7-8
	Tread			Ront	B2	mm	890	890	960	960	1040	890	1040	1040	1040
				Rear	B3	mm	920	920	950	950	980	920	950	950	980
Wheel	Wheelbase				A3	mm	1250	1250	1500	1500	1630	1250	1500	1500	1630
3 6	Ground clearan	ce (no load	/ full load\	Mast	М	mm	105/95	105/95	120/100	120/100	105/85	105/95	105/85	105/85	105/85
	orouna couran	,	,	Fram	F		105/95	105/95	120/100	120/100	140/120	105/95	140/120	140/120	140/120
		_ [Model				D-440(D-4			700	D-480	D-440B	7DB700	7DB700	5VBS500
	Battery		Voltage			v/Ah		(480)	48/		80/480	48/440	48/700	48/700	80/500
8 L			Battery Weig			kg	760(80	1390	760	1180	1180	1450
Courto				Model			XQ-5	5-3A1	XQ-5	5-7A3	XQ-10-1-T	MT708B	MT754B	MT754B	MT776B
ĕ	u-t		Drive motor		oower	kw/rpm	5.3(an hour)		7.0(ar	hour)	10/1200	8/1600	8/1300	8/1300	13/1500
Power	Motor	1					XQD-	8.2-1	XQD-8	3.6-3D	XQD-10-3C	MT719B	MT325B	MT325B	MT800B
2			Lifting Motor	Rated	oower	kw/rpm	8.2(fifteer	n minutes)	8.6(fifteer	n minutes)	10/2000	10/2450	15/2200 15/2200		22/2100
17	Controller							American CT P	C separate excit	akina controllor		The East	n SME AC separa	ha accelhables and	lla-

- Special lifting height available.
- Special litting freight dynamics.
 Attachment available.
 The specification in the table are for standard models only, All specifications indicated are subject to a variation of ± 15%, and may be further affected by operation conditions, optional fitments and accessories. Critical specification should be confirmed before placement of order. Specification are subject to change without notice, for further information ,please contact us.





RASA(Right-Angle Store Aisle)=R+A2+a-b a:Clearance b:Load Length

Vertical axie stands for load capacity while horizontal axie stands for load center, load center, load center is the distance counted from the front of the fork, The base point of the standard load is the center point of the cubic with the same 1000mm dimension in length, width and height, The load capacity should be down, if mask filts forward, using non-standard forks or loading goods with extra width, Please the different load capacity between different load centers according to load chart.

Mast Specifications of CPD/CPD-J Series 1-3T Battery Forklift

2-Stage High-Visibility Mast

Mast	Lifting Height		Lift	ing Capa	city			70	Overall	Height of Mast	3		Fre	e lift (*)		last Tilt Angl	e
model		1t	1.5t	2.0t	2.5t	3.0t		1-1.5t	3	2-2.5t		3t	1-1.5t	2-2.5t	3t	1-1.5T	2-2.5t	3t
223.00		4-Fulcrum forklift Load Capacity at 500mm Load center					Lowered	Extended With Backrest	Lowered	Extended With Backrest	Lowered	Extended With Backrest	4-Fulcrum Forklift Without Backrest			4-Fulcrum	4-Fulcrum (α/β)	4-Fulcrum (α/β)
									Lowered							(α/β)		
	Mm	Kg	Kg	Kg	Kg	Kg	Mm	Mm	Mm	Hm	Mm	Mm	Mm	Mm	Mm			
2M200	2000	1000	1500	2000	2500	3000	1496	3030	1522	3030	1590	3257	164	330	145	6/12	6/12	6/12
2M250	2500	1000	1500	2000	2500	3000	1746	3530	1772	3530	1820	3635	164	330	145	6/12	6/12	6/12
2M270	2700	1000	1500	2000	2500	3000	1846	3730	1872	3730	1920	3835	164	330	145	6/12	6/12	6/12
2M300	3000	1000	1500	2000	2500	3000	1996	4030	2022	4030	2070	4135	164	330	145	6/12	6/12	6/12
2M330	3300	1000	1500	2000	2500	3000	2146	4330	2172	4330	2220	4435	164	330	145	6/12	6/12	6/12
2M350	3500	1000	1500	2000	2500	3000	2246	4530	2272	4530	2320	4635	164	330	145	6/12	6/12	6/12
2M370	3700	1000	1500	2000	2500	3000	2346	4730	2372	4730	2445	4735	164	330	145	6/12	6/12	6/12
2M400	4000	900	1400	1900	2300	2800	2546	5030	2572	5030	2620	5135	164	330	145	6/6		
211100	4000	*1000	*1500	*2000	+2500	*2900		3400	EDI'E	5030	2000	01.00		550	4.0	40	6/6	6/6
2M425	4250	900	1300	1800	2000	2500	2671	5280	2697	5280	2745	5435	164	330	145	6/6		
	1230	*950	*1400		*2400	*2750										1,70	6/6	6/6
2M450	4500	*900	1250 *1400	1600	1800	2400	2796	5530	2822	5530	2870	5635	164	330	145	6/6	***	
				*1800	*2300	*2600											6/6	6/6
2M475	4750	750 *800	1000 *1200	1200 *1700	1500 *2100	2200 *2500	2921	5780	2947	5780	2445	4735	164	330	145	6/6	6/6	6/6
		700	950	1100	1300	2000											0/0	0,0
2M500	5000	*750	*1150		*2000	*2300	3046	6030	3072	6030	2620	5135	164	330	145	6/6	6/6	6/6
2M550	5500	*700	*1000	*1300	*1500	*2000	3346	6530	3372	6530	2745	5435	164	330	145	3/6	3/6	3/6
2M600	6000	*600	*800	*1000	*1200	*1300	2795	5435	3622	7030	2870	5635	164	330	145	3/6	3/6	3/6

2-Stage Wide-View Full Free Mast

Mast	Lifting Height		Lift	ing Capa	icity				Overall	Height of Mast			Fr	ee lift (*)		last Tilt Angl	e
model		1t	1.5t	2.0t	2.5t	3.0t		1-1.5t		2-2.5t	9	3t	1-1.5t	2-2.5t	3t	1-1.5T	2-2.5t	3t
100000		4-Fulcrum forklift				Extended	Lawrend	Extended		Extended	4-Fulcrum Forklift			4-Fulcrum	4-Fulcrum	4-Fulcrum		
	Mm	Load Capacity at 500mm Load center					Lowered With Backrest		Lowered With Backrest		Lowered	With Backrest	Without Backrest			(α/β)	(α/β)	(α/β)
		Kg	Kg	Kg	Kg	Kg	Mm	Mm	Mm	Mm	Mm	Mm	Mm	Mm	Mm			
2FFM200	2000	1000	1500	2000	2500	3000	1496	3040	1560	3024	1570	3241	981	1015	915	6/12	6/12	6/12
2FFM250	2500	1000	1500	2000	2500	3000	1746	3540	1810	3524	1820	3741	1231	1265	1165	6/12	6/12	6/12
2FFM270	2700	1000	1500	2000	2500	3000	1846	3740	1910	3724	1920	3941	1331	1365	1265	6/12	6/12	6/12
2FFM300	3000	1000	1500	2000	2500	3000	1996	4040	2060	4042	2070	4241	1481	1515	1415	6/12	6/12	6/12
2FFM330	3300	1000	1500	2000	2500	3000	2146	4340	2210	4324	2220	4541	1631	1665	1565	6/12	6/12	6/12
2FFM350	3500	1000	1500	2000	2500	3000	2246	4540	2310	4524	2320	4741	1731	1765	1665	6/12	6/12	6/12
2FFM370	3700	1000	1500	2000	2500	3000	2346	4740	2410	4724	2420	4941	1831	1865	1765	6/12	6/12	6/12
2FFM400	4000	900 *1000	1400 *1500	1900 *2000	2300 *2500	2900 *3000	2546	5040	2610	5024	2620	5241	2031	2065	1965	6/6	6/6	6/6
2FFM425	4250	900 *950	1300 *1400	1800 *1900	2000 *2400	2750 *2900	2671	5290	2735	5274	2745	5491	2156	2190	2090	6/6	6/6	6/6
2FFM450	4500	800 *900	1250 *1400	1600 *1800	1800 *2300	2500 *2800	2796	5540	2860	5524	2870	5741	2281	2315	2215	6/6	6/6	6/6
2FFM475	4750	750 *800	1000 *1200	1200 *1700	1500 *2100	2300 *2800	2921	5780	2985	5774	2995	5991	2406	2440	2340	6/6	6/6	6/6
2FFM500	5000	700 *750	950 *1150	1100 *1600	1300 *2000	2000 *2700	3046	6030	3110	6024	3120	6241	2531	2565	2465	6/6	6/6	6/6
2FFM550	5500	*700	*1000	*1300	*1500	*2400	3346	6530	3410	6524	3420	6741	2831	2865	2765	3/6	3/6	3/6
2FFM600	6000	*600	*800	*1000	*1200	*2000	3596	7040	3660	7024	3670	7241	3081	3115	3015	3/6	3/6	3/6

3-Stage Wide-View Full Free Mast

Mast	Lifting Height		Lift	ing Capa	icity	37			Overall	Height of Mast			Fre	e lift (*)		Hast Tilt Angle	
model		1t	1.5t	2.0t	2.5t	3.0t		1-1.5t	2-2.5t			3t	1-1.5t 2-2.5t	2-2.5t	3t	1-1.5T	2-2.5t	3t
			4-Fulcrum forklift					Extended	Lowered	Extended	Lowered	Extended	4-Fulgrum Forklift			4-Fulcrum	4-Fulcrum	4-Fulcrum
		Load Capacity at		at 500mm Load center		Lowered	With Backrest	Lowered	With Backrest	rowered	With Backrest	Without Backrest			(α/β)	(α/β)	(α/β)	
	Mm	Kg	Kg	Kg	Kg	Kg	Mm	Mm	Mm	Mm	Mm	Mm	Mm	Mm	Mm		0	
3FFM360	3600	950 *950	1400 *1400	1800 *1800	2300 *2350	2800 *2800	1805	4630	1860	4634	1880	4851	1290	1315	1225	6-6	6-6	6-6
3FFM400	4000	900 *900	1300 *1300	1800 *1800	2200 *2300	2900 *2800	1930	5030	1985	5034	2005	5251	1415	1370	1350	6-6	6-6	6-6
3FFM435	4350	800 *850	1250 *1300	1700 *1800	1900 *2200	2400 *2750	2055	5380	2110	5384	2130	5601	1540	1496	1475	6-6	6-6	6-6
3FFM450	4500	700 *750	1100 *1200	1400 *1700	1600 *2100	2200 *2600	2105	5530	2160	5532	2180	5749	1590	1544	1525	6-6	6-6	6-6
3FFM470	4700	700 *750	1100 *1200	1400 *1700	1600 *2100	2200 *2600	2175	5730	2260	5924	2280	6051	1690	1715	1625	6-6	6-6	6-6
3FFM480	4800	700 •750	1100 *1200	1400 *1650	1600 *2100	2200 *2600	2205	5830	2260	5924	2280	6051	1690	1715	1625	6-6	6-6	6-6
3FFM500	5000	650 *750	900 *1100	1300 *1650	1400 *2000	1800 *2400	2305	6030	2360	6032	2380	6249	1790	1744	1725	6-6	6-6	6-6
3FFM540	5400	500 *700	600 *900	1100 *1600	1200 *1800	1300 *2300	2430	6430	2485	6438	2505	6655	1915	1874	1850	3-6	3-6	3-6
3FFM600	6000	*350 600	450 *800	600 *1400	700 *1500	800 *1800	2655	7030	2710	7034	2730	7251	2140	2094	2075	3-6	3-6	3-6

1. All those data is the standard work data, and can be changed due to the work influence.

- 2. Free lift with (*): Show the free lift height with backrest: 1~1.5T, -485mm; 2-2.5T, -455mm; 3T,-557mm
- 3. Load capacity with (*): Show capacity with front dual tires.