## 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.

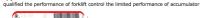
The management of apitiude power in any conditions of operation, gurantee the best electric supply status, keep the performanace of forklift and accumulator balanced, this controller still provide 3 mode of power management:

## 1) Economic mode

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

balanced the performance of accumulator and forklift

3)Oualified mode





## rgonomic and confortable seat

Concept of using ergonomic seat design, more comfortable and reliable. Optional full-suspension seat provides world-class comfort, which is djustable for weight, leg room and back angle.





### Smart design to functional handle A proper mechanism to ensure a quick & effortless operation.

## Safe and comfortable device

The operator presence system provides additional protection for the operator by cutting power to the drive motors and locking out the hydraulic operation when the operator press the emergency switch.



## 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 o Double piece multiple-way valve
- Direction switches
- Backup light set
- o Durable tire with pattern Optional Attachments

## Hour meter

- Wide view 2-stage full free masts Wide view 3-stage full free masts
- Wide carriage
- Long forks
- Fork extension sleeves
- Side shift
- Hinged forks, bucket Load grad
- Paper roll clamp
- Carton clamp
- Rotating forks
- Multiple drum clamp
- Sleeve-in drum gripper Load stabilizer(with side shift)
- Load push pull
- Baked block clamp Crane arm
- Ram

## 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
- o Emergency disconnect switch Rubber floor mat
- Locked spring gas
- Adjustable steering controlled
- Toolbox and file folder



Idle shift indicator

High visibility mast

Lift-leaning joy stick

Tilt oilway lockvalve

Top ventilation device

Water temperature meter

Hydraulic turning

Towing pin

Jov stick

Tool kits

Hand brake

Front spotlight

Guv cable parking brake

Lifting speed limiting valve

Lean and adjustable steeling wheel



## 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
- Headguard 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



# CPD/CPD-J Series

**Electric Forklift** ISO9001

SO9001	24 <sub>N</sub>		<ul> <li>Rated cap</li> <li>Scientific</li> <li>High-capa</li> <li>Separate of electric control</li> <li>Twin AC months</li> </ul>	ergonomic a city battery excitation Do ontroller	pplication	th MOSFE1
		SINOTIL		SHOLFT		OF AC

## SINOLIFT MATERIAL HANDLING EQUIPMENT CORP.

ADD: 2477 Dachuan Road, Nanhui Industry Park, Shanghai, China 201300 TEL: +86 21 68014500 / +86 21 58003681

FAX: +86 21 68014262 / +86 21 68038190

EMAIL: info@sinolift.com WEB: www.sinolift.com www.sinoliftforklift.com







## 1-3T Flectric balance Weight forklift Touck

- Arc streamline body, beautiful, wide visual view, low center of gravity, safety and high reliability.
- 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 hattery canacity 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
- e Electric control system is fitted inside the balance weight good heat conduction efficiency portable opening of back cover easy to maintenance and service
- e Fully imported dua nedal accelerator small and flexible steering wheel big canacity battery and rubber bandle.
- 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 poise no pollution and environmental protection

### Features:

## Flexibility, Quiet, Easy to drive, Efficently

- Smooth vehicle control
- Multi-valve control system and energy-efficient hydraulic system.
- Regenerative hraking:-a)enhances life of hrake shoe liners -h) enhances period between consecutive battery charges
- Easy trouble shooting with built-in diagnostics.
- Programmable truck characteristics to suit operating requirements.
- Lesser maintenance due to components.



### Frontomic Application

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.



lacause 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

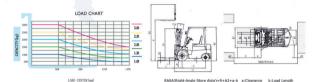
The new multi-functional LCD dash board provides more information for operator, this LCD instrument is also waterproof and vibration-proof.

### ■ CPD/CPD-1 Series 1.0T-3.0T Rattery Forklift Specifications

Manufactur	er			_				SINOLIFT				
Model			1 . 4	CP010	CP015	CP020	CP025	CPD30	CP0153	CPD203	CP0253	CP030J
Power type			-	Battery	Bettery	Battery	Battery	Battery			Battery	- V
Rated capa	city		kg	1000	1500	2000	2500	3000	1500	2000	2500	3000
Load center			mm	500	500	500	500	500	500	500	500	500
Lift height		н	mm	3000	3000	3000	3000	3000	3000	3000	3000	3000
Free lift		E	mm	162	162	140	140	145	162	140	140	145
Fork size		Nettel	mm	920×100×40	920×100×40	1070×120×40	1070×120×45	1070×125×45	920×120×40	1070×120×40	1070×120×45	1070×125×45
Fork outsid	e spread (Min./Max.)		mm	200/968	200/968	240/1040	241/1040	250/1100	200/968	240/1040	240/1040	250/1100
Mast tilt an	gle (forward/backward)	0/8	deg	6/12	6/12	6/12	6/12	6/10	6/12	6/10	6/10	6/10
Front ovels		A2	mm	429 2056	429	479	484	454	429	459	464	454
	Length to face of fork				2056	2349	2381	2481	2056	2349	2381	2481
Overall	Overall width	81	mm	1090	1090	1152	1152	1265	1090	1265	1265	1265
dimensions	Mast lowered height	H1	mm	1995	1995	2060	2060	2040	1995	2040	2040	2043
BIIICIONIO	Mast extended height	Н3	mn	4042	4042	4040	4040	4273	4042	4240	4240	4273
	Overhead guard height	H2	mm	2162	2162	2159	2159	2125	2162	2125	2125	2125
Turning rac		R	mn	1820	1820	2050	2100	2230	1820	2050	2100	2230
	ingle alse width	X	mn	1810	1810	2110	2150	2280	1810	2110	2150	2280
Min. right a	ngle stacking aisle width	RASA	mm	3370	3370	3715	3755	3915	3370	3715	3755	3915
Travel sp	eed (no load / full loa	id)	km/h	13.5/11.5	13/11	12.5/11	12.5/10.5	13/12	15/13	14/12	14/12	14.5/12
Lifting sp	peed (no load / full loa	ed)	mm/sec	400/300	390/285	400/260	390/250	380/250	400/300	420/310	420/300	420/280
Max. pul	force (full load)		KN	6	6.5	8	8	10	6.5	8	8	10
Services	weight		kg	2900	3120	4160	4360	4850	3120	4160	4360	4850
Max. gra	debility		%	15	15	10	10	10	15	10	10	10
Tyre		Front		6.50-10-10PR	6.50-10-10PR	7.00-12-12PR	7.00-12-1298	23×9-10	6.50-10-10PR	23×9-10-18PR	23×9-10-18PR	23×9-10
1 los		Rear		5.00-8-8PR	5.00-8-8PR	18×7-8-14PR	18×7-8-14PR	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
Wheebase		A3	mm	1250	1250	1500	1500	1630	1250	1500	1500	1630
Count do	erance (no load / full load)	Mast M	mm	110/95	110/95	120/100	120/100	105/85	110/95	105/85	105/85	105/85
Ground Op		Fram F	1001	105/95	105/95	120/100	120/100	140/120	105/95	140/120	140/120	140/120
	Model				D-480 option)		700 option)	D-500(D-600 option)	D-440B	D-630(7D8		D-500(D-600 apti
Battery	Voltage		v/Wh	48/440		48/63		80/500(600)	48/440	48/63		80/500(600)
Battery	Battery Wei		kg	760			1340)	1390(1520)	760	1180		1390(1520)
	Drive motor	Model			-3A1		-7A3	XQ-10-1-T	MT7088	MT754B	MT7548	MT7768
Motor	Drive moun	Rated power	kw/rpm		(an hour)		(an hour)	10.2/1500	8/1600	8/1300	8/1300	13/1500
Motor	Lifting Moto	Model			8.2-1		3.6-30	XQD-10-3C	MT7198	MT3258	MT3258	MT8006
	a trig note	Rated power	kw/rpm	8.2/1600(FA	een minutes)	8.6/1600/frh		10/2000	10/2450	15/2200	15/2200	22/2100
Controller	_		1		American	Of the seconds of	Amteen neithfor			fastas	CNF IC motodia	_

## Special lifting beight available

2. Attachment available.
3. 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 specifications should be confirmed before placement of order. Specification are subject to change without notice, for further information, please contact us.



Vertical axie stands for load capacity while horizontal axie stands for load center joed center is the distance counted from the front of the fork. The base point of the standard load is the center ooint 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-1 Series 1-3T Rattery Forklift

Mast model	Lifting Height		Lift	ing Cap	ecity			Overall Height of Mast									Mast Tilt Angl	4
		1t	1.5t			3.0t		1-1.5t		2-2.5t		3t	1-1.5t 2-2.5t		1-1.5T	2-2.5t	3t	
				icrum fi			Lowered	Extended With Backrest Mm	Lowered -	Extended With Backrest Mm	Lowered	Extended With Backrest	4-Fulcrum Forklift Without Backrest			4-Fulcrum (α/β)	4-Fulcrum	4-Fulcrum (α/β)
		Pting Ca	pacity a	t 500mi	n Load o	enter	roweren										(e/β)	
	Mm	Kg	Kg	Kg	Kg	Kg	Mm				Hm	Hm	Mm	Mm	Mm			
2M200	2000	1000	1500	2000	2500	3000	1495	3032	1522	3030	1590	3257	162	140	145	6/12	6/12	6/12
2M250	2500	1000	1500	2000	2500	3000	1745	3532	1772	3530	1820	3635	162	143	145	6/12	6/12	6/12
2M270	2700	1000	1500	2000	2500	3000	1845	3732	1872	3730	1920	3835	162	147	145	6/12	6/12	6/12
2M300	3000	1000	1500	2000	2500	3000	1995	4042	2060	4040	2040	4273	162	140	145	6/12	6/12	6/12
2M330	3300	1000	1500	2000	2500	3000	2145	4342	2210	4340	2190	4573	162	140	145	6/12	6/12	6/12
2M350	3500	1000	1500	2000	2500	3000	2245	4542	2310	4540	2290	4773	162	140	145	6/12	6/12	6/12
2M370	3700	1000	1500	2000	2500	3000	2345	4732	2372	4730	2445	4735	162	140	145	6/12	6/12	6/12
29400	4000	900	1400	1800	2300	2850	2545	5042	2610	5040	2590	5273	162	141	145	6/3	6/8	6/8
279400	4000	*1000	*1500	*2000	*2500	*2900	2343	2012	2020	2040	2390	32/3	101	140	140	ola.	490	0,0
29425	4350	900	1300	1800	2000	2500	2670	5282	2607	2697 5280	2745	5435	162	140	145	6/5	6/6	6/6
ermes	7639	*950	*1400	*1900	*2400	*2750	2070	2444	4077	2607	049	5111	104	140	149	0.0	190	0,0
29450	4500	800	1250	1600	1800	2500	2795	5532	2960	5540	2840	2840 5773	162 1	140	145	6/5	6/6	6/6
Erinau	4300	*900	*1400	*1800	*2300	*2600	2/70	3334	2000	3340	2041	3173	101	140	143	0/0	gla	0/0
28425	4750	750	1000	1200	1500	2200	2920	5782	2947	5780	2645	4735	162	140	145	6/5	6/6	6/6
279473	4/30	*800	*1200	*1700	*2100	*2500	2920	3762	234/	3/80	2443	4733	101	140	143	0/0	6/0	6/6
2M500	5000	700	950	1100	1300	2000	3045	6032	3072	6030	2620	5135	162	140	145	6/5	6/6	6/6
		*750	*1150	*1600	*2000	*2300	200		10000									
2M550	5500	*700	*1000	*1300	*1500	*2000	3345	6532	3372	6530	2745	5435	162	140	145	3/6	3/6	3/6
2M600	6000	*600	*800	*1000	*1200	*1300	2795	5435	3622	7030	2820	5636	162	140	145	315	3/6	3/6

Mast model	Lifting Height		Lift	ing Cap	ocity			Overall Height of Mast								Mast Tilt Angle			
1		1t	1.5t	2.0t	2.5t	3.01		1-1.5t	1000	2-2.5t		3t	1-1.5t	2-2.58	3t	1-1.5T	2-2.5t	3t	
100	Kn		4-Fulcrum forklift				Lowered Exter	Extended	led Lowered	Extended	Lowered	Extended	4-Fulcrum Forklift			4-Fulcrum	4-Fulcrum	4-Fulcrum	
		fting Capacity at 500mm Load center					Lowered	With Backrest	rowered	With Backrest	Lowered	With Backrest	Without Backrest		rest	(o/B)	(e/8)	(a/8)	
		Kg	Kg	Kg	Kg	Kg	Mm	Mm	Mm	Mm	Hm	Hm	Hn	Mm	Mm				
2FFM200	2000	1000	1500	2000	2500	3000	1496	3040	1560	3024	1570	3241	981	1015	915	6/12	6/12	6/10	
2FFM250	2500	1000	1500	2000	2500	3000	1746	3540	1810	3524	1820	3741	1231	1265	1165	6/12	6/12	6/10	
2FFM270	2700	1000	1500	2000	2500	3000	1846	3740	1910	3724	1920	3941	1331	1365	1265	6/12	6/12	6/10	
2FFH300	3000	1000	1500	2000	2500	3000	1995	4042	2060	4040	2040	4273	1475	1417	1187	6/12	6/12	6/10	
2FFH330	3300	1000	1500	2000	2500	3000	2145	4342	2210	4340	2190	4573	1625	1567	1565	6/12	6/12	6/10	
2FFH350	3500	1000	1500	2000	2500	3000	2245	4542	2310	4540	2290	4773	1725	1667	1665	6/12	6/12	6/10	
2FFM370	3700	1000	1500	2000	2500	3000	2346	4740	2410	4724	2420	4941	1831	1865	1765	6/12	6/12	6/10	
35594400	4000	900	1400	1900	2300	2900	2545	5042	2610	5040	2590	5273	2025	1967	1965	4000	20000		
2FFM400	4000	*1000	*1500	*2000	*2500	*3000	2343	3045	5010	3040	4390	36/3	2053	120/	1903	6/8	6/8	6/8	
2FFM425	4250	900	1300	1800	2000	2750	2671	5290	2735	5274	2745	5491	2156	2190	2090	1000	6/8	10000	
TLLLANTO	4430	*950	*1400	*1900	*2400	*2900	20/1				2/45	2431	2170	2190	2090	6/3		6/3	
2FFM450	4500	800	1250	1600	1800	2500	2796	5540	2860	5540	2843	5773	2281	2217	2215				
arrivaso	7000	*900	*1400	*1800	*2300	*2800	2/90	3370	2000	2070	4070	3173	****	4447	4415	6,/5	6/6	6/6	
2551475	4750	750	1000	1200	1500	2300	2921	5780	2985	5274	2995	5991	2406	2440	2340				
errino 3	47.00	*800	*1200	*1700	*2100	*2800	4941	3760	4702	2004	4333	2771	2400	5440	2340	6/5	6/6	6/6	
2FFH500	5000	700	950	1100	1300	2000	3046	6030	3110	6024	3120	6241	2531	2565	2465				
		*750	*1150	*1600	*2000	*2700	100.00			10001	2000					6/5	6/6	6/6	
2FFM550	5500	*700	*1000	*1300	*1500	*2400	3346	6530	3410	6524	3420	6741	2831	2865	2765	3/6	3/6	3,16	
2FF74500	6000	*600	*800	*1000	*1200	*2000	3596	7040	3660	7024	3670	7241	3061	3115	3015	3,/\$	3/6	3/6	

last model	Lifting Height		Un	ing Cape	acity				Overall	Height of Mast			Fe	ee lift (#	1	Mast Tilt Angle		
		1t	1.5t	2.0t	2.53	3.0t		1-1.58		2-2.5t	38		1-1.58 2-2.5	2-2.5t	38	1-1.5T	2-2.5t	3t
		4-Fulcrum forklift					Lowered	Extended	Lowered	Extended	Lowered	Extended	4-Fulcrum Forklift			4-Fulcrum	4-Fulcrum	4-Fulcrum
		fting Ca	pacity a	t 500mm	n Load o	enter	Lowered	With Backrest	Km	With Backrest Mm	Lowered	With Backrest Mm	Without Backrest			(o/β)	(e/8)	(0/β)
	Mm	Kg	Kg	Kg	Kg	Kg	Hm	Mm			Mm		Mm	Mm	Mm			
FFM360	3600	950	1400	1800	2300	2800	1805	4640	1860	4634	1880	4851	1275	1315	1225	6-6	6-6	6-6
FPK300	3600	*950	*1400	*1800	*2350	*2800	1000	4040	1000	4034	1000	4651	12/5	1313	1225	0.0	0.0	0.0
FFM400	4000	900	1300	1800	2200	2800	1930	5040	1985	5040	1965	5273	1365	1355	1350	6-6	6-6	6-6
rrineuu	9000	*900	*1300	*1800	*2300	*2800	1739	30%	1700	30%	1700	24/3	1,000	1333	1330	0.0	0-0	6-6
FFM435	4350	800	1250	1700	1900	2400	2055	5390	2110	5390	2090	5623	1525	1480	1475	6-6	6-6	6-6
rrnass	4330		*1300	*1800		*2750	EV33	3390	2110	3390	2090	3043	1242	1400		010	20	0.0
FFM4S0	4500	700	1100	1400	1600	2200	2105	5540	2160	5540	2140	5773	1575	1530	1525	6-6	6-6	6-6
1111400	4300	*750	*1200			*2600	4103	3370	2100	3340	2340	2112	1000	1,770	1313	0.0		
FFM470	4700	700	1100	1400	1600	2200	2175	5740	2225	5740	2205	5973	1645	1595	1590	6-6	6-6	6-6
Invero	4700	*750	*1200	*1700	*2100	*2600	407	3140	4440	3740	2407	2013	1040	1373	1390	0.0		0.0
FFM4R0	4800	700	1100	1400	1600	2200	2205	5840	2260	5840	2240	6073	1675 1630	1630	1625	6-6	6-6	6-6
1111400		*750	*1200	*1650	*2100	*2600			2200	2010	11.70	341.2		1000	1017	0.0		9-9
FFM500	5000	650	900	1300	1400	1800	2305	6040	2403	6040	2383	6273	1775	1773	1768	6-6	6-6	6-6
111200	2000	*750	*1100	*1650		*2400	1000	000		5040	1.007	3472	2772	2173	1100	0.0		**
FFM540	5400	500	600	1100	1200	1300	2430	6440	2603	6440	2583	6673	1900	1973	1968	3-6	3-6	3-6
111919	2.44	*700	*900	*1600		*2300	4.177	41.0			4147	341.2	1700	1000	1700			
FFM550	5500	500	600	1100	1200	1300	2455	6540	2637	6540	2617	6773	1925	2007	2002	3-6	3-6	3-6
111222	2200	*700	*900	*1600	*1800	*2300	6177	0340	2037	0310	2017	4172	1747	2007	1001	9.4		24
FFM600	6000	*350	450	600	700	800	2655	7040	2870	7040	2850	7273	2135	2240	2235	3-6	3-6	3-6
	1. All those data i	600	*800		*1500	*1800		20.77	2370				1 -100					

2, Free lift with (III): Show the free lift height with backrest: 1~1.5T, -482mm; 2-2.5T, -357mm; 3-3.5T,-420mm 3. Free lift with (#): Show the free lift height with backrest: 1~1.5T, -470mm; 2-2.5T, -370mm; 3-3.5T,-618mm 4. Load capacity with (\*): Show capacity with front dual tires.