

Standard Feature

- Front wheel & Rear wheel pneumatic tyres
- High capacity storage batteryEmergency disconnect switch
- Rubber floor mat
- 2 Spools control valve
- Locked spring gas
- Front combined lamp
- 3 meters 2-stage mastAdjustable steering column
- Rearview mirror
- Drive, lift, steering controlled
- Rear combined lamp
- Beeper
- Toolbox and file folder
- Hour meter, self-diagnose indicator



CE CERTIFICATE

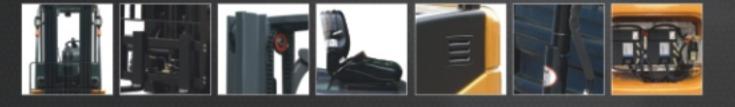


ISO9001: 2000









Optional Feature

■ 3 or 4 spools control valve

4.3-6.5 meters 3-stage mast
2.5-4.5 meters 2-stage mast
With attachment

■ Special carriage and backrest

Other dimension forks

High capacity battery

■ No mark solid tyre

■ Battery charger

Solid tyre



ZHEJIANG HANGCHA ENGINEERING MACHINERY CO.,LTD. (ZHEJIANG HANGCHA IMP. & EXP. CO.,LTD.)

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Series

Electric Forklift

8/2.0/2.5/3.0/3.5 T

durable, clean: HYDRAULICS

simple, comprehensive: PANEL

optimised, powerful: BATTERIES

CONTROLLER

New Multi-Display employed full-dotted LCD is located on the steering column to improve visibility and manipulate-ability. Well fitted with convenient functions, such as battery level indicator, truck operation records, passwords entry and so on. While traveling, displays travel speed and BDI (Battery Discharge Indicator), while stopping, displays clock, Multi-display shows appropriate information under various situations.

CURTIS or DANAHER MOTION made high-frequency controller incorporates a powerful microprocessor together with MOSFET power electronics. It controls all truck movements precisely with high energy efficiency at low noise level- from smooth, sensitive inching to powerful acceleration and regenerative braking.

The new controller also offers sophisticated communication facilities and built-in diagnostics to reduce downtime. All electronics are housed inside the chassis body to protect them from external damage.

DRIVE TRAIN

AC Power System

Multiple benefits of the AC Power System include: fast response to operating commands, precise power control, compact components. Moreover, since the AC motor does not use contactors and brushes, these maintenance items will no longer be required. It also allows for a revolutionary new forklift design and performance so enhanced the operator can actually feel the difference.



DC Power System

SEM drive motor provides more advanced control features. The CURTIS controller controls the traveling, lifting, titling and steering action. It is an excellent system for a medium workload and cheaper.

CHASSIS

A fully enclosed chassis frame houses the drive motors. The hydraulic and drive components are protected against dirt and water. Due to their compact design, these trucks are exceptionally robust.

Main electric equipments are placed inside of operator compartment. You can access to main pump motor, oil tank by opening left and right cover hood.

No tools are required remove floor

STEERING

plate.

Rear axle with integrated steering cylinder suspended in the chassis with rubber bearings for constant floor contact of all four wheels. Stopper Rubber provides appropriate swinging limit of the steering axle and gives greater cornering stability.

Hydraulic power steering, combined with drive-motor system, gives superb maneuverability with low noise level and low energy consumption. The low steering force required, further enhances operator comfort.

Brakes

The J series four-wheel truck has three independent braking systems:

- Regenerative braking system
- Front wheel brake drum system
- Toggle-type parking brake

Three Types of Regenerative Systems (AC & DC)

- When accelerator is released . Regenerative braking operates when the accelerator pedal is released during travel to collect the electrical power created. It also acts much like "engine braking" to slow the speed of the forklift.
- During switch back

 Regenerative braking operates during travel whenever the direction lever is switched from forward to reverse (or vice versa).
- During brakingRegenerative

Regenerative braking operates whenever the brake pedal is depressed during travel. The regenerative system also helps to reduce brake lining wear and helps extend operating time per charge.



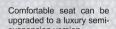
OPERATOR'S COMPARTMENT

A low step provides easy, comfortable access to the ergonomically designed compartment. The adjustable steering column and driver's seat ensure a comfortable working position.

Hydraulic levers is mounted on scuttle. Two strong grab handles are provided.

Lower step makes easy entry and exit. A clear foot well with well-placed pedals gives plenty of room for large feet and helps the driver work safely. This will be much appreciated by operators who have to get on and off of the forklift frequently.



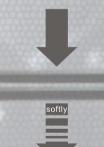


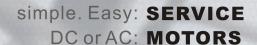


Safe and easy access is assured by a large, non-slip step and grab handle.

SOFT LANDING LIFT CYLINDER

During lowering fork with no load, fork speed is reduced just before touching ground to avoid collision noise with ground. The operator and those working near the forklift will appreciate the reduced noise.





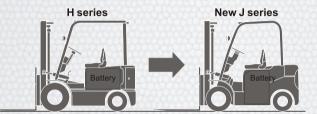
state od the art: **ELECTRONICS**

strong, wide, clear view: MASTS



BATTERY

We have changed battery's location. Battery is dropped down to the lowest part of frame. This concept gives truck firm stability while it is traveling. By using relocating the battery under the cover hood, it reduces operator fatigue and makes the truck's overall dimensions smaller.



Because you open and close the battery cover for daily checkup, access of battery cover is improved by using gas-spring with lock function.



or more than 30 years, **Zhejiang Hangcha Engineering Machinery CO., LTD.**Has played a leading role in the manufacture and production of Chinese forklift industry. We constantly strive to develop and incorporate the latest advances in forklift design and technology to ensure that our products provide an optimum level of performance, all the time. Our new generation J series of forklifts truly exemplifies this commitment to excellence.

INTRODUCTION

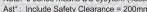
The distinctive features of the new 1.0-3.5t **J** series electric Four-wheel counterbalanced forklift are the following:

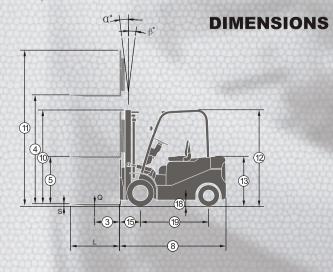
- Versatility of use due to compact design and minimal operating space requirements.
 Compact dimensions combined with superb maneuverability.
- High stability, both when stationary and cornering, due to long wheelbase, low centre of gravity and wide tyres.
- Economy of operation, resulting from minimized maintenance costs, e.g. fully enclosed 3 phase AC asynchronous motors with high degree of efficiency maintenance free for life.

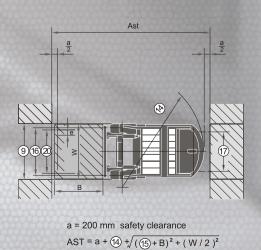
1.0-3.5t J Serial Electric Forklift Specification

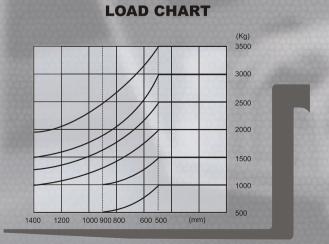
	No.	Manufacturer							444		HA			SHC									
900	1	Model		5000	CPD10J	CPD10J-C1	CPD10J-D1	CPD15J	CPD15J-C1	CPD15J-D1	CPD18J	CPD18J-C1	CPD18J-D	CPD20J	CPD20J-C1	CPD20J-D1	CPD25J	CPD25J-C1	CPD25J-D	CPD30J	CPD30J-C1	CPD30J-D1	CPD35J-C1
Specification	2	Rated capacity		Kg	THE STATE OF	1000		70000	1500	control (400000	1750		0000	2000	pamp		2500			3000	0404	3500
ati	3	Load centre		mm	4444	500	444		500	494	4	500	4444	4046	500	APAY.	4444	500		134994	500		500
iţi	4	Lifting height			3000		3000		on the	3000	Year		3000	35007		3000		3000		3000			
ec	5	Free lifting height	ADDITION OF THE PROPERTY.	mm	QUQ.	135	DOM:		135	àtta		135		100000	140	many.		140		CONTRA	145		145
Sp	6	Fork size	s×e×I	mm	35	×120×9	000	35	×120×9	900	35	×120×9	900	40	×130×1	070	40	×130×10	070	45>	<130×1	070	45x135x1070
934	7	Tilting angle	F/B (α°/β°)	Deg		5/10		#B#H	5 / 10	State of	1434	5 / 10		7205°	5/10			5 / 10			5/10		5 / 10
	8		Length (to fork face)	mm		2080			2080			2115			2275			2325			2490	300	2570
	9		Width	mm	A1244	1060	42.74		1060			1138			1265			1265		4, 10	1265		1302
	10	Overall Dimension	Height when mast lowered	mm		1995			1995			1995			2070			2070			2100		2186
	11		Height when mast lifting	mm		3935			3935			3935			4040			4040		-	4135		4221
(0	12		Height to safeguard	mm		2075		YOUR	2075	thorn		2075			2090			2090			2090		2090
l ic	13		Height seat	mm		1030			1030			1030			1070			1070			1070		1070
ensions	14	Turning radius	Min.	mm		1780			1780			1815			2040			2090			2230		2310
e	15	Overhang	Front	mm		406		COSMI	406			406			455			455			475		475
Dim	16/17	Thread(Front/Rear)		mm	8	88 / 897.	5	8	888 / 897.	.5	8	88 / 897.	5		1058 / 96	0		1058 / 960)	1	058 / 96	0	1068/960
-	18	Ground clearance	Min.	mm		110			110			110			120			120			125		125
D.	19	Wheelbase		mm		1380		TOTAL	1380	debt		1380			1485			1485			1625		1625
999	20	Fork spread	Min. / Max.	mm	2	240 / 100	0	1000	240 / 100	0	2	240 / 100	0	2	200 / 103	8	2	200 / 1038	3	2	90 / 120	0	290/1200
	21	Working aisle width	1000×1200 crossways	mm		3556			3556			3591			372			3911			4071		4161
	22	with pallet (Ast*)	800×1200 lengthways	mm		3655		3335	3655			3690			3820			4010			4170		4260
200	23		Travel (Laden)	km/h	12	14	14	12	14	14	12.5	13.5	13.5	12	14	14	12	14	14	13	14	14	12
	24		Travel (Unladed)	km/h	13	14	14	13	14	14	13	14	14	13	14	14	13	14	14	14	14.5	14.5	13
0	25	Speed	Lifting (Laden)	mm/s	300	310	310	290	300	300	285	295	295	280	290	290	270	280	280	250	260	260	210
20	26		Lifting (Unladed)	mm/s	450	460	460	440	450	450	430	440	440	440	450	450	430	440	440	400	410	410	370
na	27		Lowing (Laden)	mm/s		450		33933	460	40000		470			470	4.440		420		9300	460		450
Performance	28	3-3-3-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4	Lowing (Unladed)	mm/s		430		TOTAL	430	1400	4	430			440	1000		430			424	1	404
erf(29	Gradeability	Laden	%	13	15	15	13	15	15	13	15	15	12	13	13	12	13	13	12	13	13	11
P	30		Unladed	%	14	16	16	14	16	16	14	16	16	13	14	14	13	14	14	13	14	14	12
000	31	Max. Drawbar pull	Laden(S2 5min)	N	9000	10000	10000	10000	11000	11000	11000	12000	12000	13000	14000	14000	17000	18000	18000	20000	22000	22000	20000
1400	32	Service weight	Include battery box	Kg		2880		25000	2940	0		3090	•		3700			4180		10000	5050	0	5450
- 000	33	Axle Loading	Laden	Kg		3410 / 470 296 / 158		1.1.1.1.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2	3900 / 54 353 / 158		4300 / 590 1650 / 1440			5016 / 684 1628 / 2072			5990 / 690 1890 / 2290			7160 / 890 2424 / 2626			7876/1074 2998/2452
	34	(Front / Rear)	Unladen	Kg			94	1000								1 2 2 2 1						11 10000	
COO.	35	Tyre	Front×2	444		6.00 - 9 5.00 - 8		11000	6.00 - 9 5.00 - 8			21×8 - 9 5.00 - 8			23×9 - 1 18×7 - 8		23×9 - 10				.3×9 - 1 18×7 - 8		23×10-12 18×7-8
200	36		Rear×2		E 4	5.00 - 8	0	E A	5.00 - 8		F 4	5.00 - 8			10.5	10.5		18×7 - 8			10.6		
	37	Motor	Driven motor /S 60min Pump motor /S 15min	kw	5.4 8.2	7.8	8 7.8	5.4 8.2	7.8	7.8	5.4 8.2	7.8	7.8	7 8.6	10.5	10.5	7 8.6	10.5	10.5	10.2	12.8	10.6 12.8	11
197	38			kw	0.2	48 / 420	7.0	0.2	48 / 420		0.2	48 / 420		0.0	48 / 630		0.0	48 / 630	- 11	10	80 / 500		80/500
en	39	Battery	Standard	V/Ah		48 / 420			48 / 420			48 / 420			48 / 700			48 / 700			/ 500		80/500
i ve	40	Rattery weight includ	Optional Je box (STD, Battery)	V/Ah		760			760			760									1489		1489
Drive	41 Battery weight include bo				DC	760 A	C	DC		(C	DC		.C	998 DC AC		998 DC AC		0	DC		(C	1489 AC	
1327	42	Controller	Type Manufacturer		CURTIS		Danaher	CURTIS		Danaher	CURTIS		Danaher			Danaher	DC CURTIS					Danaher	CURTIS
-	43	Operating pressure		Man	COINTIS	14.5	Darianei	CUKIIS	14.5	Dananei	CUITIS	14.5	Danailei	CONTIS	17.5	Dananer	CONTIS	17.5	Dananei	COINTIS	17.5	Dananel	18
1		Noise level	TOT ATTACHMENT	Mpa dB(A)	THE REAL PROPERTY.	70		-	70	7		70			71	Trans.		72			74	-	75
	_		(T. (' DO: D DO) ID4 :	lan(A)	1	70	2000		70	15000		70			/ 1			12			74		15

Note: J series means DC sysytem (Taction DC+ Pump DC). JD1 series means AC system (Traction AC+ Pump AC). JC1 series means AC system (Traction AC+ Pump DC)
Ast*: Include Safety Clearance = 200mm









1.0-1.8t J series mast

	Mast		Overal	l height	Fre	e lift	Tilt ra	ange			Cap	acity		
Type	fork height	Lowered	With	Without	With	Without	FED	RED				y at 50		
-	Holgitt		backrest	backrest	backrest	backrest		-		ingle ti			ouble ti	
	mm	mm	mm	mm	mm	mm	Deg	Deg	1.0t	1.5t	1.75t	1.0t	1.5t	1.75t
100	2500	1728	3455	3064	145	145	5	10	1000	1500	1750	1000	1500	1750
4.4	2700	1826	3655	3264	145	145	5	10	1000	1500	1750	1000	1500	1750
ast	3000	1976	3955	3564	145	145	5	10	1000	1500	1750	1000	1500	1750
E	3300	2126	4255	3864	145	145	5	10	1000	1500	1750	1000	1500	1750
view mast	3500	2226	4455	4064	145	145	5	10	1000	1500	1750	1000	1500	1750
je j	3600	2326	4555	4164	145	145	5	10	960	1450	1750	960	1450	1750
Wide	4000	2576	4955	4564	145	145	5	10	930	1400	1700	930	1400	1700
1	4300	2726	5255	4864	145	145	5	6	850	1300	1550	910	1350	1650
OI.	4500	2826	5455	5064	145	145	5	6	800	1200	1450	900	1300	1600
free	2500	1726	3455	3070	781	1158	5	10	960	1450	1750	1000	1500	1750
/full fig mast	2700	1826	3655	3270	881	1244	5	10	960	1450	1750	1000	1500	1750
로입	3000	1976	3955	3570	1031	1394	5	10	960	1450	1750	1000	1500	1750
view full age mas	3300	2126	4255	3870	1181	1544	5	10	960	1450	1750	1000	1500	1750
Wide view 2-stage	3600	2276	4555	4170	1331	1694	5	10	900	1350	1600	930	1450	1750
₹,,	4000	2526	4955	4570	1581	1944	5	6	850	1300	1550	900	1350	1600
444	3500	1976	4955	4570	1031	1416	5	6	900	1350	1600	930	1400	1700
full free mast	4300	2076	5255	4870	1131	1516	5	6	850	1300	1550	850	1350	1600
ast	4500	2086	5455	5070	1141	1614	5	6	800	1200	1450	800	1250	1500
3E	4800	2201	5755	5370	1256	1641	5	6	650	1100	1300	700	1200	1350
age	5000	2251	5955	5570	1306	1691	5	6	600	1000	1200	650	1050	1250
de 3-st	5500	2426	6455	6070	1481	1866	3	6	Andrew .	2	700	550	750	900
Wide view 3-stage	6000	2651	6956	6570	1706	2091	3	6	LII	ILL	T. D.	350	500	650
14	6500	2830	7456	7070	1820	2152	3	6	775	TTY		300	400	500

For overall height without backrest: -322mm (2-stage); -371 (2-stage); -337 'adopt double tire. (Don't assemble side-shifter on the single tire forklift.)

2.0-2.5t J series mast

100	Mast		Overal	height	Fre	e lift	Tilt ra	ange	Capacity					
Туре	fork	Lowered	With	Without	With	Without	FED	RED	Load capacity at 500 mm					
-	height		backrest	backrest	backrest	backrest			Singl	e tire	Doub	le tire		
	mm	mm	mm	mm	mm	mm	Deg	Deg	2.0t	2.5t	2.0t	2.5t		
4.	2500	1786	3556	3234	140	145	5	10	2000	2500	2000	2500		
1	2700	1886	3756	3434	140	140	5	10	2000	2500	2000	2500		
mast	3000	2006	4056	3734	140	140	5	10	2000	2500	2000	2500		
E	3300	2186	4356	4034	140	140	5	10	2000	2500	2000	2500		
view	3500	2286	4556	4234	140	140	5	10	1950	2400	2000	2500		
e <	3600	2336	4656	4334	140	140	5	10	1900	2400	2000	2500		
Wide	4000	2586	5056	4734	140	140	5	10	1800	2300	1950	2400		
1	4300	2751	5356	5034	140	140	5	6	1700	2000	1900	2300		
10	4500	2861	5556	5234	140	140	5	6	1600	1800	1800	2200		
et fee	2500	1766	3556	3185	720	1091	5	10	2000	2500	2000	2500		
nast mast	2700	1866	3756	3385	820	1191	5	10	2000	2500	2000	2500		
로	3000	1966	4056	3685	920	1291	5	10	2000	2500	2000	2500		
Wide view full 2-stage mas	3300	2116	4356	3985	1070	1441	5	10	2000	2500	2000	2500		
-st	3600	2266	4656	4285	1220	1591	5	10	1900	2350	1950	2450		
≥.,	4000	2516	5056	4685	1470	1841	5	10	1800	2250	1850	2350		
(1)	4300	1976	5356	5019	930	1267	5	6	1700	2000	1800	2250		
at L	4500	2096	5556	5219	1050	1387	5	6	1600	1800	1700	2150		
full free mast	4800	2196	5856	5519	1150	1487	5	6	1400	1700	1600	2100		
ge l	15000	2261	6056	5719	1215	1552	5	6	1300	1500	1500	2000		
e view -stage	15500	2426	6556	6219	1380	1717	3	6	1000	1100	1450	1900		
Wide 3-s	*6000	2641	7056	6719	1595	1932	3	6	700	800	1400	1600		
>	6500	2820	7556	7219	1774	2111	3	6	TITLE	PATTOTY	1200	1300		

For overall height without backrest: -322mm (2-stage); -371 (2-stage); -337 (3-stage) 'adopt double tire. (Don't assemble side-shifter on the single tire forklift.)

3.0-3.5t J series mast

	Mast	k Lowered			Overall	height			Free	e lift		Tilt range	Capacity				
Type	fork height			W		Without		W		Without		FED	Load capacity at 500 mr				
Η.	neigni				backrest		backrest		backrest		backrest		Single tire		Double tire		
		3.0t	3.5t	3.0t	3.5t	3.0t	3.5t	3.0t	3.5t	3.0t	3.5t	Deg	3.0t	3.5t	3.0t	3.5	
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	Deg	Kg	Kg	Kg	Kg	
	2500	1786	1936	3652	3652	3297	3364	145	145	145	145	5 / 10	3000	3500	3000	350	
	2700	1886	2036	3852	3852	3497	3564	145	145	145	145	5 / 10	3000	3500	3000	350	
	3000	2036	2186	4152	4152	3797	3864	145	145	145	145	5 / 10	3000	3500	3000	350	
ast	3300	2186	2336	4452	4452	4097	4164	145	145	145	145	5 / 10	3000	3500	3000	350	
E	3500	2286	2436	4652	4652	4297	4364	145	145	145	145	5/10	3000	3500	3000	350	
Wide view mast	3600	2336	2486	4752	4752	4397	4464	145	145	145	145	5/10	3000	3400	3000	350	
	4000	2586	2686	5152	5152	4797	4864	145	145	145	145	5 / 10	2800	3200	2900	340	
	4300	2751	2836	5452	5452	5097	5164	145	145	145	145	5/6	2500	2900	2750	310	
	4500	2861	2936	5652	5652	5297	5364	145	145	145	145	5/6	2400	2600	2600	300	
	4800	3026	3086	5952	5952	5597	5664	145	145	145	145	5/6	2200	2500	2500	290	
	5000	3136	3186	6152	6152	5797	5864	145	145	145	145	5/6	2000	2300	2300	285	
Ŋ.	2500	1826	1936	3652	3652	3247	3292	684	794	1089	1154	5 / 10	3000	3500	3000	350	
St =	2700	1926	2036	3852	3852	3447	3492	784	894	1189	1254	5 / 10	3000	3500	3000	350	
view full lifee	3000	2036	2195	4152	4152	3747	3792	894	1053	1299	1413	5 / 10	3000	3500	3000	350	
2-stage	3300	2186	2336	4452	4452	4047	4092	1044	1194	1449	1554	5 / 10	3000	3500	3000	350	
Sty	3600	2345	2495	4752	4752	4347	4392	1203	1353	1608	1713	5 / 10	2900	3400	2900	340	
50	4000	2555	2705	5152	5152	4747	4792	1413	1563	1818	1923	5 / 10	2800	3200	2800	330	
	4300	2041	2141	5452	5452	5083	5092	899	999	1268	1359	5/6	2500	2900	2750	300	
st	4500	2121	2221	5652	5652	5283	5292	979	1079	1348	1439	5/6	2400	2800	2700	300	
mas	4800	2221	2321	5952	5952	5583	5592	1079	1179	1448	1539	5/6	2200	2500	2600	290	
Je L	5000	2287	2387	6152	6152	5783	5792	1145	1245	1514	1605	5/6	2000	2300	2500	285	
-stage	*5500	2451	2551	6652	6652	6283	6292	1309	1409	1678	1769	3/6	1500	1750	2350	270	
3-8	*6000	2617	2717	7152	7152	6783	6792	1475	1575	1844	1935	3/6	1200	1250	2050	215	
>	^6500	2845	2946	7652	7652	7283	7292	1703	1804	2072	2164	3/6	900	1000	1850	190	

For overall height without backrest: -355mm (J30MX); -405 (J30UX); -369 adopt double tire. (Don't assemble side-shifter on the single tire forklift.)