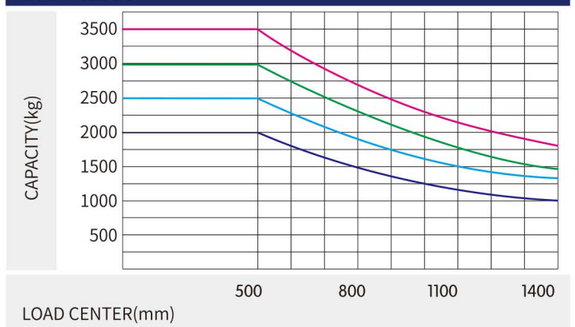
CPD 20/25/30/35 - A7LiH2

Lithium battery and charger configuration

Vehick	Battery configuration	Battery voltage (V)	Battery capacity(Ah)	Charger moder
CPD20/25-A7LiH2	Standard	80	280	D80V100ALi-438
CPD30/35-A7LiH2				
CPD20/25-A7LiH2	Optional		173、202、230、330、346 、410、460、560	D80V200ALi-428
CPD30/35-A7LiH2				

Load curve



CPD20 CPD25 CPD30 CPD35

Note:The vertical axis stands for load capacity and the horizontal axis stands for load center which is calculated from the front of the fork. The base point of the standard load refers to the center position of the cube with 1000mm length of side. When mast is tilted forward, nonstandard fork usage or load with over wide goods, load capacity will be reduced. Different load capacity in different load center can be known in time through load chart.

Example of oeder code :

CPD 35 - A 7 Li H2

- H2 — New H2 series
- Li — Lithium battery
- 7 — Songzheng electric control
- A — Variant code
- 35 — Rated capacity
- CPD — Lithium battery balanced forklift

LI ION

THE BEST CHOICE TO REPLACE INTERNAL COMBUSTION FORKLIFTS

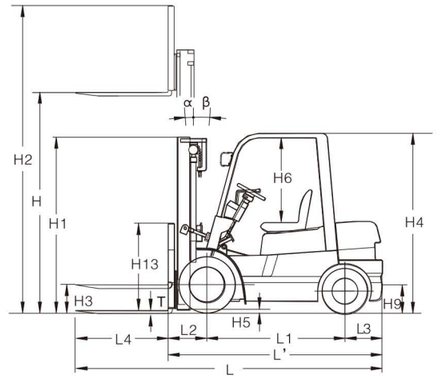
- Lithium iron battery cells have strong power
- Quickly charge and use as needed
- Zero carbon emissions green and environmentally friendiy
- Low noise and quiet driving comfort
- The cost of using electricity is only about 1/5 of the fuel cost

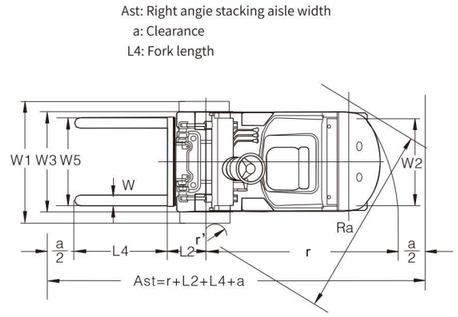
New H2 series **2-3.5 t** Lithium battery balanced forklift

CPD 20/25/30/35 - A7LiH2

Manufacturer and Technical Data

	Characteristic						
1.01	model			CPD20	CPD25	CPD30	CPD35
1.02	Configuration number			A7LiH2		A7LiH2	
1.03	Rated lifting capacity	Q	kg	2000	2500	3000	3500
1.04	Load center	c	mm	500			
1.05	Power mode			Lithium battery			
1.06	Driving style			Ride style			
	Size						
2.01	Maximum lifting height	H	mm	3000			
2.02	Full height of the gantry (fork landing, gantry vertical)	H1	mm	2000		2070	2120
2.03	Full height of the mast (forks landing, mast vertical)	H2	mm	4030		4217	4217
2.04	Free lift height	H3	mm	150		155	160
2.05	Full height (roof support)	H4	mm	2070		2090	
2.06	Minimum ground clearance(at the mast)	H5	mm	115		135	
2.07	Distance from seat surface to roof frame	H6	mm	1035			
2.08	Height of traction pin	H9	mm	290		310	
2.09	Shelf height (calculated from the fork surface of the mast)	H13	mm	1000		1182	1177
2.10	Full length (with fork)	L	mm	3432	3657	3763	3769
2.11	Full length (without fork)	L'	mm	2512	2587	2693	2699
2.12	Wheelbase	L1	mm	1600	1600	1700	1700
2.13	Front overhang	L2	mm	465	465	478	484
2.14	Rear overhang	L3	mm	440	515	515	515
2.15	Full width	W1	mm	1150	1150	1225	1225
2.16	Front track width	W3	mm	970	970	1000	1000
2.17	Rear track width	W2	mm	970	970	970	970
2.18	Fork adjustment range (outer)maximum/minimum	W5	mm	1030/244	1030/244	1060/250	1060/250
2.19	Minimum turning radius (outside)	r	mm	2170	2240	2400	2420
2.20	Minimum turning radius (inside)	r'	mm	160	160	200	200
2.21	Minimum right angle channel width	Ra	mm	2200	2280	2380	2400
2.22	Right angle stacking aisle width for pallet 1000 x1200mm	Ast	mm	3835	3905	4078	4104
2.23	Right angle stacking aisle width for pallet 1200 x 800mm	Ast	mm	4035	4105	4278	4304
2.24	Mast inclination, front/rear	α/β	°	6/12			
2.25	Fork size, thickness/width/length	L4×T×W	mm	40×122×920	40×122×1070	45×125×1070	50×125×1070





Manufacturer and Technical Data

	Characteristic					
1.02	model		CPD20	CPD25	CPD30	CPD35
1.03	Configuration number		A7LiH2		A7LiH2	
	Performance					
3.01	Maximum driving speed fully loaded/unloaded	km/h	18/19		18/19	
3.02	Lifting speed, fully loaded/unloaded	mm/s	370/570		350/450	300/440
3.03	Descending speed fully loaded/unloaded	mm/s	470/550		450/500	350/400
3.04	Maximum traction force fully loaded/unloaded	KN	15/12		19/13	
3.05	Gradeability, fully loaded/unloaded	%	18/20		18/20	
	Weight					
4.01	Total weight (unloaded/fully loaded)	kg	3300/5300	3650/6150	4250/7250	4630/8130
4.02	Bridge load, unloaded, front/rear	kg	1540/1760	1470/2180	1700/2550	1852/2778
4.03	Bridge load, fully loaded, front/rear	kg	4710/590	5440/710	6470/780	7317/813
	Wheels and tires					
5.01	Tire type		Pneumatic tire			
5.02	Number of wheels(front/rear)		2/2			
5.03	Tire,front		7.00-12-12PR		28×9-15-14PR	
5.04	Tire,rear		6.00-9-10PR		6.5-10-10PR	
	Battery					
6.01	Battery voltage/capacity	V/Ah	80/280 (Optional 175、202、230、330、350 、410、460、560)			
6.02	Battery weight	kg	308			
	Motors and controllers					
7.01	Drive motor power(S2-60min)	kW	15		18	
7.02	Lifting motor power(S3-15min)	kW	16			
7.03	Control mode of drive motor		MOSFET/AC			
7.04	Control mode of lifting motor		MOSFET/AC			
7.05	Controller model		Songzheng electric control			
	Other					
8.01	Service brake/Parking brake		Hydraulic / Machinery			
8.02	Hydraulic system working pressure	Mpa	17.5			

CPD 20/25/30/35 - A7LiH2

2-2.5t WIDE VIEW MAST

Mast model	Max.fork height (mm)	Capacity at 500mm (Load center)(kg)		Free lifting height(mm)		Mast overall height (Fork to the ground) (mm)	Mast overall height(fork to the top)(mm)		Mast tilt angle a/β(deg.)	Service Weight (kg)	
				Not with backrest	With backrest		Not with backrest	With backrest			
		2t	2.5t	2-2.5t	2-2.5t	2-2.5t	2-2.5t	2-2.5t		2t	2.5t
M200	2000	2000	2500	156	156	1495	2663	3039	6-12	3210	3560
M250	2500	2000	2500	156	156	1745	3163	3539	6-12	3260	3600
M300	3000	2000	2500	156	156	1995	3663	4039	6-12	3300	3650
M330	3300	2000	2500	156	156	2145	3963	4339	6-12	3330	3670
M350	3500	2000	2500	156	156	2245	4163	4539	6-12	3350	3690
M370	3700	2000	2500	156	156	2345	4363	4739	6-12	3360	3710
M400	4000	2000	2500	156	156	2545	4663	5039	6-12	3440	3790
M425	4250	1900 *2000	2300 *2500	156	156	2670	4923	5289	6-6 *6-12	3460	3810
M450	4500	1800 *1900	2200 *2400	156	156	2795	5163	5539	6-6 *6-12	3490	3830
M500	5000	1650 *1750	1800 *2250	156	156	3045	5663	6039	6-6 *6-12	3530	3880
M550	5500	1400 *1700	1500 *2000	156	156	3345	6163	6539	3-6 *3-6	3630	3970
M600	6000	1000 *1600	1050 *1800	156	156	3595	6663	7039	3-6 *3-6	3670	4020

3-3.5t WIDE VIEW MAST

Mast model	Max.fork height (mm)	Capacity at 500mm (Load center)(kg)		Free lifting height(mm)				Mast overall height (Fork to the ground) (mm)		Mast overall height(fork to the top)(mm)				Mast tilt angle a/β(deg.)	Service Weight (kg)	
				Not with backrest		With backrest				Not with backrest		With backrest				
		3t	3.5t	3t	3.5t	3t	3.5t	3t	3.5t	3t	3.5t	3t	3.5t		3t	3.5t
M200	2000	3000	3500	155	160	155	160	1570	1680	2741	2791	3217	3217	6-12	4150	4520
M250	2500	3000	3500	155	160	155	160	1820	1930	3241	3291	3717	3717	6-12	4220	4580
M300	3000	3000	3500	155	160	155	160	2070	2180	3741	3791	4217	4217	6-12	4250	4630
M330	3300	3000	3500	155	160	155	160	2220	2330	4041	4091	4517	4517	6-12	4270	4660
M350	3500	3000	3500	155	160	155	160	2320	2430	4241	4291	4717	4717	6-12	4290	4680
M370	3700	3000	3500	155	160	155	160	2420	2530	4441	4491	4917	4917	6-12	4310	4700
M400	4000	3000	3500	155	160	155	160	2620	2730	4741	4791	5217	5217	6-12	4390	4790
M425	4250	2900 *3000	3250 *3400	155	160	155	160	2745	2855	4991	5041	5467	5467	6-6 *6-12	4420	4710
M450	4500	2850 *3000	3100 *3350	155	160	155	160	2870	2980	5241	5291	5717	5717	6-6 *6-12	4440	4840
M500	5000	2550 *2850	2800 *2900	155	160	155	160	3120	3230	5741	5791	6217	6217	6-6 *6-12	4490	4890
M550	5500	2250 *2650	2350 *2700	155	160	155	160	3420	3530	6241	6291	6717	6717	3-6 *3-6	4590	4500
M600	6000	1550 *2200	1750 *2300	155	160	155	160	3670	3780	6741	6791	7217	7217	3-6 *3-6	4630	5050

2-2.5t WIDE VIEW FULL FREE 2-STAGE MAST

Mast model	Max.fork height (mm)	Capacity at 500mm (Load center)(kg)		Free lifting height(mm)		Mast overall height (Fork to the ground) (mm)	Mast overall height(fork to the top)(mm)		Mast tilt angle a/β(deg.)	Service Weight (kg)	
				Not with backrest	With backrest		Not with backrest	With backrest			
		2t	2.5t	2-2.5t	2-2.5t	2-2.5t	2-2.5t	2-2.5t		2t	2.5t
ZM200	2000	2000	2500	867	491	1495	2663	3039	6-12	3240	3580
ZM250	2500	2000	2500	1117	741	1745	3163	3539	6-12	3290	3630
ZM300	3000	2000	2500	1367	991	1995	3663	4039	6-12	3330	3680
ZM330	3300	2000	2500	1517	1141	2145	3967	4343	6-12	3360	3710
ZM350	3500	2000	2500	1617	1241	2245	4163	4539	6-12	3380	3730
ZM370	3700	2000	2500	1717	1341	2345	4363	4739	6-12	3400	3750
ZM400	0.00	2000	2500	1917	1541	2545	4663	5039	6-12	3480	3820
ZM425	4250	1900 *2000	2300 *2500	2042	1666	2670	4914	5290	6-6 *6-12	3500	3850
ZM450	4500	1800 *1900	2200 *2400	2167	1791	2795	5153	5529	6-6 *6-12	3530	3870
ZM500	5000	1650 *1750	1800 *2250	2417	2041	3045	5663	6039	6-6 *6-12	3580	3920
ZM550	5500	1400 *1700	1500 *2000	2717	2341	3345	6163	6539	6-6 *6-6	3680	4020
ZM600	6000	1000 *1600	1050 *1800	2967	2591	3595	6663	7039	6-6 *6-6	3730	4070

3-3.5t WIDE VIEW FULL FREE 2-STAGE MAST

Mast model	Max.fork height (mm)	Capacity at 500mm (Load center)(kg)		Free lifting height(mm)				Mast overall height (Fork to the ground) (mm)		Mast overall height(fork to the top)(mm)				Mast tilt angle a/β(deg.)	Service Weight (kg)	
				Not with backrest		With backrest				Not with backrest		With backrest				
		3t	3.5t	3t	3.5t	3t	3.5t	3t	3.5t	3t	3.5t	3t	3.5t		3t	3.5t
ZM200	2000	3000	3500	864	869	388	443	1570	1680	2735	2785	3211	3211	6-12	4170	4540
ZM250	2500	3000	3500	1114	1119	638	693	1820	1930	3235	3285	3711	3711	6-12	4220	4590
ZM300	3000	3000	3500	1364	1369	888	943	2070	2180	3735	3785	4211	4211	6-12	4270	4650
ZM330	3300	3000	3500	1514	1519	1038	1093	2220	2330	4035	4085	4511	4511	6-12	4300	4680
ZM350	3500	3000	3500	1614	1619	1138	1193	2320	2430	4235	4285	4711	4711	6-12	4320	47000
ZM370	3700	3000	3500	1714	1719	1238	1293	2420	2530	4435	4485	4911	4911	6-12	4340	4720
ZM400	0.00	3000	3500	1914	1919	1438	1493	2620	2730	4735	4785	5211	5211	6-12	4420	4800
ZM425	4250	2900 *3000	3250 *3400	2039	2044	1563	1618	2745	2855	4986	5036	5462	5462	6-6 *6-12	4450	4830
ZM450	4500	2850 *3000	3100 *3350	2164	2169	1688	1743	2870	2980	5235	5285	5711	5711	6-6 *6-12	4470	4860
ZM500	5000	2550 *2850	2800 *2900	2414	2419	1938	1993	3120	3230	5735	5785	6211	6211	6-6 *6-12	4530	4920
ZM550	5500	2250 *2650	2350 *2700	2714	2719	2238	2293	3420	3530	6235	6285	6711	6711	6-6 *6-6	4630	5020
ZM600	6000	1550 *2200	1750 *2300	2964	2969	2488	2543	3670	3780	6735	6785	7211	7211	6-6 *6-6	4680	5060

2-2.5t WIDE VIEW FULL FREE 3-STAGE MAST

Mast model	Max.fork height (mm)	Capacity at 500mm (Load center)(kg)		Free lifting height(mm)		Mast overall height (Fork to the ground) (mm)	Mast overall height(fork to the top)(mm)		Mast tilt angle a/β(deg.)	Service Weight (kg)	
				Not with backrest	With backrest		Not with backrest	With backrest			
		2t	2.5t	2-2.5t	2-2.5t	2-2.5t	2-2.5t	2-2.5t		2t	2.5t
ZSM360	3600	2000	2500	1147	791	1800	4283	4639	6-6	3460	3800
ZSM400	4000	2000	2500	1297	941	1950	4683	5039	6-6	3500	3840
ZSM435	4350	1900 *1900	2300 *2400	1397	1041	2050	5033	5389	6-6 *6-6	3530	3880
ZSM450	4500	1850 *1850	2300 *2400	1447	1091	2100	5183	5539	6-6 *6-6	3540	3890
ZSM470	4700	1800 *1850	2050 *2350	1512	1156	2165	5377	5733	6-6 *6-6	3560	3910
ZSM480	4800	1800 *1800	2000 *2350	1557	1201	2210	5483	5839	6-6 *6-6	3580	3920
ZSM500	5000	1650 *1800	1800 *2300	1647	1291	2300	5683	6039	6-6 *6-6	3600	3940
ZSM540	5400	1450 *1700	1550 *2150	1747	1391	2400	6083	6439	3-6 *3-6	3630	3980
ZSM600	6000	1000 *1600	1050 *1800	1947	1591	2600	6683	7039	3-6 *3-6	3730	4080
ZSM650	6500	600 *1200	700 *1600	2147	1791	2800	7183	7539	3-3 *3-3	3790	4130
ZSM700	7000	400 *1000	450 *1200	2322	1966	2975	7683	8039	3-3 *3-3	3840	4180

NOTE:(1)*stands for the rated capacity when the front tyre is doubie-tyre.

3-3.5t WIDE VIEW FULL FREE 3-STAGE MAST

Mast model	Max.fork height (mm)	Capacity at 500mm (Load center)(kg)		Free lifting height(mm)				Mast overall height (Fork to the ground) (mm)		Mast overall height(fork to the top)(mm)				Mast tilt angle a/β(deg.)	Service Weight (kg)	
				Not with backrest		With backrest				Not with backrest		With backrest				
		3t	3.5t	3t	3.5t	3t	3.5t	3t	3.5t	3t	3.5t	3t	3.5t		3t	3.5t
ZSM360	3600	3000	3500	1114	1119	688	693	1870	1870	4395	4395	4821	4821	6-6	4390	4740
ZSM400	4000	3000	3500	1264	1269	838	843	2020	2020	4795	4795	5221	5221	6-6	4430	4780
ZSM435	4350	2850 *2950	3100 *3300	1364	1369	938	943	2120	2120	5145	5145	5571	5571	6-6 *6-6	4460	4810
ZSM450	4500	2800 *2900	3050 *3200	1414	1419	988	993	2170	2170	5295	5295	5721	5721	6-6 *6-6	4470	4820
ZSM470	4700	2750 *2850	3000 *3100	1474	1479	1048	1053	2230	2230	5495	5495	5921	5921	6-6 *6-6	4490	4840
ZSM480	4800	2700 *2800	2950 *3100	1514	1519	1088	1093	2270	2270	5595	5595	6021	6021	6-6 *6-6	4500	4850
ZSM500	5000	2600 *2750	2800 *2950	1614	1619	1188	1193	2370	2370	5795	5795	6221	6221	6-6 *6-6	4530	4880
ZSM540	5400	2300 *2700	2450 *2650	1714	1719	1288	1293	2470	2470	6195	6195	6621	6621	3-6 *3-6	4560	4910
ZSM600	6000	1500 *2100	1750 *2350	1914	1919	1488	1493	2670	2670	6795	6795	7221	7221	3-6 *3-6	4660	5010
ZSM650	6500	1000 *1800	1000 *1900	2114	2119	1688	1693	2870	2870	7295	7295	7721	7721	3-3 *3-3	4720	5070
ZSM700	7000	700 *1400	900 *1500	2289	2294	1863	1868	3045	3045	7795	7795	8221	8221	3-3 *3-3	4770	5120

NOTE:(1)*stands for the rated capacity when the front tyre is doubie-tyre.