

# Технические характеристики техники Heli с литий-ионной АКБ

 <p><b>0</b> Зеленая энергетика</p>	Отсутствие вредных выбросов, низкий уровень шума, отсутствие тяжелых металлов, отсутствие коррозии, отсутствие кислотных испарений.	 <p><b>4000</b> Долгий срок службы</p>	Более 75% емкости сохраняется после 4000 рабочих смен. Более длительный срок службы, чем у свинцово-кислотных аккумуляторов в равных рабочих условиях, гарантия качества 5 лет или десять тысяч часов для высокоэффективных литиевых аккумуляторов
 <p><b>95%</b> Высокая энергоэффективность</p>	Высокая плотность энергии, скорость саморазряда менее 1% в месяц, коэффициент преобразования энергии 95%, превосходные характеристики зарядки и разрядки.	 <p><b>-25°C</b> Работа в низких температурах</p>	Литиевая батарея лучше свинцово-кислотной при работе от -25 °C до 55 °C
 <p><b>0</b> Не требует обслуживания</p>	Нет необходимости в добавлении жидкости и в защите от пыли, Не требует ежедневного обслуживания, Не требует обслуживания вручную.	 <p><b>2С</b> Быстрая зарядка</p>	Гибкость в подзарядке, простота в эксплуатации, подзаряд не влияет на срок службы батареи. Не требуется замена батареи - экономия средств
 <p><b>6-8 ч</b> Мощность</p>	2 часа зарядки соответствуют 6-8 часам работы.	 <p><b>100%</b> Высокая безопасность</p>	В соответствии с характеристиками промышленных машин, техника получила защитную конструкцию, которая включает безопасные материалы литиевых батарей, тип сердечника батареи, блочную технологию и управление питанием системы.

Литиевая АКБ		Свинцово-кислотная АКБ
1-2 часа	Время зарядки	8-12 часов
≥ 95%	Зарядка	60%
≥ 4000	Срок службы АКБ	1200
5 лет	Гарантия	1 год
0	Замена АКБ (жизненный цикл)	3-4
Не требует обслуживания	Обслуживание	Регулярное обслуживание
-40°C	Работа в низких температурах	Не работает

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**HELI**

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## Серия техники с литий-ионными аккумуляторными батареями



**HELI**

# 1-2.5 Т

## НЗ Серия Вилочный погрузчик с литий-ионной аккумуляторной батареей



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### Технические характеристики

Характеристики							
1.01	Производитель		HELI				
1.02	Модель		CPD10	CPD15	CPD18	CPD20	CPD25
1.03	Номер конфигурации		HB3Li	HB3Li	HB3Li	HB3Li	HB3Li
1.04	Грузоподъемность	Q кг	1000	1500	1750	2000	2500
1.05	Центр тяжести	c мм	500				
Шины			Пневматические шины				
2.01	Тип шин						
2.02	Количество шин (спереди / сзади)		2/2				
2.03	Колесная база передних шин	W3 мм	890	890	920	960	960
2.04	Колесная база задних шин	W2 мм	920	920	920	950	950
2.05	Размер передних шин		6.5-10-10PR	6.5-10-10PR	6.5-10-10PR	7.0-12-14PR	7.0-12-14PR
2.06	Размер задних шин		16X6-10PR	16X6-10PR	16X6-10PR	18X7-14PR	18X7-14PR
Размеры							
3.01	Расстояние от передней оси до спинки вил	L2 мм	410	410	410	465	465
3.02	Угол наклона мачты (вперед / назад)	α/β град	6/12	6/12	6/12	6/12	6/12
3.03	Высота опущенной мачты	H1 мм	1995	1995	1995	2000	2000
3.04	Свободный ход	H3 мм	155	155	155	155	155
3.05	Стандартная высота подъема	H мм	3000	3000	3000	3000	3000
3.06	Высота мачты в выдвинутом виде	H2 мм	4040	4040	4040	4042	4042
3.07	Высота грузозащитной решетки	H4 мм	2130	2130	2130	2150	2150
3.08	Размер вил (Т x Ш x Д)	TxWxL4 мм	32x100x770	35x100x920	35x100x920	40x122x920	40x122x1070
3.09	Класс вилочной каретки согласно		2A	2A	2A	2A	2A
3.10	Длина погрузчика до спинки вил	L' мм	2065	2065	2095	2400	2420
3.11	Ширина погрузчика	W1 мм	1086	1086	1086	1160	1160
3.12	Радиус поворота	r мм	1770	1770	1795	2065	2065
Рабочие характеристики							
4.01	Скорость хода: с/без груза	км/ч	14/15	14/15	14/15	14/15	14/15
4.02	Скорость подъема: с/без груза	мм/с	350/490	340/490	330/490	350/480	340/490
4.03	Скорость опускания: с/без груза	мм/с	410/490	410/490	410/490	410/490	410/490
4.04	Преодолеваемый уклон с грузом	%	18	17	15	16	15
5.01	Общий вес с/без АКБ	кг	2510/2230	2820/2540	2990/2710	3555/3220	3935/3600
Аккумуляторная батарея							
6.01	Напряжение / Номинальная емкость	В/Ач	80/271		80/271		
6.02	Вес АКБ	кг	280		335		
Двигатель и контроллер							
7.01	Мощность тягового двигателя (режим работы S2 - 60 минут)	кВт	8		11		
7.02	Мощность двигателя гидравлики (режим работы S3 - 15%)	кВт	10		12		
8.01	Тип управления приводом (контроллер)		INMOTION				

Примечание: 1. Для получения подробной информации об аккумуляторной батарее, пожалуйста, обратитесь к нашим менеджерам по продаже или инженерам



# 1-1.8t

## G Series Lithium-ion Forklift Truck (Upgrades)

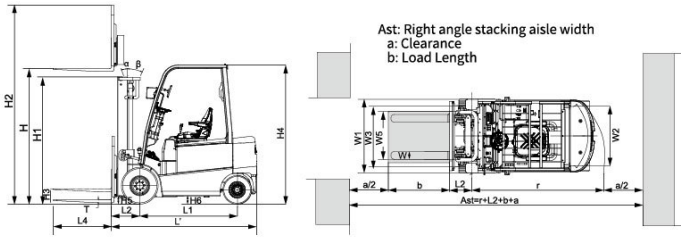


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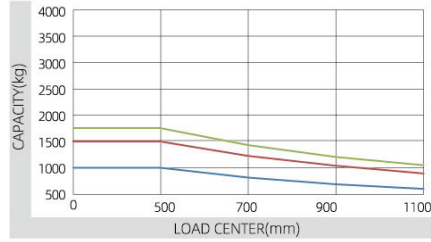
### Manufacturer's Data and Design Characteristics

Characteristics						
1.01	Manufacturer			HELI		
1.02	Model			CPD10	CPD15	CPD18
1.03	Configuration number			GB2Li/GB3Li	GB2Li/GB3Li	GB2Li/GB3Li
1.04	Rated capacity	Q	kg	1000	1500	1800
1.05	Load center distance	c	mm	500	500	500
Tyre						
2.01	Tyre type			Pneumatic tyre	Pneumatic tyre	Pneumatic tyre
2.02	Wheels, number front rear (x=driven wheels)			2X/2	2X/2	2X/2
2.03	Front wheel base	W3	mm	910	910	910
2.04	Rear wheel base	W2	mm	920	920	920
2.05	Tyre (front)			6.00-9-10PR	6.00-9-10PR	6.00-9
2.06	Tyre (rear)			16x6-8-10PR	16x6-8-10PR	16x6-8-10PR
size						
3.01	Front overhang	L2	mm	390	390	390
3.02	Mast tilt angle, front/rear	$\alpha/\beta$	°	6/8	6/8	6/8
3.03	Height with mast retraction	H1	mm	1985	1985	1985
3.04	Free lifting height	H3	mm	145	145	145
3.05	Max. Lifting height	H	mm	3000	3000	3000
3.06	Mast height, extended	H2	mm	4030	4030	4030
3.07	Overhead guard height	H4	mm	2130	2130	2130
3.08	Fork size:thicknessxwidthxlength	TxWxL4	mm	32x100x770	35x100x920	35x100x920
3.09	Fork carriage, din standard			2A	2A	2A
3.10	Truck body length (fork excluded)	L'	mm	2070	2070	2070
3.11	truck body width	W1	mm	1086	1086	1086
3.12	Turning radius	r	mm	1750	1750	1750
Performance						
4.01	Travelling speed: loaded/unloaded		km/h	15/16	15/16	15/16
4.02	Lifting speed: loaded/unloaded		m/s	410/600	400/600	380/600
4.03	Lowering speed: loaded/unloaded		m/s	400/500	400/500	400/500
4.04	Gradeability (loaded)		%	24	22	20
Weight						
5.01	Total weight (with /without battery)		kg	2700/2350	2955/2605	3105/2755
battery						
6.01	Battery voltage/capacity		V/Ah	80/202	80/202	80/202
6.02	Battery weight		kg	230	230	230
Motor and controller						
7.01	Driving motor power (s2-60min)		kw	kW8.2	8.2	8.2
7.02	lifting motor power (s3-15%)		kw	10.6	10.6	10.6
others						
8.01	Type of drive control			ZAPI/INMOTION	ZAPI/INMOTION	ZAPI/INMOTION

Note:For configuration number,2:ZAPI Controller, 3:INMOTION Controller



### Load Curve



**Note:** The vertical axis stands for load capacity and 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 mast is tilted forward, using non-standard forks or 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.

### LITHIUM BATTERY CHARGER

MODEL	Lithium battery brand		ENEROC		CNSG Hong SIFANG			China Avitation Lithium Battery		
	Voltage	Capacity	404Ah	542Ah	400 Ah	500 Ah	600 Ah	750 Ah	400Ah	540Ah
CPD10/CPD15/CPD18	48V		●	—	○	○	—	—	○	—
Low temperature preheating of lithium battery PACK										
Charger	48V		●		D48V-200A-LI D48V-200A-LI-423					
	80V				D80V-200A-LI D80V-200A-LI-423					

Note: ● standard, ○ Optional, — non-configurable

### WIDE VIEW MAST

Mast model	Max. lifting height (mm)	Load capacity (load center 500mm)(kg)			Mast overall height (fork to the ground)(mm)	Mast tilt angle (°) α/β	Service weight(kg)		
		1t	1.5t	1.8t			1-1.8t	1-2.5t	1t
M200	2000	1000	1500	1800	1485	6/8	2670	2925	3075
M250	2500	1000	1500	1800	1735	6/8	2685	2940	3090
M300	3000	1000	1500	1800	1985	6/8	2700	2955	3105
M330	3300	1000	1500	1800	2135	6/8	2720	2975	3125
M350	3500	1000	1500	1800	2235	6/8	2735	2990	3140
M370	3700	1000	1500	1800	2335	6/8	2745	3000	3150
M400	4000	1000	1500	1800	2535	6/5	2795	3050	3200
M425	4250	1000	1500	1800	2660	6/5	2810	3065	3215
M450	4500	1000	1400	1600	2785	6/5	2830	3085	3235
M500	5000	1000	1200	1350	3035	6/5 6/5	2860	3115	3265
M550	5500	900	1100	1200	3335	3/3 6/5	2920	3175	3325
M600	6000	800 *1000	800 *1150	850 *1400	3585	3/3 6/5	2955	3210	3360

Note: (1) \*refers to rated capacity with dual front tires or widen tires;  
(2) 1-1.8t: free lifting height 365mm increase without backrest.

### WIDE VIEW FULL FREE 2-STAGE MAST

Mast model	Max. lifting height (mm)	Load capacity (load center 500mm)(kg)			Mast overall height (mm)	Free lifting height (with backrest)(mm)	Mast tilt angle (°) α/β	Service weight(kg)		
		1t	1.5t	1.8t				1t	1.5t	1.8t
ZM200	2000	1000	1500	1800	1485	478	6/8	2680	2935	3085
ZM250	2500	1000	1500	1800	1735	728	6/8	2715	2970	3120
ZM300	3000	1000	1500	1800	1985	978	6/8	2750	3005	3155
ZM330	3300	1000	1500	1800	2135	1128	6/8	2770	3025	3175
ZM350	3500	1000	1500	1800	2235	1228	6/8	2785	3040	3190
ZM370	3700	1000	1500	1800	2335	1328	6/8	2795	3050	3200
ZM400	4000	1000	1500	1800	2535	1528	6/5	2845	3100	3250
ZM425	4250	1000	1500	1800	2660	1653	6/5	2865	3120	3270
ZM450	4500	1000	1400	1600	2785	1778	6/5	2885	3140	3290
ZM500	5000	1000	1200	1350	3035	2028	6/5 6/5	2915	3170	3320
ZM550	5500	900	1100	1200	3335	2328	3/3 6/5	2980	3235	3385
ZM600	6000	800 *1000	800 *1150	850 *1400	3585	2578	3/3 6/5	3010	3265	3415

Note: (1) \*refers to rated capacity with dual front tires or widen tires;  
(2) 1-1.8t: free lifting height 365mm increase without backrest.

### WIDE VIEW FULL FREE 3-STAGE MAST

Mast model	Max. lifting height (mm)	Load capacity (load center 500mm)(kg)			Mast overall height (mm)	Free lifting height (with backrest)(mm)	Mast tilt angle (°) α/β	Service weight(kg)		
		1t	1.5t	1.8t				1t	1.5t	1.8t
ZSM360	3600	1000	1500	1800	1780	770	6/8	2795	3050	3145
ZSM400	4000	1000	1500	1800	1915	905	6/5	2820	3075	3170
ZSM435	4350	1000	1450	1650	2030	1020	6/5	2845	3100	3195
ZSM450	4500	1000	1400	1600	2080	1070	6/5	2855	3110	3205
ZSM470	4700	1000	1350	1550	2150	1140	6/5	2870	3125	3220
ZSM480	4800	1000	1300	1500	2180	1170	6/5	2880	3135	3230
ZSM500	5000	1000	1200	1300	2280	1270	6/5 6/5	2900	3155	3250
ZSM540	5400	1000	1000	1050	2405	1395	3/3 6/5	2925	3180	3275
ZSM600	6000	700 *1000	750 *1100	750 *1300	2630	1620	3/3 6/5	2995	3250	3345
ZSM650	6500	550 *1000	600 *1050	600 *1100	2830	1820	3/3 6/5	3035	3290	3385
ZSM700	7000	*900	*950	*950	3015	2005	3/3 6/5	3075	3330	3425

Note: (1) \*refers to rated capacity with dual front tires or widen tires;  
(2) 1-1.8t: free lifting height 480mm increase without backrest;  
(3) 1-1.8t: free lifting height 400mm increase without backrest when assembled with pulley block.

# 2-3.5t

## G Series Lithium-ion Forklift Truck (Upgrades)



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### Manufacturer's Data and Design Characteristics

Characteristics							
1.01	Manufacturer						
1.02	Model		CPD20(NEW)	CPD25(NEW)	CPD30(NEW)	CPD35(NEW)	
1.03	Configuration number		GB2Li/GB3Li	GB2Li/GB3Li	GB2Li/GB3Li	GB2Li/GB3Li	
1.04	Rated capacity	Q	kg	2000	2500	3000	3500
1.05	Load center distance	c	mm	500	500	500	500
Tyre							
2.01	Tyre type		pneumatic tyre		pneumatic tyre/solid		solid tyre
2.02	Wheels, number front rear (x=driven wheels)		2/2		2/2		2/2
2.03	front wheel base	W3	mm	960	960	1000	1000
2.04	Rear wheel base	W2	mm	950	950	990	990
2.05	Tyre (front)		23×9-10-16PR		23×9-10-16PR		28×9-15-14PR
2.06	tyre (rear)		18×7-8-14PR		18×7-8-14PR		200/50-10
size							
3.01	Front overhang	L2	mm	425	425	485	490
3.02	Mast tilt angle, front/rear	α/β	°	6/8	6/8	6/10	6/10
3.03	Height with mast retraction	H1	mm	1995	1995	2075	2180
3.04	Free lifting height	H3	mm	145	145	145	150
3.05	Max. Lifting height	H	mm	3000	3000	3000	3000
3.06	Mast height, extended	H2	mm	4042	4042	4230	4230
3.07	Overhead guard height	H4	mm	2150	2150	2215	2215
3.08	Fork size:thickness×width×length	T×W×L4	mm	40×122×920	40×122×1070	45×125×1070	50×125×1070
3.09	Fork carriage, din standard			2A	2A	3A	3A
3.10	Truck body length (fork excluded)	L'	mm	2270	2280	2525	2550
3.11	truck body width	W1	mm	1185	1185	1245	1245
3.12	Turning radius	r	mm	2000	2010	2240	2260
Performance							
4.01	Travelling speed: loaded/unloaded		km/h	16/16	16/16	17/18	16.5/17.5
4.02	Lifting speed: loaded/unloaded		mm/s	350/510	330/510	340/460	325/450
4.03	Lowering speed: loaded/unloaded		mm/s	450/500	450/500	-/500	-/500
4.04	Gradeability (loaded)		%	22	20	18	15
Weight							
5.01	Total weight (with /without battery)		kg	3600/3340	3910/3650	4450/4100	5060/4710
battery							
6.01	Battery voltage/capacity(discharging capacity in 5 hours)		V/Ah	80/271	80/271	80/404	350
6.02	battery weight		kg	260	260	350	
Motor and controller							
7.01	Driving motor power (s2-60min)		kW	12	12	16.6	13.5
7.02	lifting motor power (s3-15%)		kW	15	15	13.5	
others							
8.01	Type of drive control			ZAPI/INMOTION	ZAPI/INMOTION	ZAPI/INMOTION	ZAPI/INMOTION

NOTE: For configuration number, 2: ZAPI Controller; 3: INMOTION Controller;





# 4-5t

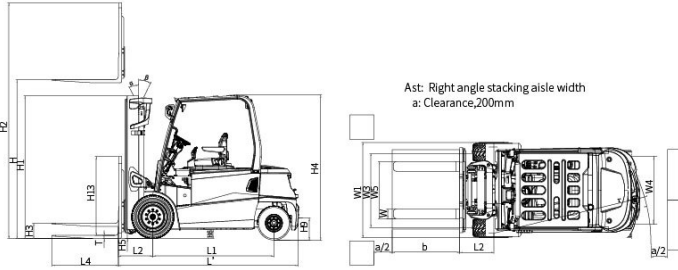
## G3 Series Lithium-ion Forklift Truck



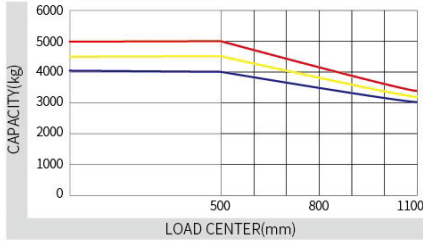
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### Manufacturer's Data and Design Characteristics

Character				
1.01	Manufacturer			
1.02	Model			CPD40                      CPD45                      CPD50
1.03	Configuration number			GB2Li/GB3Li                      GB2Li/GB3Li                      GB2Li/GB3Li
1.04	Rated capacity	Q	kg	4000                      4500                      5000
1.05	Load center distance	c	mm	500                      500                      500
Tyre				
2.01	Tyre type			Solid tyre                      Solid tyre                      Solid tyre
2.02	Wheel number (front/rear)			2/2                      2/2                      2/2
2.03	Front wheel base	W3	mm	1120                      1120                      1189
2.04	Rear wheel base	W4	mm	1070                      1070                      1070
2.05	Tyre (front)			250-15                      250-15                      28×12.5-15
2.06	Tyre (rear)			21X8-9                      21X8-9                      21X8-9
Size				
3.01	Front overhang	L2	mm	560                      560                      560
3.02	Mast tilt angle, front/rear	α/β	°	6/8                      6/8                      6/8
3.03	Height with mast retraction	H1	mm	2240                      2240                      2230
3.04	Free lifting height	H3	mm	150                      150                      150
3.05	Max.lifting height	H	mm	3000                      3000                      3000
3.06	Max.height under working condition	H2	mm	4235                      4235                      4225
3.07	Overhead guard height	H4	mm	2275                      2275                      2270
3.08	Fork size: thickness×width×length	TxWxL4	mm	50×150×1070                      50×150×1070                      50×150×1070
3.09	Fork arm carrier, DIN standard			3A                      3A                      3A
3.10	Truck body length (fork excluded)			2920                      2920                      2920
3.11	Truck body width			1350                      1350                      1500
3.12	Turning radius			2580                      2580                      2580
Performance				
4.01	Travelling speed: loaded/unloaded			km/h                      13/14                      13/14                      13/14
4.02	Lifting speed: loaded/unloaded			mm/s                      310/450                      280/450                      260/450
4.03	Lowering speed: loaded/unloaded			mm/s                      500/450                      500/450                      500/450
4.04	Gradeability: loaded/unloaded			%                      16/27                      15/26                      14/25
Weight				
5.01	Total weight(with/without battery)			kg                      6670/6085                      6835/6150                      7210/6525
Battery				
6.01	Battery voltage/capacity			V/Ah                      80/542                      80/606                      80/606
6.02	Battery weight			kg                      585                      685                      685
Motor and controller				
7.01	(S2-60min) Drive motor power(S2-60min)			kW                      20                      20                      20
7.02	(S3-15%)Lifting motor power(S3-15%)			kW                      26.5                      26.5                      26.5
7.03	(S3-15%) Steering motor power(S3-15%)			kW                      2.5                      2.5                      2.5
Others				
8.01	Type of drive control			ZAPI/INMOTION                      ZAPI/INMOTION                      ZAPI/INMOTION



Load Curve



CPD40-GB2/GB3Li CPD45-GB2/GB3Li  
 CPD50-GB2/GB3Li

Note: The vertical axis stands for load capacity and 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 mast is tilted forward, using non-standard forks or 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 (load center 500mm)(kg)			Mast overall height (Fork to the ground) (mm)		Free lift (mm)	Service weight(kg)			Mast tilt angle Front/rear
		CPD40	CPD45	CPD50	Mast lowered (mm)	Fork lifted with backrest (mm)		CPD40	CPD45	CPD50	
M250	2500	4000	4500	5000	1980	3733	150	6615	6780	7155	8-8°
M300	3000	4000	4500	5000	2230	4233	150	6670	6835	7210	8-8°
M330	3300	4000	4500	5000	2380	4533	150	6700	6865	7240	8-8°
M350	3500	4000	4500	5000	2480	4733	150	6720	6885	7260	8-8°
M370	3700	4000	4450	4900	2580	4933	150	6745	6910	7285	8-8°
M400	4000	4000	4350	4750	2780	5233	150	6785	6950	7325	8-8°
M425	4250	4000	4250	4650	2905	5483	150	6810	6975	7350	8-8°
M450	4500	4000	4150	4500	3030	5733	150	6840	7005	7380	8-8°
M475	4750	3900	4100	4400	3155	5983	150	6865	7030	7405	8-8°
M500	5000	3800	4000	4300	3280	6233	150	6895	7060	7435	8-8°
M550	5500	3650	3800	4150	3580	6733	150	6955	7120	7495	6-5°
M600	6000	3400	3450	3850	3830	7233	150	7010	7175	7550	3-5°

Free lift without backrest will increase by 271mm.

WIDE VIEW FULL FREE 2-STAGE MAST

Mast model	Max. lifting height mm	Load capacity (load center 500mm)(kg)			Mast overall height (Fork to the ground) (mm)		Free lift (with backrest) (mm)	Service weight(kg)			Mast tilt angle Front/rear
		CPD40	CPD45	CPD50	Mast lowered (mm)	Fork lifted with backrest (mm)		CPD40	CPD45	CPD50	
ZM250	2500	4000	4500	5000	1980	3733	777	6710	6875	7250	8-8°
ZM261	2610	4000	4500	5000	2035	3792	832	6720	6885	7260	8-8°
ZM300	3000	4000	4500	5000	2230	4233	1027	6770	6935	7310	8-8°
ZM330	3300	4000	4500	5000	2380	4533	1177	6803	6968	7343	8-8°
ZM350	3500	4000	4500	4900	2480	4733	1277	6833	6998	7373	8-8°
ZM370	3700	4000	4400	4800	2580	4933	1377	6865	7030	7405	8-8°
ZM400	4000	4000	4300	4650	2780	5233	1577	6915	7080	7455	8-8°
ZM425	4250	4000	4200	4550	2905	5483	1702	6945	7110	7485	8-8°
ZM450	4500	3950	4100	4450	3030	5733	1827	6983	7148	7523	8-8°
ZM475	4750	3850	4050	4350	3155	5983	1952	7015	7180	7555	8-8°
ZM500	5000	3750	3950	4250	3280	6233	2077	7050	7215	7590	8-8°
ZM550	5500	3600	3750	4100	3580	6733	2377	7115	7280	7655	6-5°
ZM600	6000	3350	3400	3800	3830	7233	2627	7170	7335	7710	3-5°

Free lift without backrest will increase by 271mm.

WIDE VIEW FULL FREE 3-STAGE MAST

Mast model	Max. lifting height mm	Load capacity (load center 500mm)(kg)			Mast overall height (Fork to the ground) (mm)		Free lift (with backrest) (mm)	Service weight(kg)			Mast tilt angle Front/rear
		CPD40	CPD45	CPD50	Mast lowered (mm)	Fork lifted with backrest (mm)		CPD40	CPD45	CPD50	
ZSM360	3600	4000	4350	4900	1930	4833	727	6915	7080	7455	8-8°
ZSM400	4000	3950	4200	4750	2070	5233	867	6965	7130	7505	8-8°
ZSM435	4350	3850	4050	4450	2180	5583	977	6995	7160	7535	8-8°
ZSM450	4500	3800	4000	4400	2230	5733	1027	7015	7180	7555	8-8°
ZSM470	4700	3700	3950	4300	2345	6033	1142	7040	7205	7580	8-8°
ZSM500	5000	3600	3850	4200	2480	6233	1277	7085	7250	7625	8-8°
ZSM540	5400	3450	3700	4050	2615	6633	1412	7215	7380	7755	6-5°
ZSM600	6000	3250	3350	3650	2850	7233	1647	7305	7470	7845	6-5°
ZSM650	6500	2650	2750	3150	3015	7733	1812	7365	7530	7905	6-5°
ZSM700	7000	2150	2250	2650	3215	8233	2012	7435	7600	7975	3-5°

Free lift without backrest will increase by 380mm.

# 6-7t

## H2000 Series Lithium-ion Forklift Truck

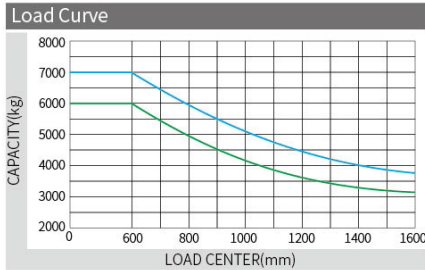
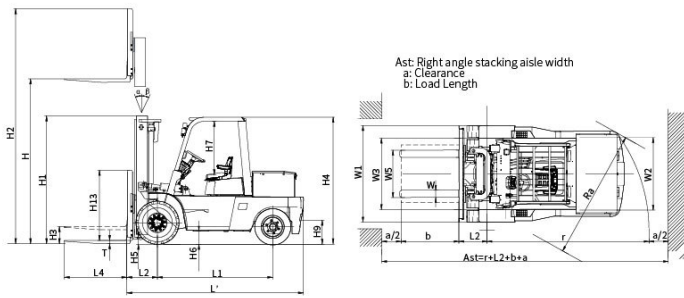


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### Manufacturer's Data and Design Characteristics

Character				HELI	
1.01	Manufacturer			HELI	
1.02	Model			CPD60	CPD70
1.03	Configuration number			HA2Li	HA2Li
1.04	Rated capacity	Q	kg	6000	7000
1.05	Load center distance	c	mm	600	600
Tyre					
2.01	Tyre type			Pneumatic+Superelastic	Pneumatic+Superelastic
2.02	Wheel number (front/rear)			4/2	4/2
2.03	Front wheel base	W3	mm	1470	1470
2.04	Rear wheel base	W2	mm	1500	1500
2.05	Tyre (front)			8.25-15-14PR	8.25-15-14PR
2.06	Tyre (rear)			28×9-15	28×9-15
Size					
3.01	Front overhang	L2	mm	595	600
3.02	Mast tilt angle, front/rear	$\alpha/\beta$	°	6/12	6/12
3.03	Height with mast retraction	H1	mm	2500	2500
3.04	Free lifting height	H3	mm	200	200
3.05	Max.lifting height	H	mm	3000	3000
3.06	Max.height under working condition	H2	mm	4400	4400
3.07	Overhead guard height	H4	mm	2450	2450
3.08	Fork size: thickness×width×length	TxWxL4	mm	60×150×1220	65×150×1220
3.09	Fork carriage, din standard			4A	4A
3.10	Truck body length (fork excluded)	L'	mm	3440	3440
3.11	Truck body width	W1	mm	1994	1994
3.12	Turning radius	r	mm	3440	3440
Performance					
4.01	Travelling speed: loaded/unloaded			15/15	14/15
4.02	Lifting speed: loaded/unloaded			360/500	350/500
4.03	Lowering speed: loaded/unloaded			350/320	350/320
4.04	Gradeability: loaded/unloaded			18/25	16/21
5.01	Total weight(with/without battery)	kg		8770/8070	9360/8660
Battery					
6.01	Battery voltage/capacity	V/Ah		80/813	80/813
6.02	Battery weight	kg		700	700
Motor and controller					
7.01	(S2-60min) Drive motor power(S2-60min)	kW		30 (AC)	30 (AC)
7.02	(S2-60min) Lifting motor power(S2-60min)	kW		16.6×2 (AC)	16.6×2 (AC)
Others					
8.01	Type of drive control			ZAPI	ZAPI

NTOE: For configuration number, 2: ZAPI Controller; 3:INMOTION Controller.



Note: The vertical axis stands for load capacity and 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 mast is tilted forward, using non-standard forks or 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.

LITHIUM BATTERY CHARGER					
Model	Battery	Voltage (V)	Capacity (Ah)	Supplier	
CPD60	Standard	80	813	Standard	D80V-400A-Li-124
CPD70	Standard	80	813	Standard	D80V-400A-Li-124

WIDE VIEW MAST								
Mast model	Max. lifting height mm	Load capacity (load center 500mm)(kg)		Mast overall height (fork to the ground) (mm)		Mast tilt angle (°) α/β	Service weight(kg)	
		6t	7t	Mast lowered	Fork lifted (with backrest)		Front/Rear	6t
M200	2000	6000	7000	2000	3355	6-12°	8716	9086
M250	2500	6000	7000	2250	3855	6-12°	8780	9150
M270	2700	6000	7000	2350	4055	6-12°	8810	9180
M300	3000	6000	7000	2500	4355	6-12°	8860	9230
M330	3300	6000	7000	2650	4655	6-12°	8910	9280
M350	3500	6000	7000	2750	4855	6-12°	8940	9320
M375	3750	6000	7000	2875	5105	6-12°	8980	9360
M400	4000	6000	7000	3050	5355	6-12°	9150	9530
M425	4250	6000	7000	3175	5605	6-12°	9190	9570
M450	4500	6000	7000	3300	5855	6-12°	9230	9610
M475	4750	6000	7000	3425	6105	6-6°	9270	9650
M500	5000	6000	7000	3550	6355	6-6°	9310	9690
M550	5500	5700	6600	3850	6855	3-6°	9510	9880
M600	6000	5400	6400	4100	7355	3-6°	9590	9960

WIDE VIEW FULL FREE 3-STAGE MAST									
Mast model	Max. lift height mm	Load capacity (load center 500mm)(kg)		Mast overall height(mm)		Free lift height (with backrest)	Mast tilt angle	Service weight (kg)	
		6t	7t	Mast lowered	Fork lifted (with backrest)			Front/Rear	6t
ZSM360	3600	5600	6200	2335	4955	910	6-6°	9550	9900
ZSM400	4000	5600	6200	2470	5355	1040	6-6°	9610	9960
ZSM435	4350	5600	6200	2585	5705	1156	6-6°	9670	10000
ZSM480	4800	5600	6200	2740	6155	1310	6-6°	9860	10190
ZSM500	5000	5600	6200	2805	6355	1380	3-6°	9890	10220
ZSM540	5400	5300	6200	2940	6755	1510	3-6°	9960	10390
ZSM600	6000	5000	5600	3140	7355	1710	3-6°	10050	10570
ZSM650	6500	4500	5000	3405	7855	1975	3-6°	10160	10690
ZSM700	7000	4000	4500	3515	8355	2085	3-6°	10270	10800

NOTE: 6T Free lifting Height without backrest will increase by 380mm; 7T Free lifting Height without backrest will increase by 225mm.

# 8.5-10t

## G Series Lithium-ion Forklift Truck

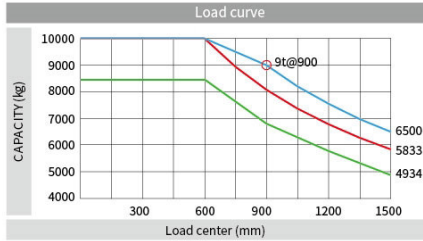
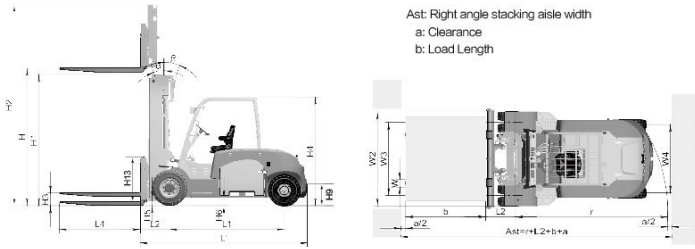


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### Manufacturer's Data and Design Characteristics

Character							
1.01	Manufacturer			HELI			
1.02	Model			CPD85		CPD100	
1.03	Configuration number			GA2Li			GB2Li
1.04	Rated capacity	Q	kg	8500		10000	10000
1.05	Load center distance	c	mm	600		600	600 <sup>Ⓓ</sup>
Tyre							
2.01	Tyre type			tyre			
2.02	Wheel number (front/rear)			4×/2			
2.03	Front wheel base	W3	mm	1636			
2.04	Rear wheel base	W4	mm	1524			
2.05	Tyre (front)			8.25-15			
2.06	Tyre (rear)			250-15			
Size							
3.01	Front overhang	L2	mm	660			
3.02	Mast tilt angle, front/rear	α/β	°	6/9			
3.03	Height with mast retraction	H1	mm	2700		2850	2950
3.04	Free lifting height	H3	mm	200			
3.05	Max.lifting height	H	mm	3000			
3.06	Max.height under working condition	H2	mm	4226		4360	4510
3.07	Overhead guard height	H4	mm	2445			
3.08	Fork size: thickness×width×length	T×W×L4	mm	70×175×1370		80×175×1370	88×175×1820
3.09	Truck body length (fork excluded)	L'	mm	3580		3760	
3.10	Truck body width	W2	mm	2116/1750			
3.11	Turning radius	r	mm	3140		3320	
Performance							
4.01	Travelling speed: loaded/unloaded			14/16		13/15	
4.02	Lifting speed: loaded/unloaded			0.30/0.37		0.245/0.335	
4.03	Lowering speed: loaded/unloaded			0.42/0.38			
4.04	Gradeability: loaded/unloaded			15/25		15/20	
Weight							
5.01	Total weight(with/without battery)	kg		11660/10560		12900/11800	14160/13060
Battery							
6.01	Battery voltage/capacity	V/Ah		80/808		80/1084	
6.02	Battery weight	kg		550×2		550×2	
Motor and controller							
7.01	Drive motor power(S2-60min)	kW		AC17.1×2			
7.02	Lifting motor power(S2-60min)	kW		AC26.5×2			
Others							
8.01	Type of drive control			ZAPI			

NOTE<sup>Ⓓ</sup>:This model is reinforced, and the difference between GA2 and GB2 is that it has the ability of 9t at the center of 900 load. See the load curve for details.



CPD100-GA2  
CPD100-GA2Li

CPD100-GB2  
CPD100-GB2Li

CPD85-GA2  
CPD85-GA2Li

Note: The vertical axis stands for load capacity and 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 mast is tilted forward, using non-standard forks or 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.

LITHIUM BATTERY CHARGER				
Model	Battery	Voltage (V)	Capacity (Ah)	Supplier
CPD85	Standard	80	808Ah	ENEROC
	Optional	80	1084Ah	ENEROC
	Optional	80	800Ah	CNSG Hong Sifang
	Optional	80	1000Ah	CNSG Hong Sifang
	Optional	80	1200Ah	CNSG Hong Sifang
CPD100	Standard	80	1084Ah	ENEROC
	Optional	80	1000Ah	CNSG Hong Sifang
	Optional	80	1200Ah	CNSG Hong Sifang

WIDE VIEW MAST										
Mast model	Max. lifting height mm	load capacity (load center distance 600mm)		Mast overall height (mm)			Service weight(kg)			Mast tilt angle (°) α/β
		8.5t	10t	8.5t	10t-GA2	10t-GB2	CPD85-GA2(Li)	CPD100-GA2(Li)	CPD100-GB2(Li)	
M250	2500	8500	10000	2450	2600	2700	10970	12790	14060	6/9
M270	2700	8500	10000	2550	2700	2800	11030	12820	14090	6/9
M300	3000	8500	10000	2700	2850	2950	11660	12900	14160	6/9
M330	3300	8500	10000	2850	3000	3100	11760	12950	14220	6/9
M350	3500	8500	10000	2950	3100	3200	11900	12990	14260	6/9
M375	3750	8500	10000	3075	3225	3325	11980	13040	14310	6/9
M400	4000	8500	10000	3250	3400	3500	12160	13080	14350	6/9
M425	4250	8500	10000	3375	3525	3625	12310	13150	14420	6/9
M450	4500	8500	10000	3500	3625	3750	12430	13200	14470	6/9
M475	4750	8500	10000	3625	3775	3875	12580	13260	14530	6/9
M500	5000	8500	10000	3750	3900	4000	12680	13300	14570	6/9
M550	5500	8000	9500	4050	4200	4300	13010	13600	14870	3/9
M600	6000	7500	9000	4300	4450	4550	13210	13650	14920	3/9
M650	6500	-	8500	-	4700	4800	-	13700	14970	3/9
M700	7000	-	8000	-	5050	5150	-	13750	15020	3/9

WIDE VIEW FULL FREE 3-STAGE MAST											
Mast model	Max. lift height mm	load capacity (load center distance 600mm)		Mast overall height(mm)		Free lift (mm)		Service weight (kg)			Mast tilt angle (°) α/β
		8.5t	10t	8.5t	10t	8.5t	10t	CPD85-GA2(Li)	CPD100-GA2(Li)	CPD100-GB2(Li)	
ZSM360	3600	7500	9000	2450	2570	1090	1150	12600	13660	14930	6/9
ZSM400	4000	7500	9000	2575	2700	1215	1280	12830	13750	15020	6/9
ZSM435	4350	7500	9000	2700	2820	1340	1400	13000	13830	14800	6/9
ZSM450	4500	7500	9000	2775	2870	1415	1475	13100	13870	15140	6/6
ZSM480	4800	7500	9000	2850	2970	1490	1550	13260	13940	15210	6/6
ZSM500	5000	7500	9000	2950	3035	1590	1615	13370	13990	15260	6/6
ZSM540	5400	7000	8500	3075	3225	1775	1805	13530	14120	15390	3/6
ZSM600	6000	6500	8000	3375	3425	2015	2005	13820	14260	15530	3/6
ZSM650	6500	6000	7500	3600	3590	2240	2170	13940	14380	15650	3/6
ZSM700	7000	5500	7000	3750	3855	2390	2435	14110	14550	15820	3/6
ZSM800	8000	4500	6000	4135	4240	2640	2685	14320	14760	16030	3/6

# 1.5-2t

## G2 Series Lithium-ion Forklift Truck (Three-wheels)

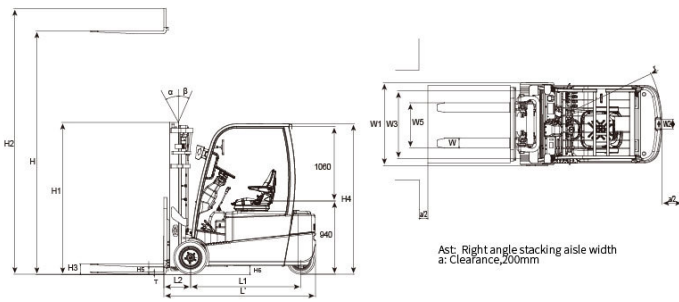


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### Manufacturer's Data and Design Characteristics

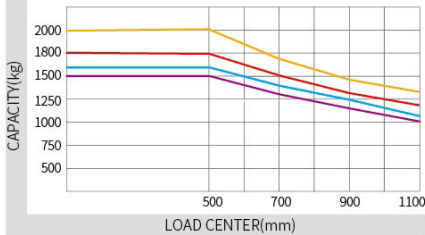
Characteristics							
1.01	Manufacturer's Name						
1.02	Model Designation			CPD15	CPD16	CPD18	CPD20
1.03	Configuration Number			SQ-GB2Li	SQ-GB2Li	SQ-GB2Li	SQ-GB2Li
1.04	Load Capacity	Q	kg	1500	1600	1800	2000
1.05	Load Center	c	mm	500	500	500	500
Wheels & Tyres							
2.01	Tyre Type			SE	SE	SE	SE
2.02	Tyres Number (Front/Rear)			2/2	2/2	2/2	2/2
2.03	Tread (centre of tyre), front	W3	mm	910	910	920	920
2.04	Tread (centre of tyre), rear	W2	mm	180	180	180	180
2.05	Tyre Size, Front			18×7-8	18×7-8	200/50-10	200/50-10
2.06	Tyre Size, Rear			140/55-9	140/55-9	140/55-9	140/55-9
Dimensions							
3.01	Load Distance	L2	mm	365	365	365	372
3.02	Mast Tilt Angle, F/R	a/β	°	5/7	5/7	5/7	5/7
3.03	Height with Mast Lowered	H1	mm	2175	2175	2175	2175
3.04	Free Lift	H3	mm	90	90	90	90
3.05	Standard Lift Height	H	mm	3300	3300	3300	3300
3.06	Height with Mast Extended	H2	mm	4039	4039	4039	4039
3.07	Overhead Guard Height	H4	mm	2040	2040	2040	2040
3.08	Fork Size T×W×L	L4/W/T	mm	35×100×920	35×100×920	35×100×920	40×122×920
3.09	Fork Carriage to DIN 15173 A/B			2A	2A	2A	2A
3.10	Length to fork face	L'	mm	1852	1852	1962	1967
3.11	Overall Width	W1	mm	1060	1060	1120	1120
3.12	Outside Turning Radius	r	mm	1487	1487	1595	1595
3.13	Ground Clearance at mast, Loaded	H5	mm	85	85	90	90
3.14	Lateral Fork Adjustment (Outside of Forks) Max./Min.	W5	mm	960/200	960/200	1030/200	1030/245
Performances							
4.01	Travel Speed, loaded/unloaded		km/h	16/16	16/16	16/16	16/16
4.02	Lifting Speed, loaded/unloaded		m/s	0.38/0.6	0.43/0.6	0.43/0.6	0.40/0.60
4.03	Lowering Speed, loaded/unloaded		m/s	0.50/0.40	0.50/0.40	0.50/0.40	0.50/0.40
4.04	Gradient performance with loaded		%	20	20	20	20
Weight							
5.01	Total Approximate Weight (W/O battery)		kg	3050	3250	3275	3581
Battery							
6.01	Battery Voltage/rated capacity (K5)		V/Ah	48/404	48/404	48/404	270
6.02	battery weight		kg	265	265	270	
Motor & Controller							
7.01	Drive Motor - 60 Min. Rating		kW	5.4x2	5.4x2	5.4x2	11
7.02	Pump Motor - S3 15% Rating		kW	11	11	11	

NOTE: (1) Detailed information about battery, please contact our salesmen or engineer. (2) For configuration number, 2: ZAPI Controller.



Ast: Right angle stacking aisle width a: Clearance,200mm

### Load Curve



Note: The vertical axis stands for load capacity and 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 mast is tilted forward, using non-standard forks or 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.

### LITHIUM BATTERY CHARGER

Lithium battery brand	ENEROC		CNSG Hong sifang			
Voltage/Capacity	48V/404Ah	48V/542Ah	48V/320 Ah	48V/400Ah	48V/500Ah	48V/600Ah
CPD15/CPD16	●	—	○	○	—	—
CPD18/CPD20	●	○	—	○	○	○
Low temperature preheating of lithium battery PACK	●	—	—	—	—	—
Charger	D48V-200A-Li D48V-200A-Li-423					

注: ● standard, ○ optional, —non-configurable

### WIDE VIEW MAST

Mast model	Max. lifting height mm	Load capacity (load center 500mm)(kg)				Height with mast lowered (mm)	Mast tilt angle (°) α/β	Service weight(kg)			
		1.5t	1.6t	1.8t	2.0t			1.5t	1.6t	1.8t	2.0t
M200	2000	1500	1600	1800	2000	1525	5-7	2981	3181	3206	3512
M250	2500	1500	1600	1800	2000	1775	5-7	3007	3207	3232	3538
M300	3000	1500	1600	1800	2000	2025	5-7	3034	3234	3259	3565
M330	3300	1500	1600	1800	2000	2175	5-7	3050	3250	3275	3581
M350	3500	1500	1600	1750	2000	2275	5-7	3060	3260	3285	3591
M370	3700	1500	1600	1750	2000	2375	5-7	3074	3274	3299	3605
M400	4000	1500	1600	1750	1950	2575	3-5	3118	3318	3343	3649
M425	4250	1500	1600	1750	1900	2700	3-5	3131	3331	3356	3662
M450	4500	1400	1500	1700	1850	2825	3-5	3144	3344	3369	3675
M500	5000	1300	1400	1600	1700	3075	3-3	3170	3370	3395	3701
M550	5500	1100	1200	1400	1400	3375	3-3	3251	3451	3476	3782
M600	6000	800	900	1000	1100	3625	3-3	3280	3480	3505	3811

### WIDE VIEW FULL FREE 2-STAGE MAST

Mast model	Max. lifting height (mm)	Load capacity (load center 500mm)(kg)				Height with mast lowered (mm)	Free lift (with Backrest) (mm)	Mast tilt angle (°) α/β	Service weight(kg)			
		1.5t	1.6t	1.8t	2.0t				1.5-2t	1.5-2t	1.5t	1.6t
ZM200	2000	1500	1600	1800	2000	1525	510	5-7	3012	3212	3237	3543
ZM250	2500	1500	1600	1800	2000	1775	760	5-7	3040	3240	3265	3571
ZM300	3000	1500	1600	1800	2000	2025	1010	5-7	3069	3269	3294	3600
ZM330	3300	1500	1600	1800	2000	2175	1160	5-7	3086	3286	3311	3617
ZM350	3500	1500	1600	1750	2000	2275	1260	5-7	3097	3297	3322	3628
ZM370	3700	1500	1600	1750	2000	2375	1360	5-7	3112	3312	3337	3643
ZM400	4000	1500	1600	1750	1950	2575	1560	3-5	3156	3356	3381	3687

NOTE: 1.5-2T free lifted height 394mm increased without backrest.

### WIDE VIEW FULL FREE 3-STAGE MAST

Mast model	Max. lifting height (mm)	Load capacity (load center 500mm)(kg)				Height with mast lowered (mm)	Free lift (with Backrest) (mm)	Mast tilt angle (°) α/β	Service weight(kg)			
		1.5t	1.6t	1.8t	2.0t				1.5-2t	1.5-2t	1.5t	1.6t
ZSM360	3600	1500	1600	1750	2000	1790	775	3-5	3183	3383	3408	3714
ZSM400	4000	1500	1600	1750	2000	1925	910	3-5	3210	3410	3435	3741
ZSM435	4350	1400	1500	1700	1900	2040	1025	3-5	3234	3434	3459	3765
ZSM450	4500	1400	1500	1700	1850	2090	1075	3-5	3244	3444	3469	3775
ZSM470	4700	1350	1450	1650	1750	2160	1145	3-5	3258	3458	3483	3789
ZSM480	4800	1350	1450	1650	1750	2190	1175	3-5	3264	3464	3489	3795
ZSM500	5000	1200	1300	1600	1700	2290	1275	3-3	3284	3484	3509	3815
ZSM540	5400	1050	1150	1250	1400	2425	1410	3-3	3312	3512	3537	3843
ZSM600	6000	800	900	1000	1100	2640	1625	3-3	3355	3555	3580	3886
ZSM650	6500	700	800	900	1000	2830	1815	3-3	3393	3593	3618	3924

NOTE: 1.5-2T free lifted height 364mm increased without backrest. 1.5-2T free lifted height 364mm increased without backrest when assemble with pulley block.



# 3-3.5t

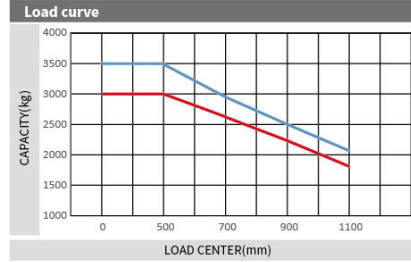
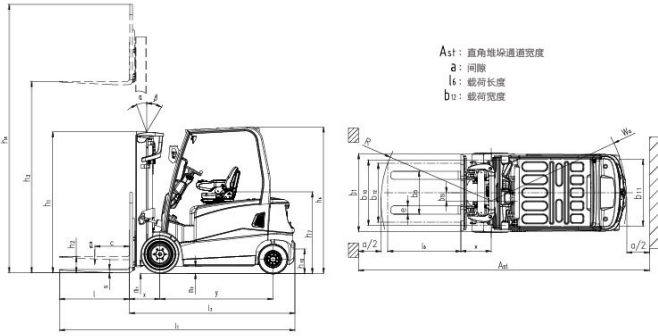
## G3 Series Dual-drive Lithium Battery Powered Forklift Truck



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### Manufacturer's Data and Design Characteristics

Characteristics					
1.01	Manufacturer				
1.02	Model		CPD30	CPD35	
1.03	Configuration number		GD2DLI	GD2DLI	
1.04	Rated capacity	Q	kg	3000	3500
1.05	Load center distance	c	mm	500	500
1.06	Load distance, center of drive axle to fork	x	mm	463	468
Weight					
2.01	Total weight (with/without battery)		kg	5310/4800	5680/5170
Tyres					
3.01	Tyre type		Solid tyres		
3.02	Tyre size, front		23x10-12	23x10-12	
3.03	Tyre size, rear		200/50-10	200/50-10	
3.04	Wheels, number front/rear (x=driven wheels)		2x/2	2x/2	
3.05	Tread, front	b10	mm	975	975
3.06	Tread, rear	b11	mm	990	990
Dimensions					
4.01	Mast tilt angle (forward/backward)	$\alpha/\beta$	°	6/8	6/8
4.02	Height (mast lowered)	$h_1$	mm	2155	2155
4.03	Free lifting height	$h_2$	mm	145	150
4.04	Lifting height (standard)	$h_3$	mm	3000	3000
4.05	Max. height, extended	$h_4$	mm	4217	4217
4.06	Height of overhead guard	$h_6$	mm	2260	2260
4.07	Overall length (with fork)	$l_1$	mm	3617	3622
4.08	Overall length (without fork)	$l_2$	mm	2547	2552
4.09	Truck body width/Truck wheel width	$b_1$	mm	1195/1222	1195/1222
4.10	Fork carriage, DIN standard			3A	3A
4.11	Fork size: thickness x width x length	s/e/l	mm	45/125/1070	50/125/1070
4.12	Distance between fork-arms, Max./Min.	$b_5$	mm	1060/250	1060/250
4.13	Min. outside turning radius	$W_a$	mm	2150	2150
Performance Data					
5.01	Travel speed (laden/unladen)			19/20	19/20
5.02	Lift speed (laden/unladen)			0.5/0.63	0.44/0.54
5.03	Lowering speed (laden/unladen)			0.55/0.45	0.55/0.45
5.05	Max. gradeability (laden/unladen)			21/29	20/27
Lithium Battery					
6.01	Lithium battery voltage/Capacity	V/Ah		80/404	80/404
6.02	Lithium battery weight (Min./Max.)	kg		510/550	510/550
Motor and controller					
7.01	Driving motor powering (S2-60min)	kW		8X2	8X2
7.02	Lifting motor powering (S3-15%)	kW		25.5	25.5
Addition data					
8.01	Type of drive control			ZAPI	



CPD35  
CPD30

Note: The vertical axis stands for load capacity and 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 mast is tilted forward, using non-standard forks or 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 (load center 500mm)(kg)		mast overall height (fork to the ground)(mm)		free lifting height (with backrest)(mm)		weight(kg)		Fork tilt angle (front/rear) $\alpha/\beta$ (°)
		3t	3.5t	3t	3.5t	3t	3.5t	3t	3.5t	
M200	2000	3000	3500	1655	1655	145	150	5202	5572	6/8
M250	2500	3000	3500	1905	1905	145	150	5260	5630	6/8
M270	2700	3000	3500	2005	2005	145	150	5275	5645	6/8
M300	3000	3000	3500	2155	2155	145	150	5310	5680	6/8
M330	3300	3000	3500	2305	2305	145	150	5341	5711	6/8
M350	3500	3000	3500	2405	2405	145	150	5346	5716	6/8
M370	3700	3000	3500	2505	2505	145	150	5348	5718	6/5
M400	4000	3000	3500	2705	2705	145	150	5448	5818	6/5
M425	4250	3000	3500	2830	2830	145	150	5471	5841	6/5
M450	4500	3000	3400	2955	2955	145	150	5495	5865	6/5
M475	4750	2900	3250	3180	3180	145	150	5519	5889	6/5
M500	5000	2800	3100	3205	3205	145	150	5543	5913	6/5
M550	5500	2600	2900	3505	3505	145	150	5638	6008	3/5
M600	6000	2100	2100	3755	3755	145	150	5684	6054	3/5

WIDE VIEW FULL FREE 2-STAGE MAST

Mast model	Max. lifting height (mm)	load capacity (load center 500mm)(kg)		mast overall height (fork to the ground)(mm)		free lifting height (with backrest)(mm)		weight(kg)		Fork tilt angle (front/rear) $\alpha/\beta$ (°)
		3t	3.5t	3t	3.5t	3t	3.5t	3t	3.5t	
ZM200	2000	3000	3500	1655	1655	470	475	5216	5586	6/8
ZM250	2500	3000	3500	1905	1905	720	725	5282	5652	6/8
ZM270	2700	3000	3500	2005	2005	820	825	5304	5674	6/8
ZM300	3000	3000	3500	2155	2155	970	975	5330	5700	6/8
ZM330	3300	3000	3500	2305	2305	1120	1125	5361	5731	6/8
ZM350	3500	3000	3500	2405	2405	1220	1225	5368	5738	6/8
ZM370	3700	3000	3500	2505	2505	1320	1325	5374	5744	6/5
ZM400	4000	3000	3500	2705	2705	1520	1525	5478	5848	6/5
ZM425	4250	2900	3400	2830	2830	1645	1650	5496	5866	6/5
ZM450	4500	2900	3300	2955	2955	1771	1775	5522	5892	6/5
ZM475	4750	2800	3150	3180	3180	1995	2000	5538	5908	6/5
ZM500	5000	2700	3000	3205	3205	2020	2025	5563	5933	6/5
ZM550	5500	2500	2800	3505	3505	2320	2325	5649	6018	3/5
ZM600	6000	2000	2000	3755	3755	2570	2575	5672	6042	3/5

NOTE:3-3.5t: free lifted height 396mm increased without backrest.

WIDE VIEW FULL FREE 3-STAGE MAST

Mast model	Max. lifting height (mm)	load capacity (load center 500mm)(kg)		mast overall height (fork to the ground)(mm)		free lifting height (with backrest)(mm)		weight(kg)		Fork tilt angle (front/rear) $\alpha/\beta$ (°)
		3t	3.5t	3t	3.5t	3t	3.5t	3t	3.5t	
ZSM360	3600	3000	3500	1895	1895	710	715	5407	5777	6/5
ZSM400	4000	3000	3400	2030	2030	845	850	5444	5814	6/5
ZSM435	4350	2950	3300	2145	2145	960	965	5481	5851	6/5
ZSM450	4500	2900	3200	2195	2195	1010	1015	5496	5866	6/5
ZSM470	4700	2850	3100	2245	2245	1060	1065	5501	5871	6/5
ZSM480	4800	2800	2950	2295	2295	1110	1115	5527	5897	6/5
ZSM500	5000	2600	2700	2355	2355	1170	1175	5555	5925	6/5
ZSM540	5400	2400	2550	2505	2505	1320	1325	5592	5962	3/5
ZSM600	6000	2000	2150	2720	2720	1535	1540	5696	6066	3/5
ZSM650	6500	1600	1900	2905	2905	1720	1725	5752	6122	3/3
ZSM700	7000	1300	1500	3155	3155	1970	1975	5844	6214	3/3

NOTE:3-3.5t: free lifted height 396mm increased without backrest.

# 1.6-2 t

## G2 Series Lithium-ion Reach Truck (Sit-down)

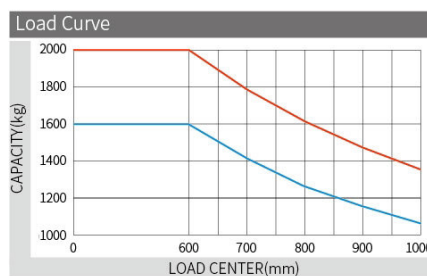
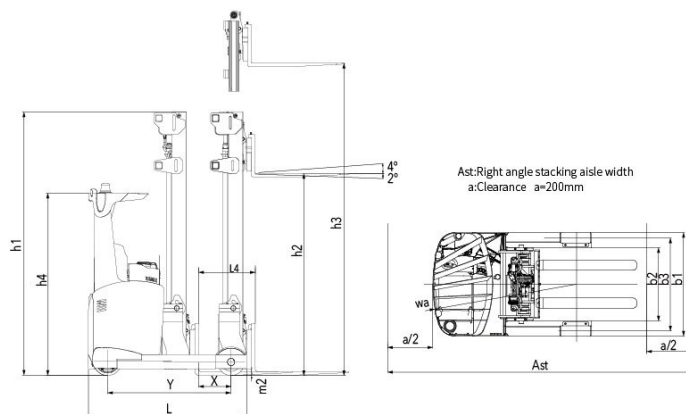


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### Manufacturer's Data and Design Characteristics

Character			
1.01	Manufacturer		
1.02	Model		CQD16 CQD20
1.03	Configuration number		GB3S Li GB3S Li
1.04	Load capacity	Q kg	1600 2000
1.05	load center distance	C mm	600 600
Tyre			
2.01	Track width (bearing wheels)	b3 mm	1157 1143
2.02	Size of bearing wheel	mm	φ285x100 φ330x100
2.03	Size of driving wheel	mm	φ343x114 φ343x114
Size			
3.01	Lifting height of standard mast	h3 mm	4600 4600
3.02	Free lift	h2 mm	1280 1280
3.03	Mast height, lowered	h1 mm	2314 2314
3.04	Fork size:thickness × width × length	s/e/l mm	40x122x1150 40x122x1150
3.05	Fork adjusting width	mm	244~724 244~724
3.06	Fork tilt angle (front/rear)	α/β °	2°/4° 2°/4°
3.07	Fork sideshifting	mm	±75 ±75
3.08	Truck body length (fork excluded)	L mm	1840 1942
3.09	Truck body width	b1 mm	1270 1270
3.10	Distance between support arms	b2 mm	900 900
3.11	Reach distance	L4 mm	606 620
3.12	Height of overhead guard (cab)	h4 mm	2215 2215
3.13	Ground clearance, below mast	m2 mm	75 75
3.14	Turning radius	Wa mm	1689 1751
3.15	Load distance, centre of support arm wheel to face of forks	X mm	369 383
3.16	Aisle width with pallet 1200 x 1200 across forks	Ast mm	2914 2965
3.17	Aisle width with pallet 1000 x 1200 across forks	Ast mm	2760 2810
Performance			
4.01	Travelling speed: with/without load	km/h	11/12 12/14
4.02	Lifting speed: with/without load	m/s	0.34/0.53 0.35/0.55
4.03	Lowering speed: with/without load	m/s	0.5/0.5 0.5/0.5
Weight			
5.01	Total weight (with battery)	kg	3460 3650
Battery			
6.01	Battery voltage/capacity	V/Ah	48/404 48/404
6.02	Battery weight	kg	430 565
Motor and controller			
7.01	Drive motor power(S2-60min)	kW	6 8
7.02	Lifting motor power(S3-15%)	kW	11 12.5
7.03	Steering motor power(S3-50%)	kW	0.4 0.4
Other			
8.01	Type of drive control		INMOTION

NOTE: \*Detailed information about battery, please contact our salesmen or engineer.



Note: The vertical axis stands for load capacity and 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 mast is tilted forward, using non-standard forks or 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 FULL FREE 3-STAGE MAST

Mast model	Max. lifting height mm	Load capacity (load center 600mm)(kg)		Mast overall height (mm)	Free lifting height (with backrest) (mm)	Service weight(kg)		Fork tilt angle (front/rear) α/β
		CQD16-GB3SLi	CQD20-GB3SLi			1.6-2t	1.6-2t	
ZSM460	4600	1600	2000	2314	1280	3460	3650	2°/4°
ZSM480	4800	1600	2000	2381	1340	3480	3670	2°/4°
ZSM540	5400	1600	2000	2581	1540	3540	3730	2°/4°
ZSM570	5700	1550	1900	2681	1640	3565	3755	2°/4°
ZSM630	6300	1500	1900	2881	1840	3625	3815	2°/4°
ZSM675	6750	1450	1800	2982	1940	3660	3850	2°/4°
ZSM700	7000	1400	1700	3065	2030	3680	3870	2°/4°
ZSM715	7150	1400	1700	3115	2080	3695	3885	2°/4°
ZSM750	7500	1300	1700	3232	2190	3730	3920	2°/4°
ZSM800	8000	1200	1500	3398	2360	3780	3970	2°/4°
ZSM850	8500	1100	1300	3564	2530	3825	4015	2°/4°
ZSM900	9000	900	1100	3730	2690	3875	4065	2°/4°
ZSM950	9500	800	1000	3898	2860	3920	4110	2°/4°
ZSM1000	10000	-	850	4064	3030	-	4160	2°/4°
ZSM1050	10500	-	800	4230	3190	-	4205	2°/4°
ZSM1080	10800	-	750	4330	3290	-	0235	2°/4°
ZSM1100	11000	-	700	4398	3360	-	4255	2°/4°
ZSM1150	11500	-	650	4564	3530	-	4305	2°/4°
ZSM1200	12000	-	550	4730	3690	-	4350	2°/4°
ZSM1250	12500	-	500	4898	3860	-	4400	2°/4°

Note:The free lift height is 4600mm-6300mm when the truck is not assembled with backrest.  
The free lift height is 175mm increased and other height is 25mm increased.

### WIDE VIEW MAST

Mast model	Max. lifting height mm	Load capacity (load center 600mm)(kg)		Mast overall height (mm)	Service weight(kg)		Fork tilt angle (front/rear) α/β
		CQD16-GB3SLi	CQD20-GB3SLi		1.6-2t	CQD16-GB3SLi	
M290	2900	1600	2000	2200	3235	3425	2°/4°
M320	3200	1600	2000	2350	3250	3440	2°/4°
M360	3600	1600	2000	2550	3280	3470	2°/4°
M380	3800	1600	2000	2650	3295	3485	2°/4°
M400	4000	1600	2000	2750	3310	3500	2°/4°
M420	4200	1600	2000	2850	3325	3515	2°/4°
M440	4400	1600	2000	2950	3335	3525	2°/4°
M460	4600	1600	2000	3050	3390	3580	2°/4°
M500	5000	1500	1900	3250	3420	3610	2°/4°

# 1.5-1.8t

## G2 Series Lithium Battery Powered Reach Truck (Stand-on type)

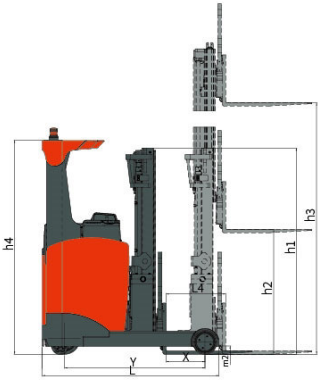


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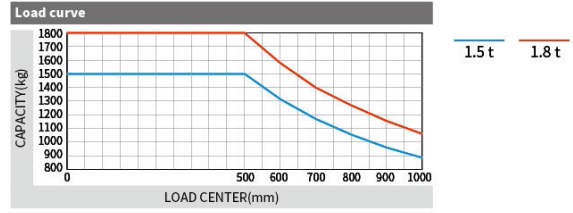
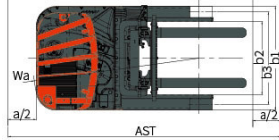
### Manufacturer's Data and Design Characteristics

Character							
1.01	Manufacturer						
1.02	Model			CQD15			CQD18
1.03	Configuration number			GD2RLI	GE2RLI	GD2RLI	GE2RLI
1.04	Load capacity	Q	kg	1500		1800	
1.05	Load center distance	C	mm	500		500	
1.06	Power mode			Lithium Battery			
1.07	Driving mode			Stand-on			
1.08	Wheel base	Y	mm	1335		1500	
Tyre							
2.01	Tyre type			Polyurethane			
2.02	Wheels number,drive/caster/load(X=driven wheels)			1x/2/2			
2.03	Track Width,load	b3	mm	976			
2.04	Wheel size, load			ø254x114			
2.05	Wheel size, drive			ø330x114			
2.06	Wheel size, caster			ø178x76			
Size							
3.01	Lifting height of standard mast	h3	mm	3200		3200	
3.02	Free lift	h2	mm	115		115	
3.03	Mast height, lowered	h1	mm	2355		2355	
3.04	Fork size, thickness/width/length	s/e/l	mm	35x100x920		35x100x920	
3.05	Fork adjusting width			200~628		200~628	
3.06	Fork sideshifting			±55		±55	
3.07	Truck body length(fork excluded)	L	mm	1721		1886	
3.08	Truck body width	b1	mm	1090		1090	
3.09	Distance between support arms	b2	mm	772		772	
3.10	Reach distance	l4	mm	550		635	
3.11	Height of overhead guard	h4	mm	2250		2250	
3.12	Ground clearance,below mast	m2	mm	80		80	
3.13	Turning radius	Wa	mm	1615		1775	
3.14	Load distance,centre of support arm wheel to face of forks	X	mm	329		414	
3.15	Aisle width with pallet 1100Lx1100W,clearance 200	Ast	mm	2760		2855	
3.16	Aisle width with pallet 1000Lx1100W,clearance 200	Ast	mm	2680		2775	
Performance							
4.01	Travelling speed,with/without load			10/10.5		10/10.5	
4.02	Lifting speed,with/without load			0.31/0.5		0.3/0.5	
4.03	Lowering speed,with/without load			0.5/0.5		0.5/0.5	
4.04	Reach speed,with/without load			0.11/0.11		0.11/0.11	
4.05	Maximum climbing ability,with/without load			10/15		10/15	
Weight							
5.01	Total weight(with battery)			2595		2645	
Battery							
6.01	Battery voltage/capacity k5			48/345		48/360	
6.02	Battery weight			630		675	
6.03	Battery box dimension			1020x359x629		1020x439x629	
Motor and controller							
7.01	Drive motor power			5		5	
7.02	Lifting motor power			10		10	
7.03	Steering motor power			0.6		0.6	
7.04	Type of driving control			MOSTET/AC			
7.05	Type of lifting control			MOSTET/AC			
7.06	Type of steering control			MOSTET/AC			
7.07	Transmission box			HELI special transmission box			
7.08	Service brake			Electrical			
7.09	Hydraulic system working pressure	Mpa		16.5		18.5	

NOTE: Detailed information about battery,please contact our salesmen or engineer



AST:Right angle stacking aisle width  
a:Clearance a=200mm



Note: The vertical axis stands for load capacity and 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 mast is tilted forward, using non-standard forks or 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 FULL FREE 3-STAGE MAST

Mast model	Lifting height (mm)		Free lifting height (mm)		Mast height, lowered(mm)		Load capacity(kg)		Fork tilt angle (front/rear) α/β
	CQD15	CQD18	CQD15	CQD18	CQD15	CQD18	CQD15	CQD18	
ZSM460	4600	4600	1280	1280	2319	2319	1400	1700	2°/4°
ZSM480	4800	4800	1340	1340	2386	2386	1400	1700	2°/4°
ZSM500	5000	5000	1400	1400	2453	2453	1400	1550	2°/4°
ZSM540	5400	5400	1540	1540	2586	2586	1250	1450	2°/4°
ZSM570	5700	5700	1640	1640	2686	2686	1150	1350	2°/4°
ZSM600	6000	6000	1740	1740	2786	2786	1050	1250	2°/4°
ZSM630	6300	6300	1840	1840	2886	2886	950	1150	2°/4°
ZSM650	6500	6500	1905	1905	2953	2953	850	1050	2°/4°
ZSM675	6750	6750	1940	1940	2987	2987	750	950	2°/4°

### WIDE VIEW MAST

Mast model	Lifting height (mm)		Free lifting height (mm)		Mast height, lowered(mm)		Load capacity(kg)		Fork tilt angle (front/rear) α/β
	CQD15	CQD18	CQD15	CQD18	CQD15	CQD18	CQD15	CQD18	
M290	2900	2900	115	115	2300	2300	1500	1800	2°/4°
M320	3200	3200	115	115	2450	2450	1500	1800	2°/4°
M360	3600	3600	115	115	2650	2650	1500	1800	2°/4°
M380	3800	3800	115	115	2750	2750	1500	1800	2°/4°
M400	4000	4000	115	115	2850	2850	1500	1800	2°/4°
M420	4200	4200	115	115	2950	2950	1450	1750	2°/4°
M440	4400	4400	115	115	3050	3050	1400	1700	2°/4°
M460	4600	4600	115	115	3150	3150	1400	1700	2°/4°
M500	5000	5000	115	115	3350	3350	1400	1550	2°/4°

# MEMO