

## Operating Cost Comparison:

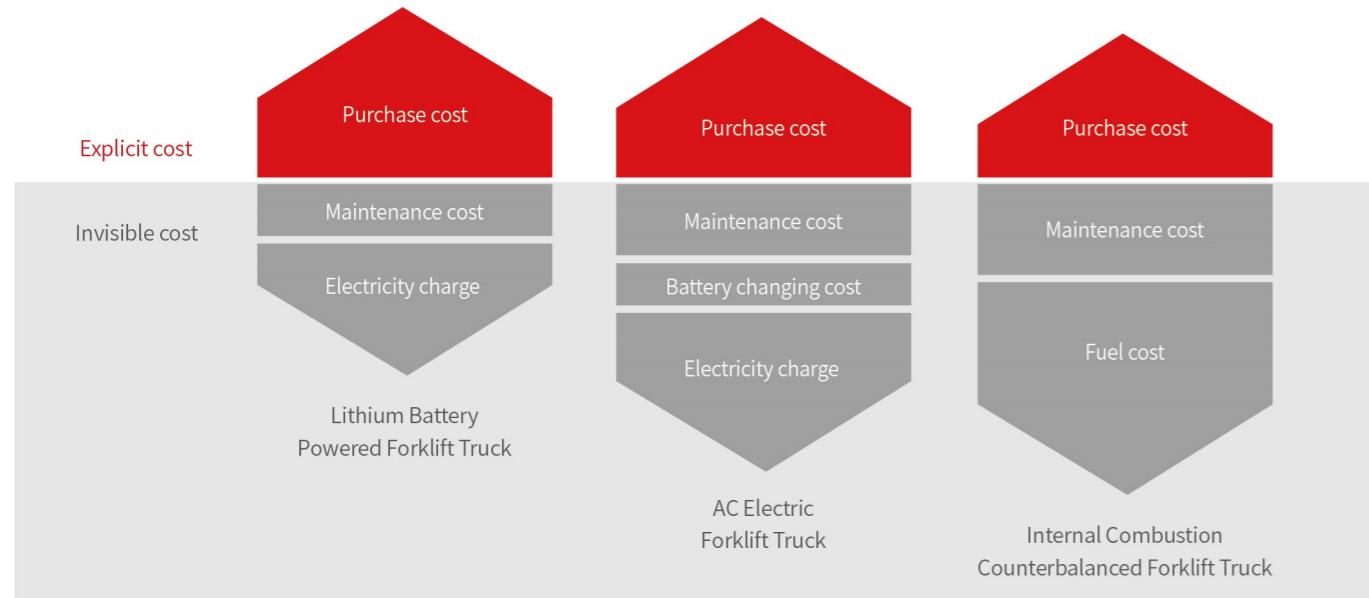
Lithium battery forklift **vs.** Lead-acid battery forklift **vs.** IC forklift

The advantages of HELI lithium battery forklift trucks are more prominent in the life cycle cost.

Compared with internal combustion forklift truck, lithium battery forklift truck has the advantages of no noise, no pollution, small vibration and simple operation.

Compared with the lead-acid battery forklift truck, lithium battery forklift has the characteristics of fast charging and charging at any time, which is more suitable for multi shift operation.

Besides, HELI lithium battery forklift is maintenance free, high power conversion efficiency, and economical overall operation cost.



# CPD 20/25/30/35

GB2LI-H / GB2LI-M / GB3LI-S / GB3LI-M



\* Details of specifications and equipment are based on information available at time of printing and may change without notice.

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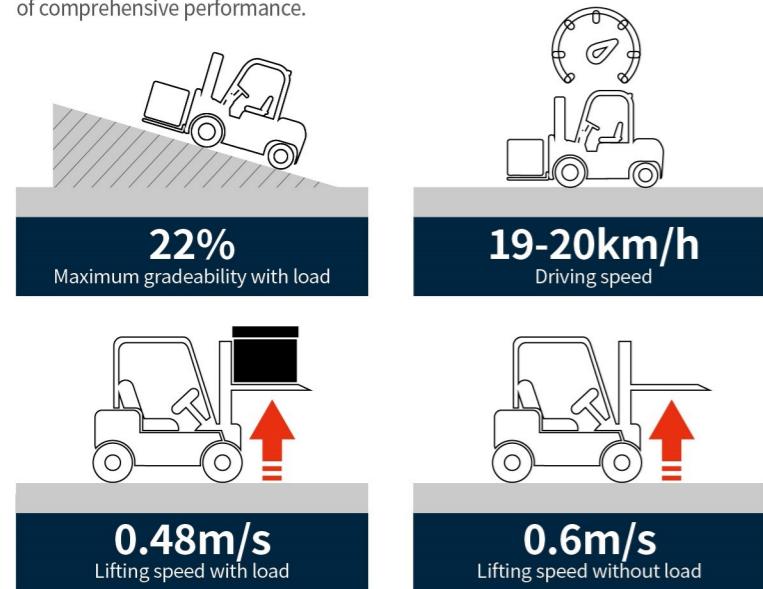
HELI

Fearless of Any Rough Application,  
**HELI New Series Lithium Forklift,**  
Your Best Choice



## Powerful Performance, High Efficiency

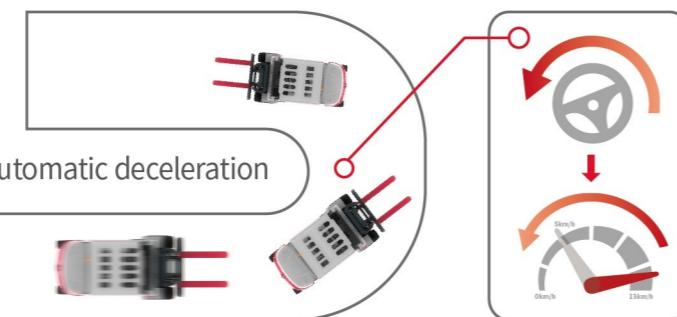
Customers can freely choose from the 3 different configurations: S, M, H. Especially M and H configurations are comparable with internal combustion trucks in terms of comprehensive performance.



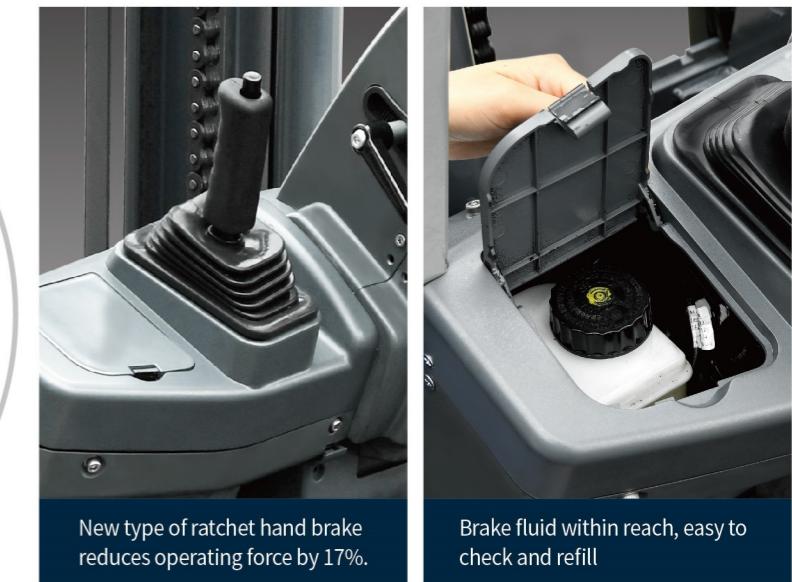
Note: the data displayed are all based on the model CPD30-GB2Li-H, and data for other trucks are shown in the table of technical parameters.

## Smart and Safe, Ease In All Aspects

- Steering deceleration: Auto steering deceleration reduces the risk of turning over;
- Steering started by steering wheel: the steering wheel can directly start the steering function and provides the required oil quantity according to the steering wheel speed;
- Color screen instrument: Bilingual (CN/EN) options, full vehicle information at a glance;
- PES Three-speed mode: Choose multiple speed modes according to working conditions, guarantee work efficiency;
- Rear handle with horn switch for safer reversing;
- Lithium battery is automatically heated at low temperature, with excellent low temperature adaptability.



## Optimized Ergonomic Design, Better Driving Comfort

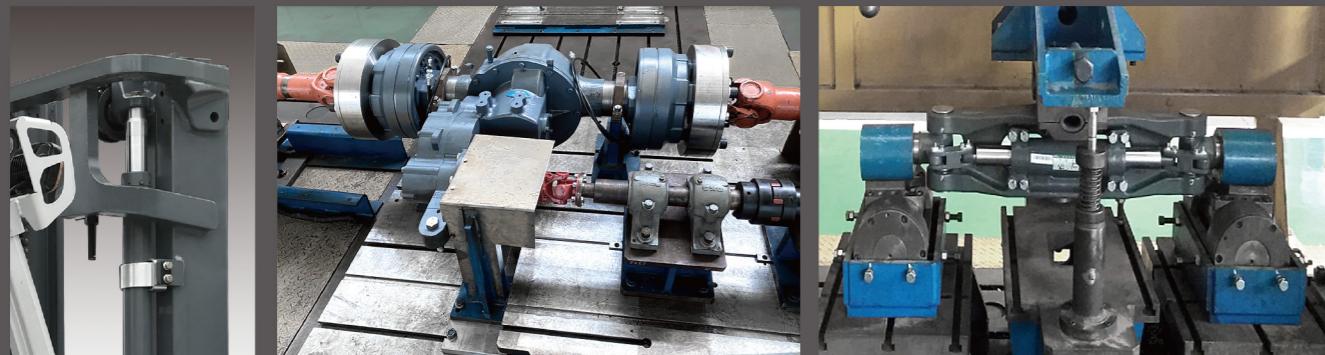


Gradient  
20%



## High Quality & High Reliability

The integrated cast drive axle and reinforced cast steering axle have been proven in the market and are mature and reliable. The mast force optimization design improves the overall performance and effectively ensures the operation safety.



## Centralized Checkpoints, Easy Maintenance

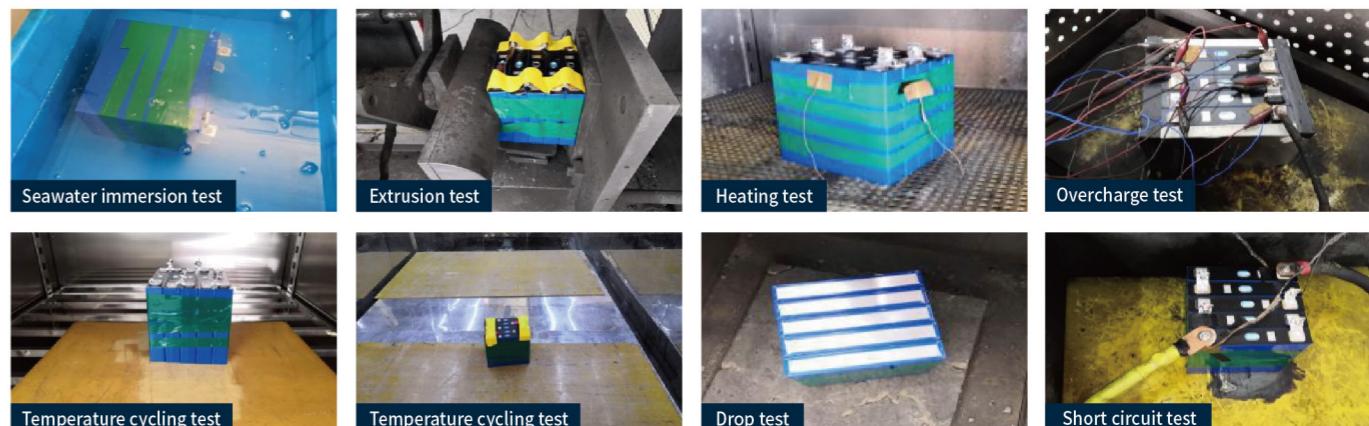
The electrical design is concentrated on the top of lithium battery, and the maintenance points are centralized, which is convenient for inspection and maintenance.



## Tested in Rough Operating Environment



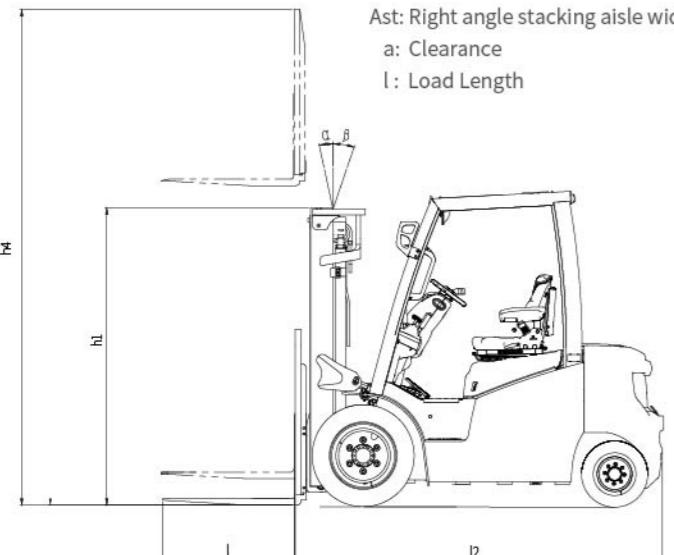
## Lithium Battery Advantages



- The truck selects mature and economical square iron phosphate lithium battery core and module used by large numbers of commercial vehicles;
- The module adopts aluminum alloy plate frame, which is firm, light in weight and has good heat dissipation effect;
- Fast charging: fast charging makes truck gapless operation possible, and it can be filled in 2 hours;
- High efficiency and safety: The charging and discharging efficiency is up to 98%, and temperature of thermal runaway is over 600 °C;
- Low temperature adaptability: Standard configuration of heating function ensures normal operation of low temperature environment;
- Long service life: the normal charging and discharging cycles is more than 3000 times or 5 years, and capacity retention rate is more than 75%;
- Maintenance free: the battery does not need manual maintenance and does not need to add distilled water electrolyte;
- Green and clean: no pollution and zero emission.

**Manufacturer and Technical Data**

Characteristics		HELI																								
1.01	Manufacturer																									
1.02	Model			CPD20		CPD25		CPD20		CPD25		CPD20		CPD25		CPD30		CPD35		CPD30		CPD35				
1.03	Configuration number			GB2LI-H		GB2LI-H		GB2LI-M/GB3LI-M		GB2LI-M/GB3LI-M		GB3LI-S		GB3LI-S		GB2LI-H		GB2LI-M/GB3LI-M		GB2LI-M/GB3LI-M		GB3LI-S				
1.04	Rated capacity	Q	kg	lb	2000	4000	2500	5000	2000	4000	2500	5000	2000	4000	2500	5000	3000	6000	3500	7000	3000	6000				
1.05	Load center distance	c	mm	in	500	24	500	24	500	24	500	24	500	24	500	24	500	24	500	24	500	24				
Weight																										
2.01	Total weight(with/without battery)	kg	lb	3570/3350	7140/6700	3960/3740	7920/7480	3570/3350	7140/6700	3960/3740	7920/7480	3570/3350	7140/6700	3960/3740	7920/7480	4580/4230	9160/8460	5000/4650	1000/9300	4580/4230	9160/8460	5000/4650	1000/9300			
Tyres																										
3.01	Tyre type			pneumatic tyre		pneumatic tyre		pneumatic tyre		pneumatic tyre		pneumatic tyre		pneumatic tyre		pneumatic tyre/soild		soild tyre		pneumatic tyre/soild		soild tyre				
3.02	Tyre size, front					7.00-12-14PR										28X9-15-14PR		28x9-15		28x9-15-14PR		28X9-15				
3.03	Tyre size, rear							18x7-8-14PR										200/50-10								
Dimensions																										
4.01	Height(mast lowered)	h1	mm	in	2000	78.7	2000	78.7	2000	78.7	2000	78.7	2000	78.7	2070	81.5	2120	83.5	2070	81.5	2120	83.5				
4.02	Max. height, extended(with backrest)	h4	mm	in	4030	158.7	4030	158.7	4030	158.7	4030	158.7	4030	158.7	4217	166.0	4217	166.0	4217	166.0	4217	166.0				
4.03	Overall length(with fork)	l1	mm	in	3352	132.0	3502	137.9	3352	132.0	3502	137.9	3352	132.0	3502	137.9	3639	143.3	3644	143.5	3639	143.3	3644	143.5		
4.04	Overall length(without fork)	l2	mm	in	3432	135.1	2432	95.7	2432	95.7	2432	95.7	2432	95.7	2569	101.1	2574	101.3	2569	101.1	2574	101.3				
4.05	Overall width	b1	mm	in	1160	45.7	1160	45.7	1160	45.7	1160	45.7	1160	45.7	1225	48.2	1225	48.2	1225	48.2	1225	48.2				
4.06	Min. outside turning radius	Wa	mm	in	2070	79.4	2070	79.4	2070	79.4	2070	79.4	2070	79.4	2215	87.2	2215	87.2	2215	87.2	2215	87.2				
Performance Data																										
5.01	Travel speed(laden/unladen)	km/h mph	19/20	11.9/12.4	19/20	11.9/12.4	18/19	11.2/11.9	18/19	11.2/11.9	14/15	8.7/9.3	14/15	8.7/9.3	19/20	11.9/12.4	19/20	11.9/12.4	18/19	11.2/11.9	18/19	11.2/11.9	14/15	8.7/9.3	14/15	8.7/9.3
5.02	Lift speed(laden/unladen)	m/s fpm	0.49/0.6	96.5/118.1	0.47/0.6	92.5/118.1	0.46/0.56	90.6/110.2	0.44/0.56	86.6/110.2	0.38/0.49	74.8/96.5	0.35/0.49	68.9/96.5	0.48/0.6	94.5/118.1	0.44/0.54	86.6/106.3	0.41/0.54	80.7/106.3	0.39/0.54	76.7/106.3	0.37/0.49	72.8/96.5	0.34/0.45	66.9/88.6
Battery																										
6.01	Battery voltage/Capacity			80/271		80/271		80/271		80/202		80/202		80/404		80/404		80/404		80/272		80/272				
6.02	Battery weight	kg	lb	220	440	220	440	220	440	220	440	220	440	350	700	350	700	350	700	350	700	350	700			



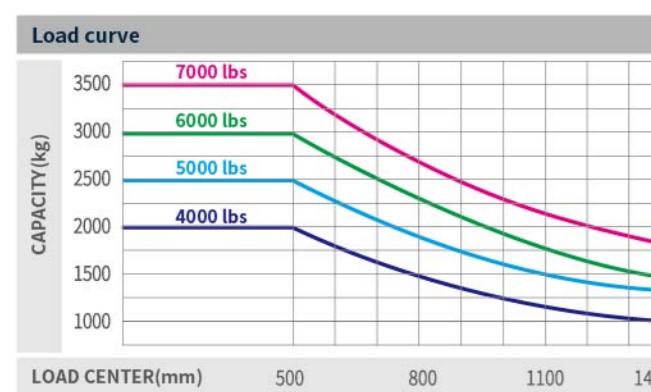
Ast: Right angle stacking aisle width  
a: Clearance  
l: Load Length

Note : for configuration number, 2:ZAPI controller;3:Inmotion controller.

**Lithium battery**

Lithium battery brand	Pengcheng (CATL module/Core)				Heli(LISHEN module/Core)			
Voltage/Capacity	80V/202Ah	80V/271Ah	80V/404Ah	80V/542Ah	80V/202Ah	80V/272Ah	80V/404Ah	80V/544Ah
4000-5000 lbs S model	○	○	○	—	●	○	○	—
4000-5000 lbs M model	—	●	○	—	—	○	○	—
4000-5000 lbs H model	—	●	○	—	—	○	○	—
6000-7000 lbs S model	—	○	○	○	—	●	○	○
6000-7000 lbs M model	—	—	●	○	—	—	○	○
6000-7000 lbs H model	—	—	●	○	—	—	○	○
Lithium battery heating in low temperature					●			

NOTE: "●" standard ; "○" optional ; "—" not applicable



**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.

**Color Options (the color of truck body can be customized)**

Model	H	M	S
	Standard Configuration		

**Wide View Standard Mast 4000-5000 lbs**

Mast model	Max.lifting height	Load capacity (lode center 500mm)				Height (mast lowered)				Free lift (with backrest)				Service weight				Mast tilt angle α/β (°)	
		2t		2.5t		2t		2.5t		2t		2.5t		2t		2.5t			
		mm	in	kg	lb	mm	in	mm	in	mm	in	mm	in	kg	lb	kg	lb		
M200	2000	79	2000	4000	2500	5000	1500	59	1500	59	150	6	150	6	3420	7540	3800	8378	6-12
M250	2500	98	2000	4000	2500	5000	1750	69	1750	69	150	6	150	6	3465	7639	3845	8477	6-12
M300	3000	118	2000	4000	2500	5000	2000	79	2000	79	150	6	150	6	3510	7738	3890	8576	6-12
M330	3300	130	2000	4000	2500	5000	2150	85	2150	85	150	6	150	6	3537	7798	3917	8636	6-12
M350	3500	138	2000	4000	2500	5000	2250	89	2250	89	150	6	150	6	3555	7837	3935	8675	6-12
M370	3700	146	2000	4000	2500	5000	2350	93	2350	93	150	6	150	6	3573	7877	3953	8715	6\6
M400	4000	157	2000	4000	2500	5000	2550	100	2550	100	150	6	150	6	3650	8047	4030	8885	6\6
M425	4250	167	*1950 *2000	*3900 *4000	*2450 *2500	*4900 *5000	2675	105	2675	105	150	6	150	6	3673	8098	4053	8935	*6\6 *6\12
M450	4500	177	*1950 *1900	*3900 *3800	*2400 *2300	*4800 *4600	2800	110	2800	110	150	6	150	6	3695	8146	4075	8984	*6\6 *6\12
M500	5000	197	*1850 *1800	*3700 *3600	*2200 *2100	*4400 *4300	3050	120	3050	120	150	6	150	6	3740	8245	4120	9083	*6\6 *6\12
M550	5500	217	*1400 *1600	*3200 *3100	*1950 *1900	*3900 *3800	3350	132	3350	132	150	6	150	6	3835	8455	4215	9292	*3\6 *3\16
M600	6000	236	*950 *1500	*1900 *3000	*1050 *3000	*2100 *3600	3600	142	3600	142	150	6	150	6	3880	8554	4260	9392	*3\6 *3\16

Note: (1) \* refers to the rate capacity when the front wheel of the truck is dual tyre.

(2) When the front wheel of 4000-5000 lbs is dual tyre, the weight is the data in the table plus 100kg;

**Wide View Standard Mast 6000-7000 lbs**

Mast model	Max.lifting height	Load capacity (lode center 500mm)				Height (mast lowered)				Free lift (with backrest)				Service weight				Mast tilt angle α/β (°)	
		3t		3.5t		3t		3.5t		3t		3.5t		3t		3.5t			
		mm	in	kg	lb	mm	in	kg	lb	mm	in	kg	lb	kg	lb	kg	lb		
M200	2000	79	3000	6000	3500	7000	1570	62	1620	64	155	6	160	6	4484	9886	4894	10789	6-12
M250	2500	98	3000	6000	3500	7000	1820	72	1870	74	155	6	160	6	4532	9991	4947	10906	6-12
M300	3000	118	3000	6000	3500	7000	2070	81	2120	83	155	6	160	6	4580	10097	5000	11023	6-12
M330	3300	130	3000	6000	3500	7000	2220	87	2270	89	155	6	160	6	4609	10161	5032	11094	6-12
M350	3500	138	3000	6000	3500	7000	2320	91	2370	93	155	6	160	6	4628	10203	5053	11140	6-12
M370	3700	146	3000	6000	3500	7000	2420	95	2470	97	155	6	160	6	4647	10245	5074	11186	6\6
M400	4000	157	3000	6000	3500	7000	2620	103	2670	105	155	6	160	6	4727	10421	5158	11371	6\6
M425	4250	167	*2850 *2900	*5700 *5800	*3300 *3400	*6600 *6800	2745	108	2795	110	155	6	160	6	4751	10474	5184	11429	*6\6 *6\12
M450	4500	177	*2750 *2850	*5500 *5700	*3150 *3350	*6300 *6700	2870	113	2920	115	155	6	160	6	4775	10527	5211	11488	*6\6 *6\12
M500	5000	197	*2400 *2600	*4800 *5200	*3700 *3850	*5400 *5700	3120	123	3170	125	155	6	160	6	4823	10633	5264	11605	*6\6 *6\16
M550	5500	217	*2400 *2400	*4800 *4800	*3700 *3700	*4400 *4650	3420	135	3470	137	155	6	160	6	4921	10849	5368	11834	*3\6 *3\6
M600	6000	236	*1500 *2200	*3000 *4400	*1650 *2400	*3300 *4800	3670	144	3720	146	155	6	160	6	4969	10955	5421	11951	*3\6 *3\6

Note: (1) \* refers to the rate capacity when the front wheel of the truck is dual tyre.

(2) When the front wheel of 6000-7000 lbs is dual tyre, the weight is the data in the table plus 100kg;

**Wide View Full Free 2-Stage Mast 4000-5000 lbs**

Mast model	Max.lifting height	Load capacity (lode center 500mm)		
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