

INTERNAL COMBUSTION COUNTERBALANCED FORKLIFT TRUCK **4-5 ton**

WIDE VIEW MAST												
Mast model	Max.Lifting height	Load capacity/Load center (500mm)(kg)			Height mast retracted (C)(mm)	Tilting angles Forward/backward	Service Weight (kg)					
		CPCCD140	CPCCD145	CPCCD150			CPCCD43	CPCCD45	CPCCD50	CPCC43	CPCC45	CPCC50
M260	2600	4000	4500	5000	2375	6° / 12°	6450	6750	7050	6150	6450	6750
M270	2700	4000	4500	5000	2125	6° / 12°	6475	6775	7075	6175	6475	6775
M300	3000	4000	4500	5000	2275	6° / 12°	6500	6800	7100	6200	6500	6800
M330	3300	4000	4500	5000	2425	6° / 12°	6515	6815	7115	6215	6515	6815
M350	3500	4000	4500	5000	2525	6° / 12°	6525	6825	7125	6225	6525	6825
M370	3700	4000	4500	5000	2625	6° / 12°	6535	6835	7135	6235	6535	6835
M375	3750	4000	4500	5000	2650	6° / 12°	6540	6840	7140	6240	6540	6840
M400	4000	4000	4500	5000	2825	6° / 6°	6550	6850	7150	6250	6550	6850
M425	4250	*4000	*4500	*5000	2900	6° / 6°	6560	6860	7160	6260	6560	6860
M450	4500	3700	4200	4800	3075	6° / 6°	6575	6875	7175	6275	6575	6875
M475	4750	3500	4000	4250	3200	6° / 6°	6590	6890	7190	6290	6590	6890
M500	5000	3300	3800	4300	3325	6° / 6°	6600	6900	7200	6300	6600	6900
M550	5500	2900	3200	3400	3575	3° / 6°	6630	6930	7230	6330	6630	6930
M600	6000	2600	3000	3300	3825	3° / 6°	6650	6950	7250	6350	6650	6950

Note: \* Refers to the rated capacity with front dual tyre.

WIDE VIEW FULL FREE 2-STAGE MAST														
Mast model	Max.Lifting height	Load capacity/Load center (500mm)(kg)			Height mast retracted (C)(mm)	Free lift (mm)	Full free lift (mm)	Tilting angles Forward/backward	Service Weight (kg)					
		CPCCD140	CPCCD145	CPCCD150					CPCC40	CPCC45	CPCC50	CPCC40	CPCC45	CPCC50
ZM261	2610	4000	4500	5000	2180	960	1380	6° / 12°	6475	6775	7075	6175	6475	6775
ZM271	2710	4000	4500	5000	2230	1010	1430	6° / 12°	6500	6800	7100	6200	6500	6800
ZM300	3000	4000	4500	5000	2375	1155	1575	6° / 12°	6550	6850	7150	6250	6550	6850
ZM330	3300	4000	4500	5000	2525	1305	1725	6° / 12°	6565	6865	7165	6265	6565	6865
ZM350	3500	4000	4500	5000	2625	1405	1825	6° / 12°	6575	6875	7175	6275	6575	6875
ZM375	3750	4000	4500	5000	2750	1530	1950	6° / 12°	6590	6890	7190	6290	6590	6890
ZM400	4000	4000	4500	5000	2975	1655	2075	6° / 6°	6615	6915	7215	6315	6615	6915
ZM450	4500	3700	4200	4500	3125	1950	2325	6° / 6°	6630	6930	7230	6330	6630	6930
ZM500	5000	3500	4000	4000	3375	2155	2575	6° / 6°	6665	6965	7265	6365	6665	6965
ZM550	5500	*3100	*3600	*3800	3625	2405	2825	3° / 6°	6690	6990	7290	6390	6690	6990
ZM600	6000	2900	3200	3300	3875	2655	3075	3° / 6°	6715	7015	7315	6415	6715	7015

Note: (1)Free lift (without backrest) : +380mm;  
(2) Refers to the rated capacity with front dual tyre.

WIDE VIEW FULL FREE 3-STAGE MAST														
Mast model	Max.Lifting height	Load capacity/Load center (500mm)(kg)			Height mast retracted (C)(mm)	Free lift (mm)	Full free lift (mm)	Tilting angles Forward/backward	Service Weight (kg)					
		CPCCD140	CPCCD145	CPCCD150					CPCC40	CPCC45	CPCC50	CPCC40	CPCC45	CPCC50
ZSM392	3920	3840	4350	4800	2235	1012	1430	6° / 6°	6700	7000	7300	6400	6700	7000
ZSM435	4350	3500	4100	4480	2380	1157	1575	6° / 6°	6740	7040	7340	6440	6740	7040
ZSM450	4500	3300	4000	4200	2430	1208	1625	6° / 6°	6755	7055	7355	6455	6755	7055
ZSM470	4700	3250	3800	4250	2495	1274	1692	6° / 6°	6775	7075	7375	6475	6775	7075
ZSM480	4800	3150	3700	3950	2530	1307	1725	6° / 6°	6785	7085	7385	6485	6785	7085
ZSM500	5000	3000	3400	3800	2630	1407	1825	6° / 6°	6805	7105	7405	6505	6805	7105
ZSM540	5400	2750	3100	3400	2755	1532	1950	3° / 6°	6845	7145	7445	6545	6845	7145
ZSM600	6000	2400	2800	3100	2995	1772	2190	3° / 6°	6885	7185	7485	6585	6885	7185

Note: (1)Free lift (without backrest) : +395mm;  
(2) Refers to the rated capacity with front dual tyre.

HELI



**H series** / HIGH EFFICIENT ENERGY EFFICIENT

**4-5 ton H series**  
INTERNAL COMBUSTION COUNTERBALANCED FORKLIFT TRUCK

Standard equipments:

- Standard fork
- Standard carriage
- M300 standard mast
- Standard overhead guard
- Single air cleaner
- Standard muffler
- Control valve (two three)
- Standard pneumatic tyre
- Normal seat
- Driver's foot

Optional equipments:

- Cab
- Warning light
- Dual air cleaner
- Heater
- Filter
- Fine extinguisher
- Protecting net
- Dual tyre
- Solid tyre
- Long fork
- Suspension seat
- Windshield glass
- Rear working light
- Wide carriage
- Control valve (multi three)
- High vertical exhaust
- Spark arrested muffler
- Catalyst muffler
- Tilting cylinder lock
- Steering cylinder lock
- Two stage foot lift mast
- Three stage free lift mast

Optional attachments:

- Side shifter
- Fork positioner
- Double side shifter
- Bale clamp
- Single double pallet handler
- Hinged forks
- Rotator
- Push/pull
- Carpel boom
- Load stabilizer
- Turntables
- Crane jib
- Glass handler
- Fork extension
- Paper roll clamp
- Bale clamp
- Drum clamp
- Fork clamp
- Dock clamp
- Multi-purpose clamp

**HIDRALTURA**  
CARRETTILLAS, ELEVADORAS

AUTHORIZED DEALER

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**4-5 ton H series**  
INTERNAL COMBUSTION COUNTERBALANCED FORKLIFT TRUCK



**H series** / HIGH EFFICIENT ENERGY EFFICIENT

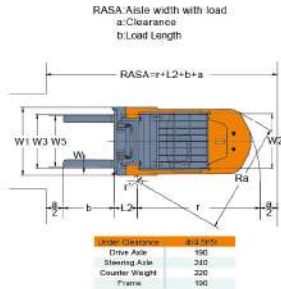
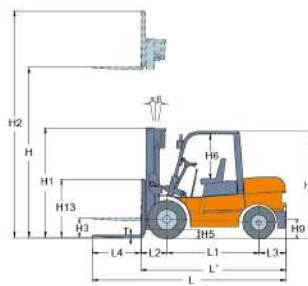
**HELI**  
LIFTING THE FUTURE

**24 YEARS** TOP1 FORKLIFT MANUFACTURER AND SELLER IN CHINA FOR CONSECUTIVE 24 YEARS

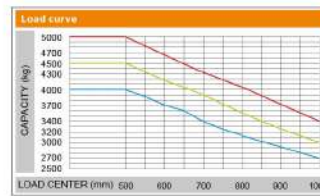
**Date and design Characteristics**

Character										
1.01 Manufacturer					HELI					
1.02 Model		CPCD40 M2	CPCD45 M2	CPCD50 M2	CPOVD40-TY5	CPOVD46-TY5	CPOVD60-TY5	CPC40-XC3	CPC45-XC3	CPC50-WX5
1.03 Power type			Diesel			Gasoline/LPG			Diesel	
1.04 Rated capacity	Kg	4000	4500	5000	4000	4500	5000	4000	4500	5000
1.05 Load center	mm					500				
1.06 Driving mode						Steered				
Size										
2.01 Mast height, extended (with backrest, unloaded)	H2	mm				4217				
2.02 max. Fork height	H	mm				3900				
2.03 Mast height, lowered	H1	mm				2275				
2.04 Free lift	H0	mm				150				
2.05 Backrest height (from the fork surface)	H13	mm				1217				
2.06 distance from the seat surface to the overhead guard	H6	mm				980				
2.07 Overall height (overall height)	H4	mm				2270				
2.08 Overall length (fork/without fork)	L/L'	mm	4145/3075	4165/3095	4209/3139	4145/3075	4165/3095	4209/3139	4145/3075	4165/3095
2.09 Front overhang	L2	mm				555				
2.10 Rear overhang	L3	mm	520	540	584	520	584	520	540	584
2.11 Wheel base	L1	mm				2000				
2.12 Traction pin height	H9	mm				385				
2.13 Min. Under clearance (at mast)	H5	mm				175				
2.14 overall width	W1	mm				5480				
2.15 Fork distance (external)(max./min.)	W5	mm				1340/300				
2.16 Tread (front tread/rear tread)	W3/W2	mm				1180/1190				
2.17 Min. Turning radius (inside)	r'	mm				220				
2.18 min. Turning radius (outside)	r	mm	2720	2740	2800	2720	2800	2720	2740	2800
2.19 min. Right angle aisle width	Ra	mm	2400	2500	2580	2400	2500	2400	2500	2580
2.20 Mast tilting angle (front/rear)	α/β	°				6°/12°				
2.21 Fork size	L4xW4	mm				1070x150x50				
Performance										
3.01 Max. Travelling speed (loaded/unloaded)	Kmh		25/26			25/26		18/19		18/19
3.02 lifting speed (loaded/unloaded)	mm/s		460/520			460/520		360/390		360/390
3.03 Lowering speed (loaded/ unloaded)	mm/s					<800>=300				
3.04 Traction force (loaded/unloaded)	KN		22/18			25/16		21/14		31/14
3.05 max. Gradeability(loaded/unloaded)	%	18/20	17/20	18/20		17/20		17/20	16/20	20/25
Weight										
4.01 Service weight	Kg	6500	6900	7100	6500	6900	7100	6200	6500	6900
4.02 Weight distribution (loaded (front/rear)	Kg	8625/1575	9750/1550	10500/1600	8625/1575	9750/1550	10500/1600	8568/1632	9020/1680	10030/1770
4.03 weight distribution (unloaded (front/rear)	Kg	2700/3800	2710/4090	2680/4420	2700/3900	2710/4090	2680/4420	2635/3565	2730/3770	2890/3916
Wheels/Tyres										
5.01 Tyre number x drive wheel (front/rear)					2X2					
5.02 tyre type (front/rear)					Pneumatic tyre					
5.03 tyre model (front)		8.25-15-14PR		300-15-20PR		300-15-20PR		8.25-15-14PR		8.25-15-14PR
5.04 Tyre model (rear)					7.00-12-12PR					
5.05 Service brake					powered brake-pedal type					vacuum assist -pedal type
5.06 Parking brake						Mechanical hand brake lever type				
Drive and control device										
6.01 Battery (voltage /capacity)	V/Ah		24/80			12/100		24/80		
6.02 Engine manufacturer /model			Mitsubishi S6S-230			GM 4.3L Gasoline/LPG		Xinchang 4D36G		Wuxi CA4110
6.03 Engine rated power	KW/rpm		52/2300			Gasoline: 70/2300, LPG: 76.6/2300		48/2300		61/2200
6.04 Engine rated torque	Nm/rpm		249/1700			Gasoline: 287/1700, LPG: 323.5/1700		230/1900-1800		305/1400-1600
6.05 Engine cylinder (number bore xstroke)			6.94x120			6.101.6x98.39		4.98x116		4.110x125
6.06 engine displacement	L		4.968			4.29418		3.5		4.752
6.07 Engine fuel tank capacity	L					90				
6.08 Gear number (front/rear)					2.1 powered shift.			2.2 manual shift		

Engine Model and Main Specification for Option					
Engine manufacturer /model	Engine rated power / rated speed KW/rpm	Max. torque/speed Nm/rpm	Engine displacement L	Engine cylinder (Number-borexstroke)	Applied model
Welling 4RMG25-1	55/2200	270/1680	4.329	4-105x125	CPCD40-50-WF6
Wuxi CA4110	61/2200	336/1400-1600	4.75	4-110x125	CPCD40-5G-WX5
GM 4.3L Tier IV Certified engine	Gasoline: 70/2300 LPG: 76.6/2300	Gasoline: 287/1700 LPG: 323.5/1700	4.29418	6-101.6x98.39	CPOD40-9C-TY5
Quanchai 4C6-M	48/2300	230/1800-1800	3.47	4-95x115	CPC40-45-OC1



Under Clearance	412/216
Drive Axle	190
Steering Axle	210
Counter Weight	220
Frame	190



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.

Mast lifting height and fork length table													
Wide view normal mast lifting height (mm)	2600	2700	3000	3300	3500	3700	3750	4000	4250	4500	5000	5500	6000
two stage full free mast lifting height (mm)	2610	2710	3000	3300	3500	3750	4000	4500	5000	5500	6000		
three stage full free mast lifting height (mm)	3920	4350	4500	4700	4800	5000	5400	6000					
fork length (mm)	1070	1220	1370	1520	1670	1820	1970	2120					

Note: Equipments with \* is standard.