

INTERNAL COMBUSTION COUNTERBALANCED FORKLIFT TRUCK

4-5 ton

WIDE VIEW MAST

Model	Max.Lifting height	Load capacity(Load center 500mm)(kg)			Height mast retracted (C)(mm)	Tilting angles Forward/backward	Service Weight (kg)				
		CPCD40	CPCD45	CPCD50			CPCD40	CPCD45	CPCD50	CPC40	CPC45
M260	2600	4000	4500	5000	2075	6° / 12°	6450	6750	6150	6450	6750
M270	2700	4000	4500	5000	2125	6° / 12°	6475	6775	7075	6175	6475
M300	3000	4000	4500	5000	2275	6° / 12°	6500	6800	7100	6200	6500
M330	3300	4000	4500	5000	2425	6° / 12°	6518	6815	7115	6215	6515
M350	3500	4000	4500	5000	2525	6° / 12°	6525	6825	7125	6225	6525
M370	3700	4000	4500	5000	2625	6° / 12°	6535	6835	7135	6235	6535
M375	3750	4000	4500	5000	2650	6° / 12°	6540	6840	7140	6240	6540
M400	4000	4000	4500	5000	2825	6° / 6°	6550	6850	7150	6250	6550
M425	4250	3800	4300	4700	2980	6° / 6°	6560	6860	7160	6260	6560
M450	4500	4000	4500	5000	3075	6° / 6°	6575	6875	7175	6275	6575
M475	4750	3500	4000	4500	3200	6° / 6°	6590	6890	7190	6290	6590
M500	5000	3200	3600	4000	3325	6° / 6°	6600	6900	7200	6300	6600
M550	5500	2900	3200	3600	3575	3° / 6°	6630	6930	7230	6330	6630
M600	6000	2600	3000	3300	3825	3° / 6°	6650	6950	7250	6350	6650

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

WIDE VIEW FULL FREE 2-STAGE MAST

Model	Max.Lifting height	Load capacity(Load center 500mm)(kg)				Height mast retracted (C)(mm)	Free lift height (mm)	Tilting angles Forward/backward	Service Weight (kg)				
		CPCD40	CPCD45	CPCD50	CPC40				CPC45	CPC50			
ZM261	2610	4000	4500	5000	2180	960	1390	6° / 12°	6475	6775	7075	6175	6475
ZM271	2710	4000	4500	5000	2230	1010	1430	6° / 12°	6500	6800	7100	6200	6500
ZM300	3000	4000	4500	5000	2275	1185	1575	6° / 12°	6550	6850	7150	6250	6550
ZM330	3300	4000	4500	5000	2525	1305	1725	6° / 12°	6565	6865	7165	6265	6565
ZM350	3500	4000	4500	5000	2625	1405	1825	6° / 12°	6575	6875	7175	6275	6575
ZM375	3750	4000	4500	5000	2750	1530	1950	6° / 12°	6590	6890	7190	6290	6590
ZM400	4000	4000	4500	5000	2875	1655	2075	6° / 6°	6605	6905	7205	6305	6605
ZM450	4500	3700	4200	4500	3125	1905	2320	6° / 6°	6630	6930	7230	6330	6630
ZM500	5000	3200	3600	4000	3375	2155	2570	6° / 6°	6665	6965	7265	6365	6665
ZM550	5500	2900	3200	3600	3625	2405	2820	3° / 6°	6690	6990	7290	6390	6690
ZM600	6000	2600	3000	3300	3875	2655	3070	3° / 6°	6715	7015	7315	6415	6715

Note: (1)Free lift (without backrest) = 340mm;
(2) Refers to the rated capacity with front dual tyre

WIDE VIEW FULL FREE 3-STAGE MAST

Model	Max.Lifting height	Load capacity(Load center 500mm)(kg)				Height mast retracted (C)(mm)	Free lift height (mm)	Tilting angles Forward/backward	Service Weight (kg)				
		CPCD40	CPCD45	CPCD50	CPC40				CPC45	CPC50			
ZSM392	3920	3840	4390	4800	2225	1012	1430	6° / 6°	6750	7000	7300	6400	6700
ZSM435	4350	3500	4100	4600	2390	1157	1575	6° / 6°	6740	7040	7340	6440	6740
ZSM450	4500	3200	3800	4200	2430	1209	1625	6° / 6°	6755	7055	7355	6455	6755
ZSM470	4700	3500	4200	4700	2590	1350	1765	6° / 6°	6775	7075	7375	6475	6775
ZSM480	4800	3400	4000	4300	2495	1274	1692	6° / 6°	6785	7085	7385	6485	6785
ZSM500	5000	3100	3700	3950	2630	1407	1825	6° / 6°	6805	7105	7405	6505	6805
ZSM540	5400	2750	3100	3400	2755	1532	1950	3° / 6°	6845	7145	7445	6545	6845
ZSM600	6000	2400	2800	3100	2995	1772	2190	3° / 6°	6865	7165	7465	6565	6865

Note: (1)Free lift (without backrest) = 365mm;
(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 throw)
- Standard pneumatic tyre
- Normal seat
- Driver's foot

Optional equipments

- Waring light
- Dual air cleaner
- Heater
- Film
- Fire extinguisher
- Protecting net
- Dual tyre
- Normal seat
- Langlark
- Suspension seat

- Windshield glass
- Rear working light
- Wide carriage
- Control valve (multi throw)
- High vertical exhaust
- Spark arrested muffler
- Catalyst muffler
- Tilting cylinder boot
- Steering cylinder/brake
- Two stage free lift mast
- These stages free lift mast

Optional attachments

- Side shifter
- Fork positioner
- Double side shifter
- Single double ballast handler
- Hinged forks
- Rotator
- Push/Pulls
- Carpet boom
- Load stabilizer
- Turntables
- Crane jib



4-5 ton H series
INTERNAL COMBUSTION COUNTERBALANCED FORKLIFT TRUCK

H series / HIGH EFFICIENT ENERGY EFFICIENT

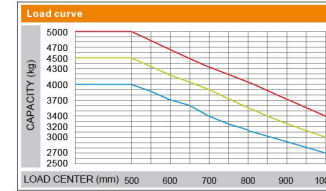
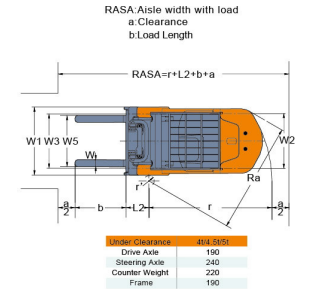
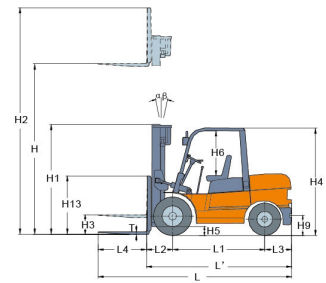
HELI
LIFTING THE FUTURE

24 YEARS TOP 1 FORKLIFF 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	CPOYD40-TY5	CPOYD45-TY5	CPOYD50-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
1.05	Load center	mm					500			5000
1.06	Driving mode						Seated			
Size										
2.01	Mast height, extended (with backrest, unloaded)	H2	mm				4217			
2.02	max. Fork height	H	mm				3000			
2.03	Mast height, lowered	H1	mm				2275			
2.04	Free lift	H3	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	
2.09	Front overhang	L2	mm				555			
2.10	Rear overhang	L3	mm	520	540	584	520	584	520	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				1480			
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	2740	2800	2800
2.19	min. Right angle aisle width	Ra	mm	2480	2500	2550	2480	2500	2550	2550
2.20	Mast tilting angle (front/rear)	α/β					6°/12°			
2.21	Fork size	L4xWxT	mm				1070x150x50			
Performance										
3.01	Max. Travelling speed (loaded/unloaded)	Km/h		25/26			25/26		18/19	18/19
3.02	lifting speed (loaded/unloaded)	mm/s		460/520			460/520		380/390	360/390
3.03	Lowering speed (loaded/ unloaded)	mm/s					<600/>300			
3.04	Traction force (loaded/unloaded)	kN		22/16			25/16		21/14	31/14
3.05	max. Gradeability(loaded/unloaded)	%		18/20	17/20	16/20	18/20	17/20	16/20	20/25
Weight										
4.01	Service weight	Kg	6500	6800	7100	6500	6800	7100	6200	6500
4.02	Weight distribution loaded (front/rear)	Kg	8925/1575	9750/1550	10500/1600	8925/1575	9750/1550	10500/1600	8569/1632	9320/1680
4.03	weight distribution unloaded (front/rear)	Kg	2700/3800	2710/4090	2680/4420	2700/3800	2710/4090	2680/4420	2635/3565	2730/3770
										2890/3910
Wheel and tyre										
5.01	Tyre number xdrive wheel (front/rear)						2X2			
5.02	tyre type (front/rear)						Pneumatic tyre			
5.03	tyre model (front)		8.25-15-14PR	300-15-20PR		8.25-15-14PR	300-15-20PR	8.25-15-14PR	8.25-15-14PR	300-15-20PR
5.04	Tyre model (rear)					7.00-12-12PR				
5.05	Service brake								vacuum assist -pedal type	
5.06	Parking brake						powered brake-pedal tyre			
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 4D35G	Wuxi CA4110
6.03	Engine rated power	KW/rpm		52/3000			Gasoline: 70/2300, LPG: 76.6/2300		48/2300	61/2200
6.04	Engine rated torque	Nm/rpm		248/1700			Gasoline: 287/1700, LPG: 323.5/1700		230/1600-1800	305/1400-1600
6.05	Engine cylinder (number-bore *stroke)			6-94x120			6-101.6x88.39		4-98x115	4-110x125
6.06	engine displacement	L		4.966			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-bore*stroke)	Applied model
Weifang 4RMG25-1	55/2200	270/1680	4.329	4-105x125	CPCD40-50-WF6
Wuxi CA4110	61/2200	305/1400~1600	4.75	4-110x125	CPCD40-50-WX5
GM4.3L Tier IV Certified engine	Gasoline 70/2300 LPG 76.6/2300	Gasoline 287/1700 LPG 323.5/1700	4.29418	6-101.6x88.39	CPCD40-50-TY6
Quanchai 4C5-M	48/2300	230/1600-1800	3.47	4-98x115	CPC40-45-OC1



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	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.