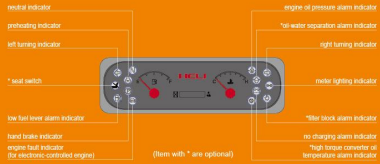


HELI

Reliable special designed instrument



Reliable special instrument display the whole truck's working condition, fault detect and other important information completely, which make the driver to see the truck's condition easy.

Standard configuration

Horn meter	Overhead guard rain cover
Horn	Standard fork
Oil pressure alarm	Integrated electric box
Control valve	Hydraulic oil circuit filter
Hydraulic-powered steering	Flow regulator
Semi-suspension seat	Oil level gauge
Backrest	Charging indicator
Back view mirror	Wide view mast
Front combined lamp	Air intake device
Transmission oil filter	Durable tread tyre
Engine flame out device	Lifting and strag operation lever
Cable type parking brake	Traction pin
Water temperature meter	Head lamp
Driver's foot	Hydraulic oil dipstick
Rear combined lamp	Overhead guard
Backward buzzer	Torque converter oil dipstick
Tilt oil circuit self lock valve	Combined instrument
Tilt adjustable steering column	Electro-hydraulic direction changing

Optional

Driver's cab	Customized color
Warning light	Optional attachments
High air exhausting device	Steel protection net
Double air cleaner	Double-tyre and protection device
Suspension seat	Rotating seat for LPG
Lengthening fork extension	Single-shaft fork system
Warm air blower	Power braking
Solid tyre	
Widen fork arm carrier	
Wind shield	
Cleaning muffer	
Fire extinguisher muffer	
Fire extinguisher	
Rear working light	
Air conditioner (certain type)	
Travelling control system	
Torque converter oil temperature meter	
Tilting cylinder bush	

HELI 安徽合力股份有限公司
HEILICHINA CO., LTD.

ADD: NO. 668 Fuyang Street Economic Development Zone Hefei, P. R. China
TEL: (86) 5515821333-6368005
FAX: (86) 55158233411
400 SERVICE: 4001400761
WEBSITE: <http://www.helichina.com>

AUTHORIZED DEALER

100% FORKTRUCK MANUFACTURER AND SALES IN CHINA FOR CONSECUTIVE 23 YEARS

© 2014. All copyright Catalog No.201421-A Heli Print

* Our products are subject to improvements and changes without notice.



2-3.5ton
H SERIES INTERNAL COMBUSTION
COUNTERBALANCED FORKLIFT TRUCK

HELI
LIFTING THE FUTURE

CHINESE EXPORT BRAND
Recommended
By China Chamber of Commerce for Import and Export of Machinery
And Electric Products

H SERIES INTERNAL COMBUSTION
COUNTERBALANCED FORKLIFT TRUCK 2-3.5ton

New H series

Improved performance, superior quality



Vibration 20% reduced
Noise 3dB reduced

- The cushions connection and full suspension driver's cab absorb truck's vibration effectively.
- Noise around ear reduced through down the lifting cylinder to the floor board and using fully closed patch type driver's cab.
- Lower damping device inside the lifting system reducing mast shock and vibration, avoiding crash noise caused by goods down to the ground.

Workspace 45% increased

- Space around foot effectively increased by up steering unit and using suspension type landing brake.
- The operation space enlarged by heighten overhead guard and using large arc shape on the front leg.
- Semi-suspension seat, steering wheel with small diameter, electro-hydraulic direction changing and automobile type double joystick combined switch.

Operator's view 20% improved

- Operator's front view improved through wide view mast and lowering the dash board.
- Operator's rear view improved through the CAE optimal designed counterweight.



Working efficiency 10% improved

- Small turning radius makes steering flexible and easy.
- Fast lifting speed, good gradability and high efficiency.
- High working efficiency guarantees the truck could meet the requirements for various kinds of complicated work conditions perfectly wherever at port, dock, and railway station.

Loading capacity more than 5% increased

Stability 5% improved
Reliability 40% improved

- The hot air reflux isolating device, optimal thermal dissipation duct and aluminum plate fin type radiator improve cooling ability and ensure engine work reliability.
- Automobile type of lifting cap and optimal of lifting channel structure and process ensure whole truck's safety.
- The constant displacement pump load sensing steering system increases the lifting speed and reduce the hydraulic oil temperature.
- Optimal design to key parts like frame, mast, overhead guard and steering axle improve the whole truck's safety and reliability.
- The whole truck's gravity center backward to improve loading capacity, made more stability and safety.

Engine hood open angle increased to 80°

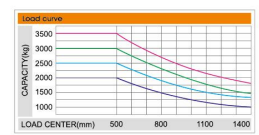
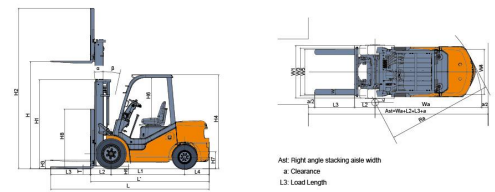
- Enlarged internal space is convenient to maintenance engine and transmission.
- Increased hood open angle make maintenance quick and easy.



H SERIES INTERNAL COMBUSTION COUNTERBALANCED FORKLIFT TRUCK 2-3.5ton



Manufacturers' Data and Design Characteristics										
1.1 Manufacturer										
HELI										
1.2 Model										
CPCD20 CPCD25 CPCD30 CPCD35										
1.3 Engine type										
Diesel										
1.4 Rated capacity										
500 2000 2500 3000 3500										
1.5 Load center										
500 2000 2500 3000 3500										
1.6 Operation mode										
Seat-type										
2.1 Max. lifting height										
H mm 3000										
2.1 Mast overall height (fork to the ground and mast be vertical)										
H1 mm 2000 2000 2065 2180 2000 2000 2065 2180										
2.3 Max. fork lifting height (with backrest)										
H2 mm 4030 4030 4245 4235 4030 4030 4245 4235										
2.4 Free lift height										
H3 mm 165 165 165 170 165 165 165 170										
2.5 Overall height (overhead guard)										
H4 mm 2150 2150 2170 2170 2150 2150 2170 2170										
2.6 Min. ground clearance(at the mast)										
H5 mm 115 115 135 135 115 115 135 135										
2.7 Distance from the surface of the seat to the overhead guard										
H6 mm 275 275 280 280 275 275 280 280										
2.8 Traction pin height										
H7 mm 1000 1000 1000 1000 1000 1000 1000 1000										
2.9 Backrest height (calculated from the surface of the fork)										
H8 mm 1227 1227 1222 1222 1227 1227 1222 1222										
2.10 Overall length (with fork/without fork)										
(L/A) mm 3500/2590 3708/2638 3819/2748 3836/2766 3500/2590 3708/2638 3819/2748 3836/2766										
2.11 Wheel base										
L1 mm 1650 1650 1700 1700 1650 1650 1700 1700										
2.12 Front overhang										
L2 mm 473 473 478 478 473 473 478 478										
2.13 Rear overhang										
L4 mm 457 515 570 570 457 515 570 570										
2.14 Overall width										
W1 mm 1150 1150 1225 1225 1150 1150 1225 1225										
2.15 Tread (front/rear tread)										
W2/W3 mm 970/970 1000/970 1000/970 970/970 1000/970 1000/970 1000/970										
2.16 Fork adjustable range (to the external of the fork)(Max./Min.)										
W5 mm 1030/244 1030/244 1050/250 1030/244 1050/250 1030/244 1050/250										
2.17 Min. turning radius (external)										
Wa mm 2255 2310 2400 2400 2255 2310 2400 2400										
2.18 Min. turning radius(internal)										
Wb mm 180 180 200 200 180 180 200 200										
2.19 Mast tilting angle										
Ra mm 2274 2330 2380 2415 2274 2330 2380 2415										
2.20 Mast tilting angle										
Rb ° 6°/12°										
2.21 Fork size L3/W4										
R mm 520-122-40 1070-122-40 1070-125-45 1070-125-50 520-122-40 1070-122-40 1070-125-45 1070-125-50										
3. Performance										
3.1 Max. travelling speed (loaded/unloaded)										
km/h 1719 1719 1920 1919 1719 1719 1920 1919										
3.2 Lifting speed (loaded/unloaded)										
mm/s 560/900 560/900 500/550 570/900 560/900 560/900 500/550 570/900										
3.3 Lowering speed (loaded/unloaded)										
mm/s 450/500 450/500 450/500 350/400 450/500 450/500 350/400										
3.4 Max. drawbar pull (loaded/unloaded)										
kN 1610/15 1610/15 19114.5 19114.5 1610/15 1610/15 19114.5 19114.5										
3.5 Max. gradability (loaded/unloaded)										
% 15/20 15/20 23/20 23/20 15/20 15/20 23/20 23/20										
4. Weight										
4.1 Total weight										
kg 3448 3640 4370 4800 3448 3448 4370 4800										
4.2 Weight distribution loaded(front/rear)										
kg 4734/654 5520/820 6460/910 7470/830 4734/654 5520/820 6460/910 7470/830										
4.3 Weight distribution unloaded(front/rear)										
kg 1643/1805 1684/2256 1710/2660 1800/2920 1643/1805 1684/2256 1710/2660 1800/2920										
5. Wheel and Tyre										
5.1 Wheel number X-drive wheel (front/rear)										
2X/2										
5.2 Tyre type (front/rear)										
Pneumatic type										
5.3 Tyre size (front/rear)										
7.0D-12.0R6.0D-9 XPR 7.0D-12.0R6.0D-9 XPR 20-9.5-12PR6.0D-10 XPR 20-9.5-12PR6.0D-10 XPR 7.0D-12.0R6.0D-9 XPR 20-9.5-12PR6.0D-10 XPR 20-9.5-12PR6.0D-10 XPR										
5.4 Service brake										
Hydraulic-Foot Pedal										
5.5 Parking brake										
Mechanical-Hand Lever										
6. Battery (voltage/capacity)										
V/Wh 1200										
6.2 Engine mode										
ISUZU C240PKJ										
6.3 Engine rated power										
kW/hp 35.4/2000										
6.4 Engine rated torque										
N/m/hp 130/1800										
6.5 Engine cylinder number/bore/stroke										
4-86-102										
6.6 Engine displacement										
L 2.369										
6.7 Engine fuel tank capacity										
L 3.168										
6.8 Transmission box shifting gears (front/rear type)										
5D 1-H Power Shift TM / 2.2 Manual Shift TM										



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 side goods, load capacity will be reduced. Different load capacity in different load center can be known in time through load chart.

WIDE VIEW MAST

Mast model	Max. lift height (mm)	Load capacity (load center 500mm)				Mast overall height (fork to the ground)			Service weight			Mast height (mm)	
		CPCD20	CPCD25	CPCD30	CPCD35	2-2.5t	3t	3.5t	CPCD20	CPCD25	CPCD30		CPCD35
M200	2000	2000	2500	3000	3500	1500	1570	1680	3265	3640	4200	4700	6-12
M250	2500	2000	2500	3000	3500	1750	1820	1930	3310	3695	4355	4750	6-12
M300	3000	2000	2500	3000	3500	2000	2070	2180	3345	3730	4370	4860	6-12
M330	3300	2000	2500	3000	3500	2150	2220	2330	3370	3745	4395	4830	6-12
M350	3500	2000	2500	3000	3500	2250	2320	2430	3395	3770	4420	4850	6-12
M370	3700	2000	2500	3000	3500	2350	2420	2530	3400	3775	4430	4870	6-12
M400	4000	2000	2500	3000	3500	2500	2620	2730	3465	3840	4490	4940	6-12
M425	4250	1500	2000	2500	3000	2675	2745	2855	3485	3860	4510	4970	6-12
M450	4500	1500	2000	2500	3000	2800	2870	2980	3500	3875	4525	4980	6-12
M500	5000	1500	2000	2500	3000	3050	3120	3230	3545	3920	4575	5040	6-12
M550	5500	1500	2000	2500	3000	3300	3370	3480	3590	3865	4545	5030	6-12
M600	6000	1500	2000	2500	3000	3550	3620	3730	3630	4005	4795	5285	6-12

Note: (1) *stands for the rated capacity when the front type is double type.
(2) When the front type of the 2.0-3.5 ton truck is double type, the service weight of the truck is the weight in the table plus 150kg.

WIDE VIEW FULL FREE 2-STAGE MAST

Mast model	Max. lift height (mm)	Load capacity (load center 500mm)				Mast overall height (fork to the ground)			Free lift height (with backrest)			Service weight			Mast height (mm)	
		CPCD20	CPCD25	CPCD30	CPCD35	2-2.5t	3t	3.5t	2-2.5t	3t	3.5t	CPCD20	CPCD25	CPCD30		CPCD35
ZM2000	2000	2000	2500	3000	3500	1495	1570	1680	495	370	500	3640	3645	4330	4770	6-12
ZM2500	2500	2000	2500	3000	3500	1745	1820	1930	745	620	750	3685	3690	4370	4820	6-12
ZM3000	3000	2000	2500	3000	3500	1995	2070	2180	995	870	1000	3750	3750	4420	4870	6-12
ZM3300	3300	2000	2500	3000	3500	2145	2220	2330	1145	1020	1150	3745	3750	4445	4915	6-12
ZM3500	3500	2000	2500	3000	3500	2245	2320	2430	1345	1220	1350	3735	3750	4440	4915	6-12
ZM4000	4000	2000	2500	3000	3500	2495	2620	2730	1545	1420	1550	3840	3855	4500	5000	6-12
ZM4250	4250	1500	2000	2500	3000	2670	2745	2855	1670	1545	1675	3800	3875	4575	5025	6-12
ZM4500	4500	1500	2000	2500	3000	2795	2870	2980	1795	1670	1800	3875	3900	4595	5090	6-12
ZM5000	5000	1500	2000	2500	3000	3045	3120	3230	2045	1920	2050	3940	3940	4640	5160	6-12
ZM5500	5500	1500	2000	2500	3000	3295	3370	3480	2245	2120	2250	3965	4130	4830	5295	6-12
ZM6000	6000	1500	2000	2500	3000	3545	3620	3730	2395	2270	2400	4005	4175	4875	5350	6-12

Note: (1) *stands for the rated capacity when the front type is double type.
(2) When the front type of the 2.0-3.5 ton truck is double type, the service weight of the truck is the weight in the table plus 150kg.
(3) The free lift height (with backrest) of the 1.5 ton truck is the height (with backrest) to the table plus 635mm. The free lift height (with backrest) of the 2.0 ton truck is the height (with backrest) to the table plus 635mm. The free lift height (with backrest) of the 3.0 ton truck is the height (with backrest) to the table plus 635mm.

WIDE VIEW FULL FREE 3-STAGE MAST

Mast model	Max. lift height (mm)	Load capacity (load center 500mm)				Mast overall height (fork to the ground)			Free lift height (with backrest)			Service weight			Mast height (mm)	
		CPCD20	CPCD25	CPCD30	CPCD35	2-2.5t	3t	3.5t	2-2.5t	3t	3.5t	CPCD20	CPCD25	CPCD30		CPCD35
ZSM3000	3000	1900	2400	2900	3300	1795	1946	1946	755	740	740	3540	3000	4610	4925	6-8
ZSM4000	4000	1900	2400	2900	3300	1920	2065	2065	880	865	865	3570	3030	4640	4955	6-8
ZSM4250	4250	1600	2000	2500	2900	2045	2190	2190	1005	990	990	3600	3060	4665	4980	6-8
ZSM4500	4500	1500	2000	2500	3000	2065	2240	2240	1025	1010	1010	3610	3070	4680	4995	6-8
ZSM4700	4700	1700	2000	2500	3000	2140	2340	2340	1120	1040	1040	3625	3085	4700	5015	6-8
ZSM4800	4800	1700	2000	2500	3000	2160	2360	2360	1140	1060	1060	3630	3090	4720	5025	6-8
ZSM5000	5000	1700	2000	2500	3000	2180	2380	2380	1160	1080	1080	3635	3100	4735	5040	6-8
ZSM5200	5200	1700	2000	2500	3000	2200	2400	2400	1180	1100	1100	3640	3110	4750	5055	6-8
ZSM5400	5400	1700	2000	2500	3000	2220	2420	2420	1200	1120	1120	3645	3120	4765	5070	6-8
ZSM5600	5600	1700	2000	2500	3000	2240	2440	2440	1220	1140	1140	3650	3130	4780	5085	6-8
ZSM5800	5800	1700	2000	2500	3000	2260	2460	2460	1240	1160	1160	3655	3140	4795	5100	6-8
ZSM6000	6000	1700	2000	2500	3000	2280	2480	2480	1260	1180	1180	3660	3150	4810	5115	6-8

Note: (1) *stands for the rated capacity when the front type is double type.
(2) When the front type of the 2.0-3.5 ton truck is double type, the service weight of the truck is the weight in the table plus 150kg.
(3) The free lift height (with backrest) of the 1.5 ton truck is the height (with backrest) to the table plus 635mm. The free lift height (with backrest) of the 2.0 ton truck is the height (with backrest) to the table plus 635mm. The free lift height (with backrest) of the 3.0 ton truck is the height (with backrest) to the table plus 635mm.

Engine Model and Main Specification for Option

Engine model	Rated power (rotating speed) (kW/ps)	Rated power (rotating speed) (kW/ps)	Engine displacement (L)	Engine cylinder number	Note
ISUZU 4JK2	44.9/2450	184/1760(1800)	3.05	4	2.3.5t
IJ493	39/2000	165/1800	2.771	4	2.3.5t
K71	31.5/2000	140/1800	2.065	4	2.3
K25	37.4/2000	175.5/1800	2.488	4	2.3, 2.5, 3t