

Reliable special designed instrument



Reliable special meter display the whole truck's working condition, fault detect and other important information completely which make the operator master the whole truck condition directly and conveniently.

Standard configuration

-
- Horn
- Control valve
- Wholly hydraulic-powered steering
- Half enclosed seat
- Backrest
- Back view mirror
- Front combined lamp
- Transmission oil filter
- Engine flame out device
- Cable type parking brake
- Driver's tool
- Rear combined lamp
- Backward buzzer
- Tilt oil circuit self lock valve
- Tilt adjustable steering column
- Overhead guard rain cover
- Standard fork
- Integrated electric box
- Hydraulic oil circuit filter
- Flow regulator
- Wide view mast
- Air intaking device
- Durable tread tyre
- Lifting and tilting operation lever
- Traction pin
- Head lamp
- Hydraulic oil dipstick
- Overhead guard
- Torque converter oil dipstick
- Combined instrument
- Electro-hydraulic direction changing

Optional

-
- Driver's cab
- Warning light
- High air exhausting device
- Double air cleaner
- Suspension seat
- Lengthening fork extension
- Warm air blower
- Solid tyre
- Widen fork arm carrier
- Wind shield
- Cleansing muffler
- Fire extinguisher muffler
- Fire extinguisher
- Rear working light
- Travelling control system
- Torque converter oil temperature meter
- Tilting cylinder bush
- Customer made color
- Optional attachments
- Steel protection net
- Double-tyre and protection device
- Rotating seat for lpg
- Single/dual fuel system
- Low speed alarm



HELI 安徽合力股份有限公司
ANHUI HELI CO., LTD.

ADD: NO.688 Fangxing Street, Economical Development Zone, Hefei, P.R.China
TEL: (86 551) 63639068 (America); 63639258 (Europe); 63639358 (Asia); 63662105 (Africa & Middle East); 63639530 (Warehouse Equipment); 63639531 (Wheel loader)
FAX: (86 551) 63639966
WEBSITE: <http://www.helichina.net>

AUTHORIZED DEALER

2016 heli copyright
Catalog No.2016-03 HELI Print

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

1-1.8 t
H3 series Internal Combustion Counterbalanced Forklift Truck



H3 series HIGH EFFICIENCY ENERGY SAVING

HELI
LIFTING THE FUTURE

26 YEARS TOP1 FORKLIFT MANUFACTURER AND SELLER IN CHINA FOR CONSECUTIVE 25 YEARS



H3 1-1.8t

H3 series Internal Combustion Counterbalanced Forklift Truck



Improved performance superior quality



↓ Vibration 20% reduced

↓ Noise 1.9dB reduced

- > Cushion connection and wholly suspension driver's cab absorb whole truck's vibration effectively.
- > Noise around ear is reduced through down the tilting cylinder under the floor board and using fully closed patch type driver's cab.
- > Lower damping device inside the lifting system reduces mast shock and vibration, avoiding crash noise caused by goods falling to the ground.

↑ Workspace 45% increased

- > Space around foot is effectively increased through up steering unit and using suspension type inching.
- > The operation space is enlarged by heightened overhead guard and using large arc shape of the overhead guard's front leg
- > Semi-suspension seat, steering wheel with small diameter, electro-hydraulic direction changing and automobile type double joystick combined switch effectively improve driving comfort.

↑ Operator's view 20% improved

- > Operator's front view is improved through the assembling of stand wide view mast and lowering the dashboard.
- > Operator's rear view improved through the CAE optimal designed counterweight.



↑ Working efficiency 20% improved

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

↑ Reliability 40% improved

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

↑ Engine hood open angle increased to 80°

- > Enlarged internal space is convenient for engine and transmission box maintenance.
- > Increased hood open angle contributes to quick and convenient maintenance.





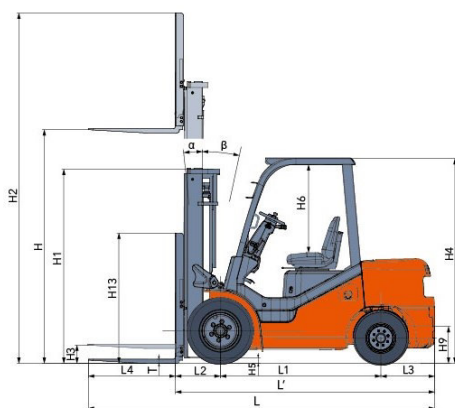
H3 1-1.8t

H3 series Internal Combustion Counterbalanced Forklift Truck

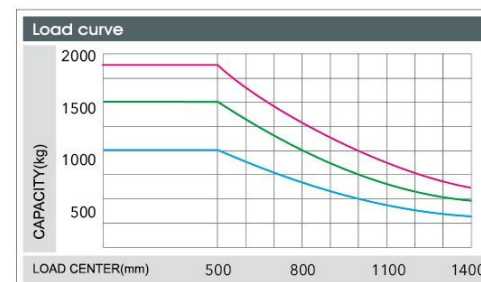
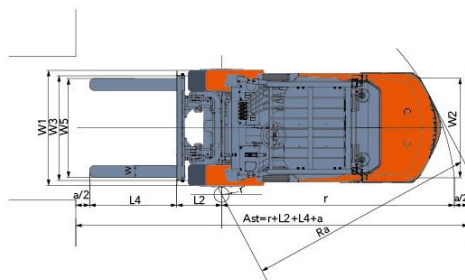
Manufacturer and technical parameters

Character		HELI				
1.01	Manufacturer	HELI				
1.02	Model	CPCD10/CP(Q)(Y)D10	CPCD15/CP(Q)(Y)D15	CPCD18/CP(Q)(Y)D18		
1.03	Rated capacity	kg	1000	1500	1750	
1.04	Load center	mm	500			
1.05	Operation mode	Seat-type				
Size						
2.01	Max.lifting height	H	mm	3000		
2.02	Mast overall height(Fork to the ground and mast be vertical)	H1	mm	1995	1995	1995
2.03	Max.fork lifting height(With backrest)	H2	mm	4039	4036	4036
2.04	Free lift height	H3	mm	152	155	155
2.05	Overall height(Overhead guard)	H4	mm	2140		
2.06	Min.ground clearance(At the mast)	H5	mm	110		
2.07	Distance from the surface of the seat to the overahead guard	H6	mm	1018		
2.08	Traction pin height	H9	mm	255		
2.09	Backrest height(Calculated from the surface of the fork)	H13	mm	1014		
2.10	Overall length(With fork/Without fork)	(L/L')	mm	3197/2277	3201/2281	3219/2299
2.11	Wheel base	L1	mm	1450		
2.12	Front overhang	L2	mm	406	409	409
2.13	Rear overhang	L3	mm	406	412	432
2.14	Overall width	W1	mm	1070		
2.15	Tread (Front tread/Rear tread)	(W3/W2)	mm	902/928	902/928	932/928
2.16	Fork adjustable range(the external of the fork)(Max./Min.)	W5	mm	950/200		
2.17	Min.turning radius(Exterior)	r	mm	1875	1910	1930
2.18	Min.turning radius(Interior)	r'	mm	49	49	49
2.19	Min.right angle aisle width	Ra	mm	2011	2016	2035
2.20	Min.right angle stacking aisle width	Ast	mm	3576	3584	3603
2.21	Mast tilting angle	α / β	deg	6°/10°		
2.22	Fork size	L4×W×T	mm	770×100×32	920×100×35	920×100×35
Weight						
3.01	Total weight	kg	2458	2760	2890	
3.02	Weight distribution loaded (Front/Rear)	kg	2859/599	3645/615	4035/605	
3.03	Weight distribution unloaded (Front/Rear)	kg	1232/1226	1204/1556	1188/1702	
Wheel and tyre						
4.01	Wheel number x = drive wheel (Front/Rear)	2X/2				
4.02	Tyre type(Front/Rear)	Pneumatic tyre				
4.03	Tyre size(Front/Rear)	6.50-10-10PR/5.00-8-10PR	6.50-10-10PR/5.00-8-10PR	6.50-10-10PR/5.00-8-10PR		
4.04	Service brake	Hydraulic-Foot Pedal				
4.05	Parking brake	Mechanical-Hand Lever				

Performance										
Model		CPCD10-WS1H	CPCD15-WS1H	CPCD18-WS1H	CPCD10-QC1H	CPCD15-QC1H	CPCD18-QC1H	CP(Q)(Y)D10-RC2H	CP(Q)(Y)D15-RC2H	CP(Q)(Y)D18-RC2H
Max.drawbar pull (Loaded/Unloaded)	kN	19/12	19/12	19/12	18/7	18/7	18/7	18/7	18/7	18/7
Max.Gradeability (Loaded/Unloaded)	%	40/24	40/20	39/18	42/25	40/20	36/18	39/23	39/19	35/17
Max.traveling speed (Loaded/Unloaded)	km/h	17/18	17/18	17/18	17/18	17/18	17/18	16/17	16/17	16/17
Lifting Speed (Loaded/Unloaded)	mm/s					610/650				
Lowing Speed (Loaded/Unloaded)	mm/s					450/600				
Drive and transmission control device										
Engine mode			C240PKJ-30			4B4-45V32			GCT K21	
Engine rated power	kW/rpm		34.3/2500			32/2500			31.5/2200	
Engine rated torque	Nm/rpm		137.7/1800			132/1800			140/1600	
Engine cylinder number-borexstroke			4-86×102			4-85×100			4-89×83	
Engine displacement	L		2.369			2.27			2.065	
Engine type			Diesel			Diesel			GAS/LPG	
Emission			Euro STAGE IIIA			CHINA STAGE III			Non-certificated type	
Battery(Voltage/Capacity)	V/Ah		12/80			12/80			12/60	
Engine fuel tank capacity	L		40			40			40	
Transmission box shifting gears(Front/Rear type)						1-1Power Shift T/M				



Ast: Right angle stacking aisle width
 a: Clearance
 L4: Fork Length



CPCD10 CP(Q)(Y)D10
 CPCD15 CP(Q)(Y)D15
 CPCD18 CP(Q)(Y)D18

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 wide 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. lifting height (mm)	load capacity (load center 500mm) (kg)			mast overall height (fork to the ground) (mm)	service weight (kg)			mast tilting angle (°) α/β
		CPCD10 CP(Q)(Y)D10	CPCD15 CP(Q)(Y)D15	CPCD18 CP(Q)(Y)D18		CPCD10 CP(Q)(Y)D10	CPCD15 CP(Q)(Y)D15	CPCD18 CP(Q)(Y)D18	
M200	2000	1000	1500	1750	1495	2395	2695	2825	6/10
M250	2500	1000	1500	1750	1745	2425	2730	2860	6/10
M300	3000	1000	1500	1750	1995	2458	2760	2890	6/10
M330	3300	1000	1500	1750	2145	2480	2780	2910	6/10
M350	3500	1000	1500	1750	2245	2490	2790	2920	6/10
M370	3700	1000	1500	1750	2345	2505	2810	2940	6/6
M400	4000	1000	1500	*1750	2545	2550	2855	2985	*6/10
M425	4250	950	*1400	*1600	2670	2570	2870	3000	*6/10
M450	4500	950	*1300	*1550	2795	2585	2885	3015	*6/10
M500	5000	*930	*1000	*1100	3045	2615	2920	3050	*6/6
M550	5500	*950	*1350	*1600	3045	2615	2920	3050	*6/6
M550	5500	*900	*1150	*1500	3345	2680	2980	3110	3/6
M600	6000	*850	*1050	*1400	3595	2710	3010	3140	3/6

Note: (1) *stands for the rated capacity when the front tyre is double-tyre. (2) When the front tyre of the 1-1.8t truck is double tyre, the service weight of the truck is the weight in the table plus 50kg.

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)	service weight (kg)			mast tilting angle (°) α/β
		CPCD10 CP(Q)(Y)D10	CPCD15 CP(Q)(Y)D15	CPCD18 CP(Q)(Y)D18			CPCD10 CP(Q)(Y)D10	CPCD15 CP(Q)(Y)D15	CPCD18 CP(Q)(Y)D18	
ZM200	2000	1000	1500	1750	1495	485	2430	2730	2860	6/10
ZM250	2500	1000	1500	1750	1745	735	2460	2765	2895	6/10
ZM300	3000	1000	1500	1750	1995	985	2495	2795	2930	6/10
ZM330	3300	1000	1500	1750	2145	1135	2520	2820	2950	6/10
ZM350	3500	1000	1500	1750	2245	1235	2535	2835	2965	6/10
ZM370	3700	1000	1500	1750	2345	1335	2545	2845	2975	6/6
ZM400	4000	1000	1500	*1700	2545	1535	2590	2895	3025	*6/10
ZM425	4250	1000	*1400	*1600	2670	1660	2610	2915	3045	*6/6
ZM450	4500	950	*1500	*1750	2795	1785	2630	2930	3060	*6/10
ZM500	5000	*930	*1300	*1500	3045	2035	2665	2965	3095	*6/6
ZM550	5500	*950	*1350	*1600	3045	2035	2665	2965	3095	*6/6
ZM550	5500	*900	*1150	*1500	3345	2335	2725	3030	3155	3/6
ZM600	6000	*850	*1050	*1400	3595	2585	2760	3060	3190	3/6

Note: (1) *stands for the rated capacity when the front tyre is double-tyre.
(2) When the front tyre of the 1-1.8t truck is double tyre, the service weight of the truck is the weight in the table plus 50kg.
(3) The free lifting height (without backrest) of the 1-1.8t truck is the height (with backrest) in the table plus 379mm.

WIDE VIEW FULL FREE 3-STAGE MAST

mast model	Max. lifting height (mm)	load capacity (load center 500mm)(kg)			(mm) mast overall height (fork to the ground)	(mm) free lifting height (with backrest)	service weight (kg)			mast tilting angle (°) α/β
		CPCD10 CP(Q)(Y)D10	CPCD15 CP(Q)(Y)D15	CPCD18 CP(Q)(Y)D18			CPCD10 CP(Q)(Y)D10	CPCD15 CP(Q)(Y)D15	CPCD18 CP(Q)(Y)D18	
ZSM360	3600	1000	1450	1750	1790	785	2545	2845	2975	6/6
ZSM400	4000	1000	1400	1600	1925	920	2565	2870	3000	6/6
ZSM435	4350	900	*1350	*1550	2040	1035	2590	2895	3025	6/6
ZSM450	4500	*950	*1400	*1600	2090	1085	2605	2905	3035	6/6
ZSM470	4700	900	*1300	*1450	2160	1155	2620	2920	3050	6/6
ZSM480	4800	*930	*1350	*1600	2190	1185	2625	2930	3060	6/6
ZSM500	5000	900	*1100	*1400	2290	1285	2645	2950	3080	6/6
ZSM540	5400	*800	*850	*850	2415	1410	2675	2975	3105	3/6
ZSM540	5400	*900	*1250	*1500	2415	1410	2675	2975	3105	3/6
ZSM600	6000	*850	*1200	*1400	2640	1635	2745	3045	3175	3/6

Note: (1) *stands for the rated capacity when the front tyre is double-tyre.
(2) When the front tyre of the 1-1.8t truck is double tyre, the service weight of the truck is the weight in the table plus 50kg.
(3) The free lifting height (without backrest) of the 1-1.8t truck is the height (with backrest) in the table plus 484mm.