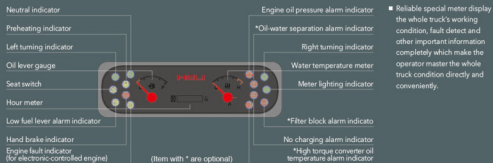


Reliable special designed instrument



Standard configuration

Boom	Standard fork
Control valve	Integrated electric box
Wholly hydraulic-powered steering	Hydraulic oil circuit filter
Half enclosed seat	Flow regulator
Backrest	Wide view mast
Back view mirror	Air intake device
Front combined lamp	Durable tread tyre
Transmission oil filter	Lifting and tilting operation lever
Engine flame out device	Traction pin
Cable type parking brake	Head shield
Driver's tool	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
Overhead guard rain cover	

Optional

Driver's cab	Torque converter oil temperature meter
Warning light	Tilting cylinder bush
High air exhausting device	Customer made color
Double air cleaner	Optional attachments
Suspension seat	Steel protection net
Lengthening fork extension	Double tyre and protection device
Durable tread tyre	Rotating seat for 1pg
Solid tyre	Single/dual fuel system
Widen fork arm carrier	Low speed alarm
Wind shield	
Cleansing muffler	
Fire extinguisher muffler	
Fire extinguisher	
Rear working light	
Air conditioner (certain type)	
Travelling control system	

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TEL: (86 551) 63639068(America); 63639258(Europe); 63639358(Asia); 63662105(Africa & Middle East); 63639530(Key Accounts Division); 63639531 (Wheel loader)
FAX: (86 551) 63639666
WEBSITE: <http://www.heliforklift.net>

AUTHORIZED DEALER

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

Catalog No.130619 Forklift Print



2-3.5t H3 series
Internal Combustion
Counterbalanced Forklift Truck

2-3.5t H3 series Internal Combustion Counterbalanced Forklift Truck

Improved performance, superior quality



Vibration 20% reduced

Noise 3dB 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 tyre 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.

Loading capacity increased over 5%

Stability 5% improved

Reliability 40% improved

- > The hot air reflow isolating device, optimal thermal disposition duct and aluminum plate-fin type radiator improves 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 retrofiting 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.

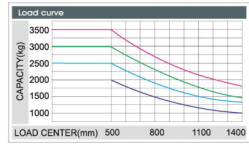
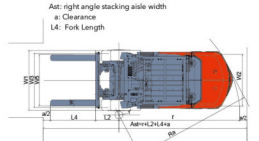
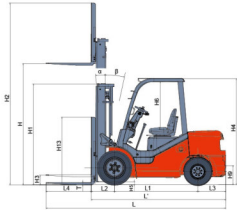


2-3.5t H3 series Internal Combustion Counterbalanced Forklift Truck



Manufacturer and technical parameters

Character	HELI				
1.01 Manufacturer	HELI				
1.02 Model	CPC20 / CPCD20 / CPCQY1920 / CPCQY2020	CPC25 / CPCD25 / CPCQY1925 / CPCQY2025	CPC30 / CPCD30 / CPCQY1930 / CPCQY2030	CPC35 / CPCD35 / CPCQY1935 / CPCQY2035	
1.03 Rated capacity	kg 2000	2500	3000	3500	
1.04 Load center	mm 500				
1.05 Operation mode	Seat-type				
Size					
2.01 Max lifting height	H mm	3000	3000	3000	3000
2.02 Mast overall height (Fork to the ground and mast be vertical)	H1 mm	2000	2000	2065	2180
2.03 Max fork lifting height (With backrest)	H2 mm	4030	4030	4245	4235
2.04 Free lift height	H3 mm	165	165	160	170
2.05 Overall height (Overhead guard)	H4 mm	2150	2150	2170	2170
2.06 Min ground clearance (At the mast)	H5 mm	115	115	135	135
2.07 Distance from the surface of the seat to the overhead guard	H6 mm	1030	1030	1030	1030
2.08 Traction pin height	HP mm	275	275	280	280
2.09 Backrest height (Calculated from the surface of the fork)	H13 mm	1000	1000	1227	1222
2.10 Overall length (With fork/Without fork)	(L/L1) mm	3500/2580	3708/2638	3818/2748	3836/2766
2.11 Wheel base	L1 mm	1650	1650	1700	1700
2.12 Front overhang	L2 mm	473	473	478	496
2.13 Rear overhang	L3 mm	457	515	570	570
2.14 Overall width	W1 mm	1150	1150	1225	1225
2.15 Tread (Front tread/Rear tread)	(W3/W2) mm	970/970	970/970	1000/970	1000/970
2.16 Fork adjust range (at the external of the fork) (Max/Min)	WS mm	1030/244	1030/244	1060/250	1060/250
2.17 Minimum turning radius (Exterior)	r mm	2170	2240	2400	2420
2.18 Minimum turning radius (Interior)	r' mm	180	180	200	200
2.19 Min right angle stacking aisle width	Ra mm	2200	2280	2380	2400
2.20 Mast tilting angle	α/β	% 6°/12°	6°/12°	6°/12°	6°/12°
2.21 Fork size	L4-W4-T	mm 920*122*40	1070*122*40	1070*125*45	1070*125*50
Weight					
3.01 Total weight	kg	3420	3800	4370	4800
3.02 Weight distribution loaded (Front/Rear)	kg	4770/650	5480/820	6460/910	7470/830
3.03 Weight distribution unloaded (Front/Rear)	kg	1600/1820	1560/2240	1710/2660	1880/2920
Wheel and tire					
4.01 Wheel number \times drive wheel (Front/Rear)	2X/2				
4.02 Tire type (Front/Rear)	Pneumatic tire				
4.03 Tire size (Front/Rear)	7.00-12-12PR/ 6.00-9-10PR 7.00-12-12PR/ 6.00-9-10PR 28*9-15-12PR/ 6.50-10-10PR 28*9-15-14PR/ 6.50-10-10PR				
4.04 Service brake	Hydraulic Foot Pedal				
4.05 Parking brake	Mechanical Hand Lever				



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)				Mast overall height (fork to the ground)				Service weight				Mast tilting angle (°) α/β		
		CPC20	CPC25	CPC30	CPC35	2-2.5t	3t	3.5t	3t	3.5t	CPC20	CPC25	CPC30		CPC35	
M200	2000	2000	2500	3000	3500	1495	1570	1680	495	340	460	3470	3850	4330	4770	6°/12°
M250	2500	2000	2500	3000	3500	1745	1820	1930	3385	3765	4335	4750	5120	5500	6°/12°	
M300	3000	2000	2500	3000	3500	1995	2080	2180	3420	3800	4370	4800	5270	5700	6°/12°	
M330	3300	2000	2500	3000	3500	2145	2220	2330	3460	3840	4395	4830	5270	5700	6°/12°	
M350	3500	2000	2500	3000	3500	2245	2320	2430	3480	3860	4420	4850	5290	5700	6°/12°	
M370	3700	2000	2500	3000	3500	2345	2420	2530	3500	3880	4430	4870	5300	5700	6°/12°	
M400	4000	2000	2500	3000	3500	2545	2620	2730	3565	3945	4490	4940	5370	5700	6°/12°	
M425	4250	1800	2200	2600	3000	2670	2745	2855	3590	3970	4510	4970	5400	5700	6°/12°	
M450	4500	1800	2200	2600	3000	2795	2870	2980	3615	3995	4535	4990	5420	5700	6°/12°	
M500	5000	1700	2100	2500	3000	3045	3120	3230	3655	4035	4575	5040	5470	5700	6°/12°	
M550	5500	1600	2000	2400	2800	3345	3420	3530	3740	4120	4745	5245	5730	6°/12°		
M600	6000	1500	1800	2200	2600	3595	3670	3780	3785	4165	4795	5285	5730	6°/12°		

Note: (1) stands for the rated capacity when the front tire is double tire. (2) When the front tire of the 2.3t truck is double tire, the service weight of the truck is the weight in the table plus 110kg.

Performance	CPC20	CPCD20	CPC25	CPCD25	CPC30	CPCD30	CPC35	CPCD35	CPCQY1920	CPCQY2020	CPCQY1925	CPCQY2025	CPCQY1930	CPCQY2030	CPCQY1935	CPCQY2035	
Model	CPC20 CPCD20 CPC25 CPCD25 CPC30 CPCD30 CPC35 CPCD35 CPCQY1920 CPCQY2020 CPCQY1925 CPCQY2025 CPCQY1930 CPCQY2030 CPCQY1935 CPCQY2035																
Max. drawbar pull (Loaded/Unloaded)	kn	14.5/12.3	16.1/2.8	18/12.4	18.7/13.8	17/14.5	19/14.5	18/14.5	21/14.5	15/12.5	16/12.8	15/12.3	16.5/12.4	17/13.5	18/13.5	20/13.5	
*Max. Gradeability (Loaded/Unloaded)†	%	30/25	39/28	27/23	35/23	21/23	29/22	15/22	30/25	39/28	27/23	35/23	21/23	29/22	15/22	20/13.5	
Max. travelling speed (Loaded/Unloaded)	km/h	17/19		17/19		19/20		19/19		17/19		19/20		19/20		19/20	
Lifting Speed (Loaded/Unloaded)	mm/s	560/600		560/600		560/550		500/550		520/570		520/570		420/480		370/410	
Lowering Speed (Loaded/Unloaded)	mm/s	450/500		450/500		450/550		350/400		450/500		450/500		450/550		350/400	
Drive and transmission control device																	
Engine mode	ISUZU C240								ISUZU 4JG2				GCT K25				
Engine rated power	kW/rpm								35.4/2500				44.9/2450				
Engine rated torque	Nm/rpm								139.9/1800				184.7/1600-1807				
Engine cylinder number-bore/stroke	4-86*102								4-94*100				4-89*83				
Engine displacement	L								2.349				3.05				
Engine type	Euro Stage IIIA								Diesel				Gasoline or LPG				
Emission	Euro Stage IIIA								12/80				12/60				
Battery (Voltage/Capacity)	V/Ah								60				12/60				
Engine fuel tank capacity	L								60				12/60				
Transmission (no. shifting gears (F/R/Rear type))	1-1 Power Shift T/M / 2-2 Manual Shift T/M																
Note: *stands for theoretical calculating value.																	

Engine Model and Main Specification for Option

Engine model	Rated power/rotating speed (kW/rpm)	Rated power/rotating speed (Nm/rpm)	Engine displacement (L)	Engine cylinder number	Cylinder number - Bore/Stroke	Engine type	Emission
ISUZU 4JG2	35/2450	170/1700	3.05	4	4-95*107	Diesel	Euro Stage IIIA
KUBOTA V2403	34.1/2400	155.9/1600	2.434	4	4-87*102.4	Diesel	Euro Tier IIIA/EPA Tier III
Cummins QSF2.8	36.2/2500	186/1100-1500	2.8	4	4-94*100	Diesel	Euro Tier IIIA
Cummins QSF2.8	43/2500	186/1100-1500	2.8	4	4-94X100	Diesel	Euro Tier IIIA
DACHAI CA498	45/2500	196/1800	3.168	4	4-98*105	Diesel	-
JMC H493	39/2500	165/1800	2.771	4	4-93*102	Diesel	-
JMC H493G43	36.5/2500	156/1800	2.771	4	4-93*102	Diesel	Euro Tier IIIA
GCT K21	31.2/2200	143.7/1600	2.065	4	4-89*83	Gasoline or LPG	-
Mitsubishi 4G64	GAS-48/2700	143.7/1600	2.351	4	4-86.5*100	Gasoline or LPG	-
Mitsubishi 4G64	LPG-46/2700	143.7/1600	2.351	4	4-86.5*100	Gasoline or LPG	-
Mitsubishi 545	35.3/2250	177/1700	3.331	4	4-94*120	Diesel	Euro Stage IIIA China Stage III

WIDE VIEW FULL FREE 2-STAGE MAST

Mast model	Max. lifting height mm	Load capacity (load center 500mm)				Mast overall height (fork to the ground)				Free lifting height (with backrest)				Service weight				Mast tilting angle (°) α/β
		CPC20	CPC25	CPC30	CPC35	2-2.5t	3t	3.5t	3t	3.5t	CPC20	CPC25	CPC30	CPC35	CPC20	CPC25	CPC30	
ZM200	2000	2000	2500	3000	3500	1495	1570	1680	495	340	460	3470	3850	4330	4770	6°/12°		
ZM250	2500	2000	2500	3000	3500	1745	1820	1930	345	390	450	3515	3895	4370	4820	6°/12°		
ZM300	3000	2000	2500	3000	3500	1995	2080	2180	3495	390	460	3550	3945	4420	4870	6°/12°		
ZM330	3300	2000	2500	3000	3500	2145	2220	2330	3445	390	460	3595	3975	4445	4895	6°/12°		
ZM350	3500	2000	2500	3000	3500	2245	2320	2430	3465	390	460	3615	3995	4465	4915	6°/12°		
ZM370	3700	2000	2500	3000	3500	2345	2420	2530	3485	390	460	3635	4015	4480	4935	6°/12°		
ZM400	4000	2000	2500	3000	3500	2545	2620	2730	3525	390	460	3705	4085	4550	5000	6°/12°		
ZM425	4250	1800	2200	2600	3000	2670	2745	2855	3560	390	460	3840	4220	4685	5130	6°/12°		
ZM450	4500	1800	2200	2600	3000	2795	2870	2980	3580	390	460	3860	4240	4700	5150	6°/12°		
ZM500	5000	1700	2100	2500	3000	3045	3120	3230	3600	390	460	3900	4280	4745	5180	6°/12°		
ZM550	5500	1600	2000	2400	2800	3345	3420	3530	3620	390	460	3920	4300	4760	5200	6°/12°		
ZM600	6000	1500	1800	2200	2600	3595	3670	3780	3785	390	460	3940	4320	4780	5220	6°/12°		

Note: (1) stands for the rated capacity when the front tire is double tire. (2) When the front tire of the 2.3t truck is double tire, the service weight of the truck is the weight in the table plus 110kg. (3) The free lifting height (without backrest) of the 2-2.5t truck is the height (with backrest) in the table plus 40mm. The free lifting height (without backrest) of the 3t truck is the height (with backrest) in the table plus 56mm. The free lifting height (without backrest) of the 3.5t truck is the height (with backrest) in the table plus 50mm.

WIDE VIEW FULL FREE 3-STAGE MAST

Mast model	Max. lifting height mm	Load capacity (load center 500mm)				Mast overall height (fork to the ground)				Free lifting height (with backrest)				Service weight				Mast tilting angle (°) α/β
		CPC20	CPC25	CPC30	CPC35	2-2.5t	3t	3.5t	3t	3.5t	CPC20	CPC25	CPC30	CPC35	CPC20	CPC25	CPC30	
ZM3M30	3600	2000	2400	2900	3200	1795	1930	1930	795	705	715	3715	4095	4610	4925	6°/12°		
ZM3M40	4000	1900	2400	2900	3200	1920	2055	2055	920	830	835	3745	4125	4640	4955	6°/12°		
ZM3M45	4350	1800	2300	2800	3100	2045	2180	2180	1045	955	960	3775	4155	4665	4980	6°/12°		
ZM3M50	4500	1700	2200	2700	3000													