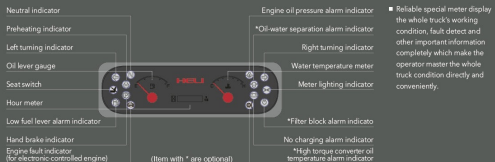


Reliable special designed instrument



Standard configuration

Hom	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 lamp
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
Warm air blower	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	

AUTHORIZED DEALER



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**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 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.

↑ Loading capacity increased over 5%

↑ Stability 5% improved

↑ 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 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.

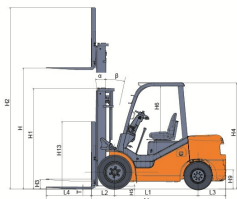


# 2-3.5t H3 series Internal Combustion Counterbalanced Forklift Truck

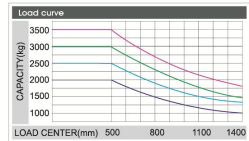
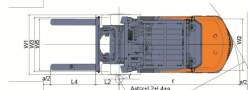


## Manufacturer and technical parameters

Character		HELI					
1.01	Manufacturer	HELI					
1.02	Model	CPC20 / CPC200 / CPC2000 / CPC2005 / CPC2010	CPC25 / CPC250 / CPC2505 / CPC2510 / CPC2515	CPC30 / CPC300 / CPC3005 / CPC3010 / CPC3015	CPC35 / CPC350 / CPC3505 / CPC3510 / CPC3515		
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	Max.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/L)	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	Track (Front tread/Rear tread)	(K3/W2)	mm	970/970	970/970	1000/970	1000/970
2.16	Fork adjustable range(the external of the fork(Max./Min.))	W5	mm	1030/244	1030/244	1060/250	1060/250
2.17	Min.turning radius(Exterior)	r	mm	2170	2240	2400	2420
2.18	Min.turning radius(Interior)	r'	mm	180	180	200	200
2.19	Min.right angle stacking side width	Ra	mm	2200	2280	2380	2400
2.20	Max.stirling angle	$\alpha/\beta$	%	67/12*	67/12*	67/12*	67/12*
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	1710/2640	1880/2920	
Wheel and tyre							
4.01	Wheel number $\times$ drive wheel (Front/Rear)	2X/2					
4.02	Type tyre(Front/Rear)	Pneumatic tyre					
4.03	Type 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					



At: right angle stacking aisle width  
a: Clearance  
L4: Fork Length



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 tilt angle (°) $\alpha/\beta$
		CPC20	CPC25	CPC30	CPC35	2-2.5t	3t	3.5t	CPC20	CPC25	CPC30	CPC35	
M200	2000	2000	2500	3000	3500	1495	1570	1680	3140	3720	4280	4700	6/12
M250	2500	2000	2500	3000	3500	1745	1820	1930	3385	3765	4335	4750	6/12
M300	3000	2000	2500	3000	3500	1995	2080	2180	3420	3800	4370	4800	6/12
M330	3300	2000	2500	3000	3500	2145	2220	2330	3460	3840	4410	4830	6/12
M350	3500	2000	2500	3000	3500	2245	2320	2430	3490	3880	4450	4880	6/12
M370	3700	2000	2500	3000	3500	2345	2420	2530	3500	3880	4450	4870	6/12
M400	4000	2000	2500	3000	3500	2545	2620	2730	3565	3945	4490	4940	6/12
M425	4250	1800	2100	2400	2700	2670	2745	2855	3590	3970	4510	4970	6/12
M450	4500	1800	2100	2400	2700	2795	2870	2980	3615	3995	4535	4990	6/12
M500	5000	1700	2000	2300	2600	3045	3120	3230	3655	4035	4575	5040	6/12
M550	5500	1600	1950	2400	2500	3345	3420	3530	3740	4120	4745	5245	*3/6
M600	6000	1500	1800	2200	2300	3595	3670	3780	3785	4165	4795	5285	*3/6

Note: (1) \*stands for the rated capacity when the front tyre is double tyre. (2) When the front tyre of the 2-3.5t truck is double tyre, the service weight of the truck is the weight in the table plus 110kg.

Performance													
Model	CPC20	CPC25	CPC30	CPC35	CPC200	CPC250	CPC300	CPC350	CPC2000	CPC2500	CPC3000	CPC3500	CPC2005
Max.drawing pull (Loaded/Unloaded)	kN												
*Max.Gravitability (Loaded/Unloaded)*	%												
Max.traveling speed (Loaded/Unloaded)	km/h												
Lifting Speed (Loaded/Unloaded)	mm/s												
Lowering Speed (Loaded/Unloaded)	mm/s												
Drive and transmission control device													
Engine mode	ISUZU C240												
Engine rated power	kW/rpm												
Engine rated torque	Nm/rpm												
Engine cylinder number-borexstroke	4-96x100												
Engine displacement	L												
Engine type	Diesel												
Emission	Euro Stage IIIA												
Battery(Voltage/Capacity)	12/80												
Engine fuel tank capacity	60												
Transmission low shifting gear (Free/5gear type)	1-1 Power Shift T.M / 2-2 Manual Shift T.M												

## 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 - BorexStroke	Engine type	Emission
ISUZU 4JG2	36/2450	170/1700	3.05	4	4-95.4x107	Diesel	Euro Stage IIIA
KUBOTA V2403	34.1/2400	155.9/1600	2.434	4	4-87-102.4	Diesel	Euro Tier IIA/EPA Tier I
Cummins ISF2.8	36/2500	180.800-1800	2.8	4	4-94x100	Diesel	Euro Tier IIA
Cummins ISF2.8	43/2500	186/1100-1500	2.8	4	4-94X100	Diesel	Euro Tier IIA
DACHAU CA498	45/2500	196/1800	3.18	4	4-98x105	Diesel	-
JMC HJ493	39/2500	165/1800	2.771	4	4-93x102	Diesel	-
JMC HJ493G43	36.8/2500	156/1800	2.771	4	4-93x102	Diesel	Euro Tier IIA
GCT K21	31.2/2200	143.7/1600	2.065	4	4-89x83	Gasoline or LPG	-
Mitsubishi 4G64	GAS-482/2000 LPG-462/2000	GAS-170/1600 LPG-168/1600	2.351	4	4-86.5*100	Gasoline or LPG	-

## 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)			Service weight				Mast tilt angle (°) $\alpha/\beta$			
		CPC20	CPC25	CPC30	CPC35	2-2.5t	3t	3.5t	CPC20	CPC25	CPC30	CPC35				
M2400	2000	2000	2500	3000	3500	1495	1570	1680	495	370	500	3470	3850	4330	4770	6/12
M2500	2500	2000	2500	3000	3500	1745	1820	1930	745	620	750	3515	3895	4370	4820	6/12
M3000	3000	2000	2500	3000	3500	1995	2080	2180	995	870	1000	3550	3945	4420	4870	6/12
M3300	3300	2000	2500	3000	3500	2145	2220	2330	1145	1000	1150	3595	3975	4445	4895	6/12
M3500	3500	2000	2500	3000	3500	2245	2320	2430	1245	1120	1250	3615	3995	4465	4915	6/12
M3700	3700	2000	2500	3000	3500	2345	2420	2530	1345	1230	1365	3635	4015	4480	4935	6/12
M4000	4000	2000	2500	3000	3500	2545	2620	2730	1540	1450	1570	3705	4085	4550	5000	6/12
M4250	4250	1800	2100	2400	2700	2670	2745	2855	1670	1545	1675	3740	4110	4575	5025	6/12
M4500	4500	1800	2100	2400	2700	2795	2870	2980	1795	1670	1800	3755	4135	4595	5050	6/12
M5000	5000	1700	2000	2300	2600	3045	3120	3230	2045	1920	2050	3805	4185	4640	5100	6/12
M5500	5500	1600	1950	2400	2500	3345	3420	3530	2345	2220	2350	3840	4270	4830	5295	*3/6
M6000	6000	1500	1800	2200	2300	3595	3670	3780	2595	2470	2600	3935	4315	4875	5350	*3/6

Note: (1) \*stands for the rated capacity when the front tyre is double tyre. (2) When the front tyre of the 2-3.5t truck is double tyre, the service weight of the truck is the weight in the table plus 110kg. (3) The free lifting height (without backrest) of the 2-3.5t truck is the height (with backrest) in the table plus 430mm. The free lifting height (without backrest) of the 3t truck is the height (with backrest) in the table plus 505mm. The free lifting height (without backrest) of the 3.5t truck is the height (with backrest) in the table plus 505mm.

## 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)			Service weight				Mast tilt angle (°) $\alpha/\beta$			
		CPC20	CPC25	CPC30	CPC35	2-2.5t	3t	3.5t	CPC20	CPC25	CPC30	CPC35				
M2400	3600	2000	2400	2900	3200	1795	1930	1930	795	705	710	3715	4095	4610	4925	6/12
M2500	4000	1900	2400	2900	3200	1920	2055	2055	920	830	835	3745	4125	4640	4955	6/12
M3000	4350	1850	2300	2800	3100	2045	2180	2180	1045	955	960	3775	4155	4665	4980	6/12
M3300	4700	1800	2200	2700	3000	2160	2295	2295	1160	1065	1070	3785	4165	4680	4995	6/12
M3500	4700	1800	2200	2700	3000	2160	2295	2295	1160	1065	1070	3800	4180	4700	5015	6/12
M3700	4700	1800	2200	2700	3000	2160	2295	2295	1160	1065	1070	3810	4190	4710	5025	6/12
M4000	4800	1700	2100	2600	2900	2195	2330	2330	1195	1105	1110	3805	4185	4720</		