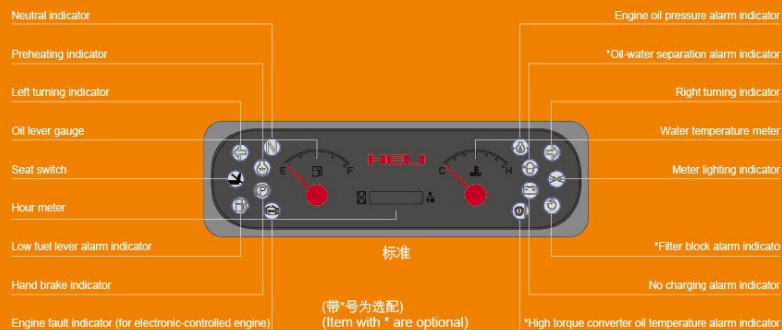


## Reliable special designed instrument



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	Standard fork
Control valve	Integrated electric box
Wholly hydraulic-powered steering	Hydraulic oil circuit filter
Semi-suspension seat	Flow regulator
Backrest	Wide view mast
Back view mirror	Air intaking 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 lpg
Solid tyre	Single/dual fuel system
Widen fork arm carrier	Power braking
Wind shield	
Cleansing muffler	
Fire extinguisher muffler	
Fire extinguisher	
Rear working light	
Air conditioner (certain type)	
Travelling control system	

**HELI** 安徽合力股份有限公司  
ANHUI HELI CO., LTD.

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# 2-3.5ton

## H SERIES INTERNAL COMBUSTION COUNTERBALANCED FORKLIFT TRUCK



**H series** / HIGH EFFICIENT  
ENERGY EFFICIENT **New**

**HELI**  
LIFTING THE FUTURE

**23 YEARS** TOP1 FORKLIFT MANUFACTURER AND SALES  
IN CHINA FOR CONSECUTIVE 23 YEARS





H SERIES INTERNAL COMBUSTION  
COUNTERBALANCED FORKLIFT TRUCK

2-3.5ton

**New** H series

*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 retroposition of whole truck's gravity center improve loading capacity, stability and safety.

↑ **Engine hood open angle increased to 80°**

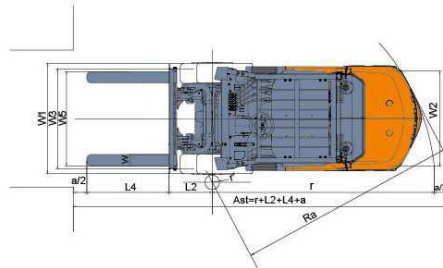
- Enlarged internal space is convenient for engine and transmission box maintenance.
- Increased hood open angle contributes to quick and convenient maintenance.



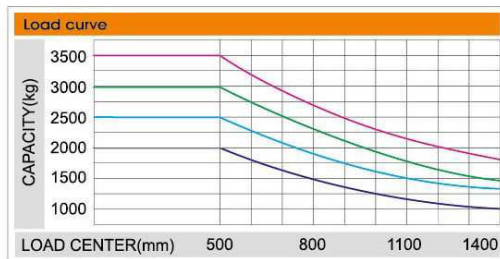


Character		HELI																	
1.1	Manufacturer																		
1.2	Model		CPC20	CPCD20	CPC25	CPCD25	CPC30	CPCD30	CPC35	CPCD35	CP(Q)(Y)20	CP(Q)(Y)D20	CP(Q)(Y)25	CP(Q)(Y)D25	CP(Q)(Y)30	CP(Q)(Y)D30	CP(Q)(Y)35	CP(Q)(Y)D35	
1.3	Engine type		Diesel								Gasoline or LPG								
1.4	Rated capacity	kg	2000		2500		3000		3500		2000		2500		3000		3500		
1.5	Load center	mm	500																
1.6	Operation mode		Seat-type																
Size																			
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		160		170		165		165		160		170	
2.5	Overall height (overhead guard)	H4	mm	2150				2170				2150				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	1030								1030							
2.8	Traction pin height	H9	mm	275		275		280		280		275		275		280		280	
2.9	Backrest height (calculated from the surface of the fork)	H13	mm	1000		1000		1227		1222		1000		1000		1227		1222	
2.10	Overall length (with fork/without fork)	(L/L')	mm	3500/2580		3708/2638		3818/2748		3836/2766		3500/2580		3708/2638		3818/2748		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		496		473		473		478		496	
2.13	Rear overhang	L3	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 tread/rear tread)	(W3/W2)	mm	970/970		970/970		1000/970		1000/970		970/970		970/970		1000/970		1000/970	
2.16	Fork adjustable range (the extemal of the fork)(max./min.)	W5	mm	1030/244		1030/244		1060/250		1060/250		1030/244		1030/244		1060/250		1060/250	
2.17	Min. Turning radius (exterior)	r	mm	2255		2310		2400		2440		2255		2310		2400		2440	
2.18	Min. Turning radius(interior)	r'	mm	180		180		200		200		180		180		200		200	
2.19	Min.Right angle stacking aisle width	Ra	mm	2274		2330		2380		2415		2274		2330		2380		2415	
2.20	Mast tilting angle	α/β	%	6° /12°															
2.21	Fork size	L4xWxT	mm	920×122×40		1070 × 122 × 40		1070 × 125 × 45		1070 × 125 × 50		920 × 122 × 40		1070 × 122 × 40		1070 × 125 × 45		1070 × 125 × 50	
Performance																			
3.1	Max. Travelling speed (loaded/unloaded)	km/h	17/19		17/19		19/20		19/19		17/19		17/19		19/20		19/20		
3.2	Lifting speed (loaded/unloaded)	mm/s	560/600		560/600		500/550		400/420		520/570		520/570		420/480		370/410		
3.3	Lowering speed (loaded/unloaded)	mm/s	450/500		450/500		450/550		350/400		450/500		450/500		450/550		350/400		
3.4	Max. Drawbar pull (loaded/unloaded)	kN	12.5/8.5	16/11.5	15/8.5	16.5/11.5	17/14.5	19/14.5	18/14.5	21/14.5	15/10.5	16/10.5	15/10.5	16.5/10.5	17/13.5	18/13.5	18/13.5	20/13.5	
3.5	Max. Gradability (loaded/unloaded)	%	15/20	20/20	15/20	20/20	17/20	23/20	15/20	21/20	15/20	20/20	15/20	20/20	17/20	23/20	15/20	21/20	
weight																			
4.1	Total weight	kg	3448		3840		4370		4800		3448		3840		437				





L4: Fork Length



CP(Q)(Y)20	CP(Q)(Y)25	CP(Q)(Y)30	CP(Q)(Y)35
CP(Q)(Y)D20	CP(Q)(Y)D25	CP(Q)(Y)D30	CP(Q)(Y)D35
CPC20	CPC25	CPC30	CPC35
CPCD20	CPCD25	CPCD30	CPCD35

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 lifting capacity (t) at 500mm
		CP/QY120Z/CP/QY120Z/CP/QY120Z	CP/QY125Z/CP/QY125Z/CP/QY125Z	CP/QY130Z/CP/QY130Z/CP/QY130Z	CP/QY135Z/CP/QY135Z/CP/QY135Z	2-2.5t	3t	3.5t	CP/QY120Z/CP/QY120Z/CP/QY120Z	CP/QY125Z/CP/QY125Z/CP/QY125Z	CP/QY130Z/CP/QY130Z/CP/QY130Z	CP/QY135Z/CP/QY135Z/CP/QY135Z	
M200	2000	2000	2500	3000	3500	1500	1570	1680	3265	3640	4280	4700	6-12
M250	2500	2000	2500	3000	3500	1750	1820	1930	3310	3685	4335	4750	6-12
M300	3000	2000	2500	3000	3500	2000	2070	2180	3345	3750	4370	4800	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	3385	3760	4420	4850	6-12
M370	3700	2000	2500	3000	3500	2350	2420	2530	3400	3775	4430	4870	6-6 *6-12
M400	4000	2000	2500	3000	3200 *3500	2550	2620	2730	3465	3840	4490	4940	6-6 *6-12
M425	4250	1900 *2000	2250 *2500	2850 *3000	3100 *3200	2675	2745	2855	3485	3860	4510	4970	6-6 *6-12
M450	4500	1800 *1900	2100 *2400	2600 *3000	3000 *3050	2800	2870	2980	3500	3875	4535	4990	6-6 *6-12
M500	5000	1600 *1700	1650 *2200	2100 *2850	2100 *2850	3050	3120	3230	3545	3920	4575	5040	6-6 *6-12
M550	5500	*1600	*1950	*2400	*2400	3350	3420	3530	3590	3965	4745	5245	*3-6
M600	6000	*1500	*1800	*2000	*2000	3600	3670	3780	3630	4005	4795	5285	*3-6

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 tilt angle (°) /ft
		CPQ(Y125)/CPQ(Y125)/CPQ(Y125) CPQ25 CPQ20	CPQ(Y125)/CPQ(Y125)/CPQ(Y125) CPQ25 CPQ25	CPQ(Y130)/CPQ(Y130)/CPQ(Y130) CPQ30 CPQ30	CPQ(Y135)/CPQ(Y135)/CPQ(Y135) CPQ35 CPQ35	2-2.5t	3t	3.5t	2-2.5t	3t	3.5t	CPQ(Y120)/CPQ(Y120)/CPQ(Y120) CPQ20 CPQ20	CPQ(Y125)/CPQ(Y125)/CPQ(Y125) CPQ25 CPQ25	CPQ(Y130)/CPQ(Y130)/CPQ(Y130) CPQ30 CPQ30	CPQ(Y135)/CPQ(Y135)/CPQ(Y135) CPQ35 CPQ35		
ZM200	2000	2000	2500	3000	3500	1495	1570	1680	495	370	500	3640	3645	4330	4770	6-12	
ZM250	2500	2000	2500	3000	3500	1745	1820	1930	745	620	750	3685	3690	4370	4820	6-12	
ZM300	3000	2000	2500	3000	3500	1995	2070	2180	995	870	1000	3750	3730	4420	4870	6-12	
ZM330	3300	2000	2500	3000	3500	2145	2220	2330	1145	1020	1150	3745	3760	4445	4895	6-12	
ZM350	3500	2000	2500	3000	3500	2245	2320	2430	1245	1120	1250	3760	3775	4465	4915	6-6 +6-12	
ZM370	3700	2000	2500	3000	3500	2345	2420	2530	1370	1230	1350	3775	3790	4480	4935	6-6 +6-12	
ZM400	4000	2000	2500	3000	3200 +3500	2545	2620	2730	1545	1420	1550	3840	3855	4550	5000	6-6 +6-12	
ZM425	4250	1900 +2000	2250 +2500	2850 +3000	3100 +3200	2670	2745	2855	1670	1545	1675	3860	3875	4575	5025	6-6 +6-12	
ZM450	4500	1800 +1900	2100 +2400	2750 +3000	3000 +3050	2795	2870	2980	1795	1670	1800	3875	3900	4595	5050	6-6 +6-6	
ZM500	5000	1600 +1700	1650 +2200	2400 +2850	2500 +2850	3045	3120	3230	2045	1920	2050	3920	3940	4640	5100	*3-6	
ZM550	5500	*1600	*1950	*2450	*2500	3345	3420	3530	2345	2220	2350	3965	4130	4830	5295	*3-6	
ZM600	6000	*1500	*1800	*2200	*2300	3595	3670	3780	2595	2470	2600	4005	4175	4875	5350	*3-6	

(3) The free lifting height (without backrest) of the 1.4 t truck is the height (with backrest) in the table plus 431 mm. The free lifting height (without backrest) of the 2.2-5 t truck is the height (with backrest) in the table plus 459 mm. The free lifting height (without backrest) of the 3 t truck is the height (with backrest) in the table plus 588 mm. The free lifting height (without backrest) of the 3.5 t truck is the height (with backrest) in the table plus 523 mm.

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 tilt angle (°) α/β
		CPQ(Y120) CPQ(Y120Z) CPQ20	CPQ(Y125) CPQ(Y125Z) CPQ25	CPQ(Y130) CPQ(Y130Z) CPQ30	CPQ(Y135) CPQ(Y135Z) CPQ35	2-2.5t	3t	3.5t	2-2.5t	3t	3.5t	CPQ(Y120) CPQ(Y120Z) CPQ20	CPQ(Y125) CPQ(Y125Z) CPQ25	CPQ(Y130) CPQ(Y130Z) CPQ30	CPQ(Y135) CPQ(Y135Z) CPQ35	
ZSM360	3600	1900	2400	2900	3300	1795	1946	1946	755	740	740	3540	3900	4610	4925	6-6 °6-6
ZSM400	4000	1900	2400	2900	3300	1920	2065	2065	880	865	865	3570	3930	4640	4955	6-6 °6-6
ZSM435	4350	1850 *1900	2200 *2400	2800 *2900	2900 *3000	2045	2190	2190	1005	990	990	3600	3960	4665	4980	6-6 °6-6
ZSM450	4500	1750 *1800	2150 *2300	2700 *2800	2800 *2900	2095	2240	2240	1055	1040	1040	3610	3970	4680	4995	6-6 °6-6
ZSM470	4700	1700 *1800	2000 *2300	2600 *2800	2600 *2900	2160	2240	2240	1120	1040	1040	3625	3985	4700	5015	6-6 °6-6
ZSM480	4800	1700 *1800	2000 *2300	2600 *2800	2600 *2900	2195	2340	2340	1155	1140	1140	3630	3990	4720	5025	6-6 °6-6
ZSM500	5000	1600 *1750	1650 *2250	2400 *2750	2450 *2850	2295	2440	2440	1255	1240	1240	3655	4015	4745	5060	6-6 °6-6
ZSM540	5400	1700 *1750	2150 *2250	2250 *2750	2300 *2850	2240	2565	2565	1380	1365	1365	3685	4045	4775	5090	3-6 °3-6
ZSM600	6000	950 *1600	1000 *1800	1500 *2100	1550 *2200	2645	2790	2790	1605	1590	1590	3765	4125	4865	5180	3-6 °3-6

(3) The free lifting height (without backrest) of the 1-1.8 truck is the height (with backrest) in the table plus 496mm. The free lifting height (without backrest) of the 2-2.5 truck is the height (with backrest) in the table plus 453mm. The free lifting height (without backrest) of the 3 truck is the height (with backrest) in the table plus 582mm. The free lifting height (without backrest) of the 3.5 truck is the height (with backrest) in the table plus 497mm.

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
ISUZU 4JG2	44.9/2450	184.7/1600-1800	3.05	4
HJ493	39/2500	165/1800	2.771	4
Dachai CA498	45/2500	170~180/1600~1800	3.168	4
GCT K21	31.5/2200	140/1600	2.065	4