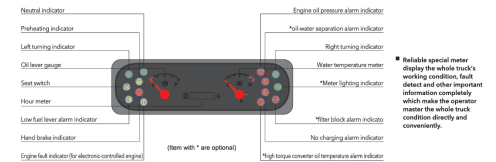


**HELI**

**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      Optional**

<ul style="list-style-type: none"> <li>Horn</li> <li>Control valve</li> <li>Backrest</li> <li>Back view mirror</li> <li>Front combined lamp</li> <li>Transmission oil filter</li> <li>Engine flame out device</li> <li>Cable type parking brake</li> <li>Driver's tool</li> <li>Rear combined lamp</li> <li>Backward buzzer</li> <li>Til oil circuit self lock valve</li> <li>Til adjustable steering column</li> <li>Overhead guard rain cover</li> </ul>	<ul style="list-style-type: none"> <li>Standard fork</li> <li>Integrated electric box</li> <li>Flow regulator</li> <li>Wide view mast</li> <li>Durable seat tyre</li> <li>Lifting and tilting operation lever</li> <li>Traction pin</li> <li>Head lamp</li> <li>Hydraulic oil dipstick</li> <li>Overhead guard</li> <li>Torque converter oil dipstick</li> <li>Combined instrument</li> <li>Electro-hydraulic direction changing</li> </ul>	<ul style="list-style-type: none"> <li>Driver's cab</li> <li>Warning light</li> <li>High air exhausting device</li> <li>Double air cleaner</li> <li>Suspension seat</li> <li>Lengthening fork extension</li> <li>Warm air blower</li> <li>Solid tyre</li> <li>Widen carriage</li> <li>Wind shield</li> <li>Cleaning muffler</li> <li>Fire arrested muffler</li> <li>Fire extinguisher</li> <li>Rear working light</li> </ul>	<ul style="list-style-type: none"> <li>Travelling control system</li> <li>Torque converter oil temperature meter</li> <li>Tilting cylinder sleeve</li> <li>Customer made color</li> <li>Optional attachments</li> <li>Steel protection net</li> <li>Double tyre and protection device</li> <li>Rotating bracket for LPG</li> <li>Single/dual fuel system</li> <li>Low speed alarm</li> <li>Attachments</li> </ul>
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**HELI**

**1-1.8 t**

**H3 series Internal Combustion Counterbalanced Forklift Truck**



[www.heliforklift.net](http://www.heliforklift.net)

**H3 SERIES 1-1.8 t**

**Improved performance superior quality**



**Vibration 20% reduced**

**Noise 1.9dB reduced**

- Cushion connection and wholly suspension driver's cab absorbs 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 cabs.
- 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 mast, 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 flow 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 of 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.



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63639358(Asia); 63662105(Africa & Middle East);  
63639530(Key Accounts Division); 63662105(Wheel loader)

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

# H3 SERIES 1-1.8t

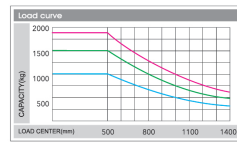
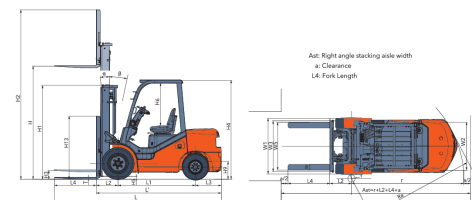


## Manufacturer and technical parameters

Character	HEU			
	CPCD10/CR/Q/Y/D10	CPCD15/CR/Q/Y/D15	CPCD18/CR/Q/Y/D18	
1.01 Manufacturer				
1.02 Model				
1.03 Rated capacity	kg 1000	1500	1750	
1.04 Load center	mm	500		
1.05 Operation mode	Seat-type			
<b>Size</b>				
2.01 Max lifting height	H mm	3000		
2.02 Max 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	4014		
2.04 Free lift height	H3 mm	152	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 axle to the overhead guard	H6 mm	1018		
2.08 Traction pin height	H9 mm	255		
2.09 Backrest height (Calculated from the surface of the fork)	H3 mm	1014		
2.10 Overall length (With fork/Without fork)	(L/L1) 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 (to 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 side width	Ra mm	2011	2016	2035
2.20 Min. right angle stacking side width	As mm	3576	3584	3603
2.21 Mast tilting angle	α / β deg	6°/10°		
2.22 Fork size	L4xWxT mm	770×100×32	920×100×35	920×100×35
<b>Weight</b>				
3.01 Total weight	kg	2540	2720	2850
3.02 Weight distribution loaded (Front/Rear)	kg	2940/600	3610/610	4000/600
3.03 Weight distribution unloaded (Front/Rear)	kg	1230/1310	1190/1530	1170/1680
<b>Wheel and tyre</b>				
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		
4.04 Service brake		Hydraulic-Foot Pedal		
4.05 Parking brake		Mechanical-Hand Lever		

Performance											
Model	CPCD10-W51H	CPCD15-W51H	CPCD18-W51H	CPD2018-K2H	CPD2018-K2H	CPD2018-K2H	CPD2018-K11H	CPD15-K11H	CPD11-K11H	CPD18-K11H	
Max. drawbar pull (Loaded/Unloaded)	kN 19/12	19/12	19/12	18/7	18/7	18/7	19/11	19/11	19/11	19/11	
Max. Cradability (Loaded/Unloaded)	% 40/24	40/20	39/18	39/23	39/19	35/17	36/18	40/19	42/45		
Max. traveling speed (Loaded/Unloaded)	km/h 17/18	17/18	17/18	16/17	16/17	16/17	17/18	17/18	17/18		
Lifting Speed (Loaded/Unloaded)	mm/s	410/650									
Lowering Speed (Loaded/Unloaded)	mm/s	450/600									
<b>Drive and transmission control device</b>											
Engine model	ISUZU C240			GCT K21			KUBOTA V2403				
Engine rated power	kW/tpm 35.4/2500			31.2/2200			34.1/2400				
Engine rated torque	Nm/tpm 139.9/1800			143.7/1600			155.9/1600				
Engine cylinder number-borexstroke	4-86×102			4-89×83			4-87×102.4				
Engine displacement	L 2.369			2.365			2.434				
Engine type	Diesel			GAS/LPG			Diesel				
Emission	Euro Stage3A			-			Euro B / EPA T4				
Battery (Voltage/Capacity)	V/Ah 12/80			12/80			12/80				
Engine fuel tank capacity	L 40			40			40				
Transmission box shifting gear (Front/Rear type)	1-Power 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)	Cylinder number - BorexStroke	Engine type	Emission
GCT K15	23.6/2400	103/1600	1.486	4- 75.5×83	GAS/LPG	
QUANCHAI 4B4-45V32	32/2600	132/1800	2.27	4- 85×100	Diesel	CHINA Stage II
XINCHANG 4N23G31	30/2600	131/1800	2.27	4- 85×100	Diesel	CHINA Stage II
KUBOTA WG2503	GAS:42.8/2600 LPG:43.5/2600	GAS:163.3/1800 LPG:173.7/1400	2.491	4- 88×102.4	GAS/LPG	EPACARB / EU StageIV



**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		
		CPD10 CP/Q/Y/D10	CPD15 CP/Q/Y/D15	CPD18 CP/Q/Y/D18		CPD10 CP/Q/Y/D10	CPD15 CP/Q/Y/D15	CPD18 CP/Q/Y/D18			
M200	2000	1000	1500	1750	1495	1495	2470	2650	2780	6/10	
M250	2500	1000	1500	1750	1745	1745	2510	2680	2810	6/10	
M300	3000	1000	1500	1750	1995	1995	2540	2720	2850	6/10	
M330	3300	1000	1500	1750	2145	2145	2560	2740	2870	6/10	
M350	3500	1000	1500	1750	2245	2245	2580	2760	2880	6/10	
M370	3700	1000	1500	1750	2345	2345	2590	2770	2900	6/10	
M400	4000	1000	1500	1750	2545	2545	2650	2830	2940	6/10	
M425	4250	950	1400	1600	2670	2670	2660	2840	2970	6/10	
M450	4500	950	1400	1600	2795	2795	2680	2860	2990	6/10	
M500	5000	900	1350	1550	3045	3045	2720	2900	3030	6/10	
M550	5500	900	1350	1550	3345	3345	2790	2970	3100	6/10	
M600	6000	850	1300	1500	3595	3595	2820	3000	3130	3/6	

Note: (1) stands for the rated capacity when the front tyre is double tyre. (2) When the front tyre of the 1.1t 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 1.1t truck is the height (with backrest) in the table plus 370mm.

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	
		CPD10 CP/Q/Y/D10	CPD15 CP/Q/Y/D15	CPD18 CP/Q/Y/D18			CPD10 CP/Q/Y/D10	CPD15 CP/Q/Y/D15	CPD18 CP/Q/Y/D18		
ZM200	2000	1000	1500	1750	1495	1495	2500	2680	2810	6/10	
ZM250	2500	1000	1500	1750	1745	1745	2530	2710	2840	6/10	
ZM300	3000	1000	1500	1750	1995	1995	2570	2750	2880	6/10	
ZM330	3300	1000	1500	1750	2145	2145	2590	2770	2900	6/10	
ZM350	3500	1000	1500	1750	2245	2245	2620	2800	2930	6/10	
ZM370	3700	1000	1500	1750	2345	2345	2620	2800	2930	6/10	
ZM400	4000	1000	1500	1750	2545	2545	2670	2850	2980	6/10	
ZM425	4250	1000	1400	1600	2670	2670	2670	2850	3000	6/10	
ZM450	4500	950	1400	1600	2795	2795	2690	2870	3030	6/10	
ZM500	5000	900	1350	1550	3045	3045	2740	2920	3050	6/10	
ZM550	5500	900	1350	1550	3345	3345	2820	2990	3120	3/6	
ZM600	6000	850	1300	1500	3595	3595	2850	3030	3160	3/6	

Note: (1) stands for the rated capacity when the front tyre is double tyre. (2) When the front tyre of the 1.1t 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 1.1t truck is the height (with backrest) in the table plus 370mm.

WIDE VIEW FULL FREE 3-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	
		CPD10 CP/Q/Y/D10	CPD15 CP/Q/Y/D15	CPD18 CP/Q/Y/D18			CPD10 CP/Q/Y/D10	CPD15 CP/Q/Y/D15	CPD18 CP/Q/Y/D18		
ZSM360	3600	1000	1450	1750	1790	1775	2680	2680	2990	6/6	
ZSM400	4000	1000	1400	1600	1925	1910	2710	2710	3020	6/6	
ZSM435	4350	900	1350	1500	2040	2025	2730	2730	3040	6/6	
ZSM450	4500	850	1300	1450	2090	2075	2740	2740	3050	6/6	
ZSM470	4700	800	1250	1400	2140	2145	2750	2750	3060	6/6	
ZSM480	4800	800	1250	1400	2190	2175	2760	2760	3070	6/6	
ZSM500	5000	750	1200	1350	2290	2275	2780	2780	3090	6/6	
ZSM540	5400	700	1150	1300	2415	2415	2810	2810	3120	3/6	
ZSM600	6000	650	1100	1250	2540	2540	2880	2880	3190	3/6	

Note: (1) stands for the rated capacity when the front tyre is double tyre. (2) When the front tyre of the 1.1t 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 1.1t truck is the height (with backrest) in the table plus 370mm.