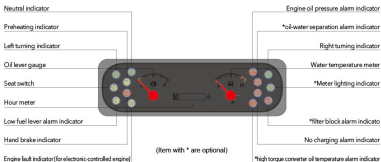


### Reliable special designed instrument



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  
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

### Optional

Standard fork  
Integrated electric box  
Flow regulator  
Wide view mast  
Durable tread tire  
Lifting and tilting operation lever  
Traction pin  
Head lamp  
Hydraulic oil dipstick  
Overhead guard  
Torque converter oil dipstick  
Combined instrument  
Electro-hydraulic direction changing

Driver's cab  
Warning light  
High air exhausting device  
Double air cleaner  
Suspension seat  
Lengthening fork extension  
Warm air blower  
Solid tyre  
Welded carriage  
Wind shield  
Cleansing muffler  
Fire arrested muffler  
Fire extinguisher  
Rear working light

Travelling control system  
Torque converter oil temperature meter  
Tilting cylinder sleeve  
Customer made color  
Optional attachments  
Steel protection net  
Double-tyre and protection device  
Rotating bracket for 1pg  
Single/dual fuel system  
Low speed alarm  
Attachments

## 1-1.8 t

### H3 series Internal Combustion Counterbalanced Forklift Truck



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 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 tilting 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 inclining.
- 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.



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63639530(Key Accounts Division); 63662105(Wheel loader)

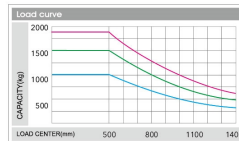
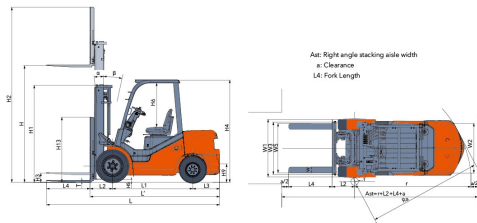
## Manufacturer and technical parameters

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
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 seat 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)	H13 mm	1014	
2.10 Overall length(With fork/Without fork)	(L/L')	3197/2277	3201/2281 3219/2299
2.11 Wheel base	L1 mm	1450	
2.12 Front overhang	L2 mm	406	409
2.13 Rear overhang	L3 mm	406	412
2.14 Overall width	W1 mm	1070	
2.15 Tread (Front tread/Rear tread)	(W2/W3) 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	1930
2.18 Min.turning radius(Interior)	r' mm	49	49
2.19 Min.right angle side width	Ra mm	2011	2016
2.20 Min.right angle stacking aisle width	Ast mm	3576	3584
2.21 Mast tilting angle	α/β deg	6°/10°	
2.22 Fork size	L4*W*H	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	CPCD10-WS1H	CPCD15-WS1H	CPCD18-WS1H	CP(Q)(Y)D10RCH	CP(Q)(Y)D15RCH	CP(Q)(Y)D18RCH	CPCD10KU1H	CPCD15KU1H	CPCD18KU1H	
Model	19/12	19/12	19/12	18/7	18/7	18/7	19/11	19/11	19/11	
Max. drawbar pull (Loaded/Unloaded)	kN	40/24	40/20	39/18	39/23	39/19	36/18	40/19	42/45	
Max. Gradeability (Loaded/Unloaded)	%	40/24	40/20	39/18	39/23	39/19	36/18	40/19	42/45	
Max. traveling speed (Loaded/Unloaded)	km/h	17/18	17/18	17/18	16/17	16/17	17/18	17/18	17/18	
Lifting Speed (Loaded/Unloaded)	mm/s				610/650					
Lifting Speed (Loaded/Unloaded)	mm/s				450/600					
Drive and transmission control device										
Engine mode	ISUZU C240			GCT K21			KUBOTA V2403			
Engine rated power	kW/rpm	35.4/2500			34.1/2400					
Engine rated torque	Nm/rpm	139.9/1800			143.7/1600			155.9/1600		
Engine cylinder number-bore/stroke		4-86×102			4-89×83			4-86×102		
Engine displacement	L	2.369			2.065			2.434		
Engine type		Diesel			GAS/LPG			Diesel		
Emission		Euro Stage3A			-			Euro B / EPA T4i		
Battery(Voltage/Capacity)	V/Ah	12/80			12/60			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 - Bore×Stroke	Engine type
GCT K15	23.4/2400	103/1600	1.486	4-75.5×83	GAS/LPG
QUANZHAI 4B4-45V32	32/2400	132/1800	2.27	4-85×100	Diesel
XINCHANG 4N23G31 (VE)	30/2400	131/1800	2.27	4-85×100	Diesel
XINCHANG 4N23G31-200 (VF)	30/2400	131/1800	2.27	4-85×100	Diesel



CPD10  
CP(Q)(Y)D10

CPD15  
CP(Q)(Y)D15

CPD18  
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 side 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	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	6/10
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	1400	1600	2795	2585	2885	3015	6/10
M500	5000	*900	*1100	*1300	3045	2615	2920	3050	6/10
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 1.1t 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 lift 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	480	2430	2730	2860	6/10
ZM250	2500	1000	1500	1750	1745	730	2460	2745	2895	6/10
ZM300	3000	1000	1500	1750	1995	980	2495	2795	2930	6/10
ZM330	3300	1000	1500	1750	2145	1130	2520	2820	2950	6/10
ZM350	3500	1000	1500	1750	2245	1230	2535	2835	2965	6/10
ZM370	3700	1000	1500	1750	2345	1330	2545	2845	2975	6/10
ZM400	4000	1000	1500	1750	2545	1530	2590	2895	3025	6/10
ZM425	4250	1000	1400	1600	2670	1655	2610	2915	3045	6/10
ZM450	4500	950	1400	1600	2795	1780	2630	2930	3060	6/10
ZM500	5000	*900	*1100	*1300	3045	2030	2665	2965	3095	6/10
ZM550	5500	*900	*1150	*1500	3345	2330	2725	3030	3155	3/6
ZM600	6000	*850	*1050	*1400	3595	2580	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 1.1t truck is double tyre, the service weight of the truck is the weight in the table plus 50kg. (3) The free lift height (without backrest) of the 1.1t truck is the height (with backrest) in the table plus 37mm.

## 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 lift 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	775	2545	2845	2975	6/6
ZSM400	4000	1000	1400	1600	1925	910	2565	2870	3000	6/6
ZSM435	4350	*900	*1100	*1300	2040	1025	2590	2895	3025	6/6
ZSM450	4500	*900	*1100	*1300	2090	1075	2605	2905	3035	6/6
ZSM470	4700	*900	*1100	*1300	2160	1145	2620	2920	3050	6/6
ZSM480	4800	*900	*1100	*1300	2190	1175	2625	2930	3060	6/6
ZSM500	5000	*900	*1100	*1300	2290	1275	2645	2950	3080	6/6
ZSM540	5400	*900	*1100	*1300	2415	1400	2675	2975	3105	3/6
ZSM600	6000	*850	*1050	*1300	2640	1625	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 1.1t truck is double tyre, the service weight of the truck is the weight in the table plus 50kg. (3) The free lift height (without backrest) of the 1.1t truck is the height (with backrest) in the table plus 48mm.