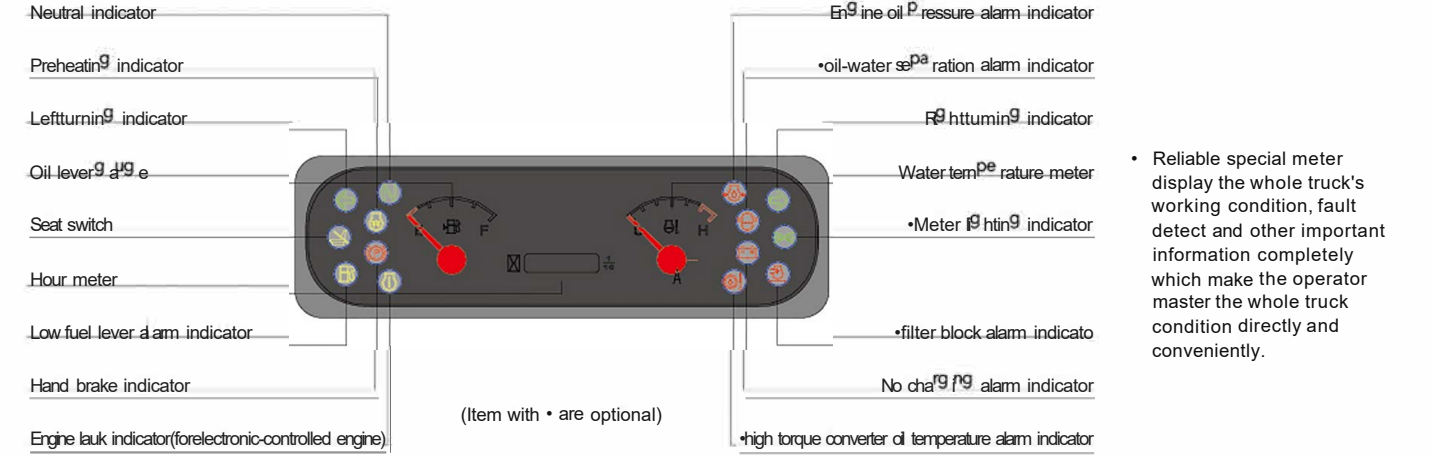


Reliable special designed instrument



Standard configuration Optional

Horn	Standard fork	Driver's cab	Travelling control system
Control valve	Integrated electric box	Warning light	Torque converter oil temperature meter
Backrest	Flow regulator	High air exhausting device	Tilting cylinder sleeve
Back view mirror	Wide view mast	Double air cleaner	Customer made color
Front combined lamp	Durable tread tyre	Suspension seat	Optional attachments
Transmission oil filter	Lifting and tilting operation lever	Lengthening fork extension	Steel protection net
Engine flame out device	Traction pin	Warm air blower	Double-tyre and protection device
Cable type parking brake	Head lamp	Solid tyre	Rotating bracket for LPG
Driver's tool	Hydraulic oil dipstick	Widen carriage	Single/dual fuel system
Rear combined lamp	Overhead guard	Wind shield	Low speed alarm
Backward buzzer	Torque converter oil dipstick	Cleansing muffler	Attachments
Tilt oil circuit self lock valve	Combined instrument	Fire arrested muffler	
Tilt adjustable steering column	Electro-hydraulic direction changing	Fire extinguisher	
Overhead guard rain cover		Rear working light	

1-1.8 t

H3 series Internal Combustion Counterbalanced Forklift Truck



H3 SERIES 1-1.8 t

Improved performance superior quality



- Vibration 20% reduced
  - Noise 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 dosed 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 legs.
- 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 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.





### H3 SERIES 1-1.8t

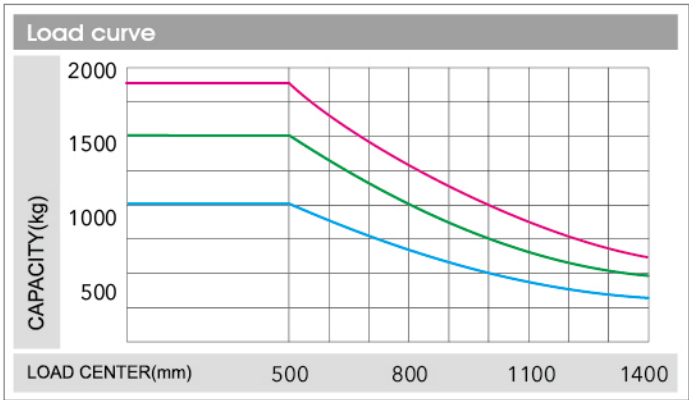
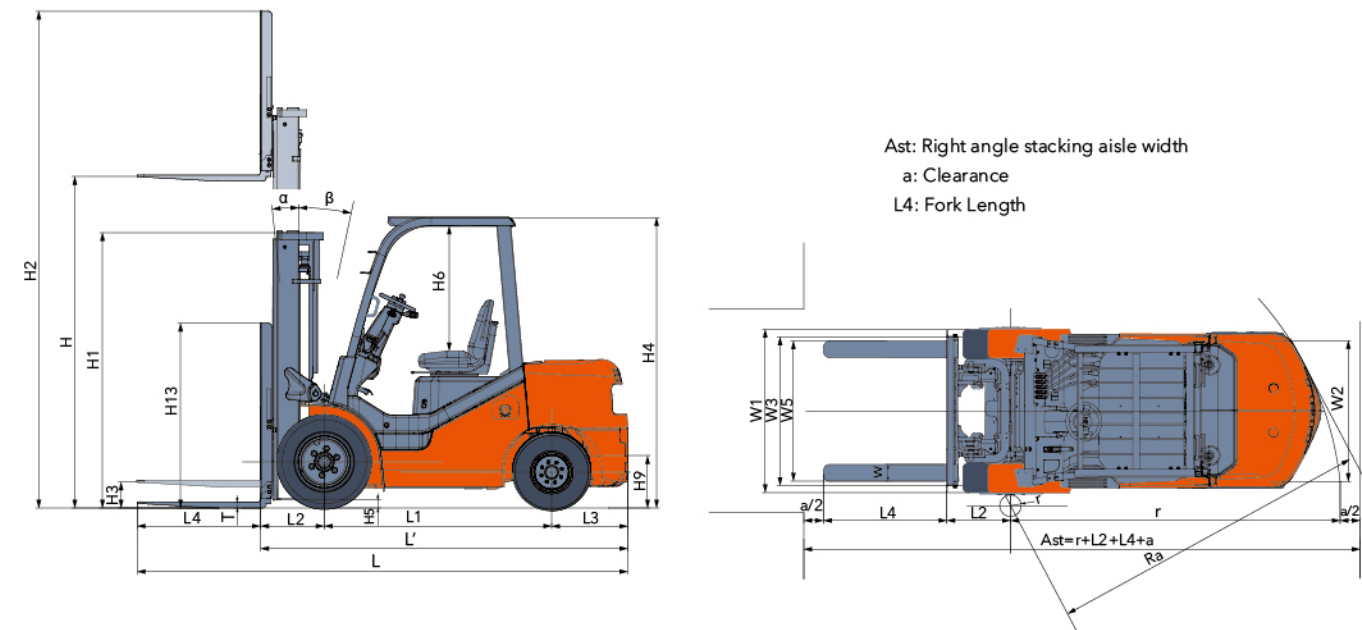


Manufacturer and technical parameters						
	Character					
1.01	Manufacturer			HELI		
1.02	Model			CPCD10/CP(Q)(Y)D10	CPCD15/CP(Q)(Y)D15	CPCD18/CP(Q)(Y)D18
1.03	Rated capacity		kg	1000	1500	1800
1.04	Load center		mm	500		
1.05	Operation mode			Seat-type		
	Size					
2.01	Max.lifting height	H	mm	3000		
2.02	Mast overall height(Fork to the ground and mast be vertical)	H1	mm	1995	1995	1995
2.03	Max.fork lifting height(With backrest)	H2	mm	4014		
2.04	Free lift height	H3	mm	152	155	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')	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(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 aisle width	Ra	mm	2011	2016	2035
2.20	Min.right angle stacking aisle width	Ast	mm	3576	3584	3603
2.21	Mast tilting angle	α / β	deg	6°/10°		
2.22	Fork size	L4×W×T	mm	770×100×32	920×100×35	920×100×35
	Weight					
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
	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										
Model		CPCD10-WS1H	CPCD15-WS1H	CPCD18-WS1H	CPQ(Y)D10-RC2H	CRQ(Y)D15-RC2H	CPQ(Y)D18-RC2H	CPCD10-KU11H	CPCD15-KU11H	CPCD18-KU11H
Max.drawbar pull (Loaded/Unloaded)	kN	19/12	19/12	19/12	18/7	18/7	18/7	19/11	19/11	19/11
Max.Gradeability (Loaded/Unloaded)	%	40/24	40/20	39/18	39/23	39/19	35/17	36/18	40/19	42/45
Max.traveling speed (Loaded/U/nloaded)	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	610/650								
Lowing 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			31.2/2200			34.1/2400		
Engine rated torque	Nm/rpm	139.9/1800			143.7/1600			155.9/1600		
Engine cylinder number-borexstroke		4-86×102			4-89×83			87×102.4		
Engine displacement	L	2.369			2.065			2.434		
Engine type		Diesel			GAS/LPG			Diesel		
Emission		Euro Stage3A			-			Euro Ⅲ / EPA T4i		
Battery(Voltage/Capacity)	V/Ah	12/80			12/60			12/80		
Engine fuel tank capacity	L	40			40			40		
Tranmission box shifting gears(Front/Rear type)					1-1Power 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 III
XINCHANG 4N23G31	30/2600	131/1800	2.27	4- 85×100	Diesel	CHINA Stage III
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	EPA/CARB / EU StageV



CPCD10  
CP(Q)(Y)D10

CPCD15  
CP(Q)(Y)D15

CPCD18  
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 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
		1.0t	1.5t	1.8t		1.0t	1.5t	1.8t	
M200	2000	1000	1500	1800	1495	2470	2650	2780	6/12
M250	2500	1000	1500	1800	1745	2510	2680	2810	6/12
M300	3000	1000	1500	1800	1995	2540	2720	2850	6/12
M330	3300	1000	1500	1800	2145	2560	2740	2870	6/12
M350	3500	1000	1500	1800	2245	2580	2750	2880	6/12
M370	3700	1000	1500	1800	2345	2590	2770	2900	6/12
M400	4000	1000	1500	*1750	2545	2650	2830	2960	6/12
M425	4250	950	*1400	*1700	2670	2660	2840	2970	6/6
M450	4500	950	*1400	*1700	2795	2680	2860	2990	6/6
M500	5000	*900	*1350	*1500	3045	2720	2900	3030	6/6
M550	5500	*900	*1150	*1500	3345	2790	2970	3100	*6/6
M600	6000	*850	*1050	*1400	3595	2820	3000	3130	*6/6

Note: (1) \*stands for the rated capacity when the front tyre is double-tyre. (2) When the front tyre of the 1-1.8t 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 lifting height (with backrest) (mm)	service weight (kg)			mast tilting angle (°) α/β
		1.0t	1.5t	1.8t			1.0t	1.5t	1.8t	
ZM200	2000	1000	1500	1800	1495	480	2500	2680	2810	6/12
ZM250	2500	1000	1500	1800	1745	730	2530	2710	2840	6/12
ZM300	3000	1000	1500	1800	1995	980	2570	2750	2880	6/12
ZM330	3300	1000	1500	1800	2145	1130	2590	2770	2900	6/12
ZM350	3500	1000	1500	1800	2245	1230	2600	2780	2910	6/12
ZM370	3700	1000	1500	1800	2345	1330	2620	2800	2930	6/12
ZM400	4000	1000	1500	*1750	2545	1530	2670	2850	2980	6/12
ZM425	4250	950	*1400	*1700	2670	1655	2690	2870	3000	6/6
ZM450	4500	950	*1400	*1700	2795	1780	2710	2890	3020	6/6
ZM500	5000	*900	*1350	*1500	3045	2030	2740	2920	3050	6/6
ZM550	5500	*900	*1150	*1500	3345	2330	2820	2990	3120	*6/6
ZM600	6000	*850	*1050	*1400	3595	2580	2850	3030	3160	*6/6

Note: (1) \*stands for the rated capacity when the front tyre is double-tyre. (2) When the front tyre of the 1-1.8t 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 1-1.8t truck is the height (with backrest) in the table plus 379mm.

WIDE VIEW FULL FREE 3-STAGE MAST										
mast model	Max. lifting height mm	load capacity (load center 500mm)(kg)			(mm) mast overall height (fork to the ground)	(mm) free lifting height (with backrest)	service weight (kg)			mast tilting angle (°) α/β
		1.0t	1.5t	1.8t			1.0t	1.5t	1.8t	
ZSM360	3600	1000	1500	*1800	1790	775	2680	2680	2990	6/6
ZSM400	4000	*1000	*1500	*1800	1925	910	2710	2710	3020	6/6
ZSM435	4350	*1000	*1500	*1800	2040	1025	2730	2730	3040	6/6
ZSM450	4500	*1000	*1500	*1800	2090	1075	2740	2740	3050	6/6
ZSM470	4700	*1000	*1500	*1800	2160	1145	2750	2750	3060	6/6
ZSM480	4800	*1000	*1500	*1800	2190	1175	2760	2760	3070	6/6
ZSM500	5000	*1000	*1500	*1800	2290	1275	2780	2780	3090	6/6
ZSM540	5400	*1000	*1500	*1800	2415	1400	2810	2810	3120	6/6
ZSM600	6000	*900	*1150	*1400	2640	1625	2880	2880	3190	6/6

Note: (1) \*stands for the rated capacity when the front tyre is double-tyre. (2) When the front tyre of the 1-1.8t 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 1-1.8t truck is the height (with backrest) in the table plus 484mm.