

HELI

Reliable special designed instrument



Standard configuration

Standard configuration	Optional
Front control valve	Standard fork
Backup	Integrated electric box
Back view mirror	Flow regulator
Transmission oil filter	Wide view mirror
Engine flame out device	Durable lead tire
Cable type parking brake	Lifting and tilting operation lever
Driver's tool	Friction pin
Rear combined lamp	Head lamp
Backward buzzer	Hydraulic oil dipstick
Til adjustable steering column	Overhead guard
Overhead guard roll cover	Torque converter oil dipstick
	Combined instrument
	Electro-hydraulic direction changing
	Driver's cab
	Warning light
	High air exhausting device
	Double air damper
	Exhaustion fan
	Lengthening fork extension
	Wash all blower
	Solid tire
	Water carriage
	Wind shield
	Charging muffler
	Fire arrested muffler
	Fire extinguisher
	Rear working light
	Transfer control system
	Torque converter oil temperature meter
	Lifting cylinder sleeve
	Customer made color
	Optional attachments
	Steel protection net
	Double type and protection device
	Retracting bracket for leg
	Single/two fuel system
	Low speed alarm
	Attachments

1-1.8t

H3 series Internal Combustion Counterbalanced Forklift Truck



HELI

H3 SERIES 1-1.8t

Improved performance superior quality



Vibration 20% reduced

Noise 1.9dB reduced

- Custom connection and wholly suspension driver's cab absorbs whole truck's vibration effectively.
- Noise around ear is reduced through down the lifting cylinder under the floor board and using fully closed push type driver's cab.
- Linear 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 use steering unit and using suspension type steering.
- The operation space is enlarged by heightened overhead guard and using large arc shape of the overhead guard's front leg.
- Semi-suspension axle 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 side view mirror 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 reflux twisting device, optional thermal dissipation duct and aluminum plate fan type radiator improve cooling ability and ensure engine work reliability.
- Automobile type oil filling cap and optional 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 introduction of whole truck's grade 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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* The pictures are subject to change without notice.

H3 SERIES 1-1.8t



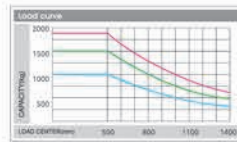
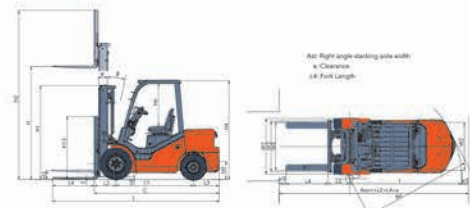
Manufacturer and technical parameters

Manufacturer and technical parameters				
Character				
1.01 Manufacturer		HELI		
1.02 Model	CPCD16/CR/QR2D16	CPCD15/CR/QR2D15	CPCD14/CR/QR2D14	
1.03 Rated capacity	kg	1500	1350	
1.04 Load center	mm	500		
1.05 Operation mode		Seat type		
Size				
2.01 Max lifting height	m	3000		
2.02 Max overall height (at the ground and mast retracted)	mm	1995	1995	
2.03 Max lift height (with load)	mm	4014		
2.04 Free lift height	mm	152	155	
2.05 Overall height (with mast retracted)	mm	2140		
2.06 Mast height (at the mast)	mm	110		
2.07 Distance from the surface of the seat to the seat back (ground)	mm	1018		
2.08 Track on pin height	mm	255		
2.09 Release height (measured from the surface of the seat)	mm	1014		
2.10 Overall height (with mast retracted)	mm	2197/2277	2201/2281	2219/2299
2.11 Wheel base	mm	1450		
2.12 Front overhang	mm	854	409	409
2.13 Rear overhang	mm	406	412	432
2.14 Overall width	mm	1070		
2.15 Mast (front/rear floor)	mm	902/928	902/928	932/928
2.16 Free adjust width (without the front/rear floor)	mm	950/900		
2.17 Mast turning radius (front)	mm	1675	1910	1930
2.18 Mast turning radius (rear)	mm	49	49	49
2.19 Mast tilt angle side width	mm	2011	2016	2035
2.20 Mast tilt angle stacking side width	mm	3576	3584	3603
2.21 Mast tilt angle	°	37°/10°		
2.22 Fork size	(mm)	775*100*32	920*100*35	920*100*35
Weights				
3.01 Total weight	kg	2540	2720	2850
3.02 Weight distribution (loaded) (front/rear)	kg	2948/900	3618/810	4000/900
3.03 Weight distribution (unloaded) (front/rear)	kg	1230/1310	1190/1530	1170/1480
Wheel and tyre				
4.01 Wheel number × (drive wheel) (front/rear)		2X/2		
4.02 Tyre type (front/rear)		Pneumatic tyre		
4.03 Tyre specification (front/rear)		6.50-10/6R5.00-8-10PR / 6.50-10/6R5.00-8-10PR		
4.04 Service brake		Hydraulic Foot Pedal		
4.05 Parking brake		Mechanical Hand Lever		

Performance										
Model	CPCD10-WS1H	CPCD15-WG1H	CPCD14-WS1H	CPD215W1KH	CPD215W1KH	CPD215W1KH	CPD15H1KH	CPD15H1KH	CPD15H1KH	CPD14H1KH
Max. driver seat (Load/Unloaded)	kg	19/12	19/12	19/7	19/7	19/7	19/7	19/11	19/11	19/11
Max. Groundability (Load/Unloaded)	%	40/24	40/20	39/16	39/23	39/17	35/17	36/18	40/19	40/43
Max. Lifting Speed (Load/Unloaded)	m/min	37/18	17/18	17/18	16/17	16/17	17/18	17/18	17/18	17/18
Max. Lowering Speed (Load/Unloaded)	m/min				410/550					
Max. Forwarding Speed (Load/Unloaded)	m/min				400/600					
Drive and transmission control device										
Engine model		G80/C80E						G127 421		G190C4 42432
Engine rated power	kW/rpm	35.4/2500		31.3/2200				34.1/2400		
Engine rated torque	Nm/rpm	138.6/1300		143.1/1400				155.9/1400		
Engine cylinder number / bore/stroke		4/85*102		4/85*81				4/85*102.4		
Engine displacement	L	2.64		2.64				2.64		
Engine type		Diesel		Diesel				Diesel		
Emission		Euro Stage IIIA						Euro II / EPA Tier II		
Battery Voltage / Capacity	V/Ah	28V		28V				28V		
Engine fuel tank capacity	L	48		48				48		
Transmission box shifting gear (front/rear type)					1.11 Power Shift TM					

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	Emission
G127-K15	33.4/2400	129/1400	2.484	4 - 75.5*82	GAS/LPG	
QIANGSHI N84-45V2	10/2600	120/1800	2.27	4 - 85*100	Diesel	China Stage II
XINCHANG 4N23G31	30/2400	131/1800	2.27	4 - 85*100	Diesel	China Stage II
RUBOX WG2103	GA3-R2-8/2400 LFC-43 S/2400	GA5-163/1/800 LFC-173/1100	2.491	4 - 85*102.4	GAS/LPG	EURO Stage IV



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 load point of the standard load refers to the center position of the cylinder with 1000mm length of axle. When mast is tilted forward, maximum lift stage on mast with over axle ground, load capacity will be reduced. Different load capacity in different load center can be found in time through load chart.

Model	Max. lifting height (m)	Load capacity (Load center: 500mm) (kg)	Max. lifting height (m)	Load capacity (Load center: 500mm) (kg)	Max. lifting height (m)	Load capacity (Load center: 500mm) (kg)	Max. lifting height (m)	Load capacity (Load center: 500mm) (kg)
M200	2000	1000	1500	1200	1400	1400	1470	2400
M250	2500	1000	1500	1700	1740	2510	2480	2910
M300	3000	1000	1500	1700	1900	2540	2700	2850
M400	2000	1000	1500	1700	2140	2560	2740	2870
M450	2500	1000	1500	1700	2240	2580	2780	2880
M510	3100	1000	1500	1700	2340	2590	2770	2900
M600	4000	1000	1500	1700	2540	2650	2830	2940
M625	4250	950	1450	1700	2670	2660	2840	2970
M650	4500	950	1450	1700	2790	2680	2860	2990
M700	5000	950	1450	1700	2940	2700	2880	3020
M800	6000	950	1450	1700	3240	2790	2970	3100
M900	8000	950	1450	1700	3590	2820	3000	3130

Note: (*) needs for the mast capacity when the front type is double type. (**) When the front type of the 1.1-1.8t truck is double type, the service weight of the truck is the weight in the table plus 50kg.

WIDE VIEW FULL FREE 2-STAGE MAST

Model	Max. lifting height (m)	Load capacity (Load center: 500mm) (kg)	Max. lifting height (m)	Load capacity (Load center: 500mm) (kg)	Max. lifting height (m)	Load capacity (Load center: 500mm) (kg)	Max. lifting height (m)	Load capacity (Load center: 500mm) (kg)
FM200	2000	1000	1000	1700	1495	480	2590	2480
FM250	2500	1000	1000	1700	1740	730	2530	2710
FM300	3000	1000	1000	1700	1995	980	2570	2750
FM350	3500	1000	1000	1700	2145	1130	2590	2770
FM400	4000	1000	1000	1700	2340	1280	2600	2780
FM450	4500	950	950	1700	2530	1330	2620	2800
FM500	5000	950	950	1700	2730	1380	2630	2810
FM550	5500	950	950	1700	2940	1430	2640	2820
FM600	6000	950	950	1700	3160	1480	2650	2830

Note: (*) needs for the mast capacity when the front type is double type. (**) When the front type of the 1.1-1.8t truck is double type, the service weight of the truck is the weight in the table plus 50kg. (**) The max. lifting height (at the mast) of the 1.1-1.8t truck is the height (at the mast) in the table plus 50mm.

WIDE VIEW FULL FREE 3-STAGE MAST

Model	Max. lifting height (m)	Load capacity (Load center: 500mm) (kg)	Max. lifting height (m)	Load capacity (Load center: 500mm) (kg)	Max. lifting height (m)	Load capacity (Load center: 500mm) (kg)	Max. lifting height (m)	Load capacity (Load center: 500mm) (kg)
F3M340	3400	1000	1400	1700	1770	775	2480	2480
F3M400	4000	1000	1400	1600	1925	810	2710	2710
F3M450	4500	1000	1400	1600	2040	820	2730	2730
F3M500	5000	1000	1400	1600	2160	830	2740	2740
F3M550	5500	1000	1400	1600	2280	840	2750	2750
F3M600	6000	1000	1400	1600	2400	850	2760	2760
F3M650	6500	1000	1400	1600	2520	860	2770	2770
F3M700	7000	1000	1400	1600	2640	870	2780	2780
F3M750	7500	1000	1400	1600	2760	880	2790	2790
F3M800	8000	1000	1400	1600	2880	890	2800	2800
F3M850	8500	1000	1400	1600	3000	900	2810	2810
F3M900	9000	1000	1400	1600	3120	910	2820	2820
F3M950	9500	1000	1400	1600	3240	920	2830	2830
F3M1000	10000	1000	1400	1600	3360	930	2840	2840

Note: (*) needs for the mast capacity when the front type is double type. (**) When the front type of the 1.1-1.8t truck is double type, the service weight of the truck is the weight in the table plus 50kg. (**) The max. lifting height (at the mast) of the 1.1-1.8t truck is the height (at the mast) in the table plus 50mm.