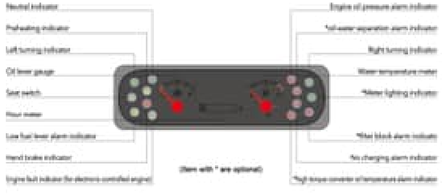
HELI

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	
Horn	Standard fork	Driver's cab	Tilting cylinder sleeve
Control valve	Integrated electric box	Warning light	Customer made color
Backrest	Flow regulator	High air exhausting device (Diesel only)	Optional attachments
Back view mirror	Wide view mast	Double air cleaner	Steel protection net
Front combined lamp	Durable tread tyre	Suspension seat	Double tyre and protective device
Transmission oil filter	Lifting and tilting operation lever	Lengthening fork extension	Rotating bracket for 3pg
Engine flame out device	Traction pin	Warm air blower	Single/dual fuel system
Cable type parking brake	Head lamp	Solid tyre	Low speed alrm
Driver's seat	Hydraulic oil dipstick	Widen carriage	Attachments
Rear combined lamp	Overhead guard	Wind shield	
Backward buzzer	Torque converter oil dipstick	Fire extinguisher	
Tilt oil circuit self lock valve	Combined instrument	Rear working light	
Tilt adjustable steering column	Electro-hydraulic direction changing	Travelling control system	
Overhead guard rain cover		Torque converter oil temperature meter	



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* Details of specifications and equipment are based on information available at time of printing and may change without notice.

HELI

2000-3500lbs [1-1.8t]

H3 series Internal Combustion Counterbalanced Forklift Truck

CPCD10-18/CP(Q)YD10-18



www.heliforkliftamerica.com

H3 SERIES 2000-3500lbs

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 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.

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

Engine hood open angle increased to 80°

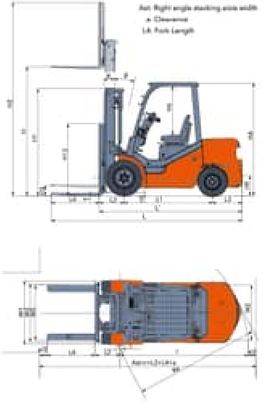
- Enlarged internal space is convenient for engine and transmission box maintenance.
- Increased hood open angle contributes to quick and convenient maintenance.

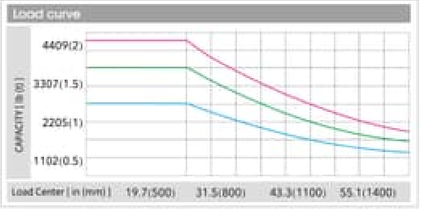


H3 SERIES 2000-3500lbs

	Character				HELI					
1.01	Manufacture									
1.02	Model				CPCD10/CPC(Q)YD10		CPCD15/CPC(Q)YD15		CPCD18/CPC(Q)YD18	
1.03	Rated capacity		lbs	kg	2000	1000	3000	1500	3500	1800
1.04	Load center distance		in	mm	24	500	24	500	24	500
1.05	Operation mode				Seat type					
	Size									
2.01	Max.Lifting height	H	in	mm	118	3000	118	3000	118	3000
2.02	Mast overall height	H1	in	mm	78.5	1995	78.5	1995	78.5	1995
2.03	Max.fork lifting height(with backrest)	H2	in	mm	158	4014	158	4014	158	4014
2.04	Free lift height	H3	in	mm	6	152	6.1	155	6.1	155
2.05	Overall height(Overhead guard)	H4	in	mm	84.3	2140	84.3	2140	84.3	2140
2.06	Min.ground clearance(At the mast)	H5	in	mm	4.3	110	4.3	110	4.3	110
2.07	Distance from the surface of the seat to the overhead guard	H6	in	mm	40	1018	40	1018	40	1018
2.08	Traction pin height	H8	in	mm	10	255	10	255	10	255
2.09	Backrest height(Calculated from the surface of the fork)	H13	in	mm	40	1014	40	1014	40	1014
2.10	Overall length	L(L1)	in	mm	125.8/89.6	3197/2277	126/89.8	3201/2281	126.7/90.5	3219/2299
2.11	Wheel base	L1	in	mm	57.1	1450	57.1	1450	57.1	1450
2.12	Front overhang	L2	in	mm	16	406	16.1	409	16.1	409
2.13	Rear overhang	L3	in	mm	16	406	16.2	412	17	432
2.14	Overall width	W1	in	mm	42.1	1070	42.1	1070	42.1	1070
2.15	Tread	W4/W5	in	mm	35.5/36.5	902/928	35.5/36.5	902/928	36.7/36.5	932/928
2.16	Fork adjustable range	W5	in	mm	37.4/7.8	950/200	37.4/7.8	950/200	37.4/7.8	950/200
2.17	Min.turning radius(Exterior)	r	in	mm	73.8	1875	75.2	1910	76	1930
2.18	Min.turning radius(Interior)	r'	in	mm	2	49	2	49	2	49
2.19	Min.right angle aisle width	Ast	in	mm	79.2	2011	79.4	2016	80.1	2035
2.20	Min.right angle stacking aisle width	Ast	in	mm	140.8	3576	141.1	3584	141.9	3603
2.21	Mast tilting angle	α / β	deg	deg	6°/10°		6°/10°		6°/10°	
2.22	Fork size	(s×e×l)	in	mm	30.3×3.9×1.3	700×100×32	36.2×3.9×1.4	920×100×35	36.2×3.9×1.4	920×100×35
	Weight									
3.01	Total weight(with battery)		lbs	kg	5600	2540	5957	2720	6283	2850
3.02	Weight distribution loaded		lbs	kg	6482/1323	2940/600	7969/1323	3610/610	8819/1323	4000/600
3.03	Weight distribution unloaded		lbs	kg	2712/2888	1230/1310	2624/3373	1190/1530	2580/3704	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					
4.04	Service brake				Hydraulic-Foot Pedal					
4.05	Parking brake				Mechanical-Hand Lever					

Performance																				
Model			CPCD(Y)D10		CPCQ(Y)D15		CP (Q) YD18		CPCD15		CPCD15		CPCD18							
Max.Drawbar pull(load on load)	lbf	KN	3822/1574	13/7	4271/1574	19/7	4271/1574	19/7	3822/1574	13/7	4043/1574	18/7	4043/1574	18/7						
Max.Gradeability(load on load)	%	%	40/24	40/24	40/20	40/20	40/18	40/18	40/24	40/24	40/20	40/20	40/18	40/18						
Max.Traveling Speed(load on load)	mph	km/h	10.6/11.2	17/18	10.6/11.2	17/18	10.6/11.2	17/18	10.6/11.2	17/18	10.6/11.2	17/18	10.6/11.2	17/18						
Lifting Speed(load on load)	ft/min	mm/s	120/126	610/650	120/126	610/650	120/126	610/650	108/118.8	550/605	108/118.8	550/605	108/118.8	550/605						
Lowering Speed(load on load)	ft/min	mm/s	98.8/118.2	450/600	98.8/118.2	450/600	98.8/118.2	450/600	98.8/118.2	450/600	98.8/118.2	450/600	98.8/118.2	450/600						
Engine model			KUBOTA WG2503		KUBOTA WG2503		KUBOTA WG2503		KUBOTA V2403		KUBOTA V2403		KUBOTA V2403							
Engine rated power	HP/rpm	Kw/rpm	GAS:57.4/3600 LPG:48.3/3600	GAS:42.8/3600 LPG:41.0/3600	GAS:57.4/3600 LPG:48.3/3600	GAS:42.8/3600 LPG:41.0/3600	GAS:57.4/3600 LPG:48.3/3600	GAS:42.8/3600 LPG:41.0/3600	45.1/2400	33.6/2400	45.1/2400	33.6/2400	45.1/2400	33.6/2400						
Engine rated torque	(lb.ft)/rpm	Nm/rpm	GAS:129.4/1800 LPG:128.1/1400	GAS:163/1800 LPG:172.7/1400	GAS:129.4/1800 LPG:128.1/1400	GAS:163/1800 LPG:172.7/1400	GAS:129.4/1800 LPG:128.1/1400	GAS:163/1800 LPG:172.7/1400	114/1600	157.4/1500	114/1600	157.4/1500	114/1600	157.4/1500						
Engine cylinder number			4	4	4	4	4	4	4	4	4	4	4	4						
Piston displacement	L	L	2.691	2.691	2.691	2.691	2.691	2.691	2.434	2.434	2.434	2.434	2.434	2.434						
Engine type			LPG/GAS	LPG/GAS	LPG/GAS	LPG/GAS	LPG/GAS	LPG/GAS	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel						
Engine Emissions			EPA CARB	EPA CARB	EPA CARB	EPA CARB	EPA CARB	EPA CARB	EPA Tier4	EPA Tier4	EPA Tier4	EPA Tier4	EPA Tier4	EPA Tier4						
Battery(Voltage/Capacity)	V/Ah	V/Ah	12/60	12/60	12/60	12/60	12/60	12/60	12/95	12/95	12/95	12/95	12/95	12/95						
Engine fuel tank capacity	L	L	40	40	40	40	40	40	40	40	40	40	40	40						
Transmission box shifting gears (Forward/Reverse)	type	type	1-1 Power Shift T/M	1-1 Power Shift T/M	1-1 Power Shift T/M	1-1 Power Shift T/M	1-1 Power Shift T/M	1-1 Power Shift T/M	1-1 Power Shift T/M	1-1 Power Shift T/M	1-1 Power Shift T/M	1-1 Power Shift T/M	1-1 Power Shift T/M	1-1 Power Shift T/M						





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	Load Capacity (load center 24inch) CPCD10 /CPCQ(Y)D10	CPCD15 /CPC(Q)YD15	CPCD18 /CPC(Q)YD18	Mast Overall Height (fork to the ground)	Service Weight(unload) CPCD10 CPCQ(Y)D10	CPCD15 CPC(Q)YD15	CPCD18 CPC(Q)YD18	mast tilting angle (°) α/ β
	in/mm	lb/kg	lb/kg	lb/kg	lb/kg	lb/kg	lb/kg	lb/kg	
M200	78.7 / 2000	2205 /1000	3307 / 1500	3858 / 1750	58.8 / 1495	5445 / 2470	5842 / 2650	6129 / 2780	6/10
M250	98.4 / 2500	2205 /1000	3307 / 1500	3859 / 1750	68.7 / 1745	5534 / 2510	5908 / 2680	6195 / 2810	6/10
M300	118 / 3000	2205 /1000	3307 / 1500	3860 / 1750	78.5 / 1995	5600 / 2540	5997 / 2720	6283 / 2850	6/10
M330	130 / 3300	2205 /1000	3307 / 1500	3861 / 1750	84.4 / 2145	5644 / 2560	6041 / 2740	6327 / 2870	6/10
M350	137.8 / 3500	2205 /1000	3307 / 1500	3862 / 1750	88.4 / 2245	5686 / 2580	6062 / 2750	6349 / 2880	6/10
M370	145.7 / 3700	2205 /1000	3307 / 1500	3863 / 1750	92.3 / 2345	5710 / 2590	6107 / 2770	6393 / 2900	6/10
M400	157.5 / 4000	2205 /1000	3307 / 1500	3862 / 1750	100.2 / 2545	5842 / 2650	6239 / 2830	6526 / 2960	6/10
M425	167.3 / 4250	2094 / 950	3307 / 1500	3862 / 1750	105.1 / 2670	5864 / 2660	6261 / 2840	6548 / 2970	6/10
M450	177.2 / 4500	2094 / 950	3307 / 1500	3862 / 1750	110 / 2795	5908 / 2680	6305 / 2860	6592 / 2990	6/10
M500	196.9 / 5000	2094 / 950	3307 / 1500	3862 / 1750	119.8 / 3045	5997 / 2720	6393 / 2900	6680 / 3030	6/10
M550	216.5 / 5500	*1984/*900	*2535/*1150	*3307/*1500	131.6 / 3345	6151 / 2790	6548 / 2970	6834 / 3100	3/6
M600	236.2 / 6000	*1874/*850	*2315/*1050	*3087/*1400	141.3 / 3590	6217 / 2820	6614 / 3000	6900 / 3130	3/6

Note: (*)"stands for the rated capacity when the front tyre is double-tyre. (2) When the front tyre of the 1.1 lb truck is double tyre, the service weight of the truck is the weight in the table plus 30kg.

WIDE VIEW FULL FREE 2-STAGE MAST

mast model	Max.lifting height	Load Capacity (load center 24inch) CPCD10 CPCQ(Y)D10	CPCD15 CPC(Q)YD15	CPCD18 CPC(Q)YD18	Mast Overall Height (fork to the ground)	Free lifting height (with backrest)	Service Weight(unload) CPCD10 CPCQ(Y)D10	CPCD15 CPC(Q)YD15	CPCD18 CPC(Q)YD18	mast tilting angle (°) α/ β
	in/mm	lb/kg	lb/kg	lb/kg	lb/kg	lb/kg	lb/kg	lb/kg	lb/kg	
ZM200	78.7 / 2000	2205 /1000	3307 / 1500	3858 / 1750	58.8 / 1495	58.8 / 480	5512 / 2500	5908 / 2680	6195 / 2810	6/10
ZM250	98.4 / 2500	2205 /1000	3307 / 1500	3859 / 1750	68.7 / 1745	28.7 / 730	5578 / 2530	5975 / 2710	6261 / 2840	6/10
ZM300	118 / 3000	2205 /1000	3307 / 1500	3860 / 1750	78.5 / 1995	38.5 / 980	5666 / 2570	6063 / 2750	6349 / 2880	6/10
ZM330	130 / 3300	2205 /1000	3307 / 1500	3861 / 1750	84.4 / 2145	44.4 / 1130	5710 / 2590	6107 / 2770	6393 / 2900	6/10
ZM350	137.8 / 3500	2205 /1000	3307 / 1500	3862 / 1750	88.4 / 2245	48.4 / 1230	5732 / 2600	6129 / 2780	6415 / 2910	6/10
ZM370	145.7 / 3700	2205 /1000	3307 / 1500	3863 / 1750	92.3 / 2345	52.3 / 1330	5776 / 2620	6173 / 2800	6460 / 2930	6/10
ZM400	157.5 / 4000	2205 /1000	3307 / 1500	3862 / 1750	100.2 / 2545	60.2 / 1530	5886 / 2670	6283 / 2850	6570 / 2980	6/10
ZM425	167.3 / 4250	2094 / 1000	3307 / 1500	3862 / 1750	105.1 / 2670	65.1 / 1655	5930 / 2690	6327 / 2870	6614 / 3000	6/10
ZM450	177.2 / 4500	2094 / 950	3307 / 1500	3862 / 1750	110 / 2795	70.1 / 1780	5975 / 2710	6371 / 2890	6658 / 3020	6/10
ZM500	196.9 / 5000	2094 / 950	3307 / 1500	3862 / 1750	119.8 / 3045	79.9 / 2030	6041 / 2740	6437 / 2920	6724 / 3050	6/10
ZM550	216.5 / 5500	*1984 / *900	*2535 /*1150	*3307 /*1500	131.6 / 3345	91.7 / 2330	6217 / 2820	6592 / 2990	6878 / 3120	3/6
ZM600	236.2 / 6000	*1874 / *850	*2315 /*1050	*3087 /*1400	141.3 / 3590	101.5 / 2580	6283 / 2850	6680 / 3030	6967 / 3160	3/6

Note (1)"stands for the rated capacity when the front tyre is double tyre.
(2) When the front tyre of the 1.1 lb truck is double tyre, the service weight of the truck is the weight in the table plus 30kg.
(3) The free lifting height (without backrest) of the 1.1 lb truck is the height (with backrest) in the table plus 270mm.

WIDE VIEW FULL FREE 3-4STAGE MAST

mast model	Max.lifting height	Load Capacity (load center 24inch) CPCD10 CPCQ(Y)D10	CPCD15 CPC(Q)YD15	CPCD18 CPC(Q)YD18	Mast Overall Height (fork to the ground)	Free lifting height (with backrest)	Service Weight(unload) CPCD10 CPCQ(Y)D10	CPCD15 CPC(Q)YD15	CPCD18 CPC(Q)YD18	mast tilting angle (°) α/ β
	in/mm	lb/kg	lb/kg	lb/kg	lb/kg	lb/kg	lb/kg	lb/kg	lb/kg	
ZSM360	141.7 / 3600	2205 /1000	3197 / 1450	3858 / 1750	78.4 / 1990	38.5 / 975	5908 / 2680	5908 / 2680	6393 / 2990	6/6
ZSM400	157.4 / 4000	2205 /1000	3086 / 1400	3527 / 1600	75.7 / 1925	35.8 / 910	5975 / 2710	5975 / 2710	6458 / 3020	6/6
ZSM435	171.2 / 4350	1984 / 900	2866 / 1300	3417 / 1550	80.3 / 2040	40.3 / 1025	6019 / 2730	6019 / 2730	6702 / 3040	6/6
ZSM450	177.2 / 4500	1984 / 900	2866 / 1300	3417 / 1550	82.2 / 2090	42.3 / 1075	6041 / 2740	6041 / 2740	6724 / 3050	6/6
ZSM470	185.0 / 4700	1984 / 900	2866 / 1300	3417 / 1550	85 / 2160	45.1 / 1145	6063 / 2750	6063 / 2750	6746 / 3060	6/6
ZSM480	188.9 / 4800	1984 / 900	2866 / 1300	3417 / 1550	86.2 / 2190	46.3 / 1175	6085 / 2760	6085 / 2760	6768 / 3070	6/6
ZSM500	196.8 / 5000	1984 / 900	2866 / 1300	3417 / 1550	90.1 / 2290	50.2 / 1275	6129 / 2780	6129 / 2780	6812 / 3090	6/6
ZSM540	212.5 / 5400	1984 / 900	2866 / 1300	3417 / 1550	95.1 / 2415	55.1 / 1400	6195 / 2810	6195 / 2810	6878 / 3120	3/6
ZSM600	236.2 / 6000	1874 / 850	2756 / 1250	3307 / 1500	103.9 / 2640	63.9 / 1625	6349 / 2880	6349 / 2880	7033 / 3190	3/6

Note:(*)"stands for the rated capacity when the front tyre is double tyre.
(2) When the front tyre of the 1.1 lb truck is double tyre, the service weight of the truck is the weight in the table plus 30kg.
(3) The free lifting height (without backrest) of the 1.1 lb truck is the height (with backrest) in the table plus 484mm.