

# HELI

## 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 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 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.

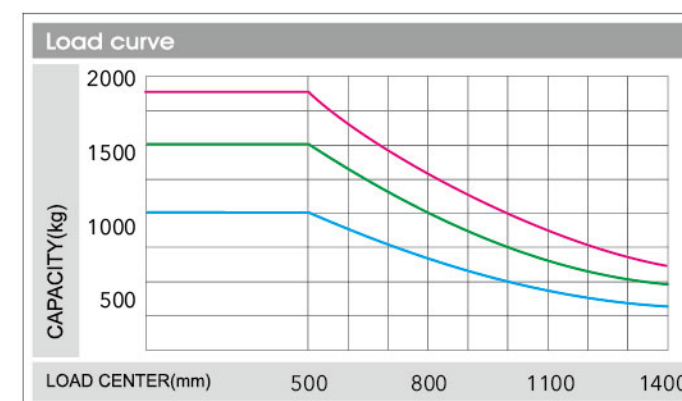
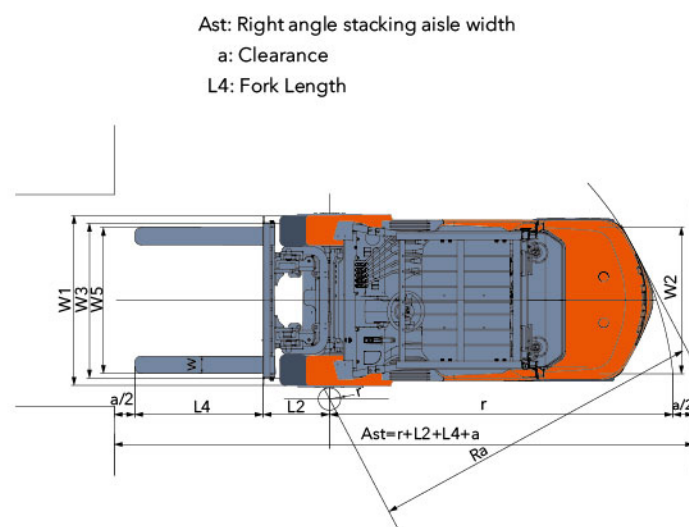
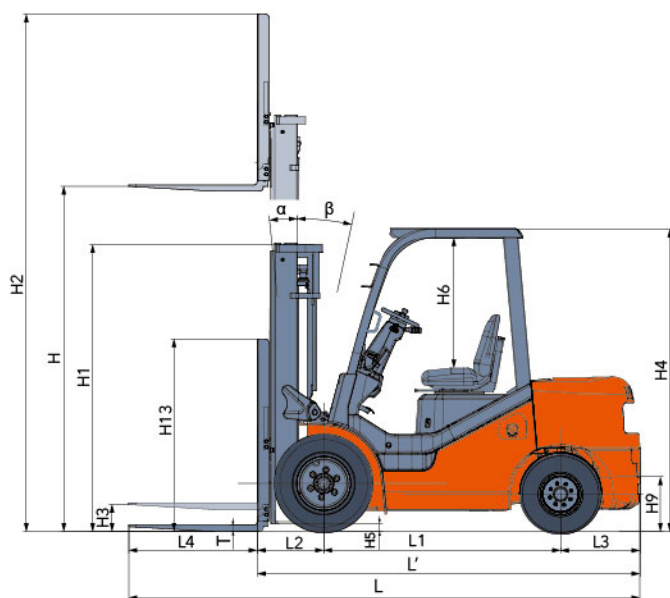


# H3 SERIES 1-1.8 t

## Manufacturer and technical parameters

Character						
1.01	Manufacturer			HELI		
1.02	Model			CPCD10/CP(Q)YD10	CPCD15/CP(Q)YD15	CPCD18/CP(Q)YD18
1.03	Rated capacity		lbs	2000	3000	3500
1.04	Load center		in	24		
1.05	Operation mode			Seat-type		
Size						
2.01	Max.lifting height	H	in	118		
2.02	Mast overall height(Fork to the ground and mast be vertical)	H1	in	78.5	78.5	78.5
2.03	Max.fork lifting height(With backrest)	H2	in	158		
2.04	Free lift height	H3	in	6	6.1	6.1
2.05	Overall height(Overhead guard)	H4	in	84.3		
2.06	Min.groung clearance(At the mast)	H5	in	4.3		
2.07	Distance from the surface of the seat to the overahead guard	H6	in	40		
2.08	Traction pin height	H9	in	10		
2.09	Backrest height(Calculated from the surface of the fork)	H13	in	40		
2.10	Overall length(With fork/Without fork)	(L/L')	in	125.8/89.6	126/89.8	126.7/90.5
2.11	Wheel base	L1	in	57.1		
2.12	Front overhang	L2	in	16	16.1	16.1
2.13	Rear overhang	L3	in	16	16.2	17
2.14	Overall width	W1	in	42.1		
2.15	Tread (Front tread/Rear tread)	(W3/W2)	in	35.5/36.5	35.5/36.5	36.7/36.5
2.16	Fork adjustable range(the external of the fork)(Max./Min.)	W5	in	37.4/7.8		
2.17	Min.turning radius(Exterior)	r	in	73.8	75.2	76
2.18	Min.turning radius(Interior)	r'	in	2	2	2
2.19	Min.right angle aisle width	Ra	in	79.2	79.4	80.1
2.20	Min.right angle stacking aisle width	Ast	in	140.8	141.1	141.9
2.21	Mast tilting angle	$\alpha / \beta$	deg	6°/10°		
2.22	Fork size	L4×W×T	in	30.3×3.9×1.3	36.2×3.9×1.4	36.2×3.9×1.4
Weight						
3.01	Total weight		lbs	5600	5997	6283
3.02	Weight distribution loaded (Front/Rear)		lbs	6482/1323	7969/1323	8819/1323
3.03	Weight distribution unloaded (Front/Rear)		lbs	2712/2888	2624/3373	2579/3704
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		CP(Q)YD10-KU1H	CP(Q)YD15-KU1H	CP(Q)YD18-KU1H	CPCD10-KU18H	CPCD15-KU18H	CPCD18-KU18H
Model							
Max.Drawbar pull(load/unload)	lbf	3822/1574	4271/1574	4271/1574	4271/1574	4271/1574	4271/1574
Max.Gradeability(load/unload)	%	40/24	40/20	40/18	40/24	40/20	40/18
Max.Traveling speed(load/unload)	mph			10.6/11.2			
Lifting Speed(load/unload)	ft/min	120/126				108/118.8	
Lowing Speed(load/unload)	ft/min			88.8/118.2			
Engine Manufacturer/Model		KUBOTA WG2503			KUBOTA V2403		
Rated Power	HP/rpm	GAS:57.4/2600 LPG:58.3/2600			45.1/2400		
Rated Torque	(lb.ft)/rpm	GAS:120.4/1800 LPG:128.1/1400			116/1600		
Cyl.Number-bore*stroke		4			4		
Displacement	L	2.491			2.434		
Engine Type		GAS/LPG			Diesel		
Emission		EPA/CARB			EC StageV,EPA Tier4		
Battery Capacity	V/Ah	12/60			12/95		
Engine fuel tank capacity	L	40			40		
Transmission box shifting gears (Front/Rear type)		1-1Power Shift T/M					



CPCD10  
CP(Q)YD10
CPCD15  
CP(Q)YD15
CPCD18  
CP(Q)YD18

**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)			Mast Overall Height (fork to the ground)	Service Weight (unload)			Mast Tilting angle
		CPCD10 /CP(Q)(Y)D10	CPCD15 /CP(Q)YD15	CPCD18 /CP(Q)YD18		CPCD10 /CP(Q)(Y)D10	CPCD15 /CP(Q)YD15	CPCD18 /CP(Q)YD18	
		in	lb	lb		lb	in	lb	
M200	78.7	2205	3307	3858	58.8	5445	5842	6129	6°/10°
M250	98.4	2205	3307	3859	68.7	5534	5908	6195	6°/10°
M300	118	2205	3307	3860	78.5	5600	5997	6283	6°/10°
M330	130	2205	3307	3861	84.4	5644	6041	6327	6°/10°
M350	137.8	2205	3307	3862	88.4	5688	6063	6349	6°/10°
M370	145.7	2205	3307	3863	92.3	5710	6107	6393	6/6* 6°/12°
M400	157.5	2205	3307	3748*3863	100.2	5842	6239	6526	6/6* 6°/12°
M425	167.3	2094	3087*3307	3527 * 3863	105.1	5864	6261	6548	6/6* 6°/12°
M450	177.2	2094	2866*3087	3417 *3748	110	5908	6305	6592	6/6* 6°/12°
M500	196.9	2050*2094	2205*2976	2425 *3527	119.8	5997	6393	6680	6/6* 6°/6°
M550	216.5	*1984	*2535	*3307	131.6	6151	6548	6834	3°/6°
M600	236.2	*1874	*2315	*3087	141.5	6217	6614	6900	3°/6°

Note: (1) \*stands for the rated capacity when the front tyre is double-tyre. (2) When the front tyre of the 1-1.8t 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	Load Capacity (load center 24inch)			Mast Overall Height (fork to the ground)	Free lifting height(with backrest)	Service Weight(unload)			Mast Tilting angle
		CPCD10 /CP(Q)(Y)D10	CPCD15 /CP(Q)YD15	CPCD18 /CP(Q)YD18			CPCD10 /CP(Q)(Y)D10	CPCD15 /CP(Q)YD15	CPCD18 /CP(Q)YD18	
		in	lb	lb			lb	in	lb	
M200	78.7	2205	3307	3858	58.8	18.8	5512	5908	6195	6°/10°
M250	98.4	2205	3307	3859	68.7	28.7	5578	5975	6261	6°/10°
M300	118	2205	3307	3860	78.5	38.5	5666	6063	6349	6°/10°
M330	130	2205	3307	3861	84.4	44.4	5710	6107	6393	6°/10°
M350	137.8	2205	3307	3862	88.4	48.4	5732	6129	6415	6°/10°
M370	145.7	2205	3307	3863	92.3	52.3	5776	6173	6460	6/6* 6°/12°
M400	157.5	2205	3307	3748*3863	100.2	60.2	5886	6283	6570	6/6* 6°/12°
M425	167.3	2094	3087*3307	3527 * 3863	105.1	65.1	5930	6327	6614	6/6* 6°/12°
M450	177.2	2094	2866*3087	3417 *3748	110	70.1	5975	6371	6658	6/6* 6°/12°
M500	196.9	2050*2094	2205*2976	2425 *3528	119.8	79.9	6041	6437	6724	6/6* 6°/6°
M550	216.5	*1984	*2535	*3307	131.6	91.7	6217	6592	6878	3°/6°
M600	236.2	*1874	*2315	*3087	141.5	101.5	6283	6680	6967	3°/6°

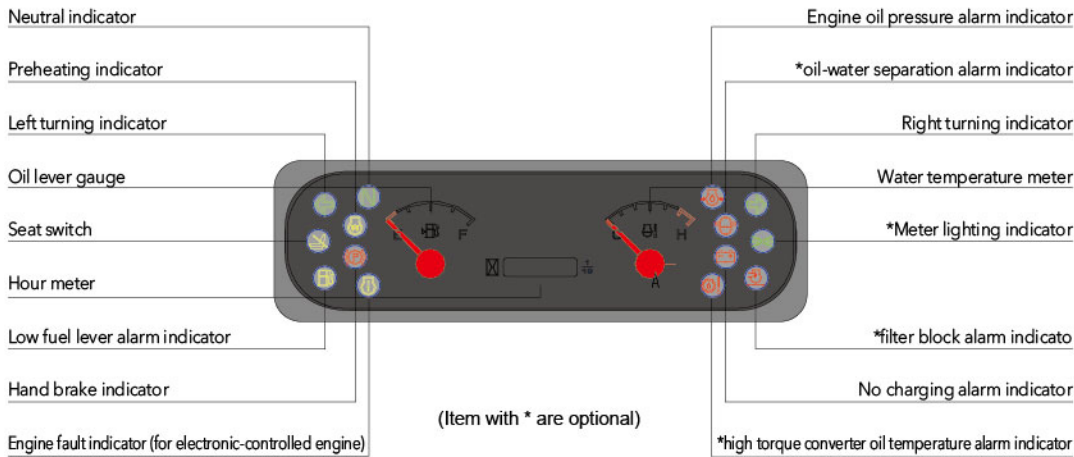
Note: (1) \*stands for the rated capacity when the front tyre is double-tyre.  
 (2) When the front tyre of the 1-1.8t truck is double tyre, the service weight of the truck is the weight in the table plus 50kg.  
 (3) The free lifting height (without backrest) of the 1-1.8t truck is the height (with backrest) in the table plus 379mm.

**WIDE VIEW FULL FREE 3-STAGE MAST**

Mast Model	Max lifting height	Load Capacity (load center 24inch)			Mast Overall Height (fork to the ground)	Free lifting height (with backrest)	Service Weight(unload)			Mast Tilting angle
		CPCD10 /CP(Q)(Y)D10	CPCD15 /CP(Q)YD15	CPCD18 /CP(Q)YD18			CPCD10 /CP(Q)(Y)D10	CPCD15 /CP(Q)YD15	CPCD18 /CP(Q)YD18	
		in	lb	lb			lb	in	lb	
ZSM360	141.7	2205	3197	3858	70.4	30.5	5908	5908	6592	6/6
ZSM400	157.4	2205	3086	3527	75.7	35.8	5975	5975	6658	6/6
ZSM435	171.2	1984*2094	2976*3086	3417*3748	80.3	40.3	6019	6019	6702	6/6
ZSM450	177.2	1984*2094	2866*2976	3307*3638	82.2	42.3	6041	6041	6724	6/6
ZSM470	185.0	1984*2050	2866*2976	3197*3527	85	45.1	6063	6063	6746	6/6
ZSM480	188.9	1984*2028	2425*2976	3086*3483	86.2	46.3	6085	6085	6768	6/6
ZSM500	196.8	1874*1984	2204*2866	2535*3417	90.1	50.2	6129	6129	6812	6/6
ZSM540	212.5	1764*1984	1874*2756	1874*3307	95.1	55.1	6195	6195	6878	3°/6°
ZSM600	236.2	1213*1874	1433*2646	1213*3087	103.9	63.9	6349	6349	7033	3°/6°

Note: (1) \*stands for the rated capacity when the front tyre is double-tyre.  
 (2) When the front tyre of the 1-1.8t 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.

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

## Optional

- Driver's cab
- Warning light
- High air exhausting device (Diesel only)
- Double air cleaner
- Suspension seat
- Lengthening fork extension
- Warm air blower
- Solid tyre
- Widen carriage
- Wind shield
- 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 lpg
- Single/dual fuel system
- Low speed alarm
- Attachments



检测 CNAS L7096

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