

1-3.5t
H3 Series Internal Combustion
Counterbalanced Forklift Truck (Euro Stage V)

STAGE V



ANHUI HELI CO., LTD.
Add / No.668, FangXing Road, Hefei, China
Fax / +86-551-63639966
Tel / +86-551-63639068(America); 63639258(Europe);
63639358(Asia); 63662105(Africa & Middle East)



Linked in



YouTube



Facebook

Design&Print:Fokell Printing / 20240524

* Our products are subject to improvements and changes without notice.



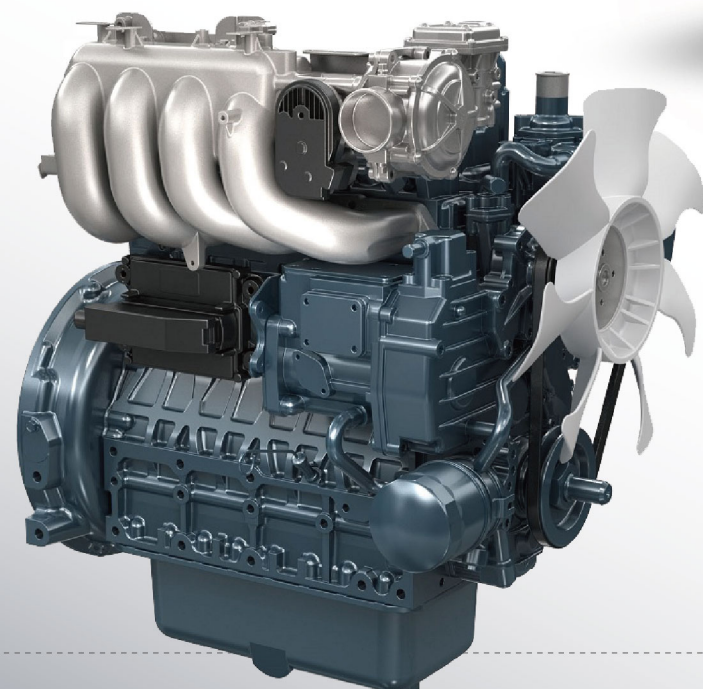
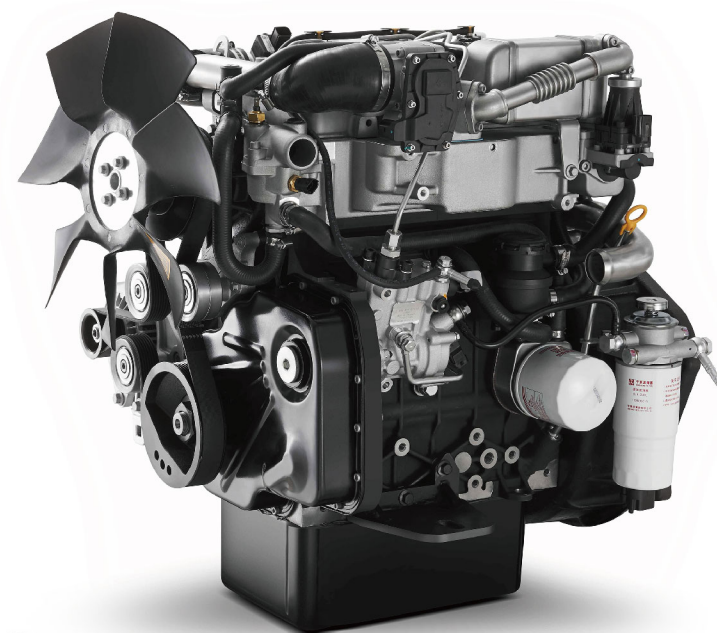
HIGH QUALITY PRODUCT

H3 series is proudly launched adhering to the principle of repaying the society with high quality product and vision of being century-old enterprise. To HELI, the H3 series is the culmination and milestone in pursuit of mastery in the development and manufacture of forklift over the years.

Elaborately built H3 series will provide you high level driving experience with environment friendliness, outstanding comfort, safety and reliability, easy maintenance and excellent working efficiency.

Engine Model:

XINCHAI 3E22YG51(Diesel)



Engine Model:

KUBOTA V2403(Diesel)
KUBOTA V2607(Diesel)
KUBOTA WG2503(GAS/LPG)
GCT GK25(GAS/LPG)



The whole machine adopts the engine conforming to the EU StageV and the American environmental protection standard;

- The diesel engine adopts KUBOTA V2403/V2607 EU StageV and XINCHAI 3E22YG51 EU StageV electronic high pressure common rail engine and DOC + DPF tail gas treatment technology.
- Single/Dual fuel using KUBOTA WG2503 and GCT GK25 electronic high pressure common rail engine, using three catalytic tail gas treatment technology.

Note: DOC — Diesel Oxidation Catalyst. DPF — Diesel Particulate Filters

Safety and reliability

HELI keeps improving truck safety and reliability to ensure the safety of people, machine and goods.



■ ratchet parking brake

■ automobile type oil adding cap structure ■ double-lip elastic sealing gasket

Enhanced Operator Presence System with comprehensive security upgrade

■ Walking on site induction safety system

When the machine is running, the operator will suddenly leave the correct operating position without releasing the accelerator pedal, and the power will be cut off to protect the safety of running.

■ LHS (Load Handling System) on site induction safety system and reset control system

When the operator leaves or returns to the correct operating position without loosening the LHS control device, the operation brought by the LHS operation will be suspended and will not occur automatically, so as to protect the LHS operation safety.

■ LHS (Load Handling System) static control system

When the LHS control device is operated and the engine is started, the operation brought by LHS control will not happen automatically after the engine is started. Only when the LHS control device is reset and then operated can the operation continue.

■ Non-parking security alarm system

When the forklift is not powered off and the driver is not using the parking brake, an audible warning is used to alert the driver.

Improved cooling performance

- The hot air reflow isolating device, aluminum plate-fin type radiator, 60mm backward muffler and optimized thermal dissipation duct improve cooling ability and ensure engine work reliability to meet the requirements of working under harsh and high temperature environment better.
- The hydraulic system adopts high efficiency and low loss technology, comprehensively optimizes the hydraulic piping system and sealing form, and further reduces the pressure loss, hydraulic oil temperature and sealing reliability in the hydraulic system.

Driver restraint warning system

- The vehicle is equipped with driver's safety belt restraint warning system, which makes driving safer.

Key parts

- The optimal design of key parts like frame, mast and overhead guard improve the whole truck's safety and reliability.

Fully-closed panel-mounted cab

- Fully-closed panel-mounted cab with high strength ensures the safety of people and machine fully.

Casting axle

- The key rotation parts are protected from water and dust to extend their maintenance period. With the using of casting axle, the bearing load carrying ability is improved and the truck structure is simple and reliable. The service life is prolonged.



Easy maintenance

Easy maintenance which is good for maintaining the optimal condition of key parts and completed truck and ensures safety and work efficiency is the necessary character of a good product.

Large engine hood opening angle

- Engine hood lock integrated on the hood is convenient for opening and close during maintenance.
- The gas spring has optimized arrangement, improved load carrying ability, opening angle, prolonged gas spring service life and improved opening comfort. 80° engine hood opening angle offers wide operation space for check and maintenance.



■ compositional radiator heat flow baffle



■ brake liquid reservoir



■ mast pipeline

DPF (Diesel Particulate Filters) automatic regeneration

- Euro 5 diesel-powered model is equipped with DPF automatic regeneration function, and the instrument is equipped with DPF blocking quantity display function (equipped with diesel vehicle), which is convenient for maintenance; When running the automatic regeneration program, the engine provides 100% power output. The DPF regeneration program can be interrupted at any time. DPF cleaning interval increased from 3000 hours to 6000 hours.

Low after-sales maintenance cost

- Equipped with Euro V diesel, liquefied gas, dual fuel power configuration to meet the needs of different users.
- Based on the same platform of a variety of fuel (diesel / liquefied gas) configuration scheme, the main parts of the general, low after-sales maintenance cost is low.



Excellent working efficiency

With high efficiency, the truck perfectly guarantees the material handling work at port, dock, and railway station. It can meet the requirements for various kinds of complicated work conditions.

Quick responding steering wheel

- With 100% pivot steering and returning, the truck has good maneuverability in narrow space.
- The truck has small turning radius, easy steering, good gradeability and flexible maneuverability.



Needs of low-temperature areas

- The prototype was tested at -25℃ in the cold storage laboratory to meet the demand for use at this temperature.

Diesel products with large capacity batteries

- Euro V diesel-powered models use large capacity batteries, vehicle start, electricity is more secure.

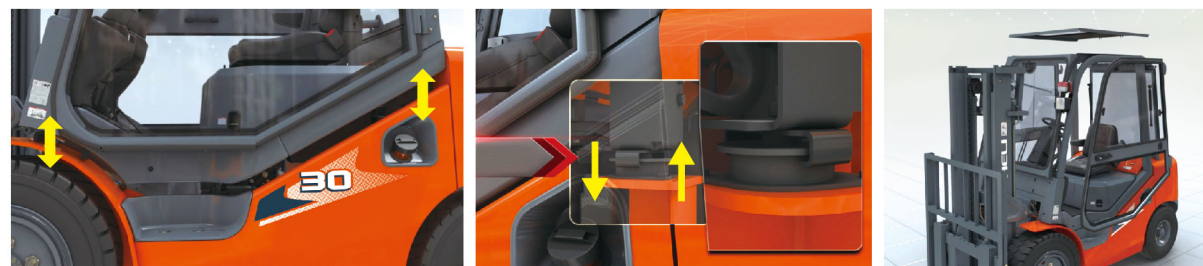


Environment-friendliness

Clean and environment-friendly power meeting international emission standard is assembled on the H3 series to reduce harmful emissions and be environment-friendly. Meanwhile, H3 series effectively reduce truck vibration and noise.

Suspension cab

- Cushion connection between the frame and cab and wholly suspension cab absorb whole truck's vibration effectively. Fully-closed panel-mounted cab isolates the noise.



- suspension cab
- damping support of the suspension cab
- panel-mounted cab

Mast lowering buffering device

- It reduces shock and vibration to the mast and avoids crash noise caused by goods falling to the ground.



- lowering buffering device



Outstanding comfort

Ergonomic designs, optimized operating device structure and layout improve driving experience and ensure long hours of efficient operation.

Enlarged operating space

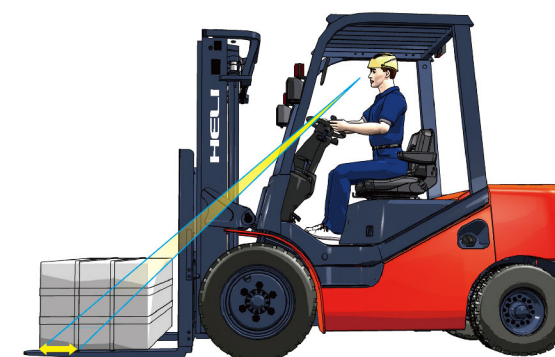
- Tilting cylinder located below the floor board, 30mm widened low anti-skid step and 45% enlarged operation space at foot provide comfort entry, exit and operation.
- 80mm heightened overhead guard and large arc shape of the overhead guard's front leg enlarge operating space and reduce operating fatigue.



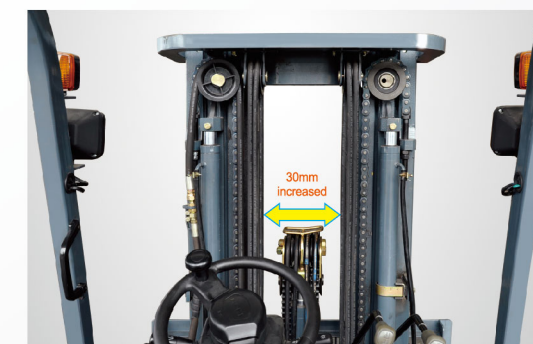
- hidden tilting cylinder
- comfortable space
- comfortable space

Outstanding visibility

- With three-stage free lift mast, front view width is increased by 30mm; with 15mm lowered instrument panel, the visibility of fork and goods is increased by 20mm. CAE optimized counter weight structure improve rear view.



- visibility at the fork tip and goods 20mm increased



- front view 30mm enlarged

LED combined instrument

- With the clear displaying and right installment of the instrument, the operator can know the truck information in time.

Rear assist handle (optional)

- The assist grip with a horn enhances comfort by offering easy horn operation while travelling in reverse.



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		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		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. groung clearance(At the mast)		H5	mm	110						
2.07	Distance from the surface of the seat to the overahead guard		H6	mm	1018						
2.08	Overall length(With fork / Without fork)		(L/L')	mm	3197/2277		3201/2281		3219/2299		
2.09	Wheel base		L1	mm	1450						
2.10	Overall width		W1	mm	1070						
2.11	Tread (Front tread / Rear tread)		(W3/W2)	mm	902/928		902/928		932/928		
2.12	Fork adjustable range(The external of the fork)(Max. / Min.)		W5	mm	950/200						
2.13	Min. turning radius(Exterior)		r	mm	1875		1910		1930		
2.14	Min. right angle aisle width		Ra	mm	2011		2016		2035		
2.15	Min. right angle stacking aisle width		Ast	mm	3576		3584		3603		
2.16	Mast tilting angle		α / β	deg	6/10						
2.17	Fork size		L4×W×T	mm	770×100×32		920×100×35		920×100×35		
Weight											
3.01	Total weight			kg	2540		2720		2850		
Wheel and tyre											
4.01	Tyre type(Front/Rear)						Pneumatic tyre				
4.02	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		
Performance											
Model			CP(Q)YD10	CP(Q)YD15	CP(Q)YD18	CPCD10	CPCD15	CPCD18	CPCD10	CPCD15	CPCD18
Configuration number			KU1H	KU1H	KU1H	KU18H	KU18H	KU18H	XC26H	XC26H	XC26H
Max. drawbar pull (Loaded/Unloaded)		kN	17/7	19/7	19/7	17/7	18/7	18/7	22/8	22/8	22/8
* Max. gradeability (Loaded/Unloaded)		%	40/24	40/20	40/18	40/24	40/20	40/18	48/30	45/25	44/24
Max. traveling speed (Loaded/Unloaded)		km/h	17/18						17/17		
Lifting speed (Loaded/Unloaded)		mm/s	610/650			550/605			565/585		
Lowing speed (Loaded/Unloaded)		mm/s	450/600								
Drive and transmission control device											
Engine model			KUBOTA WG2503			KUBOTA V2403-CE-E5B			XINCHAI 3E22YG51(Three-cylinder)		
Engine rated power		kW/rpm	GAS: 42.8/2600, LPG: 43.5/2600			33.6/2400			44.8/2400		
Engine rated torque		Nm/rpm	GAS: 163/1800, LPG: 173 7/1400			157.4/1500			210/1600-1800		
Engine cylinder number-borexstroke			4-88×102.4			4-87×102.4			3-94x107		
Engine displancement		L	2.491			2.434			2.23		
Engine type			GAS/LPG			Diesel			Diesel		
Emission			EU StageV / EPA/CARB Tier3			EU StageV / EPA/CARB Tier4			EU StageV		
Battery (Voltage/Capacity)		V/Ah	12/60			12/95			12/80		

Note: *indicates the theoretical calculation value.

1t/1.5t/1.8t H3 series internal combustion forklift mast configuration table											
Mast type	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)	Mast tilt angle α/β (°)	Service weight (kg)		
			1t	1.5t	1.8t				1t	1.5t	1.8t
Wide View Standard Mast	M200	2000	1000	1500	1800	1495	-	6/12	2470	2650	2780
	M250	2500	1000	1500	1800	1745	-	6/12	2510	2680	2810
	M300	3000	1000	1500	1800	1995	-	6/12	2540	2720	2850
	M330	3300	1000	1500	1800	2145	-	6/12	2560	2740	2870
	M350	3500	1000	1500	1800	2245	-	6/12	2580	2750	2880
	M370	3700	1000	1500	1800	2345	-	6/12	2590	2770	2900
	M400	4000	1000	1500	*1750	2545	-	6/12	2650	2830	2960
	M425	4250	950	*1400	*1700	2670	-	6/6	2660	2840	2970
	M450	4500	950	*1300	*1550	2795	-	6/6	2680	2860	2990
	M500	5000	900	*1050	*1350	3045	-	*6/6	2720	2900	3030
	M550	5500	*900	*1150	*1500	3345	-	*6/6	2790	2970	3100
	M600	6000	*850	*1050	*1400	3595	-	*6/6	2820	3000	3130
Wide View Full Free 2-Stage Mast	ZM200	2000	1000	1500	1800	1495	480	6/12	2500	2680	2810
	ZM250	2500	1000	1500	1800	1745	730	6/12	2530	2710	2840
	ZM300	3000	1000	1500	1800	1995	980	6/12	2570	2750	2880
	ZM330	3300	1000	1500	1800	2145	1130	6/12	2590	2770	2900
	ZM350	3500	1000	1500	1800	2245	1230	6/12	2600	2780	2910
	ZM370	3700	1000	1500	1800	2345	1330	6/12	2620	2800	2930
	ZM400	4000	1000	1500	*1750	2545	1530	6/12	2670	2850	2980
	ZM425	4250	950	*1400	*1700	2670	1655	6/6	2690	2870	3000
	ZM450	4500	950	*1300	*1550	2795	1780	6/6	2710	2890	3020
	ZM500	5000	900	*1050	*1350	3045	2030	*6/6	2740	2920	3050
	ZM550	5500	*900	*1150	*1500	3345	2330	*6/6	2820	2990	3120
	ZM600	6000	*850	*1050	*1400	3595	2580	*6/6	2850	3030	3160
Wide View Full Free 3-Stage Mast	ZSM360	3600	1000	1500	*1800	1790	775	*6/6	2680	2860	2990
	ZSM400	4000	*1000	*1450	*1650	1925	910	*6/6	2710	2890	3020
	ZSM430	4350	950	*1400	*1600	2040	1025	*6/6	2730	2910	3040
	ZSM450	4500	*1000	*1500	*1700	2090	1075	*6/6	2740	2920	3050
	ZSM470	4700	900	*1300	*1500	2160	1145	*6/6	2750	2930	3060
	ZSM480	4800	*1000	*1200	*1500	2190	1175	*6/6	2760	2940	3070
	ZSM500	5000	*1000	*1000	*1150	2290	1275	*6/6	2780	2960	3090
	ZSM540	5400	*1000	*950	*1050	2415	1400	*6/6	2810	2990	3120
	ZSM600	6000	*900	*1150	*1400	2640	1625	*6/6	2880	3060	3190

Note: Wide View Standard Mast

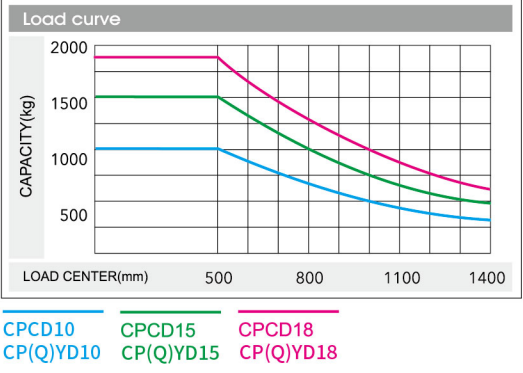
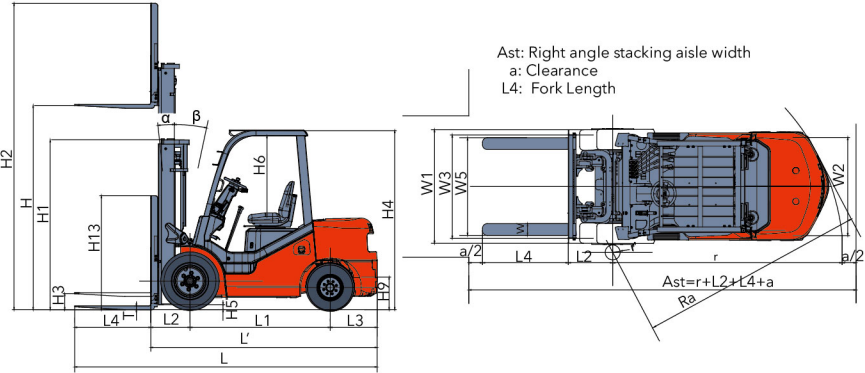
- (1) rated capacity with (*); shows capacity with front dual tires.
(2) max. Lifting height without lift-bracket: 395mm.

Wide View Full Free 2-Stage Mast

- (1) Max. Lifting height without lift-bracket: 379mm.
(2) Max. Lifting height without lift-bracket: 379mm.
(3) Rated capacity with (*); shows capacity with front dual tires.

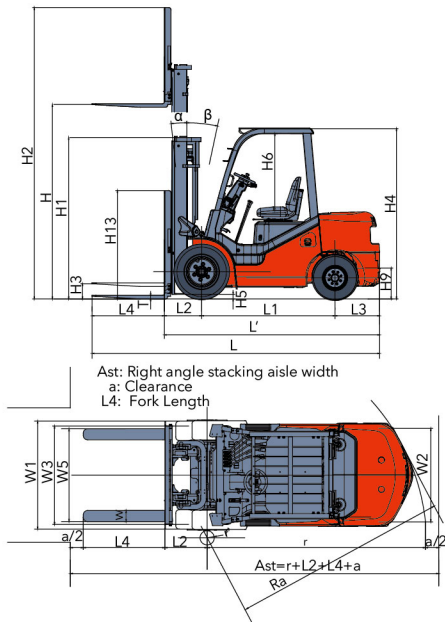
Wide View Full Free 3-Stage Mast

- (1) Max. Lifting height without lift-bracket: 484mm.
(2) Max. Lifting height without lift-bracket: 484mm.
(3) Rated capacity with (*); shows capacity with front dual tires.





Manufacturer and technical parameters							
Character							
1.01	Manufacturer			HELI			
1.02	Model			CPCD20 / CP(Q)YD20	CPCD25 / CP(Q)YD25	CPCD30 / CP(Q)YD30	CPCD35 / CP(Q)YD35
1.03	Rated capacity		kg	2000	2500	3000	3500
1.04	Load center		mm	500			
1.05	Operation mode			Seat-type			
Size							
2.01	Max. lifting height	H	mm	3000	3000	3000	3000
2.02	Mast overall height(Fork to the ground and mast be vertical)	H1	mm	2000	2000	2065	2180
2.03	Max.fork lifting height(With backrest)	H2	mm	4030	4030	4245	4235
2.04	Free lift height	H3	mm	165	165	160	170
2.05	Overall height(Overhead guard)	H4	mm	2150	2150	2170	2170
2.06	Min. ground clearance(At the mast)	H5	mm	115	115	135	135
2.07	Distance from the surface of the seat to the overahead guard	H6	mm	1030	1030	1030	1030
2.08	Overall length(With fork / Without fork)	(L/L')	mm	3500/2580	3708/2638	3818/2748	3836/2766
2.09	Wheel base	L1	mm	1650	1650	1700	1700
2.10	Overall width	W1	mm	1150	1150	1225	1225
2.11	Tread (Front tread / Rear tread)	(W3/W2)	mm	970/970	970/970	1000/970	1000/970
2.12	Fork adjustable range(The external of the fork)(Max. / Min.)	W5	mm	1030/244	1030/244	1060/250	1060/250
2.13	Min. turning radius(Exterior)	r	mm	2170	2240	2400	2420
2.14	Min. right angle stacking aisle width	Ra	mm	2200	2280	2380	2400
2.15	Mast tilting angle	α / β	deg	6/12	6/12	6/12	6/12
2.16	Fork size	L4×W×T	mm	920×122×40	1070×122×40	1070×125×45	1070×125×50
Weight							
3.01	Total weight		kg	3370	3740	4340	4700
Wheel and tyre							
4.01	Tyre type(Front/Rear)			Pneumatic tyre			
4.02	Tyre size(Front/Rear)			7.00-12-12PR/ 6.00-9-10PR	7.00-12-12PR/ 6.00-9-10PR	28×9-15-14PR/ 6.50-10-10PR	28×9-15-14PR/ 6.50-10-10PR





2t/2.5t H3 series internal combustion forklift mast configuration table

Mast type	Mast model	Max. lifting height (mm)	Load capacity (load center 500mm)(kg)		Free lifting height(mm)		Mast overall height (mm)			Mast tilt angle α/β (°)	Service weight (kg)	
					Without Backrest	With Backrest	Height (mast lowered)	Height (mast Lifted)				
								WithoutBackrest	With Backrest			
			2t	2.5t	2-2.5t	2-2.5t	2-2.5t	2-2.5t	2-2.5t		2t	2.5t
Wide View Standard Mast	M200	2000	2000	2500	165	165	1500	2571	3039	6-12	3280	3650
	M250	2500	2000	2500	165	165	1800	3071	3539	6-12	3330	3700
	M300	3000	2000	2500	165	165	2000	3571	4039	6-12	3370	3740
	M330	3300	2000	2500	165	165	2150	3871	4339	6-12	3400	3770
	M350	3500	2000	2500	165	165	2250	4071	4539	6-12	3420	3790
	M370	3700	2000	2500	165	165	2350	4271	4739	6-12	3430	3800
	M400	4000	2000	2400	165	165	2550	4571	5039	6-12	3510	3880
	M425	4250	2000	²³⁰⁰ _{*2500}	165	165	2675	4821	5289	⁶⁻⁶ _{*6-12}	3530	3900
	M450	4500	¹⁹⁰⁰ _{*1900}	²³⁰⁰ _{*2400}	165	165	2800	5071	5539	⁶⁻⁶ _{*6-12}	3560	3930
	M500	5000	¹⁷⁵⁰ _{*1800}	²³⁰⁰ _{*2300}	165	165	3050	5571	6039	⁶⁻⁶ _{*6-12}	3600	3970
	M550	5500	¹³⁰⁰ _{*1750}	¹³⁵⁰ _{*2100}	165	165	3350	6071	6539	⁶⁻⁶ _{*6-6}	3700	4070
	M600	6000	⁹⁵⁰ _{*1600}	¹⁰⁰⁰ _{*1800}	165	165	3600	6571	7039	⁶⁻⁶ _{*6-6}	3740	4110
Wide View Full Free 2-Stage Mast	ZM200	2000	2000	2500	957	495	1500	2577	3039	6-12	3300	3670
	ZM250	2500	2000	2500	1207	745	1800	3077	3539	6-12	3360	3730
	ZM300	3000	2000	2500	1457	995	2000	3577	4039	6-12	3430	3800
	ZM330	3300	2000	2500	1607	1145	2150	3877	4339	6-12	3470	3840
	ZM350	3500	2000	2500	1707	1245	2250	4077	4539	6-12	3500	3870
	ZM370	3700	2000	2500	1807	1345	2350	4277	4739	6-12	3520	3890
	ZM400	4000	2000	2400	2007	1545	2550	4577	5039	6-12	3610	3980
	ZM425	4250	2000	²³⁰⁰ _{*2500}	2132	1670	2675	4828	5290	⁶⁻⁶ _{*6-12}	3650	4020
	ZM450	4500	¹⁹⁰⁰ _{*1900}	²³⁰⁰ _{*2400}	2257	1795	2800	5077	5539	⁶⁻⁶ _{*6-12}	3680	4050
	ZM500	5000	¹⁷⁵⁰ _{*1800}	²³⁰⁰ _{*2300}	2507	2045	3050	5577	6039	⁶⁻⁶ _{*6-12}	3750	4120
	ZM550	5500	¹³⁰⁰ _{*1750}	¹³⁵⁰ _{*2100}	2807	2345	3350	6077	6539	⁶⁻⁶ _{*6-6}	3860	4230
	ZM600	6000	⁹⁵⁰ _{*1600}	¹⁰⁰⁰ _{*1800}	3057	2595	3600	6577	7039	⁶⁻⁶ _{*6-6}	3930	4300
Wide View Full Free 3-Stage Mast	ZSM360	3600	2000	2500	1258	795	1795	4176	4639	6-6	3520	3890
	ZSM400	4000	2000	2400	1383	920	1920	4576	5039	6-6	3550	3920
	ZSM435	4350	¹⁹⁵⁰ _{*1950}	²³⁰⁰ _{*2400}	1508	1045	2045	4926	5389	⁶⁻⁶ _{*6-6}	3580	3950
	ZSM450	4500	¹⁹⁰⁰ _{*1900}	²³⁰⁰ _{*2400}	1558	1095	2095	5076	5539	⁶⁻⁶ _{*6-6}	3600	3970
	ZSM470	4700	¹⁸⁵⁰ _{*1850}	²¹⁵⁰ _{*2350}	1623	1160	2160	5276	5739	⁶⁻⁶ _{*6-6}	3610	3980
	ZSM480	4800	¹⁸⁵⁰ _{*1850}	¹⁹⁵⁰ _{*2350}	1658	1195	2195	5376	5839	⁶⁻⁶ _{*6-6}	3620	3990
	ZSM500	5000	¹⁷⁵⁰ _{*1800}	¹⁷⁵⁰ _{*2300}	1758	1295	2295	5576	6039	⁶⁻⁶ _{*6-6}	3650	4020
	ZSM540	5400	¹⁴⁰⁰ _{*1750}	¹⁵⁰⁰ _{*2150}	1883	1420	2420	5976	6439	³⁻⁶ _{*3-6}	3680	4050
	ZSM600	6000	⁹⁵⁰ _{*1600}	¹⁰⁰⁰ _{*1800}	2108	1645	2645	6576	7039	³⁻⁶ _{*3-6}	3780	4150
	ZSM650	6500	⁷⁰⁰ _{*1550}	⁷⁰⁰ _{*1700}	2273	1825	2835	7091	7539	³⁻³ _{*3-3}	3830	4200
	ZSM700	7000	⁴⁰⁰ _{*1250}	⁴⁵⁰ _{*1250}	2543	2095	3105	7591	8039	³⁻³ _{*3-3}	3900	4270

Note: (1) *stands for the rated capacity when the front tyre is double-tyre.
(2) When the front tyre of the 2-3.5t truck is double tyre, the service weight of the truck is the weight in the table plus 110kg.
(3) The free lifting height (without backrest) of the 2-2.5t truck is the height (with backrest) in the table plus 432mm. The free lifting height (without backrest) of the 3t truck is the height (with backrest) in the table plus 568mm. The free lifting height (without backrest) of the 3.5t truck is the height (with backrest) in the table plus 505mm.

3t/3.5t H3 series internal combustion forklift mast configuration table

Mast type	Mast model	Max. lifting height (mm)	Load capacity (load center 500mm)(kg)		Free lifting height (mm)				Mast overall height (mm)						Mast tilt angle α/β (°)	Service weight (kg)	
					Without Backrest		With Backrest		Height (mast lowered)		Height (mast Lifted)						
											WithoutBackrest		With Backrest				
			3t	3.5t	3t	3.5t	3t	3.5t	3t	3.5t	3t	3.5t	3t	3.5t		3t	3.5t
Wide View Standard Mast	M200	2000	3000	3500	165	170	165	170	1565	1680	2667	2757	3218	3218	6-12	4250	4610
	M250	2500	3000	3500	165	170	165	170	1815	1930	3167	3257	3718	3718	6-12	4300	4650
	M300	3000	3000	3500	165	170	165	170	2065	2180	3667	3757	4218	4218	6-12	4340	4700
	M330	3300	3000	3500	165	170	165	170	2215	2330	3967	4057	4518	4518	6-12	4360	4730
	M350	3500	3000	3500	165	170	165	170	2315	2430	4167	4257	4718	4718	6-12	4380	4750
	M370	3700	3000	3500	165	170	165	170	2415	2530	4367	4457	4918	4918	6-12	4400	4760
	M400	4000	3000	3450	165	170	165	170	2615	2730	4667	4757	5218	5218	6-12	4490	4840
	M425	4250	²⁹⁵⁰ _{*3000}	³³⁵⁰ _{*3400}	165	170	165	170	2740	2855	4917	5007	5468	5468	⁶⁻⁶ _{*6-12}	4510	4870
	M450	4500	²⁸⁵⁰ _{*2900}	³²⁰⁰ _{*3300}	165	170	165	170	2865	2980	5167	5257	5718	5718	⁶⁻⁶ _{*6-12}	4540	4900
	M500	5000	²⁶⁵⁰ _{*2750}	³⁰⁰⁰ _{*3150}	165	170	165	170	3115	3230	5667	5757	6218	6218	⁶⁻⁶ _{*6-12}	4580	4950
	M550	5500	²¹⁰⁰ _{*2500}	²³⁰⁰ _{*2800}	165	170	165	170	3415	3530	6167	6257	6718	6718	⁶⁻⁶ _{*6-6}	4690	4990
	M600	6000	¹⁵⁰⁰ _{*2100}	¹⁸⁵⁰ _{*2400}	165	170	165	170	3665	3780	6667	6757	7218	7218	⁶⁻⁶ _{*6-6}	4730	5040
Wide View Full Free 2-Stage Mast	ZM200	2000	3000	3500	884	921	340	460	1570	1680	2668	2758	3212	3219	6-12	4270	4660
	ZM250	2500	3000	3500	1134	1171	590	710	1820	1930	3168	3258	3712	3719	6-12	4310	4700
	ZM300	3000	3000	3500	1384	1421	840	960	2070	2180	3668	3758	4212	4219	6-12	4360	4750
	ZM330	3300	3000	3500	1534	1571	990	1110	2220	2330	3968	4058	4512	4519	6-12	4390	4780
	ZM350	3500	3000	3500	1634	1671	1090	1210	2320	2430	4168	4258	4712	4719	6-12	4410	4800
	ZM370	3700	3000	3500	1734	1771	1190	1310	2420	2530	4368	4458	4912	4919	6-12	4430	4810
	ZM400	4000	3000	3450	1934	1971	1390	1510	2620	2730	4668	4752	5212	5213	6-12	4500	4890
	ZM425	4250	²⁹⁵⁰ _{*3000}	³³⁵⁰ _{*3400}	2059	2096	1515	1635	2745	2855	4919	5007	5463	5468	⁶⁻⁶ _{*6-12}	4530	4920
	ZM450	4500	²⁸⁵⁰ _{*2900}	³²⁰⁰ _{*3300}	2184	2221	1640	1760	2870	2980	5168	5258	5712	5719	⁶⁻⁶ _{*6-12}	4550	4960
	ZM500	5000	²⁶⁵⁰ _{*2750}	³⁰⁰⁰ _{*3150}	2434	2471	1890	2010	3120	3230	5668	5758	6212	6219	⁶⁻⁶ _{*6-12}	4600	5000
	ZM550	5500	²¹⁰⁰ _{*2500}	²³⁰⁰ _{*2800}	2734	2771	2190	2310	3420	3530	6168	6258	6712	6719	⁶⁻⁶ _{*6-6}	4690	5040
	ZM600	6000	¹⁵⁰⁰ _{*2100}	¹⁸⁵⁰ _{*2400}	2984	3021	2440	2560	3670	3780	6668	6758	7212	7219	⁶⁻⁶ _{*6-6}	4740	5090
Wide View Full Free 3-Stage Mast	ZSM360	3600	3000	3400	1230	1215	705	710	1946	1946	4291	4311	4816	4816	6-6	4510	4770
	ZSM400	4000	2950	3350	1355	1340	830	835	2065	2065	4693	4713	5218	5218	6-6	4540	4800
	ZSM435	4350	²⁹⁰⁰ _{*2950}	³³⁰⁰ _{*3300}	1480	1465	955	960	2190	2190	5041	5061	5566	5566	⁶⁻⁶ _{*6-6}	4580	4840
	ZSM450	4500	²⁸⁵⁰ _{*2900}	³²⁰⁰ _{*3300}	1530	1515	1005	1010	2240	2240	5191	5211	5716	5716	⁶⁻⁶ _{*6-6}	4590	4850
	ZSM470	4700	²⁸⁰⁰ _{*2850}	³¹⁵⁰ _{*3200}	1530	1515	1005	1010	2240	2240	5341	5361	5866	5866	⁶⁻⁶ _{*6-6}	4590	4850
	ZSM480	4800	²⁷⁵⁰ _{*2800}	³⁰⁵⁰ _{*3200}	1630	1615	1105	1110	2340	2340	5491	5511	6016	6016	⁶⁻⁶ _{*6-6}	4620	4880
	ZSM500	5000	²⁶⁵⁰ _{*2750}	³⁰⁰⁰ _{*3150}	1730	1715	1205	1210	2440	2440	5691	5711	6216	6216	⁶⁻⁶ _{*6-6}	4640	4910
	ZSM540	5400	²²⁵⁰ _{*2650}	²⁶⁰⁰ _{*3050}	1855	1840	1330	1335	2565	2565	6095	6115	6620	6620	³⁻⁶ _{*3-6}	4680	4940
	ZSM600	6000	¹⁵⁰⁰ _{*2100}	¹⁸⁵⁰ _{*2400}	2080	2065	1555	1560	2790	2790	6693	6713	7218	7218	³⁻⁶ _{*3-6}	4780	5040
	ZSM650	6500	¹⁰⁵⁰ _{*1900}	¹⁰⁵⁰ _{*1950}	2306	2371	1798	1863	2980	2980	7214	7214	7722	7722	^{3/3} _{*3/3}	4810	5090
	ZSM700	7000	⁷⁵⁰ _{*1500}	¹⁰⁰⁰ _{*1550}	2576	2641	2068	2133	3250	3250	7714	7714	8222	8222	^{3/3} _{*3/3}	4880	5160