HELI
LIFTING THE FUTURE

1-3.5t

H3 Series Internal Combustion Counterbalanced Forklift Truck (Euro Stage V)

www.heliforklift.net

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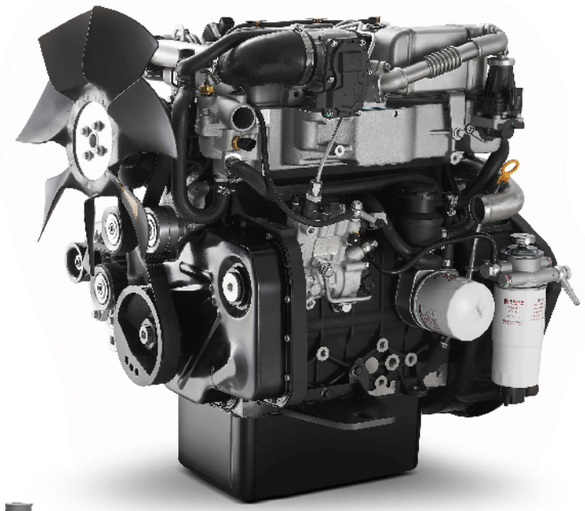
HIGH QUALITY
PRODUCT

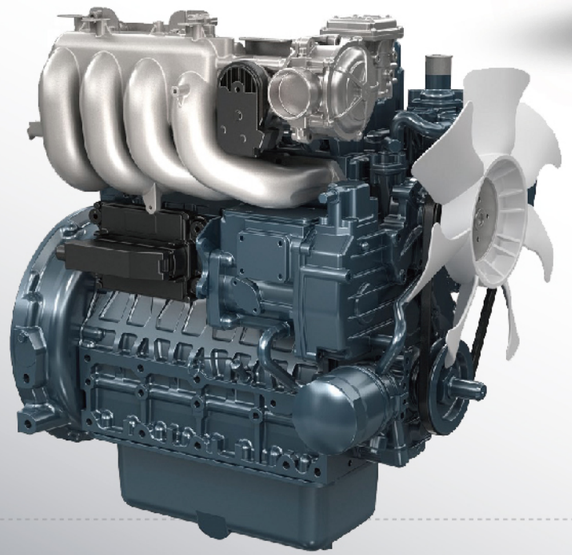
H3 series is proudly launched adhering to the principle of repaying the society with high quality product and vision of being century-old enterprise. To HELI, the H3 series is the culmination and milestone in pursuit of mastery in the development and manufacture of forklift over the years.

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)

STAGE V

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.

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.

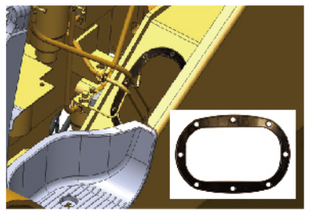
Casting axle

- 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.

STAGE V

▪ ratchet parking brake

▪ automobile type oil adding cap structure



▪ double-lip elastic sealing gasket

Enhanced Operator Presence System with comprehensive security upgrade

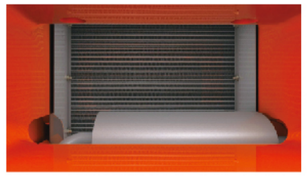
- **Walking on site induction safety system**
  When the machine is running, the operator will suddenly leave the correct operating position without releasing the accelerator pedal, and the power will be cut off to protect the safety of running.
- **LHS（Load Handling System）on site induction safety system 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.

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

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.

▪ brake liquid reservoir

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.

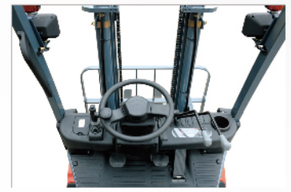
▪ mast pipeline

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.

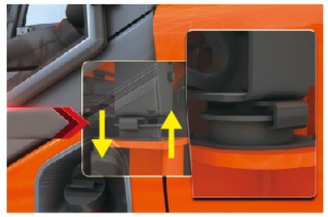
Environment-friendliness

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

STAGE V

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-skidded 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

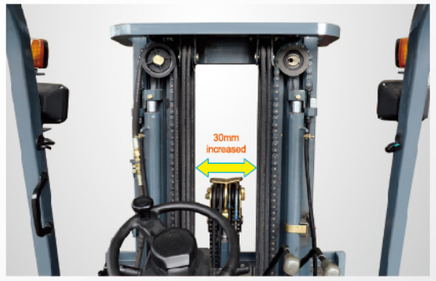
▪ comfortable space

▪ 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

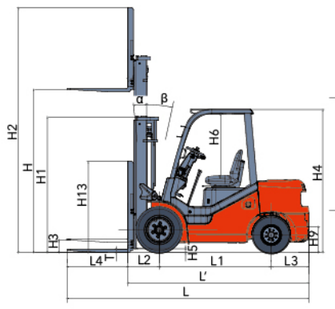
Performance										
Model		CP(Q)YD10	CP(Q)YD15	CP(Q)YD18	CPCD10	CPCD15	CPCD18	CPCD10	CPCD15	CPCD18
Configuration number		KU1H	KU1H	KU1H	KU18H	KU18H	KU18H	XC26H	XC26H	XC26H
Max. drawbar pull (Loaded/Unloaded)	kN	17/7	19/7	19/7	17/7	18/7	18/7	22/8	22/8	22/8
* Max. gradeability (Loaded/Unloaded)	%	40/24	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 displacement	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		

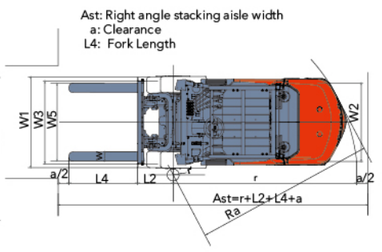
Note: *indicates the theoretical calculation value.

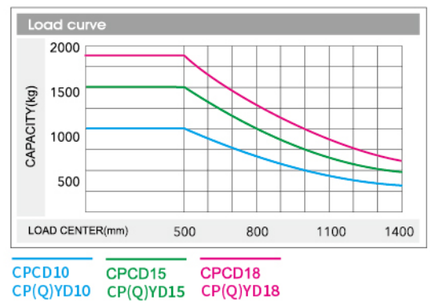
1t/1.5t/1.8t H3 series internal combustion forklift mast configuration table

Mast type	Mast model	Max. lifting height (mm)	Load capacity (load center 500mm) (kg)			Free lift height (mm)				Height (mm)						Mast tilt angle α/β (°)	Service weight (kg)		
										Height (mast lowered)		Height (mast Lifted)							
						Without Backrest	Without Backrest	With Backrest	With Backrest	without backrest/ with backrest		Without Backrest	Without Backrest	With Backrest	With Backrest				
			1t	1.5t	1.8t	1t	1.5-1.8t	1t	1.5-1.8t	1t	1.5-1.8t	1t	1.5-1.8t	1t	1.5-1.8t		1t	1.5t	1.8t
Wide View Standard Mast	M200	2000	1000	1500	1800	152	155	152	155	1495	1495	2644	2644	3039	3039	6-10	2470	2650	2780
	M250	2500	1000	1500	1800	152	155	152	155	1745	1745	3144	3144	3539	3539	6-10	2510	2680	2810
	M300	3000	1000	1500	1800	152	155	152	155	1995	1995	3644	3644	4039	4039	6-10	2540	2720	2850
	M330	3300	1000	1500	1800	152	155	152	155	2145	2145	3944	3944	4339	4339	6-10	2560	2740	2870
	M350	3500	1000	1500	1800	152	155	152	155	2245	2245	4144	4144	4539	4539	6-10	2580	2750	2880
	M370	3700	1000	1500	1800	152	155	152	155	2345	2345	4344	4344	4739	4739	6-10	2590	2770	2900
	M400	4000	1000	1500	1800	152	155	152	155	2545	2545	4644	4644	5039	5039	6-10	2650	2830	2960
	M425	4250	950	*1400/*1500	*1650/*1750	152	155	152	155	2670	2670	4894	4894	5289	5289	6-6/*6-12	2660	2840	2970
	M450	4500	950	*1300/*1400	*1550/*1700	152	155	152	155	2795	2795	5144	5144	5539	5539	6-6/*6-12	2680	2860	2990
	M500	5000	*930/*950	*1000/*1350	*1100/*1600	152	155	152	155	3045	3045	5644	5644	6039	6039	6-6/*6-6	2720	2900	3030
	M550	5500	*900	*1150	*1500	152	155	152	155	3345	3345	6144	6144	6539	6539	*3-6	2790	2970	3100
	M600	6000	*850	*1050	*1400	152	155	152	155	3595	3595	6644	6644	7039	7039	*3-6	2820	3000	3130
Wide View Full Free 2-Stage Mast	ZM200	2000	2000	2500	3000	859	859	480	480	1495	1495	2660	2660	3039	3039	6-12	2500	2680	2810
	ZM250	2500	2000	2500	3000	1109	1109	730	730	1745	1745	3160	3160	3539	3539	6-12	2530	2710	2840
	ZM300	3000	2000	2500	3000	1359	1359	980	980	1995	1995	3660	3660	4039	4039	6-12	2570	2750	2880
	ZM330	3300	2000	2500	3000	1509	1509	1130	1130	2145	2145	3960	3960	4339	4339	6-12	2590	2770	2900
	ZM350	3500	2000	2500	3000	1609	1609	1230	1230	2245	2245	4160	4160	4539	4539	6-12	2600	2780	2910
	ZM370	3700	2000	2500	3000	1709	1709	1330	1330	2345	2345	4360	4360	4739	4739	6-12	2620	2800	2930
	ZM400	4000	*1950/*2000	*2350/*2500	*2900/*3000	1909	1909	1530	1530	2545	2545	4660	4660	5039	5039	6-6/*6-12	2670	2850	2980
	ZM425	4250	*1900/*2000	*2200/*2500	*2900/*3000	2034	2034	1655	1655	2670	2670	4910	4910	5289	5289	6-6/*6-12	2690	2870	3000
	ZM450	4500	*1700/*1900	*1950/*2400	*2700/*3000	2159	2159	1780	1780	2795	2795	5160	5160	5539	5539	6-6/*6-12	2710	2890	3020
	ZM500	5000	*1500/*1700	*1700/*2200	*2450/*2650	2409	2409	2030	2030	3045	3045	5660	5660	6039	6039	6-6/*6-6	2740	2920	3050
	ZM550	5500	*1600	*2000	*2400	2709	2709	2330	2330	3345	3345	6160	6160	6539	6539	*6-6	2820	2990	3120
	ZM600	6000	*1500	*1750	*2100	2959	2959	2580	2580	3595	3595	6660	6660	7039	7039	*6-6	2850	3030	3160
Wide View Full Free 3-Stage Mast	ZSM360	3600	2000	2400	2900	1259	1259	775	775	1795	1930	4155	4291	4639	4816	6-6	2680	2860	2990
	ZSM400	4000	1900	2350	2900	1394	1394	910	910	1920	2055	4555	4693	5039	5218	6-6	2710	2890	3020
	ZSM435	4350	*1850/*1900	*2150/*2400	*2800/*2900	1509	1509	1025	1025	2045	2180	4905	5041	5389	5566	6-6/*6-6	2730	2910	3040
	ZSM450	4500	*1700/*1800	*1950/*2300	*2650/*2850	1559	1559	1075	1075	2095	2230	5055	5191	5539	5716	6-6/*6-6	2740	2920	3050
	ZSM470	4700	*1600/*1800	*1900/*2300	*2600/*2800	1629	1629	1145	1145	2160	2230	5265	5341	5749	5866	6-6/*6-6	2750	2930	3060
	ZSM480	4800	*1500/*1800	*1900/*2300	*2550/*2750	1659	1659	1175	1175	2195	2330	5355	5491	5839	6016	6-6/*6-6	2760	2940	3070
	ZSM500	5000	*1400/*1650	*1600/*2100	*2250/*2700	1759	1759	1275	1275	2295	2430	5555	5691	6039	6216	6-6/*6-6	2780	2960	3090
	ZSM540	5400	*1300/*1600	*1450/*2000	*2100/*2500	1884	1884	1400	1400	2420	2555	5955	6095	6439	6620	3-6/*3-6	2810	2990	3120
	ZSM600	6000	*1400	*1700	*2050	2109	2109	1625	1625	2645	2780	6555	6693	7039	7218	*3-6	2880	3060	3190

Note: *stands for the rated capacity when the front tyre is double-tyre.

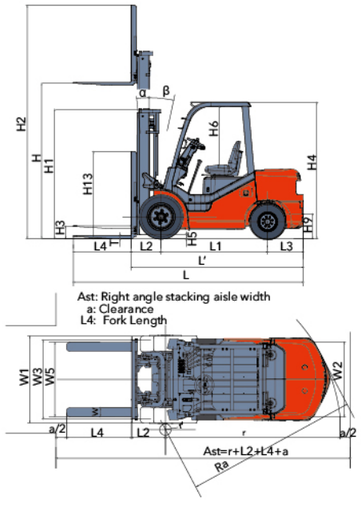


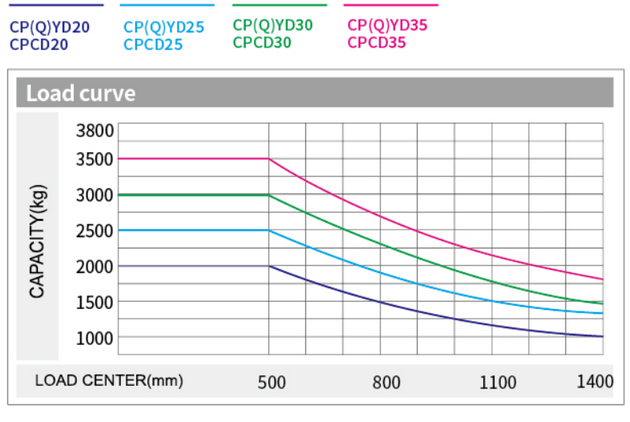




Manufacturer and technical parameters

	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. groung 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





Performance							
Model		CP(Q)YD20	CP(Q)YD25	CPCD20	CPCD25	CPCD20	CPCD25
Configuration number		KU1H	KU1H	KU20H	KU20H	XC26H	XC26H
Max.drawbar pull (Loaded/Un loaded)	kN	24/13	24/14	20/13	20/13	25/11	25/13
* Max.Gradeability (Loaded/Unloaded)	%	30/26	29/22	32/25	29/23	39/28	35/24
Max.traveling speed (Loaded/Unloaded)	km/h	17/18	17/18	17/17	17/17	17/18	17/18
Lifting Speed (Loaded/Unloaded)	mm/s	535/600	535/600	570/585	570/585	530/540	530/540
Lowing Speed (Loaded/Unloaded)	mm/s	450/500	450/500	450/500	450/500	450/500	450/500
Drive and transmission control device							
Engine mode		KUBOTA WG2503		KUBOTA V2403-CR-TE5B		XINCHAI 3E22YG51	
Engine rated power	kW/rpm	GAS:42.8/2600, LPG:43.5/2600		42.6/2400		44.8/2400	
Engine rated torque	Nm/rpm	GAS:163/1800, LPG:173.7/1400		195.6/1500		210/1600-1800	
Cylinder number-Bore×stroke		4-88×102.4		4-87×102.4		3-94×107	
Engine displacement	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	

Performance							
Model		CP(Q)YD30	CP(Q)YD35	CP(Q)YD20	CP(Q)YD25	CP(Q)YD30	CP(Q)YD35
Configuration number		KU1H	KU1H	RC5H	RC5H	RC5H	RC5H
Max.drawbar pull (Loaded/Un loaded)	kN	23/15	22/16	24/13	24/14	23/15	22/16
* Max.Gradeability (Loaded/Unloaded)	%	28/22	18/21	30/21	29/22	28/22	18/21
Max.traveling speed (Loaded/Unloaded)	km/h	18/19	18/19	17/18	17/18	18/19	18/19
Lifting Speed (Loaded/Unloaded)	mm/s	455/540	360/400	535/600	535/600	455/540	360/400
Lowing Speed (Loaded/Unloaded)	mm/s	450/500	350/400	450/500	450/500	450/500	350/400
Drive and transmission control device							
Engine mode		KUBOTA WG2503		GCT GK25			
Engine rated power	kW/rpm	GAS:42.8/2600, LPG:43.5/2600		GAS: 44/2600 LPG: 47/2600			
Engine rated torque	Nm/rpm	GAS:163/1800, LPG:173.7/1400		GAS: 168/1600 LPG: 190/1600			
Cylinder number-Bore×stroke		4-88×102.4		4-89x100			
Engine displacement	L	2.491		2.488			
Engine type		GAS/LPG		Gas/LPG			
Emission		EU StageV / EPA/CARB Tier3		EU StageV / EPA/CARB Tier3			
Battery(Voltage/Capacity)	V/Ah	12/60		12/60			

Performance								
Model		CPCD30	CPCD35	CPCD30	CPCD35	CPCD20	CPCD25	CPCD30
Configuration number		KU20H	KU20H	XC26H	XC26H	KU21H	KU21H	KU21H
Max.drawbar pull (Loaded/Un loaded)	kN	20/14	21/15	24/15	23/15	20/11.3	20/12	19.5/13.4
* Max.Gradeability (Loaded/Unloaded)	%	27/21	27/22	34/24	30/23	30/24	26/22	22/21
Max.traveling speed (Loaded/Unloaded)	km/h	18/19	18/19	18/18	18/18	17/18	17/18	18/19
Lifting Speed (Loaded/Unloaded)	mm/s	480/500	430/460	470/480	440/455	565/585	565/585	480/500
Lowing Speed (Loaded/Unloaded)	mm/s	450/550	450/550	450/550	450/550	450/500	450/500	450/550
Drive and transmission control device								
Engine mode		KUBOTA V2403-CR-TE5B		XINCHAI 3E22YG51		KUBOTA V2607-CR-E5B		
Engine rated power	kW/rpm	42.6/2400		44.8/2400		38/2400		
Engine rated torque	Nm/rpm	195.6/1500		210/1600-1800		174.1/1500		
Cylinder number-Bore×stroke		4-87×102.4		3-94×107		4-87×110		
Engine displacement	L	2.434		2.23		2.615		
Engine type		Diesel		Diesel		Diesel		
Emission		EU StageV / EPA/CARB Tier4		EU StageV		Euro V /EPA T4F		
Battery(Voltage/Capacity)	V/Ah	12/95		12/80		12/95		

Note: *indicates the theoretical calculation value.

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 lift height (mm)				Height(mm)						Mast tilt angle α/β (°)	Service weight (kg)	
									Height (mast lowered)		Height (mast Lifted)						
					Without Backrest	Without Backrest	With Backrest	With Backrest	Without backrest/ with backrest		Without Backrest	Without Backrest	Without Backrest	With Backrest			
			2t	2.5t	2t	2.5t	2t	2.5t	2t	2.5t	2t	2.5t	2t	2.5t		2t	2.5t
Wide View Standard Mast	M200	2000	2000	2500	150	150	150	150	1500	1500	2683	2683	3039	3039	6-10	3280	3650
	M250	2500	2000	2500	150	150	150	150	1750	1750	3183	3183	3539	3539	6-10	3330	3700
	M300	3000	2000	2500	150	150	150	150	2000	2000	3683	3683	4039	4039	6-10	3370	3740
	M330	3300	2000	2500	150	150	150	150	2150	2150	3983	3983	4339	4339	6-10	3400	3770
	M350	3500	2000	2500	150	150	150	150	2250	2250	4183	4183	4539	4539	6-10	3420	3790
	M370	3700	2000	2500	150	150	150	150	2350	2350	4383	4383	4739	4739	6-10	3430	3800
	M400	4000	2000	2500	150	150	150	150	2550	2550	4683	4683	5039	5039	6-10	3510	3880
	M425	4250	2000	2250 *2500	150	150	150	150	2675	2675	4933	4933	5289	5289	6-6 *6-10	3530	3900
	M450	4500	1950 *1950	2050 *2450	150	150	150	150	2800	2800	5183	5183	5539	5539	6-6 *6-10	3560	3930
	M500	5000	1700 *1850	1800 *2300	150	150	150	150	3050	3050	5683	5683	6039	6039	6-6 *6-10	3600	3970
	M550	5500	1300 *1750	1350 *2100	150	150	150	150	3350	3350	6183	6183	6539	6539	6-6 *6-6	3700	4070
	M600	6000	900 *1700	950 *1800	150	150	150	150	3600	3600	6683	6683	7039	7039	6-6 *6-6	3740	4110
Wide View Full Free 2-Stage Mast	ZM200	2000	2000	2500	876	876	500	500	1500	1500	2663	2663	3039	3039	6-10	3300	3670
	ZM250	2500	2000	2500	1126	1126	750	750	1750	1750	3163	3163	3539	3539	6-10	3360	3730
	ZM300	3000	2000	2500	1376	1376	1000	1000	2000	2000	3663	3663	4039	4039	6-10	3430	3800
	ZM330	3300	2000	2500	1526	1526	1150	1150	2150	2150	3967	3967	4343	4343	6-10	3470	3840
	ZM350	3500	2000	2500	1626	1626	1250	1250	2250	2250	4163	4163	4539	4539	6-10	3500	3870
	ZM370	3700	2000	2500	1726	1726	1350	1350	2350	2350	4363	4363	4739	4739	6-10	3520	3890
	ZM400	4000	2000	2500	1926	1926	1550	1550	2550	2550	4663	4663	5039	5039	6-6 *6-10	3610	3980
	ZM425	4250	2000	2250 *2500	2051	2051	1675	1675	2675	2675	4914	4914	5290	5290	6-6 *6-10	3650	4020
	ZM450	4500	1950 *1950	2050 *2450	2176	2176	1800	1800	2800	2800	5153	5153	5529	5529	6-6 *6-10	3680	4050
	ZM500	5000	1700 *1850	1800 *2300	2426	2426	2050	2050	3050	3050	5663	5663	6039	6039	6-6 *6-6	3750	4120
	ZM550	5500	1300 *1750	1350 *2100	2726	2726	2350	2350	3350	3350	6163	6163	6539	6539	*6-6	3860	4230
	ZM600	6000	900 *1700	950 *1800	2876	2876	2500	2500	3600	3600	6663	6663	7039	7039	*6-6	3930	4300
Wide View Full Free 3-Stage Mast	ZSM360	3600	2000	2500	1156	1156	800	800	1570	1570	4283	4283	4639	4639	6-6	3520	3890
	ZSM400	4000	2000	2500	1306	1306	950	950	1820	1820	4683	4683	5039	5039	6-6	3550	3920
	ZSM435	4350	1950 *1950	2300 *2450	1406	1406	1050	1050	2070	2070	5033	5033	5389	5389	6-6 *6-6	3580	3950
	ZSM450	4500	1900 *1900	2300 *2450	1456	1456	1100	1100	2220	2220	5183	5183	5539	5539	6-6 *6-6	3600	3970
	ZSM470	4700	1850 *1900	2050 *2400	1521	1521	1165	1165	2320	2320	5377	5377	5733	5733	6-6 *6-6	3610	3980
	ZSM480	4800	1850 *1850	2000 *2400	1566	1566	1210	1210	2420	2420	5483	5483	5839	5839	6-6 *6-6	3620	3990
	ZSM500	5000	1650 *1800	1800 *2350	1656	1656	1300	1300	2620	2620	5683	5683	6039	6039	6-6 *6-6	3650	4020
	ZSM540	5400	1450 *1750	1550 *2200	1756	1756	1400	1400	2745	2745	6083	6083	6439	6439	3-6 *3-6	3680	4050
	ZSM600	6000	1000 *1600	1100 *1800	1956	1956	1600	1600	2870	2870	6683	6683	7039	7039	3-6 *3-6	3780	4150

Note: *stands for the rated capacity when the front tyre is double-tyre.

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 lift height (mm)				Height (mm)							Mast tilt angle α/β (°)	Service weight (kg)	
									Height (mast lowered)			Height (mast Lifted)						
					Without Backrest	Without Backrest	With Backrest	With Backrest	Without backrest/ with backrest			Without Backrest	Without Backrest	With Backrest	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	155	160	155	160	1570	1620		2791	2811	3218	3218	6-10	4250	4610
	M250	2500	3000	3500	155	160	155	160	1820	1870		3291	3311	3718	3718	6-10	4300	4650
	M300	3000	3000	3500	155	160	155	160	2070	2120		3791	3811	4218	4218	6-10	4340	4700
	M330	3300	3000	3500	155	160	155	160	2220	2270		4091	4111	4518	4518	6-10	4360	4730
	M350	3500	3000	3500	155	160	155	160	2320	2370		4291	4311	4718	4718	6-10	4380	4750
	M370	3700	3000	3500	155	160	155	160	2420	2470		4491	4511	4918	4918	6-10	4400	4760
	M400	4000	3000	3500	155	160	155	160	2620	2670		4791	4811	5218	5218	6-10 *6-10	4490	4840
	M425	4250	2950 *3000	3400 *3500	155	160	155	160	2745	2795		5041	5061	5468	5468	6-6 *6-10	4510	4870
	M450	4500	2750 *3000	3100 *3350	155	160	155	160	2870	2920		5291	5311	5718	5718	6-6 *6-10	4540	4900
	M500	5000	2500 *2700	2800 *2900	155	160	155	160	3120	3170		5791	5811	6218	6218	6-6 *6-10	4580	4950
	M550	5500	2100 *2500	2300 *2800	155	160	155	160	3420	3470		6291	6311	6718	6718	*6-6	4690	4990
	M600	6000	1500 *2200	1900 *2300	155	160	155	160	3670	3720		6791	6811	7218	7218	*6-6	4730	5040
Wide View Full Free 2-Stage Mast	ZM200	2000	3000	3500	817	850	340	443	1570	1620		2735	2805	3212	3212	6-10	4270	4660
	ZM250	2500	3000	3500	1067	1100	590	693	1820	1870		3235	3305	3712	3712	6-10	4310	4700
	ZM300	3000	3000	3500	1317	1350	840	943	2070	2120		3735	3805	4212	4212	6-10	4360	4750
	ZM330	3300	3000	3500	1467	1500	990	1093	2220	2270		4035	4105	4512	4512	6-10	4390	4780
	ZM350	3500	3000	3500	1567	1600	1090	1193	2320	2370		4235	4305	4712	4712	6-10	4410	4800
	ZM370	3700	3000	3500	1667	1700	1190	1293	2420	2470		4435	4505	4912	4912	6-6 *6-10	4430	4810
	ZM400	4000	3000	3500	1867	1900	1390	1493	2620	2670		4735	4805	5212	5212	6-6 *6-10	4500	4890
	ZM425	4250	2950 *3000	3400 *3500	1992	2025	1515	1618	2745	2795		4986	5056	5463	5463	6-6 *6-10	4530	4920
	ZM450	4500	2750 *3000	3100 *3350	2117	2150	1640	1743	2870	2920		5235	5305	5712	5712	6-6 *6-10	4550	4960
	ZM500	5000	2500 *2700	2800 *2900	2367	2400	1890	1993	3120	3170		5735	5805	6212	6212	6-6 *6-6	4600	5000
	ZM550	5500	2100 *2500	2300 *2800	2667	2700	2190	2293	3420	3470		6235	6305	6712	6712	*3-6	4690	5040
	ZM600	6000	1500 *2200	1900 *2300	2917	2950	2440	2543	3670	3720		6735	6805	7212	7212	*3-6	4740	5090
Wide View Full Free 3-Stage Mast	ZSM360	3600	3000	3500	1067	1097	640	690	1870	1870		4395	4415	4822	4822	6-10	4510	4770
	ZSM400	4000	3000	3500	1217	1247	790	840	2020	2020		4795	4815	5222	5222	6-10	4540	4800
	ZSM435	4350	2900 *3000	3300 *3350	1317	1347	890	940	2120	2120		5145	5165	5572	5572	6-10	4580	4840
	ZSM450	4500	2850 *2950	3250 *3300	1367	1397	940	990	2170	2170		5295	5315	5722	5722	6-10	4590	4850
	ZSM470	4700	2800 *2850	3050 *3250	1427	1457	1000	1050	2230	2230		5495	5515	5922	5922	6-10	4590	4850
	ZSM480	4800	2750 *2800	2850 *3200	1467	1497	1040	1090	2270	2270		5595	5615	6022	6022	6-6 *6-10	4620	4880
	ZSM500	5000	2650 *2750	2750 *3100	1567	1597	1140	1190	2370	2370		5795	5815	6222	6222	6-6 *6-10	4640	4910
	ZSM540	5400	2350 *2700	2400 *2950	1667	1697	1240	1290	2470	2470		6195	6215	6622	6622	6-6 *6-10	4680	4940
	ZSM600	6000	1550 *2200	1750 *2400	1867	1897	1440	1490	2670	2670		6795	6815	7222	7222	6-6 *6-10	4780	5040

Note: *stands for the rated capacity when the front tyre is double-tyre.