

2-3.5t

G2 Series Internal Combustion Counterbalanced Forklift Truck (Euro Stage V)





ANHUI HELI CO., LTD.

ADD: NO.668 Fangxing Street, Economical Development Zone, Hefei, P.R. China TEL: (86 551) 63639068 (America); 63639258 (Europe); 63639358 (Asia); 63662105 (Wheel loader); 63662105 (Wheel loader)

FAX: (86 551) 63639966 WEBSITE: http://www.heliforklift.net Email: heli@helichina.net

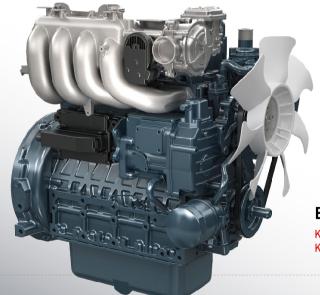
* Our products are subject to improvements and changes without notice.





HIGH QUALITY PRODUCT

G2 series products are fully upgraded to optimize the human-machine interface, vision and operating space. While improving durability and ensuring safety, it also provides driver's with more comfortable and convenient operating environment.



Engine Model:

KUBOTA V2403(Diesel) KUBOTA WG2503(GAS/LPG)



The whole machine adopts the engine conforming to the Euro stage V and the American environmental protection standard;

- The diesel engine adopts KUBOTA V2403 Euro 5 electronic high pressure common rail engine and DOC + DPF tail gas treatment technology.
- Single/Dual fuel using KUBOTA WG2503 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.

Cooling ability 10% improved

Optimal heat dissipation channel improves airflow. Aluminum plate fin type radiator with high structural strength and cooling abiity is assembled on the truck. Counter weight with dual ventilation hole improved cooling efficiency improves heat balance effect largely and increases truck heavy loaded stability.



Improved cooling performance

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.



Improved stability and mean-time between failtures (MTBF)40% longer

The truck stability is improved with the using of flexible connected transmission box, casting steering axle and improvements on important structural parts such as frame, mast and overhead guard. The MTBF of the truck is 40% longer and truck maitenance cost is reduced.







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.

Easier and quicker maintenance

- Flexible connected transmission box can be dismounted independently for maintenance and repair without affecting engine and drive axle.
- what is more, coarse filter can be cleaned or replaced without removing and maintenance efficiency is improved.



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.

Passed on the comparison of a project of final (direct) (liquefied gas) and financial project of the comparison of the compariso



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.

10% enlarged driving space

- The tilting cylinder is installed under the floor board.
- The tilting angle of floor board is reduced to 15°.
- Enlarged space around foot improves operation comfort and reduces leg fatigue when operating.
- The space getting on or off the truck is enlarged by using large arc shape of the overhead guard's front leg.



Needs of low-temperature areas

■ The prototype was tested at -25°C 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.

Thumb control system (optional)

Thumb control system makes truck control comfort, convenient and user-friendly and reduces driver's fatigue. With Grammer multi-functional armrest, seat and Rexroth electromagnetism, the thumb control system controls the truck operation. The control has the characteristics such as more accuracy, good inch control, low noise and long service life.





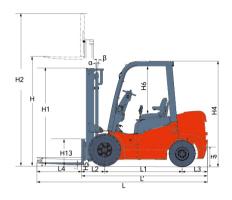


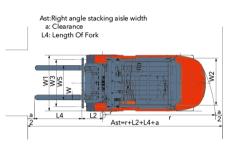
MANUFACTURER' S DATA AND DESIGN CHARACTERISTICS														
Character														
01 Manufacturer				► CPCD20/CP(Q)YD20 CPCD25/CP(Q)YD25 CPCD30/CP(Q)YD30 CPCD35/										
02 Model									CPCD35/CP(Q)YD35					
Rated capacity		kg	2000		25		300	00	3500					
4 Load center		mm												
Operation mode				Sit-on type										
Size														
Max. Lifting height	Н	mm	3000			00	30			8000				
2 Mast overall height (fork to the ground and mast be vertical	H1	mm	2000			00	20			2180				
Max. Fork lifting height (with backrest)	H2	mm	4039			39	42	17	4	217				
Free lift height	Н3	mm	145		14		15			160				
5 Overall height (overhead guard)	H4	mm	2150		21		21			2170				
6 Min. Ground clearance(at the mast)	H5	mm	110		11	10	13	35	135					
7 Distance from the surface of the seat to the overhead gua	rd) H6	mm	1035		10	35	10	35	1035					
8 Backrest height (calculated from the surface of the fork)	mm	1004		10	04	117	82	1	.177					
9 Overall length (with fork/without fork)	(L/L')	mm	3450/25	30	3675,	/2605	3800/	/2730	384	5/2775				
0 Wheel base	L1	mm	1600	1600		00	17	00	1	.700				
1 Overall width	W1	mm	1150		11	50	12	25	1	.225				
2 Tread (front tread/rear tread)	(W3/W2)	mm	970/97	0	970,	/970	1000	/970	100	1000/970				
.3 Fork adjustable range (the external of the fork)(max./min) W5	mm	1030/24	14	1030)/244	1060	/250	106	50/250				
4 Min. Turning radius (exterior)	r	mm	2180		22	50	24	00	2	2440				
5 Min.Right angle stacking aisle width	Ra	mm	2210		22	80	23	80	2420					
Mast tilting angle	α/β	deg	6/10		6/	10	6/.	10	6/10					
7 Fork size	L4×W×T	mm	920×122	×40	1070×1	122×40	1070×1	125×45	1070×125×50					
Weight														
11 Total weight		kg	3440		37	90	44	00	4	710				
Wheel and tyre														
11 Tyre type (front/rear)						Pneum	atic tyre							
22 Tyre size (front/rear)			7.00-12-12PR/6.	00-9-10PR	7.00-12-12P	R/6.00-9-10PR	28×9-15-14PR/	/6 50-10-10PR	28×9-15-14PF	28×9-15-14PR/6.50-10-10PR				
,,							25:15 25 241 10		25::5 25 1:11	, 20 20. A				
DESIGN CHARACTERISTICS														
Performance														
11 Model			CPCD20	CPCD25	CPCD30	CPCD35	CP(Q)YD20	CP(Q)YD25	CP(Q)YD30	CP(Q)YD3				
2 Configuration number				KU19G2					01G2					
Max. Travelling speed (loaded/unloaded)		Km/h	17/18	17/18	17/18	17.5/18	17/18	17/18	18/19	18/19				
4 Lifting speed (loaded/unloaded)		mm/s	550/600	550/600	480/530	420/450	560/590	560/590	520/560	440/460				
OF Lowering speed (leaded/unleaded)			420/400	420/400	420/400	420/400	420/400	420/400	420/400	420/400				

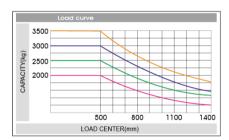
Performance													
Model		CPCD20	CPCD25	CPCD30	CPCD35	CP(Q)YD20	CP(Q)YD25	CP(Q)YD30	CP(Q)YD35				
Configuration number			KU19G2			KU1G2							
Max. Travelling speed (loaded/unloaded)	Km/h	17/18	17/18	17/18	17.5/18	17/18	17/18	18/19	18/19				
Lifting speed (loaded/unloaded)	mm/s	550/600	550/600	480/530	420/450	560/590	560/590	520/560	440/460				
Lowering speed (loaded/unloaded)	mm/s	420/400	420/400	420/400	420/400	420/400	420/400						
Max. Drawbar pull (loaded/unloaded)	KN	20.8/12.3	21.6/12.3	19.6/13.1	20/14.6	19.8/10.4	20.2/11.5	19.2/13.4	18.9/14.4				
Max. Gradability (loaded/unloaded)	%	34/26	32/22	26/20	24/21	37/23	34/22	26/22	24/21				
Drive and transmission control device													
Battery (voltage/capacity)	V/Ah		12/95			12/60							
Engine mode			V2403-CR-TE	5B		WG2503							
Engine rated power	KW/rpm		42.6/2400			GAS:42.8/2600, LPG:43.5/2600							
Engine rated torque	Nm/rpm		195.6/1500)		GAS:163/1800, LPG:173.7/1400							
Engine cylinder number-borexstroke			4-87×102.4	4		4-87×102.4							
Engine displacement	L		2.434			2.491							
Engine type			Diesel			GAS/LPG							
Emission			Euro stage	V		Euro stage V							
Engine fuel tank capacity	L	6	6	7	0	66 70							
Transmission box shifting gears (front/rear type)			1-1Power Shift T/M										
	Model Configuration number Max. Travelling speed (loaded/unloaded) Lifting speed (loaded/unloaded) Lowering speed (loaded/unloaded) Max. Drawbar pull (loaded/unloaded) Max. Gradability (loaded/unloaded) Drive and transmission control device Battery (voltage/capacity) Engine mode Engine rated power Engine rated torque Engine cylinder number-borexstroke Engine type Emission Engine fuel tank capacity	Model Configuration number Max. Travelling speed (loaded/unloaded) Lifting speed (loaded/unloaded) Max. Drawbar pull (loaded/unloaded) Max. Drawbar pull (loaded/unloaded) Max. Gradability (loaded/unloaded) Mox. Gradability (loaded/unloaded) Mox. Gradability (loaded/unloaded) Mox. Gradability (loaded/unloaded) Mox. Gradability (loaded/unloaded) Work and transmission control device Battery (voltage/capacity) Engine mode Engine rated power Engine rated torque Engine rated torque Engine cylinder number-borexstroke Engine displacement L Engine type Emission Engine fuel tank capacity L	Model CPCD20 Configuration number Max. Travelling speed (loaded/unloaded) Km/h 17/18 Lifting speed (loaded/unloaded) mm/s 550/600 Lowering speed (loaded/unloaded) mm/s 420/400 Max. Drawbar pull (loaded/unloaded) KN 20.8/12.3 Max. Gradability (loaded/unloaded) % 34/26 Drive and transmission control device Battery (voltage/capacity) V/Ah Engine mode Engine rated power KW/rpm Engine rated torque Nm/rpm Engine cylinder number-borexstroke Engine displacement L Engine type Emission Engine fuel tank capacity L 6	Model CPCD20 CPCD25 Configuration number KU19G2 Max. Travelling speed (loaded/unloaded) Km/h 17/18 17/18 Lifting speed (loaded/unloaded) mm/s 550/600 550/600 Lowering speed (loaded/unloaded) mm/s 420/400 420/400 Max. Drawbar pull (loaded/unloaded) KN 20.8/12.3 21.6/12.3 Max. Gradability (loaded/unloaded) % 34/26 32/22 Drive and transmission control device 8 48/26 32/22 Battery (voltage/capacity) V/Ah 12/95 12/95 Engine mode V2403-CR-TE Y2403-CR-TE 12/95 Engine rated power KW/rpm 42.6/2400 4.87×102. Engine rated torque Nm/rpm 195.6/1500 195.6/1500 Engine cylinder number-borexstroke 4.87×102. 2.434 196.6 Engine type Diesel 196.6 196.6 196.6	Model CPCD20 CPCD25 CPCD30 Configuration number KU19G2 Max. Travelling speed (loaded/unloaded) Km/h 17/18 18/05 48/05/30 48/05/30 48/05/30 48/05/30 420/400 420/400 420/400 420/400 420/400 420/400 420/400 48/05/20	Model CPCD20 CPCD25 CPCD30 CPCD35 Configuration number KU19G2 KU19G2 Max. Travelling speed (loaded/unloaded) Km/h 17/18 17/10 17/10 17/10 17/10 17/10 17/10 17/10 17/10 17/10 17/10 17/10 17/10 17/10	Model CPCD20 CPCD25 CPCD30 CPCD35 CP(Q)YD20 Configuration number KU19G2 Max. Travelling speed (loaded/unloaded) Km/h 17/18<	Model CPCD20 CPCD25 CPCD30 CPCD35 CP(Q)YD20 CP(Q)YD25 Configuration number KU19G2 KU19G2 CPCD30 CPCD35 CP(Q)YD20 CP(Q)YD20 Max. Travelling speed (loaded/unloaded) KM 17/18 17/1	Model CPCD20 CPCD25 CPCD30 CPCD35 CP(Q)YD20 CP(Q)YD25 CP(Q)YD30 Configuration number L KU1962 MU1962 KU1962 KU1962 KU1962 KU1962 KU1962 MU1962 KU1962 KU1962 KU1962 MU1962 MU1962				

7 NOTE:* stands for theoretical calculating value.









CPCD35	CPCD30	CPCD25	CPCD20
CP(Q)YD20	CP(Q)YD25	CP(Q)YD30	CP(Q)YD35

Note:The vertical axis stands for load capacity and the horizontal axis stands for load center which is calculated from the front surface of the forks to the gravity of the standard load. The standard load and enas a cubic with 1000mm edge length. When mast is tilted forward, using non-standard forks or loading large goods, the load capacity will be reduced. The load capacity of standard mast at different load center can be known from this load chart.

WID	WIDE VIEW MAST														
Mastmodel	Max. lifting height mm	Load ca	pacity (load	center 500n	nm) (Kg)		Mast overa	ıll height (n	nm)		Mast tiltangle (°) α/β				
		2t	2.5t	3t	3.5t	2t	2.5t	3t	3.5t	2t	2.5t	3t	3.5t		
M200	2000	2000	2500	3000	3500	1495	1495	1570	1680	3350	3700	4310	4610	6/10 *6/10	
M250	2500	2000	2500	3000	3500	1745	1745	1820	1930	3400	3750	4350	4660	6/10 *6/10	
M300	3000	2000	2500	3000	3500	1995	1995	2080	2180	3440	3790	4400	4710	*6/10 *6/10	
M330	3300	2000	2500	3000	3500	2145	2145	2220	2330	3470	3820	4430	4740	*6/10 *6/10	
M350	3500	2000	2500	3000	3500	2245	2245	2320	2430	3490	3840	4450	4760	*6/10 *6/10	
M370	3700	2000	2500	3000	3500	2345	2345	2420	2530	3500	3850	4470	4780	*6/10	
M400	4000	2000	2500	3000	3200 *3500	2545	2545	2620	2730	3580	3930	4540	4850	6/6 *6/10	
M425	4250	1900 *2000	2250 *2500	2850 *3000	3100 *3200	2670	2670	2745	2855	3600	3950	4570	4870	6/6 *6/10	
M450	4500	1800 *1900	2150 *2400	2750 *3000	3000 *3050	2795	2795	2870	2980	3630	3980	4590	4900	*6/10	
M500	5000	1600 *1700	1650 *2200	2400 *2850	2500 *2850	3045	3045	3120	3230	3670	4020	4640	4950	*6/6	
M550	5500	*1600	*1950	*2450	*2500	3345	3345	3420	3530	3770	4120	4730	5040	*3/6	
M600	6000	*1500	*1800	*2200	*2300	3595	3595	3670	3780	3810	4160	4830	5090	*3/6	

NOTE: (1)When the front tyre is double tyre, the service weight of the truck is the weight in the table plus 110kg. (2)* Refers to rated capacity with dual front tires or widen tires;

WIDI	E VIEW FL	JLL FRI	EE 2-ST	TAGE M	AST													
Mastmodel	Max. lifting height	Load capacity (load center 500mm)(kg)					Mast overall height(mm)				ing heigl	ht (with b	ackrest)	Se	Mast tiltangle			
	mm	2t	2.5t	3t	3.5t	2t	2.5t	3t	3.5t	2t	2.5t	3t	3.5t	2t	2.5t	3t	3.5t	(°) α/β
ZM200	2000	2000	2500	3000	3500	1495	1495	1570	1680	490	490	388	503	3350	3700	4320	4640	6/10 *6/10
ZM250	2500	2000	2500	3000	3500	1745	1745	1820	1930	740	740	638	753	3400	3750	4360	4690	6/10 *6/10
ZM300	3000	2000	2500	3000	3500	1995	1995	2070	2180	990	990	888	1003	3440	3790	4410	4740	*6/10 *6/10
ZM330	3300	2000	2500	3000	3500	2145	2145	2220	2330	1140	1140	1038	1153	3470	3820	4440	4770	*6/10 *6/10
ZM350	3500	2000	2500	3000	3500	2245	2245	2320	2430	1240	1240	1138	1253	3490	3840	4460	4780	6/10 *6/10
ZM370	3700	2000	2500	3000	3500	2345	2345	2420	2530	1340	1340	1238	1353	3510	3860	4480	4800	*6/10
ZM400	4000	2000	2500	3000	3200 *3500	2545	2545	2620	2730	1540	1540	1438	1553	3580	3930	4550	4880	6/6 *6/10
ZM425	4250	1900 *2000	2250 *2500	2850 *3000	3100 *3200	2670	2670	2745	2855	1665	1665	1563	1678	3610	3960	4580	4900	*6/10
ZM450	4500	1800 *1900	2150 *2400	2750 *3000	3000 *3050	2795	2795	2870	2980	1790	1790	1688	1803	3630	3980	4600	4930	*6/10
ZM500	5000	1600 *1700	1650 *2200	2400 *2850	2500 *2850	3045	3045	3120	3230	2040	2040	1938	2053	3670	4020	4650	4970	*6/6
ZM550	5500	*1600	*1950	*2450	*2500	3345	3345	3420	3530	2340	2340	2238	2353	3770	4120	4740	5070	*3/6
ZM600	6000	*1500	*1800	*2200	*2300	3595	3595	3670	3780	2590	2590	2488	2603	3810	4160	4840	5110	*3/6

NOTE: (1) The free lifting height (without backrest) of the 2-2.5t truck is the height (with backrest) in the table plus 392mm. The free lifting height (with backrest) of the 3.t truck is the height (with backrest) in the table plus 485mm. The free lifting height (without backrest) of the 3.5t truck is the height (with backrest) in the table plus 407mm.

(2) When the front tyre is double tyre, the service weight of the truck is the weight in the table plus 110kg.

(3)* Refers to rated capacity with dual front tires or widen tires.

WID	WIDE VIEW FULL FREE 3-STAGE MAST																	
Mast model	Max. lifting height	(loa	Load ad center	capacity 500mm)(kg)	Mast overall height(mm)				Free lifting height (with backrest)				Service weight(kg)				Masttiltangle
	mm	2t	2.5t	3t	3.5t	2t	2.5t	3t	3.5t	2t	2.5t	3t	3.5t	2t	2.5t	3t	3.5t	(°) α/β
ZSM360	3600	2000	2400	2900	3300	1795	1795	1930	1930	785	785	748	753	3600	3950	4590	4860	*6/6
ZSM400	4000	1900	2400	2900	3300	1920	1920	2055	2055	910	910	873	878	3630	3980	4620	4890	*6/6
ZSM435	4350	1850 *1900	2200 *2400	2800 *2900	2900 *3000	2045	2045	2180	2180	1035	1035	998	1003	3660	4010	4650	4920	6/6 *6/6
ZSM450	4500	1750 *1800	2150 *2300	2700 *2800	2800 *2900	2095	2095	2230	2230	1085	1085	1048	1053	3680	4030	4670	4930	6/6 *6/6
ZSM470	4700	1720 *1800	2000	2600 *2800	2650 *2900	2160	2160	2230	2230	1150	1150	1048	1053	3690	4040	4680	4940	6/6 *6/6
ZSM480	4800	1700 *1800	1950 *2300	2500 *2800	2600 *2900	2195	2195	2330	2330	1185	1185	1148	1153	3700	4050	4690	4960	*6/6
ZSM500	5000	1600 *1750	1650 *2250	2400 *2750	2450 *2850	2295	2295	2430	2430	1285	1285	1248	1253	3730	4080	4720	4980	*6/6
ZSM540	5400	1450 *1700	1500 *2150	2250 *2650	2300 *2700	2420	2420	2555	2555	1410	1410	1373	1378	3760	4110	4750	5010	*3/6
ZSM600	6000	950 *1600	1000 *1800	1500 *2150	1550 *2200	2645	2645	2780	2780	1635	1635	1598	1603	3860	4210	4850	5110	3/6 *3/6

NOTE: (1) The free lifting height (without backrest) of the 2-2.5t truck is the height (with backrest) in the table plus 441mm. The free lifting height (without backrest) of the 3-3.5t truck is the height (with backrest) in the table plus 411mm.

(2)When the front tyre is double tyre, the service weight of the truck is the weight in the table plus 110kg.

(3)* Refers to rated capacity with dual front tires or widen tires.