Standard configuration	Optional
Continuously variable transmission system	Cab
Electro-hydraulic direction changing	Air conditioner(certain type)
Air filter pressure alarm	Heater
4.3 inch LCD color screen intelligent instrument	Front/Overhead /Rear windshield
Operator-presence control system (OPS)	Lifting valve stem horn button
Flickering warning light	Fire extinguisher
USB interface	Fan
Comfortable seat	Double air cleaner
Chassis protective base plate	Fork extension
Protection net of exhaust	Solid tyre
Adjustable steering wheel	Widen fork arm carrier
Reversing handle (with horn)	Cleansing muffler(certain type)
Control valve	Rear working light
Low exhaust	Optional attachments
Back view mirror	Lifting slings
Handle ball steering wheel	Main switch
Protection for steering cylinder	High exhaust/Middle exhaust
Front combined lamp	Warning light
Rear combined lamp	Protection net of overhead guard
Backward buzzer	Reversing voice speaker
Backrest	Universal key
Driver's tool	Synchronized steering
Standard fork	Rear view camera
Integrated electric box	Tachograph
Overhead quard rain cover	Red/blue warning light
Wide view mast	Finger tip operation system
Durable tread tyre	Overspeed alrm
Tilt oil circuit self lock valve	Speed limit function
Flow regulator	Starting through card or face recognition
Traction pin	Internet of vehicle
Starting through card (National IV model)	HELI active stability safety control system
Visualized reminder for electrical appliances	HELI Anti-collision intelligent warning system
Oil filler cap with lock	HELI AI-collision warning system
	HELI smart fleet management system
	Weighing system









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# **CPCD** 20/25/30/35 **CP(Q)(Y)D** 20/25/30/35



G3 series Internal Combustion Counterbalanced Forklift Truck



INTERNAL COMBUSTION

# Excellent safety

The mast is equipped with overlapping pulley groups for a wide field of vision and safer operation.

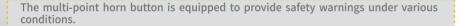


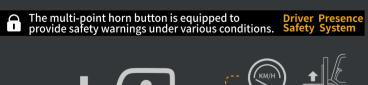
The overall stamping design of the cab offers enhanced safety protection.



The controller has passed dual certifications of functional safety and CE, utilizing a dual CPU design for dual protection, further enhancing the safety of the entire truck. (Standard on trucks meeting Euro V, optional on other models)









The driver presence safety system meets the needs of different regional customers, making driving operations safer.



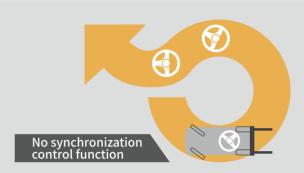
G3 series 2-3.5 t

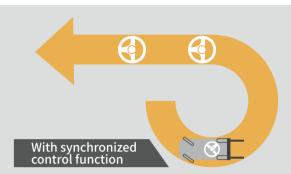
Personalized speed control system meets different speed limit requirements (electronic control machine).

## Multi-dimensional intelligence

#### [Synchronous steering] (optional)

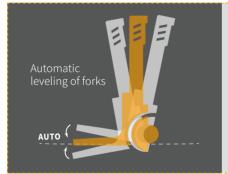
The synchronous steering function: a hydraulic synchronized steering system that adjusts the steering wheel and wheel angles in real-time provides precise steering and comfortable driving.





#### [HELI Active Stability System] (HLASS) (optional)

Equipped with the HELI active stability safety control system, it achieves multi safety controls such as thumb switch control, synchronized steering, automatic leveling of forks, inclined buffering at the end of forks, and mast tilting speed control, comprehensively enhancing driving and handling safety.



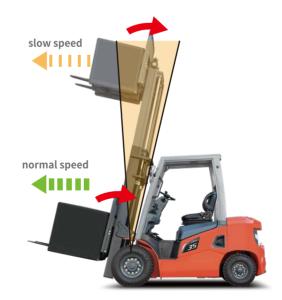
#### Fork one-button leveling function

When the mast is tilt, press the automatic leveling button, and the fork automatically returns to the horizontal position, which is intelligent and convenient.



### Seat fingertip control

The multifunctional armrest of the seat allows you to use your fingertips to control the truck's driving, cargo loading and unloading, and warning operations.



Mast speed control function: When working at a high position, the mast's rear tilt speed is intelligently controlled, and the front and rear tilt ends are intelligently buffered to maintain stability during high-altitude operations.

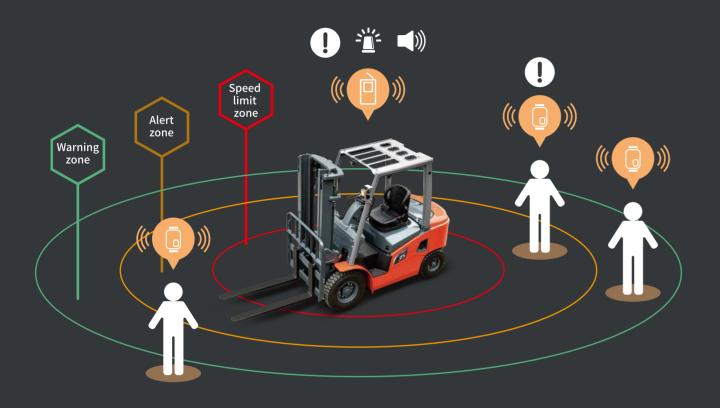


**Mast angle limit function:** When working at a high position, the mast's forward tilt angle is limited to maintain stability during high-altitude operations.

5 G3 series 2-3.5 t INTERNAL COMBUSTION 6

#### [HELI Intelligent Anti-collision Warning System] (HLACW) (optional)

HELI Anti-collision Intelligent Warning System offers multiple intelligent systems such as UWB anti-collision warning and reverse anti-magnetic collision warning, providing comprehensive protection for driving safety.



#### [HELI AI Anti-collision Warning System] (HLACW) (Optional)

Face recognition for truck start + driver behavior recording function (Face ID + DMS) Face recognition for truck start + driver behavior recording function + blind spot detection + truck control system + driving recording function (Face ID + DMS + BSD) Face recognition for truck start + driver behavior recording function + 360 panorama + truck control system + driving recording function (Face ID + DMS + AVM)

**Face ID:** Driver identification system for truck start, ensuring exclusive use and enhancing management.



**DMS:** Driver Behavior Monitoring safety module improves driving safety.







BSD:Blind Spot Detection System to detect pedestrians approaching the truck's blind spots and display them on the screen, as well as timely alert the driver and the approaching target.





**AVM:** The 360-degree panoramic surround view system installs fisheye cameras around the truck to display the surrounding environment, and issues timely alerts.





# **Significant Efficiency**

- The truck is configured with a large-capacity air filter with a safety filter and pressure alarm function to effectively purify the intake air and monitor the degree of air filter blockage in real time.
- The lifting system has been comprehensively upgraded for longer maintenance cycles and high load bearing capacity.
- The entire truck adopts a fully hydraulic load-sensitive system for precise operation, greater efficiency, and enhanced comfort.
- The truck is equipped with an electrical failure visualization warning system, which provides engine fault warnings, fault displays for the truck's electrical system, and machine maintenance information reminders for efficient and convenient operation.
- A multi-dimensional human-machine interaction intelligent instrument monitors the overall status of the truck, and can achieve functions such as card-based start-up, providing efficient and flexible operation.
- The engine hood has a large opening angle, and the front and rear bottom boards are detachable for convenient maintenance.
- Card swipe for truck start
- Password start
- Large opening angle engine cover







INTERNAL COMBUSTION



# **Green and Energy-saving**

- The overall truck system has been matched and upgraded, reducing the energy consumption of the entire machine by more than 15% compared to previous generation products.
- The truck is equipped with a low-loss and low-consumption hydraulic system, the hydraulic oil temperature of the entire machine is reduced by more than 20% compared to previous generation products.
- The truck is equipped with the latest emissions-compliant energy-saving internal combustion engines that meet local requirements, ensuring green and energy-saving operation.



Reduced overall truck energy consumption by more than 15%



Hydraulic oil temperature drop of more than 20%

Mast descent cushioning

# **Driving comfort**





The lifting system has been buffered and upgraded to reduce operational impact, providing a comfortable and safe experience











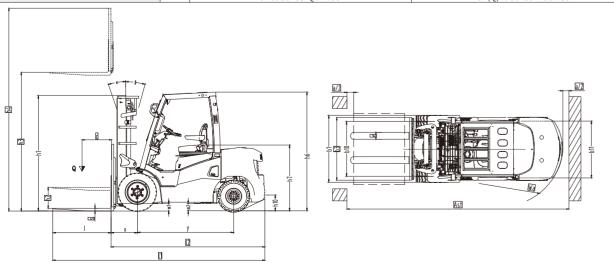
A low steering effort steering system with a 30% reduction in steering effort provides more efficient and comfortable steering operation.



9 G3 series 2-3.5 t INTERNAL COMBUSTION

	Identification						
1.1	Manufacturer				ЦС	ELI .	
1.2	Model			CPCD20/CP(Q)YD20	CPCD25/CP(Q)YD25	CPCD30/CP(Q)YD30	CPCD35/CP(Q)YD35
1.3	Drive			C1 CD20/ C1 (Q/1020		Gas)LPG	C1 CD33/C1 (Q/1D33
1.4	Operator type					ited	
1.5	Rated capacity/rated load	0	kg	2000	3500		
1.6	Load centre distance	C	mm	500	2500 500	3000 500	500
1.7	Load distance, centre of drive axle to fork	Х	mm	462	462	477	482
1.8	Wheelbase		mm	1720	1720	1770	1770
	Weights	,		2120	2.20	2	2
2.1	Service weight		kg	3475	3925	4375	4720
2.2	Axle loading, laden front/rear		kg	4815/660	5655/770	6490/885	7235/985
2.3	Axle loading, unladen front/rear		kg	1275/2200	1425/2500	1575/2800	1700/3020
	Wheels / chassis		3,,		2.20,2000	20.0/2000	2.00,0020
3.1	Tyres: solid rubber, superelastic, pneumatic, polyurethane						
3.2	Tyre size, front			7.00-12-12PR	7.00-12-12PR	atc tyre 28*9-15-14PR	28*9-15-14PR
3.3	Tyre size, rear			6.00-9-10PR	6.00-9-10PR	6.50-10-10PR	6.50-10-10PR
3.4	Wheels, number front/rear (x = driven wheels)			2x/2	2x/2	2x/2	2x/2
3.5	Tread, front	b10	mm	970	970	1000	1000
3.6	Tread, rear	b11	mm	970	970	970	970
	Dimensions						
4.1	Tilt of mast/fork carriage forward/backward	α/β	0	6/12	6/12	6/12	6/12
4.2	Height, mast lowered	h1	mm	2000	2000	2070	2120
4.3	Free lift	h2	mm	150	150	155	160
4.4	Lift	h3	mm	3000	3000	3000	3000
4.5	Height, mast extended	h4	mm	4030	4030	4217	4217
4.6	Height of overhead guard	h6	mm	2160	2160	2180	2180
4.7	Seat height/stand height	h7	mm	1030	1030	1125	1125
4.8	Coupling height	h10	mm	275	275	295	295
4.9	Overall length	l1	mm	3510	3745	3870	3895
4.10	Length to face of forks	l2	mm	2590	2675	2800	2825
4.11	Overall width	b1	mm	1160	1160	1225	1225
4.12	Fork dimensions ISO 2331	s/e/l	mm	40/122/920	40/122/1070	45/125/1070	50/125/1070
4.13	Fork carriage ISO 2328, class/type A, B			IIA	IIA	IIIA	IIIA
4.14	Fork-carriage width	b3	mm	1038	1038	1100	1100
4.15	Ground clearance, laden, below mast	m1	mm	115	115	135	135
4.16	Ground clearance, centre of wheelbase	m2	mm	115	115	135	135
4.17	Aisle width for pallets 1000 $ imes$ 1200 crossways	Ast	mm	3880	3960	4070	4150
4.18	Aisle width for pallets $800 \times 1200$ crossways	Ast	mm	4080	4160	4270	4350
4.19	Turning radius	Wa	mm	2220	2300	2400	2475
	Others						
5.1	Operating pressure for attachments		bar	140	140	140	140
5.2	Oil volume for attachments		L/min	55	55	64	64

	TECHNICAL DATA									
1.1	Model		CPCD20	CPCD25	CPCD30	CPCD35	CP(Q)YD20	CP(Q)YD25	CP(Q)YD30	CP(Q)YD35
1.2	Travel speed, laden/unladen	km/h	17/18	17/18	18/19	18/19	17/18	17/18	18/19	18/19
1.3	Lift speed, laden/unladen	m/s	0.55/0.61	0.55/0.61	0.47/0.51	0.42/0.45	0.55/0.61	0.55/0.61	0.46/0.50	0.42/0.45
1.4	Lowering speed, lade/unladen	m/s	0.45/0.50	0.45/0.50	0.45/0.50	0.45/0.50	0.45/0.50	0.45/0.50	0.45/0.50	0.45/0.50
1.5	Max. drawbar pull, laden/unladen	kN	22/13	22/14	21/15	20/16	24/13	24/14	23/15	22/16
1.6	Max. gradeability, laden/unladen1)	%	38/28	35/23	28/22	25/22	30/26	29/22	28/22	18/21
1.7	Service brake		Hydraulic Hydraulic							
	Combustion engine									
2.1	Engine manufacturer/type			Quanchai 498	(National IV)		KUBOTA	WG2503 (EU S	tage V/EPA/CA	RB Tier3)
2.2	Fuel type			Die	sel			LPG	/Gas	
2.3	Engine power according to DIN ISO 1585	kW		36	i.8			LPG:43.5	/GAS:42.8	
2.4	Rated speed	min-1	i <del>-</del> 1 2500 2600							
2.5	Number of cylinders/displacement	(-)/L		4/3	.17			4/2	.491	
2.6				CPCD20~3	5-Q17HG3			CP(Q)YD20~	-35-KU1HG3	



WIDE	WIDE VIEW MAST													
Mast	Max.lifting	Load ca	pacity(loder	center 500m	nm) (kg)	Mas	st height (mn	n)	Mast tilt angle		Service we	eight (kg)		
model	height (mm)	2t	2.5t	3t	3.5t	2-2.5t	3t	3.5t	Front/Rear	2t	2.5t	3t	3.5t	
M300	3000	2000 2000*	2500 2500*	3000 3000*	3500 3500*	2000	2070	2120	6-12	3475	3925	4375	4720	
M330	3300	2000 2000*	2500 2500*	3000 3000*	3500 3500*	2150	2220	2270	6-12	3500	3950	4400	4750	
M350	3500	2000 2000*	2500 2500*	3000 3000*	3500 3500*	2250	2320	2370	6-12	3518	3968	4418	4769	
M370	3700	2000 2000*	2500 2500*	3000 3000*	3500 3500*	2350	2420	2470	6-6 *6-12	3535	3985	4436	4788	
M400	4000	2000 2000*	2500 2500*	3000 3000*	3500 3500*	2550	2620	2670	6-6 *6-12	3609	4059	4510	4865	
M450	4500	2000 2000*	2500 2500*	3000 3000*	3500 3500*	2800	2870	2920	6-6 *6-12	3652	4102	4555	4913	
M500	5000	1850 1950*	1950 2400*	2700 3000*	3300 3400*	3050	3120	3170	6-6	3695	4145	4600	4961	
M550	5500	1850*	2300*	2750*	3050*	3350	3420	3470	*6-6	3786	4236	4692	5056	
M600	6000	1650*	1850*	2250*	2450*	3600	3670	3720	*6-6	3829	4279	4737	5104	

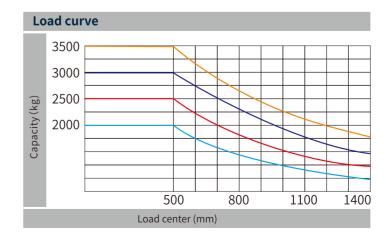
Note: ① \* stands for rated capacity for trucks with dual front tyre; ② When trucks with dual front tyre, the service weight is the data in the table plus 110kg.

WIDE	WIDE VIEW FULL FREE 2-STAGE MAST															
Mast	Max.lifting	Load capacity(loder center 500mm) (kg)				Mast height (mm)			Free lift (with backrest)(mm)			Mast tilt		Service w	eight (kg)	
model	height (mm)	2t	2.5t	3t	3.5t	2 <b>-</b> 2.5t	3t	3.5t	2-2.5t	3t	3.5t	angle Front/Rear	2t	2.5t	3t	3.5t
ZM300	3000	2000 2000*	2500 2500*	3000 3000*	3500 3500*	2000	2070	2120	996	888	943	6-12	3504	3954	4467	4793
ZM330	3300	2000 2000*	2500 2500*	3000 3000*	3500 3500*	2150	2220	2270	1146	1038	1093	6-12	3534	3984	4499	4825
ZM350	3500	2000 2000*	2500 2500*	3000 3000*	3500 3500*	2250	2320	2370	1246	1138	1193	6-12	3552	4002	4519	4845
ZM370	3700	2000 2000*	2500 2500*	3000 3000*	3500 3500*	2350	2420	2470	1346	1238	1293	6/6 *6/12	3572	4022	4539	4865
ZM400	4000	2000 2000*	2500 2500*	3000 3000*	3500 3500*	2550	2620	2670	1546	1438	1493	6/6 *6/12	3648	4098	4617	4943

Note: ① \* stands for rated capacity for trucks with dual front tyre; ② When trucks with dual front tyre, the service weight is the data in the table plus 110kg.

WIDE	WIDE VIEW FULL FREE 3-STAGE MAST																
Mast	Max.lifting		acity(loder	center 500	mm) (kg)	Mast height (mm)			Free lift (with backrest)(mm)			Mast tilt	Service weight (kg)				
model	height (mm)	2t	2.5t	3t	3.5t	2-2.5t	3t	3.5t	2-2.5t	3t	3.5t	angle Front/Rear	2t	2.5t	3t	3.5t	
ZSM435	4350	2000 2000*	2500 2500*	3000 3000*	3500 3500*	2050	2120	2120	1046	938	943	6-6	3686	4136	4599	4911	
ZSM450	4500	2000 2000*	2500 2500*	3000 3000*	3500 3500*	2100	2170	2170	1096	988	993	6-6	3700	4150	4612	4924	
ZSM470	4700	1850 1900*	2250 2450*	2900 3000*	3400 3500*	2165	2230	2230	1161	1048	1053	6-6	3718	4168	4629	4941	
ZSM500	5000	1800 1900*	1900 2400*	2750 2900*	3200 3300*	2300	2370	2370	1296	1188	1193	6-6	3753	4203	4664	4976	
ZSM540	5400	1500 1800*	1650 2200*	2300 2800*	2800 3150*	2400	2470	2470	1396	1288	1293	6-6	3783	4233	4693	5005	
ZSM600	6000	1000 1700*	1050 1900*	1700 2250*	2050 2450*	2600	2670	2670	1596	1488	1493	6-6	3884	4334	4794	5106	
ZSM650	6500	1600*	1750*	1950*	2000*	2800	2870	2870	1796	1688	1693	3-3	3937	4387	4846	5158	
ZSM700	7000	1300*	1400*	1700*	1800*	2975	3045	3045	1971	1863	1868	3-3	3985	4435	4893	5205	

Note: ①\* stands for rated capacity for trucks with dual front tyre; ② When trucks with dual front tyre, the service weight is the data in the table plus 110kg.



 CPCD20
 CPCD25
 CPCD30
 CPCD35

 CP(Q)(Y)D20
 CP(Q)(Y)D25
 CP(Q)(Y)D30
 CP(Q)(Y)D35

**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.