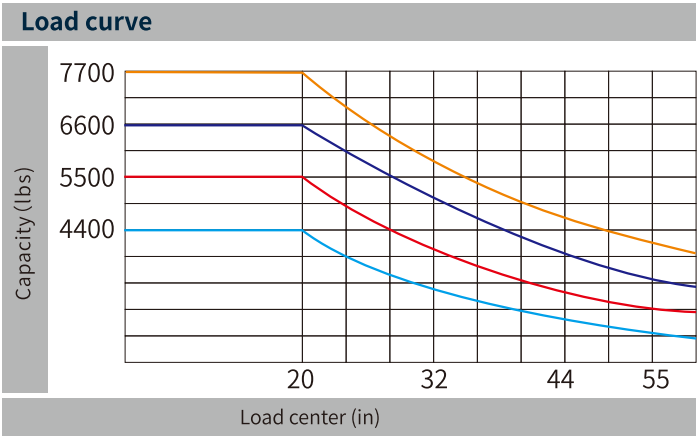


Standard configuration		Optional	
Continuously variable transmission system	Backward buzzer	Cab	Reversing voice speaker
Electro-hydraulic direction changing	Backrest	Air conditioner(certain type)	Universal key
Air filter pressure alarm	Driver's tool	Heater	Synchronized steering
4.3 inch LCD color screen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



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 40in 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.

## HELI AMERICA INC

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

# CPCD/CP(Q)YD 20/25/30/35



4000-7000lbs  
G3 series Internal Combustion  
Counterbalanced Forklift





*New flagship of internal combustion trucks  
shapes an intelligent future*

Safe / Efficient / Intelligent / Energy Saving / Comfortable



## Excellent safety

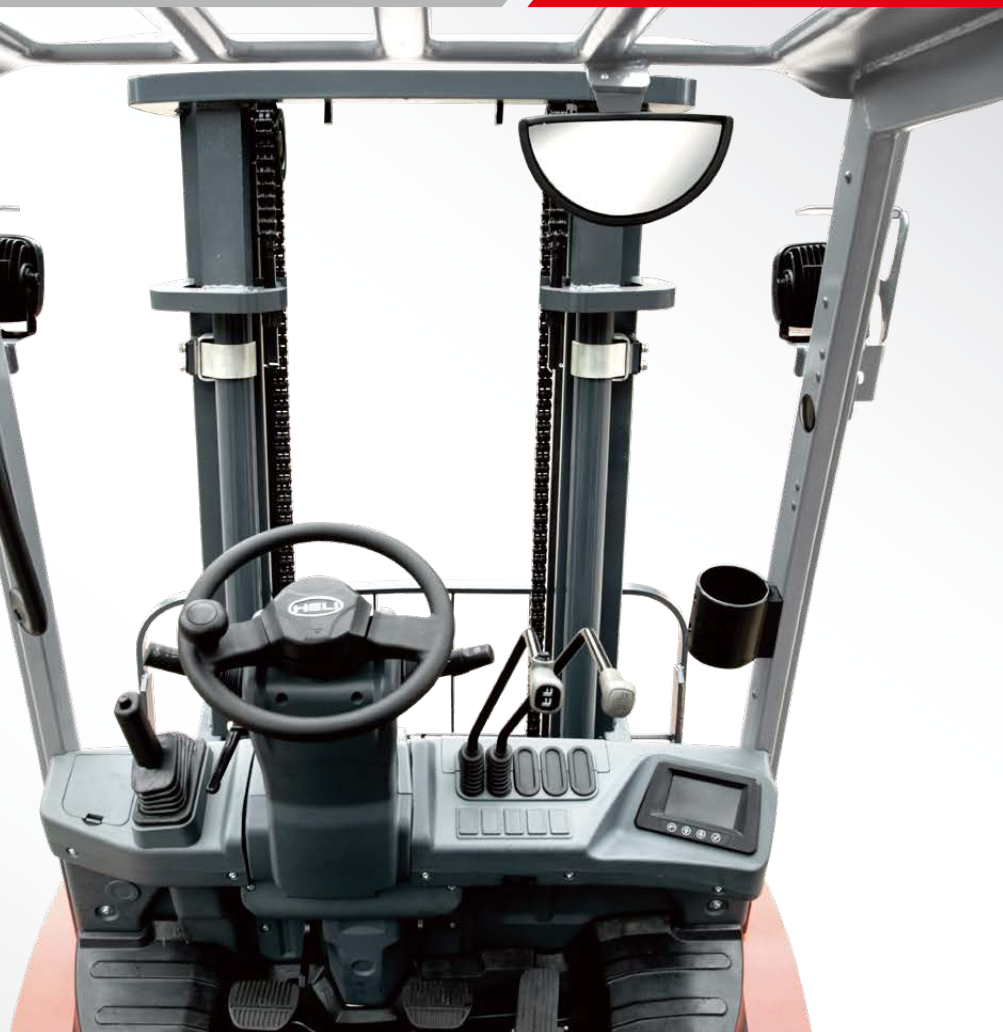
The mast is equipped with overlapping pulley groups for a wide field of vision and safer operation.



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

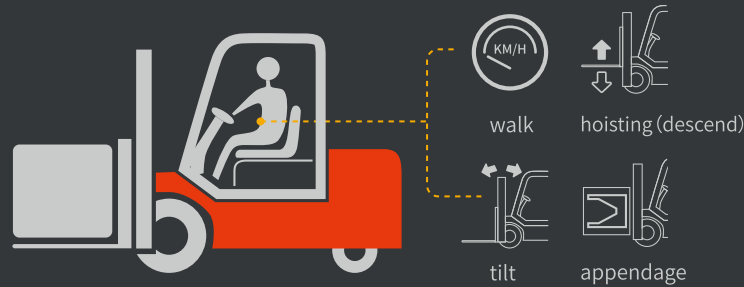


The controller has passed dual certifications of functional safety and CE, utilizing a dual CPU design for dual protection, further enhancing the safety of the entire truck. (Standard on trucks meeting Euro V, optional on other models)



The multi-point horn button is equipped to provide safety warnings under various conditions.

The multi-point horn button is equipped to provide safety warnings under various conditions. **Driver Presence Safety System**



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



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

## Significant Efficiency

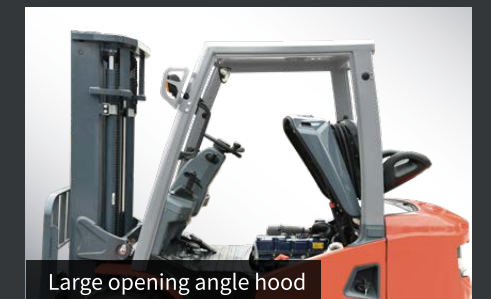
- The truck is configured with a large-capacity air filter with a safety filter and pressure alarm function to effectively purify the intake air and monitor the degree of air filter blockage in real time.
- The lifting system has been comprehensively upgraded for longer maintenance cycles and high load 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



Starting through card



Starting through password



Large opening angle hood



# Multi-dimensional intelligence

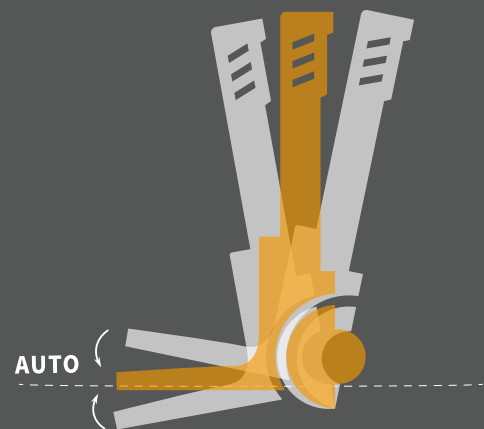
## [HELI Active Stability System] (HLASS) (optional)

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.



**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.



### 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.

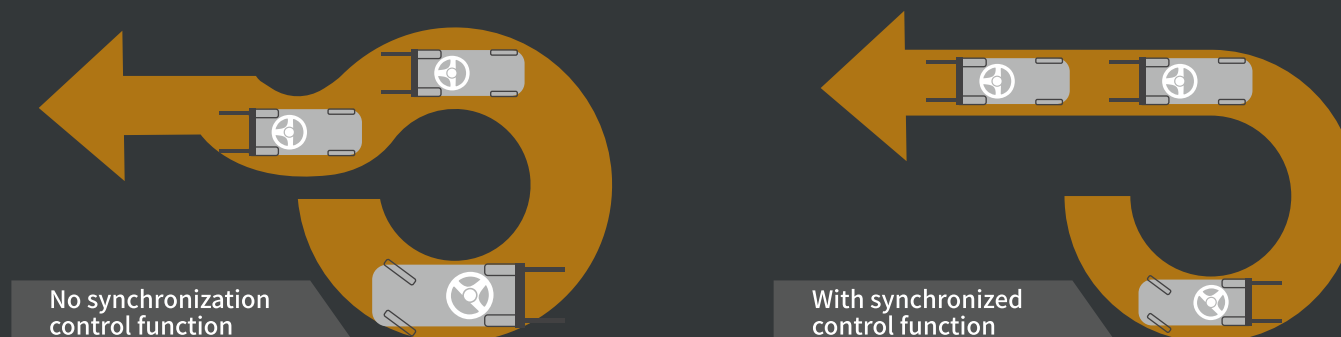


### Seat fingertip control

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.

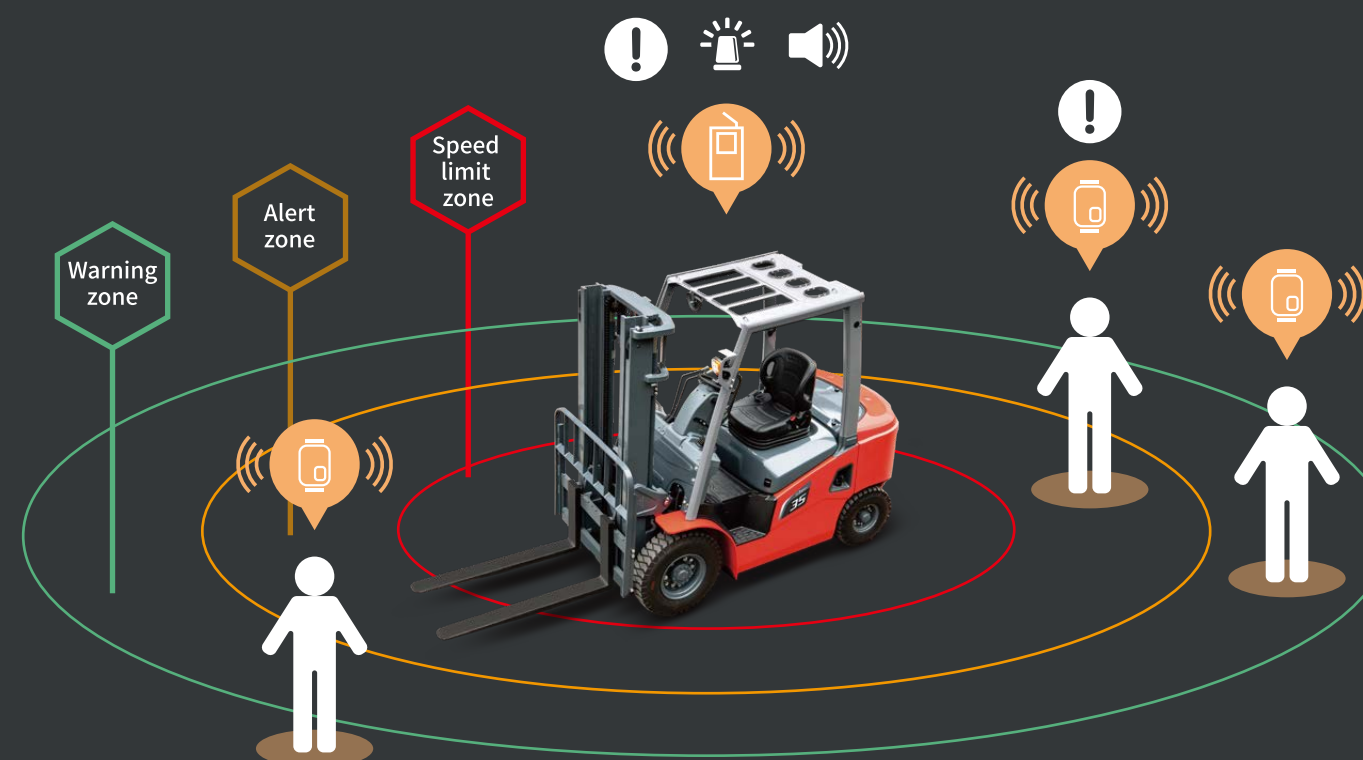
## [Synchronous steering] (optional)

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 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 visual warning system] HLVWS (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.



Face Recognition Unlock

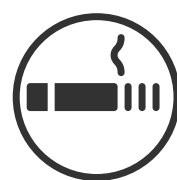
**DMS:** Driver Behavior Monitoring safety module improves driving safety.



Recognition and Alert for Fatigue Driving

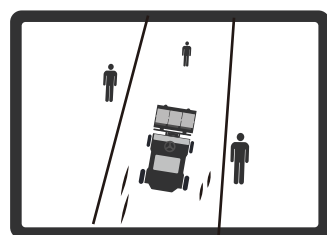


Recognition and Alert for Phone Calls during operation



Recognition and Alert for Smoking during operation

**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.



Detection of pedestrians approaching the truck's blind spots.

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



Display and Alert of pedestrians or motor approaching.

## 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%**



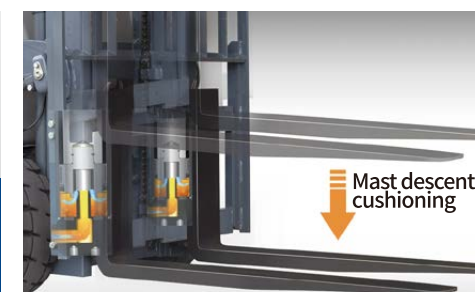
Hydraulic oil temperature drop of more than **20%**

## Driving comfort

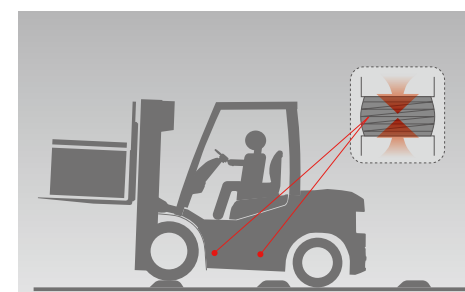


**dB**

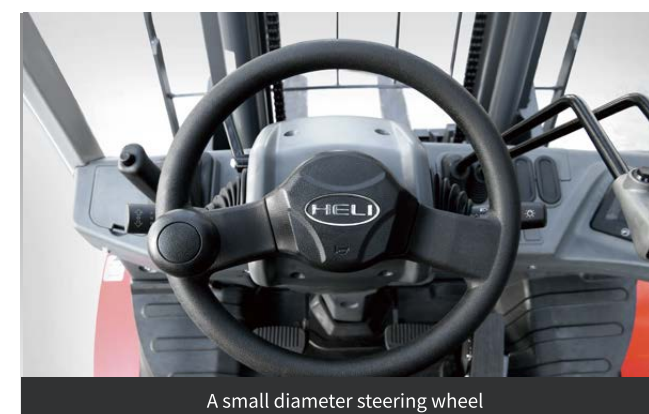
Multiple systems have been jointly upgraded, resulting in better noise performance of the entire truck.



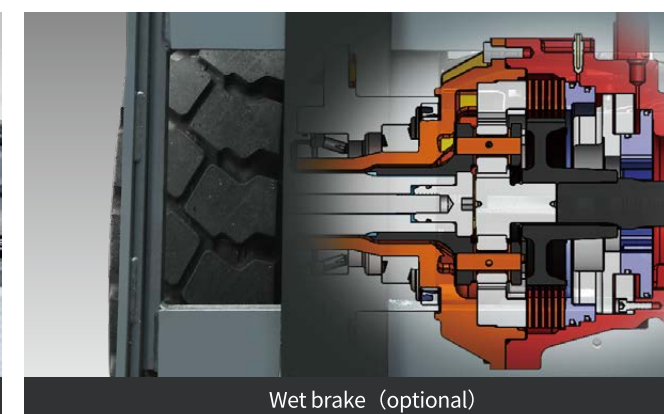
The lifting system has been buffered and upgraded to reduce operational impact, providing a comfortable and safe experience.



Suspension transmission system



A small diameter steering wheel



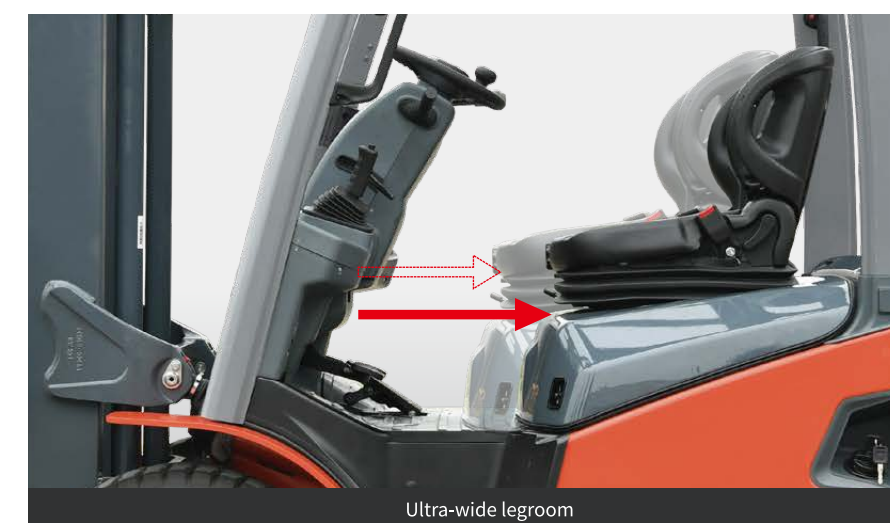
Wet brake (optional)



Automotive integrated handles



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



Ultra-wide legroom

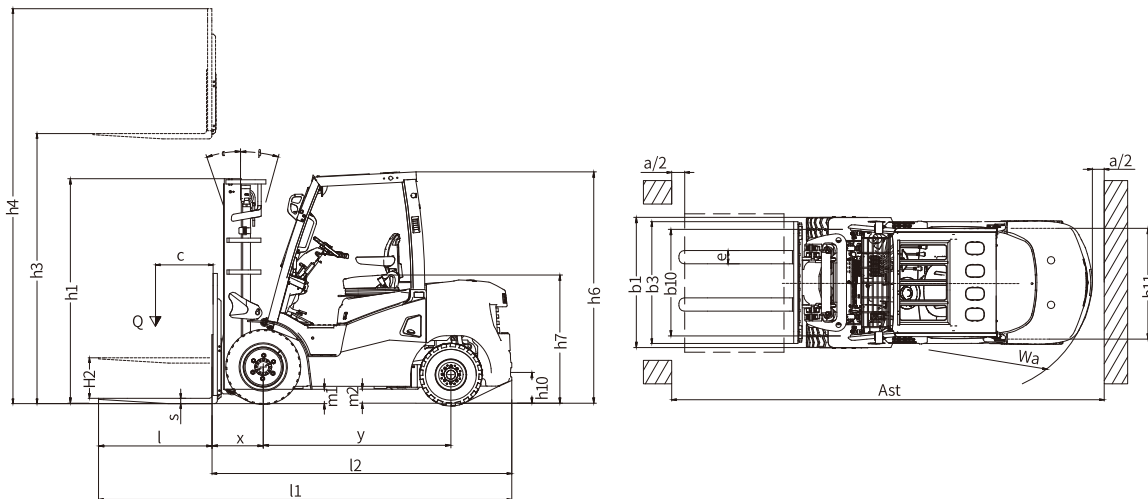


## MANUFACTRER AND TECHNICAL DATA

	Identification					
1.01	Manufacturer			HELI		
1.02	Model			CPCD20/CP(Q)YD20	CPCD25/CP(Q)YD25	CPCD30/CP(Q)YD30
1.03	Drive			LPG/GAS		
1.04	Operator type			Seat-type		
1.05	Rated capacity/rated load	Q	lbs	4000	5000	6000
1.06	Load centre distance	c	in	24	24	24
1.07	Load distance, centre of drive axle to fork	x	in	18	18	19
1.08	Wheelbase	y	in	68	68	70
	Weights					
2.01	Service weight		lbs	7645	8635	9625
2.02	Axle loading, laden front/rear		lbs	10593/1452	12441/1694	14278/1947
2.03	Axle loading, unladen front/rear		lbs	2805/4840	3135/5500	3465/6160
	Wheels / chassis					
3.01	Tyres: solid rubber, superelastic, pneumatic, polyurethane			Pneumatic tire		
3.02	Tyre size, front			7.00-12-12PR	7.00-12-12PR	28*9-15-14PR
3.03	Tyre size, rear			6.00-9-10PR	6.00-9-10PR	6.50-10-10PR
3.04	Wheels, number front/rear (x = driven wheels)			2x/2	2x/2	2x/2
3.05	Tread, front	b10	in	38	38	39
3.06	Tread, rear	b11	in	38	38	38
	Dimensions					
4.01	Tilt of mast/fork carriage forward/backward	α/β	°	6/12	6/12	6/12
4.02	Height, mast lowered	h1	in	79	79	81
4.03	Free lift	h2	in	6	6	6
4.04	Lift	h3	in	118	118	118
4.05	Height, mast extended	h4	in	159	159	166
4.06	Height of overhead guard	h6	in	85	85	86
4.07	Seat height/stand height	h7	in	41	41	44
4.08	Coupling height	h10	in	11	11	12
4.09	Overall length	l1	in	138	147	153
4.10	Length to face of forks	l2	in	102	105	110
4.11	Overall width	b1	in	46	46	48
4.12	Fork dimensions ISO 2331	s/e/l	in	1.6/5/36	1.6/5/42	1.8/5/42
4.13	Fork carriage ISO 2328, class/type A, B			IIA	IIA	IIIA
4.14	Fork-carriage width	b3	in	41	41	43
4.15	Ground clearance, laden, below mast	m1	in	5	5	5
4.16	Ground clearance, centre of wheelbase	m2	in	5	5	5
4.17	Aisle width for pallets 1000 × 1200 crossways	Ast	in	153	156	160
4.18	Aisle width for pallets 800 × 1200 crossways	Ast	in	161	164	168
4.19	Turning radius	Wa	in	87	91	94
	Others					
5.01	Operating pressure for attachments		Psi	2031	2031	2031
5.02	Oil volume for attachments		L/ min	55	55	64

## TECHNICAL DATA

1.01	Model		CP(Q)YD20	CP(Q)YD25	CP(Q)YD30	CP(Q)YD35	CPCD20	CPCD25	CPCD30	CPCD35
1.02	Travel speed, laden/unladen	mph	11/11	11/11	11/12	11/12	11/11	11/11	11/11	11/11
1.03	Lift speed, laden/unladen	fpm	108/120	108/120	91/98	83/89	108/116	108/116	89/102	79/83
1.4	Lowering speed, lade/unladen	fpm	89/98	89/98	89/98	89/98	98/92	98/92	100/108	81/96
1.05	Max. drawbar pull, laden/unladen	kN	24/13	24/14	23/15	22/16	19.6/13.1	19/13.3	22.3/14.1	22/15
1.06	Max. gradeability, laden/unladen1)	%	30/26	29/22	28/22	18/21	30/27	28/24	30/24	26/23
1.07	Service brake		Hydraulic							
	Combustion engine									
2.01	Engine manufacturer/type		KUBOTA WG2503(EPA Tier 4)				KUBOTA V2403(EPA Tier 4)			
2.02	Fuel type		LPG/ Gas				Diesel			
2.03	Engine power according to DIN ISO 1585	hp	LPG:58.3/GAS:57.4				57.9			
2.04	Rated speed	min-1	2600				2400			
2.05	Number of cylinders/displacement	(-)/L	4/2.491				4/2.434			
2.06	Configuration model		CP(Q)YD20-35-KU1RG3				CPCD20-35-KU24RG3			



## WIDE VIEW MAST

Mast model	Max. lifting height (in)	Load capacity(loder center 24in)(lbs)				Mast height(in)			Mast tilt angle Front/ Rear(°)	Service weight(lbs)			
		CPCD20/CP(Q)YD20	CPCD25/CP(Q)YD25	CPCD30/CP(Q)YD30	CPCD35/CP(Q)YD35	CPCD20-25/CP(Q)YD20-25	CPCD30/CP(Q)YD30	CPCD35/CP(Q)YD35		CPCD20/CP(Q)YD20	CPCD25/CP(Q)YD25	CPCD30/CP(Q)YD30	CPCD35/CP(Q)YD35
M300	118	4000 4000*	5000 5000*	6000 6000*	7000 7000*	79	81	83	6-12	7645	8635	9625	10384
M330	130	4000 4000*	5000 5000*	6000 6000*	7000 7000*	85	87	89	6-12	7700	8690	9680	10450
M350	138	4000 4000*	5000 5000*	6000 6000*	7000 7000*	89	91	93	6-12	7744	8734	9724	10494
M370	146	4000 4000*	5000 5000*	6000 6000*	7000 7000*	93	95	97	6-12	7777	8767	9757	10538
M400	157	4000 4000*	5000 5000*	6000 6000*	7000 7000*	100	103	105	6-12	7942	8932	9922	10703
M450	177	3900 4000*	4600 4900*	6000 6000*	7000 7000*	110	113	115	6-6 *6-6	8030	9020	10021	10802
M500	197	3600 3900*	3700 4800*	5400 6000*	6600 7800*	120	123	125	6-6 *6-6	8129	9119	10120	10912
M550	217	3700*	4600*	5500*	5900*	132	135	137	*3-6	8327	9317	10318	11121
M600	236	3300*	3800*	4500*	4900*	142	144	146	*3-6	8426	9416	10428	11231

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 242lbs.

## WIDE VIEW FULL FREE 2-STAGE MAST

Mast model	Max. lifting height(in)	Load capacity(loder center 24in) (lbs)				Mast height (in)			Free lift (with backrest)(in)			Mast tilt angle Front/Rear	Service weight(lbs)			
		CPCD20/CP(Q)YD20	CPCD25/CP(Q)YD25	CPCD30/CP(Q)YD30	CPCD35/CP(Q)YD35	CPCD20-25/CP(Q)YD20-25	CPCD30/CP(Q)YD30	CPCD35/CP(Q)YD35	CPCD20-25/CP(Q)YD20-25	CPCD30/CP(Q)YD30	CPCD35/CP(Q)YD35		CPCD20/CP(Q)YD20	CPCD25/CP(Q)YD25	CPCD30/CP(Q)YD30	CPCD35/CP(Q)YD35
ZM300	118	4000 4000*	5000 5000*	6000 6000*	7000 7000*	79	81	83	39	35	37	6-12	7711	8690	9834	10538
ZM330	130	4000 4000*	5000 5000*	6000 6000*	7000 7000*	85	87	89	45	41	43	6-12	7777	8756	9900	10615
ZM350	138	4000 4000*	5000 5000*	6000 6000*	7000 7000*	89	91	93	49	45	47	6-12	7810	8800	9944	10659
ZM370	146	4000 4000*	5000 5000*	6000 6000*	7000 7000*	93	95	97	53	49	51	6-12	7854	8844	9988	10703
ZM400	157	4000 4000*	5000 5000*	6000 6000*	7000 7000*	100	103	105	61	57	59	6-12	8030	9020	10164	10879

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 242lbs.

## WIDE VIEW FULL FREE 3-STAGE MAST

Mast model	Max. lifting height(in)	Load capacity(loder center 24in) (lbs)				Mast height (in)			Free lift (with backrest)(in)			Mast tilt angle Front/Rear	Service weight(lbs)			
		CPCD20/CP(Q)YD20	CPCD25/CP(Q)YD25	CPCD30/CP(Q)YD30	CPCD35/CP(Q)YD35	CPCD20-25/CP(Q)YD20-25	CPCD30/CP(Q)YD30	CPCD35/CP(Q)YD35	CPCD20-25/CP(Q)YD20-25	CPCD30/CP(Q)YD30	CPCD35/CP(Q)YD35		CPCD20/CP(Q)YD20	CPCD25/CP(Q)YD25	CPCD30/CP(Q)YD30	CPCD35/CP(Q)YD35
ZSM435	171	4000 4000*	5000 5000*	6000 6000*	7000 7000*	81	83	83	41	37	37	6-6	8107	9097	10120	10802
ZSM450	177	4000 4000*	5000 5000*	6000 6000*	7000 7000*	83	85	85	43	39	39	6-6	8140	9130	10153	10835
ZSM470	185	3800 4000*	4400 5000*	5800 6000*	6800 7000*	85	88	88	46	41	41	6-6 *6-6	8184	9174	10186	10868
ZSM500	197	3400 4000*	3500 4800*	5400 5900*	6200 6600*	91	93	93	51	47	47	6-6 *6-6	8250	9240	10252	10956
ZSM540	213	2900 3800*	3000 4400*	4600 5600*	5300 6300*	94	97	97	55	51	51	6-6 *6-6	8316	9306	10340	11011
ZSM600	236	1900 3300*	2000 3600*	3100 4300*	3800 4900*	102	105	105	63	59	59	6-6 *6-6	8536	9526	10538	11231
ZSM650	256	3200*	3300*	3600*	4000*	110	113	113	71	66	67	*3-3	8668	9658	10670	11352
ZSM700	276	2500*	2600*	2800*	1300*	117	120	120	77	73	74	*3-3	8767	9757	10758	11451

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 242lbs.