



**MANTRAC**

**HELI**



**HELI FORKLIFT TRUCK RANGE**



Welcome to the next level of forklifts.

## ABOUT HELI

HELI is one of the fastest growing manufacturers of industrial forklifts worldwide, ranking among the top seven brands in the world since 2016. The company was established in 1998 in China and leads the industry with a selection of innovative forklift trucks that possess advanced capabilities. Affordable pricing, simple and emission friendly machines continue to make HELI a number one choice for its customers worldwide. Headquartered in Hefei City in Anhui Province, HELI’s main business centres around R&D, manufacturing, sales of industrial trucks, intelligent transport equipment and the relevant core parts. HELI focuses on industrial business and is devoted to manufacturing upmarket equipment.



## WHO IS MANTRAC?

Mantrac Group is the authorised Caterpillar dealer representative for Egypt, Kenya, Tanzania, Uganda, Nigeria, Ghana, Sierra Leone, Iraq and West Siberia (Russia), offering direct export sales of all Cat products and equipment. Our purpose is to supply products and customized solutions that add value and quality to your business. By offering customer value propositions and integrated solutions that are mutually rewarding we intend to establish lasting customer relationships.

We are responsible for distributing and supporting construction machines, power systems and material-handling equipment across ten countries in three continents.

We are not just a supplier. We also provide our customers with solutions supported by over 52 years of expertise, technical ability, experience and in-depth knowledge of local markets. Through hard work and maintaining long lasting partnerships and relationships with our customers, we have become known for our world-class support. Our customers benefit from this in various ways:

- Parts Support and Availability
- Consultation Services
- Operator Training
- Breakdown and Turnaround Services
- Local Support
- Quick turnaround during the ordering, inspection, shipment and transport & delivery process
- Easy access to local Mantrac dealer

*HELI and Mantrac, where affordability and simplicity meet world-class support and availability in a winning combination.*





# HELI PRODUCT RANGE OVERVIEW



## Internal Combustion Counterbalance forklift trucks

FROM 1 TO 10 TONNES

- Reliable drive system produced by Heli
- Design focus on operator and cargo safety
- Hydraulic system cylinder reliability ensured by R&D investment in cylinder base developemnt
- The latest technology has been applied to ensure smooth, accurate and safe steering.
- Designed for operator comfort

## Heavy Trucks

FROM 12 TO 46 TONNES

- Engine system designed for low oil consumption, low noise and consisent power output
- Electric hydraulic gear shifting technology ensures highly-efficient, safe and reliable power matching in the gearbox and torque converter
- Heavy drive axle designed to suit demanding working conditions
- Smooth, and stable brake operation under all conditions

## Port Equipment Trucks

- A Hydraulic oil pump system increases efficiency and energy saving while reducing oil temperature
- A modular electronics system with central CAN-BUS connection
- The ELME spreader has a single type main frame which enhances visibility when high stacking

## Electric Trucks

FROM 1 TO 10 TONNES

- Newly designed wide-view mast
- Excellent steering system
- AC drive motor
- High-efficiency loading/uploading performance

## Warehouse Trucks

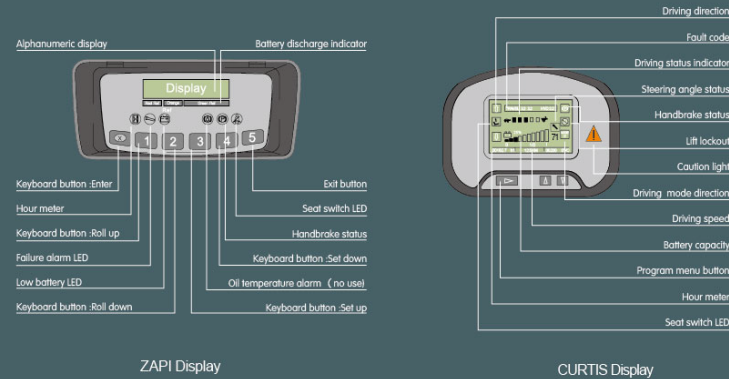
- Designed with a new ergonomic cabin design providing a broader top view for the truck operator
- High Working Efficiency with great reduction in truck energy consumption and noise
- High Stability with the forklift mast fixed to the truck body; the forks tilt instead of the mast, reduced mast shake in high lifting positions.
- High Safety: The truck is equipped with rampway automatic braking, automatic turning deceleration, and emergency power cut-out protection

## Special Trucks (Explosion Proof)

- Security, reliability, low noise and high efficiency
- High-grade explosion-proof safety forklifts.
- Heli can also provide explosion-proof forklift used in both gas and dust environments including IIA IIB Zone 1 Zone2 & DIP A21 A22 TA and T1-T4



The reliable special instrument gives a complete display of the vital information, like operation status, fault detection, etc. It ensures the operator predominate the vehicle status more intuitive and convenient.



Standard configuration

wide view basic mast  
standard fork  
II (III) stage fork arm carrier  
backrest  
control valve  
battery  
standard seat  
overhead guard  
overhead guard rain cover  
liquid crystal combined instrument  
pneumatic tyre  
traction pin  
driver's tool  
LED Lamp  
Horn alert function on rear handle

Optional device

string rod  
driver's cab  
lifting hock  
cargo boom  
tip-over fork  
back view mirror  
side shifting  
paper roll clamp  
warning light (Flashing、totating、buzzing)  
solid tyre  
rear working light  
steel protection net  
multipurpose drum clamp  
load stabilizer  
widen fork arm carrier  
lengthening fork  
load pusher  
lengthening fork extension  
rotating flat clamp  
widen tyre protection device  
auxiliary hydraulic valve component  
tilting/steering cylinder jacket  
coloring tyre  
wide view two/three stage full free mast  
customer made color  
Turn automatic deceleration function  
Battery lifting sling



H3 1-2.5t H3 series  
AC Electric Forklift Truck

Improved driver's view

- > Standard configuration of wide view mast, compact structure of mast and tube pulley block.
- > Large arc of overhead guard and angle optimized grid tray enlarge driver's upper view.

Improved operating comfort

- > 25mm lowered pedal height, 100% enlarged accelerator panel and 40% enlarged brake pedal improve driver's foot operating comfort.
- > Super low torque steering unit makes steering light and easy.
- > Rear handle with horn button ensures safe and comfortable operation while reverse driving.
- > Mast and rear axle buffering improve driving comfort largely.
- > Ratchet hand brake has different brake force on slope and ground, reducing driver's fatigue.



Optimized maintainability  
and safety

- > Special side plate and top cover structure is easy for assembly and disassembly.
- > Highly-mounted rear axle increasing transversal stability by 2.1%.
- > Two driving modes offer optional choices to different working condition.
- > Automatic deceleration when steering is optional so as to ensure the operation safety.

High efficiency  
and energy-saving

- > The use of electric truck dedicated tire with pattern saves more than 10% of the energy during travelling.
- > LED lamps save 80% of the energy.
- > The professional matching design of the components prolongs the battery working time about 10%.





### H3 series AC Electric Forklift Truck



# HELIX

NOTE: \*Detailed information about battery, please contact our salesman or engineer.



a: Clearance

b: Load Length



**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 means 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.

NOTE: (1) \* refers to rated capacity with double tires.

NOTE: (1) \* refers to rated capacity with double tires.  
(2) 1-1.8T: free lifted height 365mm increased without backrest.  
(3) 2-2.5T: free lifted height 290mm increased without backrest.

NOTE: (1) \* refers to rated capacity with double tires.

- (2) 1-1.8T: free lifted height 480mm increased without backrest.
- (3) 1-1.8T: free lifted height 440mm increased without backrest when assembled with pulley block
- (4) 2-2.5T: free lifted height 320mm increased without backrest.
- (5) 2-2.5T: free lifted height 90mm increased without backrest when assembled with pulley block



## Renewable energy technologies

With the use of the excellent load-sensing steering system and AC controlling renewable energy technologies, the forklift is more energy-saving and the working hour of the battery is extended by 15%.

**↑ 15%**  
THE PERFORMANCE OF  
BATTERY INCREASES





series

3-3.5 ton  
AC ELECTRIC  
FORKLIFT

STANDARD EQUIPMENT

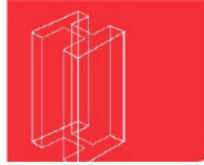
Wide view mast  
Standard fork  
II (III) fork carriage  
Backrest  
Two-spool control valve  
Battery group  
Standard seat  
Overhead guard  
Overhead guard raincoat  
LCD combined display  
Pneumatic tyres  
Traction bar  
Attached tools  
Flashing light

OPTIONS

Boom  
Cab  
Load hook  
String bar  
Hinged fork  
Back view mirror  
Side shifter  
Paper roll clamp  
warning light (rotating or buzzing)  
Solid tyre  
Rear work lights  
Protective fences  
Multi-function barrel clamp  
Load stabilizer  
Widened fork carriage  
Lengthened fork  
Load pusher  
Fork sleeve  
Rotating flat clamp  
Dual-tyres protector  
Accessory hydraulic component  
Tilt/Steering cylinder protection sleeve  
Colored tyre (white/green)  
Wide view double/triplex full free mast  
User-specified color

series / INTELLIGENT  
ENVIRONMENT-FRIENDLY

3-3.5 ton  
AC ELECTRIC  
FORKLIFT



AC ELECTRIC  
FORKLIFT 3-3.5 ton

Newly designed wide-view mast



The newly designed wide-view mast enlarges operators' view effectively and lessens the blind area to provide a clearer vision.

7%  
THE MAST VIEW INCREASES

Excellent steering system



- ✓ New integrated load-sensing steering
- ✓ Power Steering
- ✓ New low-noise gear pump with differential tooth technology

AC drive motor



- ✓ Large ratio gearbox
- ✓ Motor maintenance
- ✓ Maintain more efficient
- ✓ Renewable energy technologies

The wonderful combination of high-power AC motor and the new style gearbox by independent R&D fully enhance the performance of acceleration, driving and grade ability.

50%  
GRADIENT PERFORMANCE INCREASES

25%  
THE MAXIMUM TRAVEL SPEED INCREASES

The truck equipped with more intelligence functions not only ensures the safety performance, but also improves the efficiency and reduces energy consumption.

- ✓ Standard CAN BUS
- ✓ Self-braking on ramp
- ✓ Preventing abnormality operating
- ✓ AC traction controller
- ✓ Emergency power shut-down
- ✓ Electric controller self-protecting
- ✓ Presence of driver sensing system
- ✓ Speed selection function (normal/cutback)

High efficiency loading/unloading performance

The innovative design and configuration of hydraulic system improve the working efficiency largely and provide a very efficient loading/unloading.

20%  
THE MAXIMUM UNLOADED  
LIFTING SPEED INCREASES

12%  
THE MAXIMUM LOADED  
LIFTING SPEED INCREASES

- ✓ New low-speed & high-torque lifting motor
- ✓ MOSFET lifting controller
- ✓ New dynamic load sensing technology in hydraulic system
- ✓ Optional AC lifting system greatly enhances the loading/unloading performance.



Enough operation space

The new optimization layout widens the operator space for ensuring more comfortable and convenient operation.

12%  
THE OPERATING SPACE INCREASES



More intelligent performance



ZAPI CONTROLLER



CURTIS CONTROLLER





AC ELECTRIC  
FORKLIFT

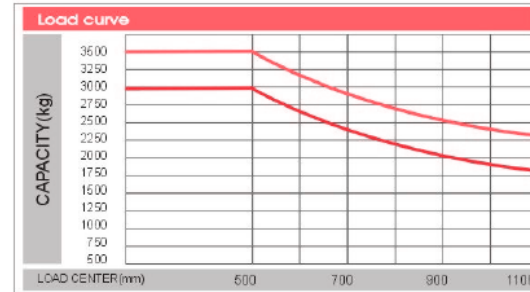
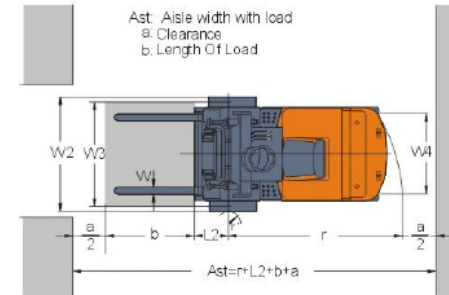
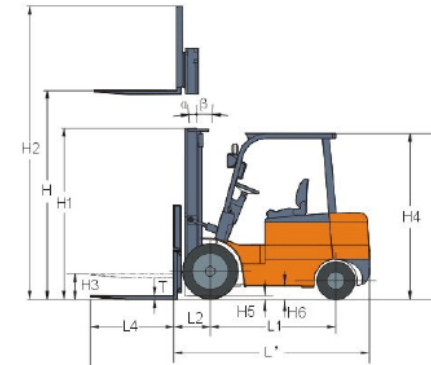
**3-3.5** ton



## Manufacturers Data and Design Characteristics

Characteristics					
1.01	Manufacturer's Name				<b>HELI</b>
1.02	Model Designation			CPD30	CPD35
1.03	Configuration Number			G1/G2	G1/G2
1.04	Load Capacity	Q	kg	3000	3500
1.05	Load Center	c	mm	500	500
1.06	Power Type			Battery	Battery
1.07	Operator Type			Seated	Seated
1.08	Wheelbase	L1	mm	1680	1680
Wheels & Tyres					
2.01	Tyre Type			Pneumatic	Superelastic
2.02	Tyres Number (Front/Rear)			2/2	2/2
2.03	Tread (centre of tyre) front	V3	mm	1000	1000
2.04	Tread (centre of tyre) rear	V4	mm	980	980
2.05	Tyre Size, Front			26 × 9-15-12PR	26 × 9-15
2.06	Tyre Size, Rear			18 × 7-8-14PR	18 × 7-8
Dimensions					
3.01	Load Distance	L2	mm	485	490
3.02	Mast Tilt Angle F/R	α / β	°	6/10	6/10
3.03	Height with Mast Lowered	H1	mm	2075	2180
3.04	Free Lift	H3	mm	145	150
3.05	Standard Lift Height	H	mm	3000	3000
3.06	Height with Mast Extended	H2	mm	4182	4177
3.07	Overhead Guard Height	H4	mm	2215	2215
3.08	Fork Size T × W × L	T × W × L4	mm	45 × 125 × 1070	50 × 125 × 1070
3.09	Fork Carriage to DIN 15173 A/B			3A	3A
3.10	Length to fork face	L*	mm	2485	2550
3.11	Overall Width	V2	mm	1225	1225
3.12	Outside Turning Radius	r	mm	2210	2270
3.13	Ground Clearance at mast, Loaded	H5	mm	135	135
3.14	Ground Clearance at centre of wheelbase, Loaded	H6	mm	150	150
3.15	Right Stack Aisle width (Pallet size 1000x1000mm, clearance 200mm)	Ast	mm	3665	4030
3.16	Right Stack Aisle width (Pallet size 1200x1200mm, clearance 200mm)	Ast	mm	4095	4160
Performances					
4.01	Travel Speed with/without load	km/h		15.0/15.5	14.5/15.0
4.02	Lifting Speed with/without load	mm/s		280/450	250/440
4.02	Lifting Speed with/without load	mm/s		340/460	325/450
4.03	Lowering Speed	mm/s		500	500
4.04	Gradient performance with load	%		15	12
4.05	Max. draw bar pull with load	N		15800	17500
4.06	Acceleration time (10 metres) W/O load	s		5.0/4.7	5.2/4.9
Weight					
5.01	Total Approximate Weight (W/O battery)	kg		4810/3230	5500/3920
5.02	Axle Loading*: Unloaded, Front/Rear	kg		2320/2490	2640/2860
5.03	Axle Loading*: Loaded, Front/Rear	kg		7065/755	8145/855
Battery					
6.01	Battery Voltage/rated capacity(5h)	V/Ah		80/480	80/480
6.02	Battery weight	kg		1580	1580
6.03	Battery to DIN 43531/35/38/A/B/C			43536A	43536A
Motor & Controller					
7.01	Drive Motor - 60 Min. Rating	kW		16.6(AC)	16.6(AC)
7.02	Pump Motor - 15 Min. Rating	kW		13(DC)	13(DC)
7.02	Pump Motor - 15 Min. Rating	kW		13.5(AC)	13.5(AC)
7.03	Drive Motor Control Method			MOSFET/AC	MOSFET/AC
7.04	Pump Motor Control Method			MOSFET/DC	MOSFET/DC
7.04	Pump Motor Control Method			MOSFET/AC	MOSFET/AC
7.05	Service Brake/Parking Brake			Hydraulic/Mechanical	Hydraulic/Mechanical
7.06	Relief Pressure	Mpa		21	21

\* stands for the parameters and configurations when choosing the AC type lifting system.



3.0t 3.5t

### 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 means 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.

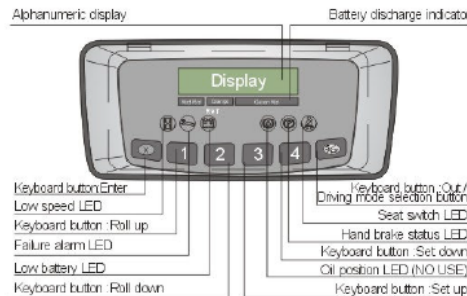


## Renewable energy technologies

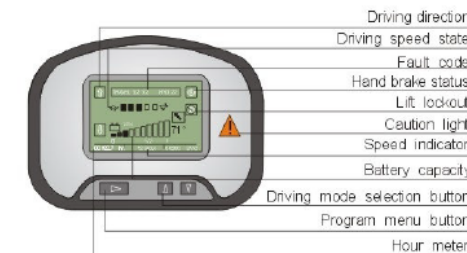
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**↑15%**  
THE PERFORMANCE OF BATTERY  
INCREASES

The reliable special instrument gives a complete display of the vital information, like operation status, fault detection, etc. It ensures the operator predominate the vehicle status more intuitive and convenient.



ZAPI Display



CURTIS Display

## WIDE VIEW MAST

Mast model	Max. Fork height (mm)	Load Capacity (Load center 500mm) (kg)		Overall Height (mm)		Tilt Angle (α/β)
		CPD30	CPD35	CPD30	CPD35	
M200	2000	3000	3500	1685	1680	6/10
M250	2500	3000	3500	1815	1930	6/10
M300	3000	3000	3500	2075	2180	6/10
M330	3300	3000	3500	2215	2330	6/10
M360	3600	3000	3500	2315	2430	6/10
M370	3700	3000	3400	2415	2530	6/10
M400	4000	2950	3350	2615	2730	6/10
M425	4250	2850	3250	2740	2855	6/10
M450	4500	2750	3100	2865	2980	6/10
M500	5000	2400	2650	3115	3230	6/10
M550	5500	2150	2300	3415	3530	3/6
M600	6000	1800	1950	3665	3780	3/6

## WIDE VIEW FULL FREE 2-STAGE MAST

Mast model	Max. fork height (mm)	Load Capacity (Load center 500mm) (kg)		Overall Height (mm)		Free lift (With STD backrest) (mm)		Tilt Angle (α/β)
		CPD30	CPD35	CPD30	CPD35	CPD30	CPD35	
ZM200	2000	3000	3500	1570	1680	344	500	6/10
ZM250	2500	3000	3500	1820	1930	584	750	6/10
ZM300	3000	3000	3500	2070	2180	844	1000	6/10
ZM330	3300	3000	3500	2220	2330	994	1150	6/10
ZM360	3600	3000	3500	2320	2430	1094	1250	6/10
ZM370	3700	3000	3400	2420	2530	1194	1350	6/10
ZM400	4000	2950	3350	2620	2730	1394	1550	6/10
ZM425	4250	2850	3250	2745	2855	1519	1675	6/10
ZM450	4500	2750	3100	2870	2980	1644	1800	6/10
ZM500	5000	2400	2650	3120	3230	1894	2050	6/10
ZM550	5500	2150	2300	3420	3530	2194	2350	3/6
ZM600	6000	1800	1950	3670	3780	2444	2600	3/6

## WIDE VIEW FULL FREE 3-STAGE MAST

Mast model	Max. Fork height (mm)	Load Capacity (Load center 500mm) (kg)		Overall Height (mm)		Free lift (With STD backrest) (mm)		Tilt Angle (α/β)
		CPD30	CPD35	CPD30	CPD35	CPD30	CPD35	
ZSM360	3600	3000	3400	1946	1946	670	670	6/6
ZSM400	4000	2900	3250	2065	2065	795	795	6/6
ZSM435	4350	2750	3100	2190	2190	920	920	6/6
ZSM450	4500	2700	3000	2240	2240	970	970	6/6
ZSM470	4700	2650	2850	2340	2340	970	970	6/6
ZSM480	4800	2600	2800	2340	2340	1070	1070	6/6
ZSM500	5000	2400	2650	2440	2440	1170	1170	6/6
ZSM540	5400	2150	2300	2665	2665	1295	1295	3/6
ZSM600	6000	1800	1950	2790	2790	1520	1520	3/6

NOTE: (1)\* Rated capacity with front dual tires;  
(2)CPD30 The free height of full free 2-stage mast without backrest increase 490mm;  
(3)CPD35 The free height of full free 2-stage mast without backrest increase 412mm;  
(4)The free lift height of full free 3-stage mast without backrest increase 520mm.





h2000  
SERIES

Reliable forklift

1-3.5 ton  
ENGINE POWERED  
FORKLIFT

STANDARD EQUIPMENT

Hour meter  
Horn  
Oil pressure alarm  
Three-spool control valve  
Power steering  
Rubber pedal pad  
Backrest  
Back view mirror  
Front combined lights  
Transmission oil filter  
Engine flameout device  
Parking brake cable  
Water temperature meter  
Attached tools  
Rear combined lights  
Reversing buzzer  
Self-locking tilt valve  
Tilt adjustable steering column

OPTIONS

Cab  
Rotating warning light  
Vertical exhaust  
Double air filter  
Suspension seat  
Extended fork sleeve  
Heater  
Solid tire  
Widening fork carriage  
Windglass  
Purifying muffler  
Fire muffler  
Fire extinguisher  
Rear lights  
Air conditioning (some models)  
Electro-hydraulic switch  
OPS driving control  
Torque converter oil temperature meter

Tilt cylinder sleeve  
Steering cylinder sleeve  
User-specified color  
Optional attachments  
Steel protective fences  
Dual tires and protective devices  
LPG with the flip seat  
LPG single and dual-fuel system  
Power brake  
Side shifter



h2000  
SERIES

Reliable forklift

HELI

1-3.5 ton  
ENGINE POWERED  
FORKLIFT

ENGINE POWERED  
FORKLIFT

1-3.5 ton

h2000  
SERIES

## Reliable forklift

### A reliable Drive system



As the most reliable transmission system produced by HELI, it has been validated by over twenty years' experience in World market. Meanwhile, various ancillary devices of the power system ensure the reliability effectively.

- ✓ Durable transmission
- ✓ Equipped with the intake system & intake silencer
- ✓ Optional air filter pressure alarm device
- ✓ Automatic engine preheating system
- ✓ Cyclone Air Filter
- ✓ Lost foam casting
- ✓ Various high-power engines are available for customers' optional choices, and the emission meets the latest European & American environmental regulation.

### A reliable mast



The high internal-qualified mast confirmedly ensures the safety of the operator, truck and cargo.  
Standard configuration of the wide-view mast enlarges operators' view effectively, and ensures loading /unloading operations more reliable.

- ✓ Using the best German steel material for triplex mast (option only for triplex mast)
- ✓ The frame of mast has more strength basing on the enlarged channel interface.
- ✓ Clear visibility for standard wide-view mast
- ✓ The channel with own patented technology has the first-rate quality.

### A reliable hydraulic system

HELI has the most professional R&D base of cylinders, where we take advantage of the advanced manufacturing technologies and detecting means to ensure the reliability of all cylinders of the hydraulic system.

- ✓ Standard tilt cylinder by HELI
- ✓ Standard lift cylinder by HELI
- ✓ Standard steering cylinder by HELI
- ✓ Self-locking tilt cylinder
- ✓ Standard hydraulic circuit filter
- ✓ Speed buffer device on lifting system



### A reliable steering system

The steering system with new technologies not only provides a smoother swerve and faster positioning & steering, but also effectively ensures operators' safety.



- ✓ Wearable tire
- ✓ Smaller turning radius
- ✓ Full hydraulic power steering

### Comfortable operation space

Large operation space with ergonomic-design and configuration ensure the operation more comfortable & convenient, and effectively enhance the efficiency & safety of operation.

- ✓ Filled with noise-reducing and buffer rubber material between bonnet and frameworks
- ✓ Newly patented insulation materials of Bonnet
- ✓ Well-designed non-slip mat
- ✓ Special display with easily reading
- ✓ Standard files packet
- ✓ Exhaust system is flexibly connected with the frame.

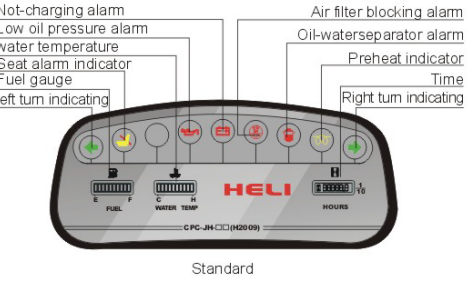




Manufacturers Data and Design Characteristics																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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6	Operation		Driver seated									Driver seated																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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7	Overall max.lifting height (with backrest)		h4	mm	4030	4030	4030	4030	4030	4262	4262	4030	4030	4030	4030	4030	4262	4262																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
8	Max.Lifting height		h3	mm	3000									3000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
9	Height mast retracted(upright)		h1	mm	1995	1995	1995	2000	2000	2070	2180	1995	1995	1995	2000	2000	2070	2180																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
10	Free lift height		h2	mm	152	155	155	170	170	160	170	152	155	155	170	170	160	170																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
11	Backrest height(from upper face of forks)		h8	mm	1008	1005	1005	995	995	1227	1222	1008	1005	1005	995	995	1227	1222																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
12	Overhead Guard clearance(from face of seat)		h7	mm	1025									1025																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
13	Overall height(overhead guard)		h6	mm	2070	2070	2070	2070	2070	2090	2090	2070	2070	2070	2070	2070	2090	2090																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
14	Overall length(with forks)		L1	mm	2941	3165	3213	3442	3667	3772	3783	2941	3165	3213	3442	3667	3772	3783																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
15	Overall length(without forks)		L2	mm	2171	2245	2293	2522	2597	2702	2713	2171	2245	2293	2522	2597	2702	2713																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
16	Front overhang		X	mm	418	421	421	482	482	487	498	418	421	421	482	482	487	498																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
17	Rear overhang		L4	mm	350	420	465	440	515	515	515	350	420	465	440	515	515	515																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
18	Wheel base		L5	mm	1400	1400	1400	1600	1600	1700	1700	1400	1400	1400	1600	1600	1700	1700																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
19	Coupler height		h5	mm	250	250	250	290	290	310	310	250	250	250	290	290	310	310																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
20	Min.ground clearance under mast		m1	mm	110	110	110	110	110	135	135	110	110	110	110	110	135	135																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
21	Overall width		B	mm	1070	1070	1070	1150	1150	1225	1225	1070	1070	1070	1150	1150	1225	1225																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
22	Lateral fork adjustment outside of fork(Max./Min.)		S	mm	950/200									950/200																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
23	Tread(front)		R	mm	890	890	920	970	970	1000	1000	890	890	920	970	970	1000	1000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
24	Tread(rear)		P	mm	920	920	920	970	970	970	970	920	920	920	970	970	970	970																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
25	Outside turning radius		Wa	mm	1880	1955	1985	2170	2240	2400	2420	1880	1955	1985	2170	2240	2400	2420																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
26	Inside turning radius		V	mm	110	110	95	160	160	200	200	110	110	95	160	160	200	200																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
27	Min.intersecting aisle		Ra	mm	1977	2052	2093	2200	2280	2380	2400	1977	2052	2093	2200	2280	2380	2400																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
28	Tilting angles(forward/backward)		qβ		6° /12°									6° /12°																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
29	Fork dimensions(axbxc)		mm	770×100×32			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35			920×100×35		

Engin Model and Main Specification for Option					
Engine Model	Rated Power /Rotating Speed (kW/rpm)	Rated Torque/Rotating Speed (Nm/rpm)	Engine Capacity (L)	Number of cylinders	Remark
Kubota V2403	35.4/2400	161.3/1600	2.434	4	For 1-2.5t
Kubota V3600	36.5/2600	164/1500	2.434	4	For 3-3.5t
QUANCHAI QC490GP	46.9/2400	210/1600	3.62	4	For 2-3.5t
XINCHANG A490BPG	39/2650	162/1950	2.67	4	For 2-3.5t
XINCHANG A498BPG	36.8/2650	148/1900	2.54	4	For 2-3.5t
XINCHANG A498BPG	45/2500	193/1800	3.168	4	For 2-3.5t
DACHAI CA498-97	45/2500	170~180/1600~1800	3.168	4	For 2-3.5t
JIANGUNG HJ493	33/2300	153/1800	2.771	4	For 1-1.8t
JIANGUNG HJ493	39/2500	165/1800	2.771	4	For 2-3.5t
XINCHANG NC485BPG	30/2600	131/1700~1900	2.27	4	For 1-1.8t

Reliable special designed instrument



The reliable special instrument gives a complete display of the vital information, like operation status, fault detection, etc. It ensures the operator predominate the vehicle status more intuitive and convenient.



Reliable special designed instrument

Engine oil pressure alarm indicator

oil-water separation alarm indicator

Engine fault indicator

Neutral indicator

Left turning indicator

Oil lever gauge

Hour meter

Preheating indicator

No charging alarm indicator

Seat switch

filter block alarm indicator

high torque converter oil temperature alarm indicator

Right turning indicator

Water temperature meter

The reliable special instrument gives a complete display of the vital information, like operation status, fault detection, etc. It ensures the operator predominate the vehicle status more intuitive and convenient.

✓ Stepping motor core

✓ Electrical safety standard meets CE requirements

Standard configuration

Optional

Hour meter  
Horn  
Oil pressure alarm  
Three-spool control valve  
Power steering  
Aluminum pedal pad  
Backrest  
Back view mirror  
LED front combined lights  
Transmission oil filter  
Engine flameout device  
Parking brake cable  
Water temperature meter  
Attached tools  
LED Rear combined lights  
Reversing buzzer  
Self-locking tilt valve  
Tilt adjustable steering column  
Endurance board awing  
Standard forks  
Central Control Box  
Hydraulic circuit oil filter  
Speed limiting valve  
Oil meter  
Charging indicator  
Wide view mast  
Air intake device  
Durable tyre  
Operation handle  
Traction pin  
Front lamp  
Hydraulic oil gauge  
Overhead guard  
Torque converter oil dipstick  
Combined meter  
Engine fault indicator

Cab  
Rotating warning light  
Vertical exhaust  
Double air filter  
Suspension seat  
Extended fork sleeve  
Heater  
Solid tyre  
Widening fork carriage  
Windglass  
Purifying muffler  
Fire muffler  
Fire extinguisher  
Rear lights  
Air conditioning (some models)  
Electro-hydraulic switch  
OPS driving control  
Torque converter oil temperature meter  
Tilt cylinder sleeve  
Steering cylinder sleeve  
User-specified color  
Optional attachments  
Steel protective fences  
Dual tires and protective devices  
LPG with the flip seat  
LPG single and dual-fuel system  
Power brake  
Smart fleet management system (optional)

2-3.5 t

H2000 series Internal Combustion Counterbalanced Forklift Truck



H2000 SERIES 2-3.5 t

A reliable Drive system



The transmission box designed and manufactured by HELI specially for the model is equipped on the truck.As the most reliable transmission system produced by HELI, it has been validated by over twenty years' experience in World market. Meanwhile, various ancillary devices of the power system ensure the reliability effectively.

- Durable transmission
- Equipped with the intake system & intake silencer
- Optional air filter pressure alarm device
- Automatic engine preheating system
- Cyclone Air Filter
- Lost foam casting
- Meeting China III (GB20891-2014)
- Environment friendly engine
- lower vibration and noise

A reliable mast

The superior mast confirmedly ensures the safety of the operator, truck and cargo. Standard configuration of the wide-view mast enlarges operators'view effectively, and ensures loading /unloading operations more reliable.

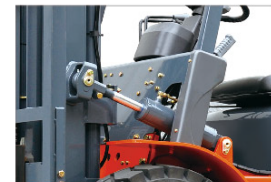
- The frame of mast has more strength basing on the enlarged channel interface.
- Clear visibility for standard wide-view mast.
- The channel with own patented technology has the first-rate quality.

HELI smart fleet management system (optional)

- Vehicle positioning
- Remote diagnosis
- Remote monitoring
- Maintenance reminder
- Battery management
- Statistical form
- Vehicle management
- Identification recognition (optional)
- Weight management (optional)
- Collision management (optional)



A reliable hydraulic system



HELI has the most professional R&D base of cylinders, where we take advantage of the advanced manufacturing technologies and detecting means to ensure the reliability of all cylinders of the hydraulic system.

- Standard tilt cylinder by HELI
- Standard lift cylinder by HELI
- Standard steering cylinder by HELI
- Self-locking tilt cylinder
- Standard hydraulic circuit filter
- Speed buffer device on lifting system

A reliable steering system

The steering system with new technologies not only provides a smoother swerve and faster positioning & steering, but also effectively ensures operators' safety.

- Wearable tyre
- Smaller turning radius
- Full hydraulic power steering



Comfortable operation space

Large operation space with ergonomic-design and configuration make the operation more comfortable & convenient, and effectively enhance the efficiency & safety of operation.

- Noise isolating and buffering materials are filled between engine hood and frame;
- Patented engine hood with new noise isolating and buffering materials
- Well-designed anti-slip mat
- Easy reading meter
- Storage box
- Flexible connection between exhausting system and frame



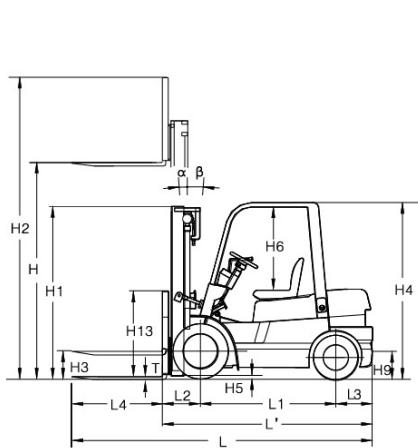
## H2000 SERIES 2-3.5 t



# HELI

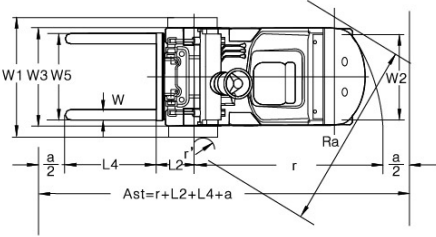
Manufacturer and technical parameters											
Characteristics											
1.01	Manufacturer			HELI							
1.02	Model		CPC20	CPCD20	CPC25	CPCD25	CPC30	CPCD30	CPC35	CPCD35	
1.03	Power unit		Diesel								
1.04	Rated Capacity	kg	2000		2500		3000		3500		
1.05	Load Center	mm	500								
1.06	Operation		Driver seated								
Dimensions											
2.01	Max.Lifting height	H	mm	3000							
2.02	Height mast retracted(upright)	H1	mm	1995		1995		2070		2180	
2.03	Overall max.lifting height (with backrest)	H2	mm	4030		4030		4225		4225	
2.04	Free lift height	H3	mm	70		70		65		65	
2.05	Overall height(overhead guard)	H4	mm	2070		2070		2090		2090	
2.06	Min.ground clearance under mast	H5	mm	110		110		135		135	
2.07	Overhead Guard clearance(from face of seat)	H6	mm	1035							
2.08	Coupler height	H9	mm	290		290		310		310	
2.09	Backrest height(from upper face of forks)	H13	mm	1000		1000		1227		1177	
2.10	Overall length(with forks)	L	mm	3432		3657		3762		3783	
2.11	Overall length(without forks)	L'	mm	2512		2587		2707		2728	
2.12	Wheel base	L1	mm	1600		1600		1700		1700	
2.13	Front overhang	L2	mm	472		472		477		495	
2.14	Rear overhang	L3	mm	440		515		515		515	
2.15	Overall width	W1	mm	1150		1150		1225		1225	
2.16	Tread(front)	W3	mm	970		970		1000		1000	
2.17	Tread(rear)	W2	mm	970		970		970		970	
2.18	Lateral fork adjustment outside of fork(Max./Min.)	W5	mm	1030/244		1030/244		1060/250		1060/250	
2.19	Outside turning radius	r	mm	2170		2240		2400		2420	
2.20	Inside turning radius	r'	mm	160		160		200		200	
2.21	Min.intersecting aisle	Ra	mm	2200		2280		2380		2400	
2.22	Tilting angles(forward/backward)	α/β	deg	6/12							
2.23	Fork dimensions(L4xWxT)	L4xWxT	mm	920×122×40		1070×122×40		1070×125×45		1070×125×50	
Performance											
3.01	Max. Traveling speeds(With/Without load)	km/h	17/19				18/19		19/19		
3.02	Lifting Speeds(With/Without load)	mm/s	570/600				455/480		360/380		
3.03	Lowering Speeds(With/Without load)	mm/s	450/550				450/500		350/400		
3.04	Max. Draw-bar pull.(With/Without load)	kN	17/12.5	19/12.5	16.5/11.8	18.5/11.8	18.6/13.4	19.5/13.4	17.8/14.3	19.6/14.3	
3.05	Max. Negotiable Gradient(With/Without load)	%	21/20	24/22	18/20	24/22	15/21	21/20	15/20	16/21	
Weights											
4.01	Service Mass	kg	3380		3700		4300		4700		
4.02	Load Wheel with load(Front/Rear)	kg	4770/610		5460/740		6420/880		7390/810		
4.03	Load Wheel without load(Front/Rear)	kg	1600/1780		1510/2190		1710/2590		1830/2870		
Tyres											
5.01	Wheels number front/rear(x=driven)		2X/2								
5.02	Tyre Type		Pneumatic								
5.03	Tyre size(front)		7.00-12-12PR					28×9-15-14PR			
5.04	Tyre size(rear)		6.00-9-10PR					6.50-10-10PR			
5.05	Service Brake		Hydraulic-Foot Pedal								
5.06	Paking Brake		Mechanical-Hand Lever								

Engine Model and Main Specification for Option						
Engine Model	Rated power/ Rotating speed (Kw/rpm)	Rated power/ Rotating speed (Nm/rpm)	Engine Capacity(L)	Number of cylinders	Emission	Power unit
DACHAI CA498-06T3R-A122	45/2500	196/1800	3.168	4-98×105	China Stage III	Diesel
QUANCHAI 4C2-50V31	36.8-2500	157/1800	2.79	4-92×105	China Stage III	Diesel
XINGCHANG 4D27G31	36.8-2500	156/1700-1900	2.67	4-90×105	China Stage III	Diesel
ISUZU 4JG2PE-01	36/2450	175/1700	3.059	4-95.4×107	Euro Stage IIIA / China Stage III	Diesel
ISUZU C240PKJ-30	35.4/2500	139.9/1800	2.369	4-86×102	Euro Stage IIIA / China Stage III	Diesel
Kubota V3600	46.9/2400	209.8/1600	3.62	4-98×120	Euro Stage IIIA / Epa Interim Tier4	Diesel
Kubota V2403	34.1/2400	155.9/1600	2.434	4-87×102.4	Euro Stage II A/China Stage III / Epa Interim Tier 4	Diesel
XIN CHANG C490BPG-25	36.8/2650	156/1800~2000	2.67	4-90x105	Euro Stage IIIA	Diesel
JMC HJ493G	36.5/2500	165/1800	2.771	4-93×102	Euro Stage IIIA	Diesel
DACHAI CA498-97	45/2500	196/1800	3.168	4-98×105	China Stage II	Diesel
JMC HJ493	36.5/2500	156/1800	2.771	4-93×102	China Stage II	Diesel
XINGCHANG C490BPG-200	40/2650	160/1800~2000	2.67	4-90×105	China Stage II	Diesel
QUANCHAI QC490GP	39/2650	160/1800	2.67	4-90×105	China Stage II	Diesel

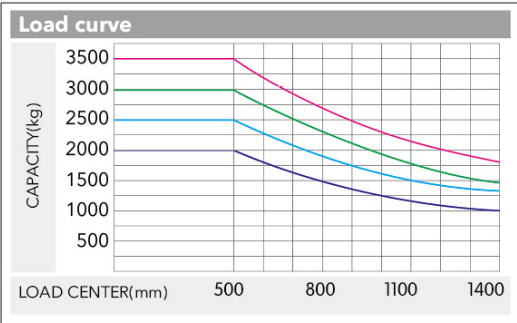


Ast:Right angle stacking aisle width  
a:Clearance  
L4:Length of fork

GROUND CLEARANCE		2x/2.5t	3t
Drive Axle		135	140
Steer Axle		150	150
Counter Weight		140	155
Frame		120	130



Engine Model and Main Specification for Option						
Engine Model	Rated power/ Rotating speed (Kw/rpm)	Rated power/ Rotating speed (Nm/rpm)	Engine Capacity(L)	Number of cylinders	Emission	Power unit
NISSAN K21	31.2/2200	143.7/1600	2.065	4-89×83	-	Gasoline/LPG
NISSAN K25	37.4/2400	176.5/1600	2.488	4-89×100	-	Gasoline/LPG



CPC20/CPCD20 CPC25/CPCD25 CPC30/CPCD30 CPC35/CPCD35

**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.

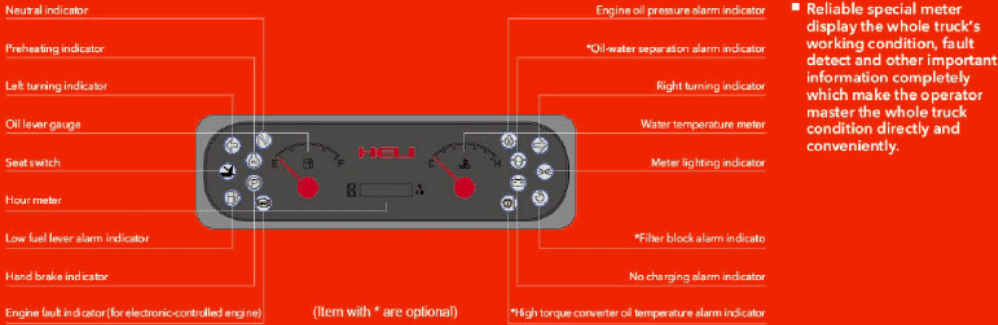
2-3.5t WIDE VIEW MAST													
Mast model	Max.fork height (mm)	Capacity at 500mm(Load center)(kg)				mast overall height(fork to the ground)(mm)			mast tilting angle α/β(°)	Service Weight (kg)			
		CPC20/ CPCD20	CPC25/ CPCD25	CPC30/ CPCD30	CPC35/ CPCD35	2-2.5t	3t	3.5t		CPC20/ CPCD20	CPC25/ CPCD25	CPC30/ CPCD30	CPC35/ CPCD35
M200	2000	2000	2500	3000	3500	1495	1570	1680	6/12	3285	3605	4205	4590
M250	2500	2000	2500	3000	3500	1745	1820	1930	6/12	3335	3655	4250	4645
M300	3000	2000	2500	3000	3500	1995	2070	2180	6/12	3380	3700	4300	4700
M330	3300	2000	2500	3000	3500	2145	2220	2330	6/12	3405	3725	4330	4730
M350	3500	2000	2500	3000	3500	2245	2320	2430	6/12	3430	3750	4350	4750
M370	3700	2000	2500	3000	3500	2345	2420	2530	6/6 6/12	3445	3765	4370	4775
M400	4000	2000	2500	3000	3500	2545	2620	2730	6/6 6/12	3510	3830	4450	4860
M425	4250	1900 *2000	2250 *2500	2850 *3000	3100 *3200	2670	2745	2855	6/6 6/12	3535	3855	4480	4885
M450	4500	1800 *1900	2150 *2400	2750 *3000	3000 *3050	2795	2870	2980	6/6 6/12	3555	3875	4500	4915
M500	5000	1600 *1700	1650 *2200	2400 *2850	2500 *2850	3045	3120	3230	6/6 6/6	3605	3925	4555	4970
M550	5500	*1600	*1950	*2400	*2500	3345	3420	3530	*3/6	3685	4005	4655	5075
M600	6000	*1500	*1800	*2200	*2300	3595	3670	3780	*3/6	3735	4055	4700	5125

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.

2-3.5t WIDE VIEW FULL FREE 2-STAGE MAST																
Mast model	Max.fork height (mm)	Capacity at 500mm( Load center)(kg)				mast overall height (fork to the ground)(mm)			free lifting height (with backrest)(mm)			mast tilting angle α / (°)	Service Weight (kg)			
		CP/200	CP/250	CP/300	CP/350	2-2.5t	3t	3.5t	2-2.5t	3t	3.5t		CP/200	CP/250	CP/300	CP/350
ZM200	2000	2000	2500	3000	3500	1495	1570	1680	495	340	340	6/12	3330	3640	4240	4640
ZM250	2500	2000	2500	3000	3500	1745	1820	1930	745	590	590	6/12	3370	3690	4300	4700
ZM300	3000	2000	2500	3000	3500	1995	2070	2180	955	840	840	6/12	3430	3750	4360	4760
ZM330	3300	2000	2500	3000	3500	2145	2220	2330	1145	990	990	6/12	3460	3780	4380	4780
ZM350	3500	2000	2500	3000	3500	2245	2320	2430	1245	1090	1090	6/6 6/6	3480	3810	4400	4800
ZM370	3700	2000	2500	3000	3500	2345	2420	2530	1370	1190	1190	6/6 6/12	3510	3830	4420	4820
ZM400	4000	2000	2500	3000	3200	2545	2620	2730	1545	1390	1390	6/6 6/12	3590	3910	4500	4900
ZM425	4250	1900 *2000	2250 *2500	2850 *3000	3100 *3200	2670	2745	2855	1670	1515	1515	6/6 6/12	3620	3940	4530	4930
ZM450	4500	1800 *1600	2150 *1650	2750 *2400	3000 *2500	2795	2870	2980	1795	1640	1640	6/6 6/6	3640	3960	4550	4950
ZM500	5000	1700 *1700	1650 *2200	2400 *2850	2500 *2850	3045	3120	3230	2045	1890	1890	6/6 6/6	3700	4020	4605	5005
ZM550	5500	*1600	*1950	*2400	*2500	3345	3420	3530	2345	2190	2190	*3/6	3800	4120	4730	5130
ZM600	6000	*1500	*1800	*2200	*2300	3595	3670	3780	2595	2440	2440	*3/6	3840	4160	4775	5175



Reliable special designed instrument



Standard configuration

Horn	Standard fork
Control valve	Integrated electric box
Wholly hydraulic-powered steering	Hydraulic oil circuit filter
Semi-suspension seat	Flow regulator
Backrest	Wide view mast
Back view mirror	Air intaking device
Front combined lamp	Durable tread tyre
Transmission oil filter	Lifting and tilting operation lever
Engine flame out device	Traction pin
Cable type parking brake	Head lamp
Driver's tool	Hydraulic oil dipstick
Rear combined lamp	Overhead guard
Backward buzzer	Torque converter oil dipstick
Tilt oil circuit self lock valve	Combined instrument
Tilt adjustable steering column	Electro-hydraulic direction changing
Overhead guard rain cover	

Optional

Driver's cab	Torque converter oil temperature meter
Warning light	Tilting cylinder bush
High air exhausting device	Customer made color
Double air cleaner	Optional attachments
Suspension seat	Steel protection net
Lengthening fork extension	Double-tyre and protection device
Warm air blower	Rotating seat for lpg
Solid tyre	Single/dual fuel system
Widen fork arm carrier	Power braking
Wind shield	Low speed alarm
Cleansing muffler	
Fire extinguisher muffler	
Fire extinguisher	
Rear working light	
Air conditioner (certain type)	
Travelling control system	



## 2-3.5ton

### H3 SERIES INTERNAL COMBUSTION COUNTERBALANCED FORKLIFT TRUCK



## H3 SERIES INTERNAL COMBUSTION COUNTERBALANCED FORKLIFT TRUCK

# 2-3.5ton

### Improved performance, superior quality



#### Vibration 20% reduced

#### Noise 3dB reduced

- > Cushion connection and wholly suspension driver's cab absorb whole truck's vibration effectively.
- > Noise around ear is reduced through down the tilting cylinder under the floor board and using fully closed patch type driver's cab.
- > Lower damping device inside the lifting system reduces mast shock and vibration, avoiding crash noise caused by goods falling to the ground.

#### Workspace 45% increased

- > Space around foot is effectively increased through up steering unit and using suspension type inching.
- > The operation space is enlarged by heightened overhead guard and using large arc shape of the overhead guard's front leg
- > Semi-suspension seat, steering wheel with small diameter, electro-hydraulic direction changing and automobile type double joystick combined switch effectively improve driving comfort.

#### Operator's view 20% improved

- > Operator's front view is improved through the assembling of stand wide view mast and lowering the dashboard.
- > Operator's rear view improved through the CAE optimal designed counterweight.



#### Working efficiency 20% improved

- > Small turning radius makes steering flexible and easy.
- > The truck has fast lifting speed, good gradeability and high efficiency.
- > High working efficiency guarantees the truck could meet the requirements for various kinds of complicated work condition perfectly wherever at port, dock and railway station.

#### Loading capacity increased over 5%

#### Stability 5% improved

#### Reliability 40% improved

- > The hot air reflow isolating device, optimal thermal dissipation duct and aluminum plate-fin type radiator improve cooling ability and ensure engine work reliability.
- > Automobile type oil filling cap and optimal oil filling channel structure and process ensure whole truck's safety.
- > The constant displacement pump load sensing steering system increases the lifting speed and reduces the hydraulic oil temperature.
- > The optimal design of key parts like frame, mast, overhead guard and steering axle improve the whole truck's safety and reliability.
- > The reposition of whole truck's gravity center improve loading capacity, stability and safety.

#### Engine hood open angle increased to 80°

- > Enlarged internal space is convenient for engine and transmission box maintenance.
- > Increased hood open angle contributes to quick and convenient maintenance.





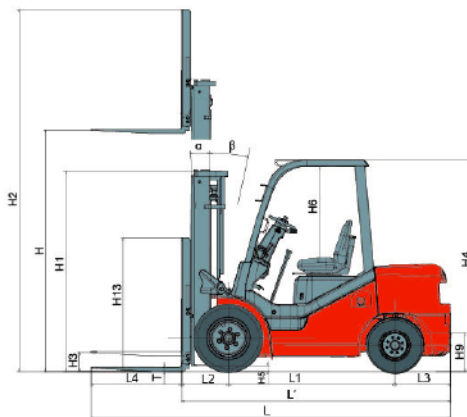


# H3 SERIES INTERNAL COMBUSTION COUNTERBALANCED FORKLIFT TRUCK 2-3.5ton

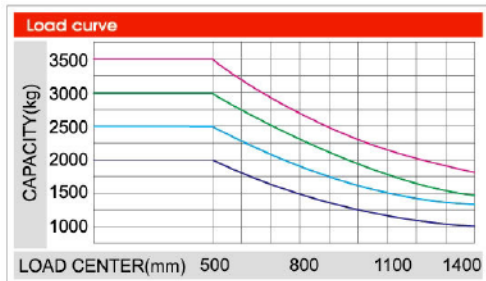
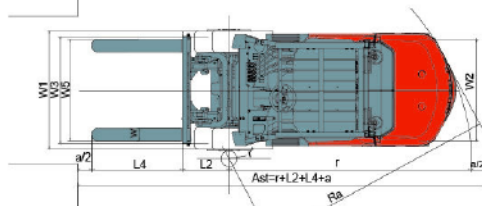


## Manufacturer and technical parameters

Character		HELI				
1.01	Manufacturer					
1.02	Model	CPC20 / CPCD20 / CPQ(Y)20 / CPCQ(Y)D20CPC25 / CPCD25 / CPQ(Y)25 / CPCQ(Y)D25CPC30 / CPCD30 / CPQ(Y)30 / CPCQ(Y)D30CPC35 / CPCD35 / CPQ(Y)35 / CPCQ(Y)D35				
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
2.02	Mast overall height(Fork to the ground and mast be vertical)	H1	mm	2000	2000	2065
2.03	Max.fork lifting height(With backrest)	H2	mm	4030	4030	4245
2.04	Free lift height	H3	mm	165	165	160
2.05	Overall height(Overhead guard)	H4	mm	2150	2150	2170
2.06	Min.ground clearance(At the mast)	H5	mm	115	115	135
2.07	Distance from the surface of the seat to the overhead guard	H6	mm	1030	1030	1030
2.08	Traction pin height	H9	mm	275	275	280
2.09	Backrest height(Calculated from the surface of the fork)	H13	mm	1000	1000	1227
2.10	Overall length(With fork/Without fork)	[L/L']	mm	3500/2580	3708/2638	3818/2748
2.11	Wheel base	L1	mm	1650	1650	1700
2.12	Front overhang	L2	mm	473	473	478
2.13	Rear overhang	L3	mm	457	515	570
2.14	Overall width	W1	mm	1150	1150	1225
2.15	Tread (Front tread/Rear tread)	[W3/W2]	mm	970/970	970/970	1000/970
2.16	Fork adjustable range(the external of the fork)(Max./Min.)	W5	mm	1030/244	1030/244	1060/250
2.17	Min.turning radius(Exterior)	r	mm	2255	2310	2400
2.18	Min.turning radius(Interior)	r'	mm	180	180	200
2.19	Min.right angle stacking aisle width	Ra	mm	2274	2330	2380
2.20	Mast tilting angle	$\alpha / \beta$	%	6°/12°	6°/12°	6°/12°
2.21	Fork size	L4×W×T	mm	920×122×40	1070×122×40	1070×125×45
Weight						
3.01	Total weight	kg	3420	3800	4370	4800
3.02	Weight distribution loaded (Front/Rear)	kg	4794/654	5520/820	6460/910	7470/830
3.03	Weight distribution unloaded (Front/Rear)	kg	1643/1805	1584/2256	1710/2660	1880/2920
Wheel and tyre						
4.01	Wheel number x = drive wheel (Front/Rear)	2X/2				
4.02	Tyre type(Front/Rear)	Pneumatic tyre				
4.03	Tyre size(Front/Rear)	7.00-12-12PR/6.00-9-10PR7.00-12-12PR/6.00-9-10PR28×9-15-12PR/6.50-10-10PR26×9-15-14PR/6.50-10-10PR				
4.04	Service brake	Hydraulic-Foot Pedal				
4.05	Parking brake	Mechanical-Hand Lever				



Ast: right angle stacking aisle width  
a: Clearance  
L4: Fork Length



**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.

WIDE VIEW MAST													
Mast model	Max. lifting height (mm)	Load capacity (load center 500mm)				Mast overall height (fork to the ground)			Service weight				Mast tilting angle (°) $\alpha / \beta$
		CPQ(Y)20 / CPQ(Y)D20	CPQ(Y)25 / CPQ(Y)D25	CPQ(Y)30 / CPQ(Y)D30	CPQ(Y)35 / CPQ(Y)D35	2-2.5t	3t	3.5t	CPQ(Y)20 / CPQ(Y)D20	CPQ(Y)25 / CPQ(Y)D25	CPQ(Y)30 / CPQ(Y)D30	CPQ(Y)35 / CPQ(Y)D35	
M200	2000	2000	2500	3000	3500	1500	1570	1680	3340	3720	4280	4700	6-12
M250	2500	2000	2500	3000	3500	1750	1820	1930	3385	3765	4335	4750	6-12
M300	3000	2000	2500	3000	3500	2000	2070	2180	3420	3800	4370	4800	6-12
M330	3300	2000	2500	3000	3500	2150	2220	2330	3460	3840	4395	4830	6-12
M350	3500	2000	2500	3000	3500	2250	2320	2430	3480	3860	4420	4850	6-12
M370	3700	2000	2500	3000	3500	2350	2420	2530	3500	3880	4430	4870	6-12
M400	4000	2000	2500	3000	3500	2500	2570	2680	3565	3945	4490	4940	6-12
M425	4250	2000	2500	3000	3500	2600	2670	2780	3590	3970	4510	4970	6-12
M450	4500	2000	2500	3000	3500	2700	2770	2880	3615	3995	4535	4990	6-12
M500	5000	2000	2500	3000	3500	3050	3120	3230	3655	4035	4575	5040	6-12
M550	5500	2000	2500	3000	3500	3350	3420	3530	3740	4120	4745	5245	6-12
M600	6000	2000	2500	3000	3500	3600	3670	3780	3785	4165	4795	5285	6-12

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.

Performance																			
Model		CPC20	CPCD20	CPC25	CPCD25	CPC30	CPCD30	CPC35	CPCD35	CPQ(Y)20	CPQ(Y)D20	CPQ(Y)25	CPQ(Y)D25	CPQ(Y)30	CPQ(Y)D30	CPQ(Y)35	CPQ(Y)D35		
Max.drawbar pull (Loaded/Unloaded)	kN	12.5/8.5	16/11.5	15/8.5	16.5/11.5	17/14.5	19/14.5	18/14.5	21/14.5	15/10.5	16/10.5	15/10.5	16.5/10.5	17/13.5	18/13.5	18/13.5	20/13.5		
Max.Gradeability (Loaded/Unloaded)	%	15/20	20/20	15/20	20/20	17/20	23/20	15/20	21/20	15/20	20/20	15/20	20/20	17/20	23/20	15/20	21/20		
Max.traveling speed (Loaded/Unloaded)	km/h	17/19		17/19		19/20		19/19		17/19		17/19		19/20		19/20			
Lifting Speed (Loaded/Unloaded)	mm/s	560/600		560/600		500/550		400/420		520/570		520/570		420/480		370/410			
Lowling Speed (Loaded/Unloaded)	mm/s	450/500		450/500		450/550		350/400		450/500		450/500		450/550		350/400			
Drive and transmission control device																			
Engine mode		ISUZU C240PKJ						ISUZU 4JG2						GCT k25					
Engine rated power	kW/rpm	35.4/2500						44.9/2450						37.4/2400					
Engine rated torque	Nm/rpm	139/1800						184.7/1600-1800						176.5/1600					
Engine cylinder number-borexstroke		4-86×102						4-89.4x107						4.89×100					
Engine displacement	L	2.369						3.05						2.488					
Engine type								Diesel						Gasoline or LPG					
Emission		Euro IIIA						CHINA STAGE II											
Battery(Voltage/Capacity)	V/Ah							12/80						12/60					
Engine fuel tank capacity	L													60					
Transmission box shifting gears (Front/Rear type)														1-1Power Shift T/M / 2-2 Manual Shift T/M					

## Engine Model and Main Specification for Option

Engine model	Rated power/ rotating speed (Kw/rpm)	Rated power/ rotating speed (Nm/rpm)	Engine displacement (L)	Engine cylinder number	Cylinder number - BorexStroke	Engine type	Emission
JMC HJ493	39/2500	165/1800	2.771	4	4-93x102	Diesel	CHINA STAGE II
DACHAI CA498	45/2500	170~180/1600~1800	3.168	4	4-98x105	Diesel	CHINA STAGE II
GCT K21	31.5/2200	140/1600	2.065	4	4-89x83	Gasoline or LPG	
Cummins QSF2.8	36/2500	180/800~1800	2.8	4	4-94x100	Diesel	Euro IIIA
Deutz F4M2011	45/2500	190/1700	3.108	4	4-94x112	Diesel	CHINA STAGE II
JMC HJ 493G43	36.8/2500	156/1800	2.771	4	4-93x102	Diesel	Euro IIIA

## WIDE VIEW FULL FREE 2-STAGE MAST

Mast model	Max. lifting height (mm)	Load capacity (load center 500mm)					Mast overall height (fork to the ground)			Free lifting height (with backrest)			Service weight					Mast tilting angle (°) α / β
		CPQ(Y)20 / CPQ(Y)D20	CPQ(Y)25 / CPQ(Y)D25	CPQ(Y)30 / CPQ(Y)D30	CPQ(Y)35 / CPQ(Y)D35	CPQ(Y)40 / CPQ(Y)D40	2-2.5t	3t	3.5t	2-2.5t	3t	3.5t	CPQ(Y)20 / CPQ(Y)D20	CPQ(Y)25 / CPQ(Y)D25	CPQ(Y)30 / CPQ(Y)D30	CPQ(Y)35 / CPQ(Y)D35	CPQ(Y)40 / CPQ(Y)D40	
ZM200	2000	2000	2500	3000	3500	1495	1570	1680	495	340	460	3470	3850	4330	4770	6-12		
ZM250	2500	2000	2500	3000	3500	1745	1820	1930	745	590	710	3515	3895	4370	4820	6-12		
ZM300	3000	2000	2500	3000	3500	1995	2070	2180	995	840	960	3565	3945	4420	4870	6-12		
ZM330	3300	2000	2500	3000	3500	2145	2220	2330	1145	990	1100	3595	3975	4445	4895	6-12		
ZM350	3500	2000	2500	3000	3500	2245	2320	2430	1245	1090	1210	3615	3995	4465	4915	6-12		
ZM370	3700	2000	2500	3000	3500	2345	2420	2530	1370	1205	1310	3635	4015	4480	4935	6-12		
ZM400	4000	2000	2500	3000	3500	2545	2620	2730	1545	1390	1510	3705	4085	4550	5000	6-12		
ZM425	4250	2000	2500	3000	3500	2670	2745	2855	1670	1515	1635	3730	4110	4575	5025	6-12		
ZM450	4500	2000	2500	3000	3500	2770	2870	2980	1795	1640	1760	3755	4135	4595	5050	6-12		
ZM500	5000	2000	2500	3000	3500	3045	3120	3230	2045	1910	2010	3805	4185	4640	5100	6-12		
ZM550	5500	2000	2500	3000	3500	3345	3420	3530	2345	2190	2310	3890	4270	4830	5295	6-12		
ZM600	6000	2000	2500	3000	3500	3595	3670	3780	2595	2440	2560	3935	4315	4875	5350	6-12		

&lt;



INTERNAL COMBUSTION COUNTERBALANCED  
FORKLIFT TRUCK

4-5 ton

WIDE VIEW MAST												
Mast model	Max. Lifting height	Load capacity/Load center 500mm(kg)			Height mast retracted (C)mm	Tilting angles Forward /backward	Service Weight (kg)					
		CPC(D)40	CPC(D)45	CPC(D)50			CPCD40	CPCD45	CPCD50	CPC40	CPC45	CPC50
M260	2600	4000	4500	5000	2075	6° / 12°	6450	6750	7050	6150	6450	6750
M270	2700	4000	4500	5000	2125	6° / 12°	6475	6775	7075	6175	6475	6775
M300	3000	4000	4500	5000	2275	6° / 12°	6500	6800	7100	6200	6500	6800
M330	3300	4000	4500	5000	2425	6° / 12°	6515	6815	7115	6215	6515	6815
M350	3500	4000	4500	5000	2525	6° / 12°	6525	6825	7125	6225	6525	6825
M370	3700	4000	4500	5000	2625	6° / 12°	6535	6835	7135	6235	6535	6835
M375	3750	4000	4500	5000	2650	6° / 12°	6540	6840	7140	6240	6540	6840
M400	4000	4000	4500	5000	2825	6° / 6°	6550	6850	7150	6250	6550	6850
M425	4250	3800 *4000	4300 *4500	4700 *5000	2950	6° / 6°	6560	6860	7160	6260	6560	6860
M450	4500	3700 *4000	4200 *4500	4500 *5000	3075	6° / 6°	6575	6875	7175	6275	6575	6875
M475	4750	3500 *3700	4000 *4200	4250 *4600	3200	6° / 6°	6590	6890	7190	6290	6590	6890
M500	5000	3200 *3400	3600 *4000	4000 *4200	3325	6° / 6°	6600	6900	7200	6300	6600	6900
M550	5500	2900 *3100	3200 *3600	3600 *3800	3575	3° / 6°	6630	6930	7230	6330	6630	6930
M600	6000	2600 *2900	3000 *3200	3300 *3600	3825	3° / 6°	6650	6950	7250	6350	6650	6950

Note: \* Refers to the rated capacity with front dual tyre.

WIDE VIEW FULL FREE 2-STAGE MAST														
Mast model	Max. Lifting height	Load capacity(Load center 500mm)(kg)			Height mast retracted (C)(mm)	Free lift (with backrest) (mm)	Full free lift (mm)	Tilting angles Forward /backward	Service Weight (kg)					
		CPC(D)40	CPC(D)45	CPC(D)50					CPCD40	CPCD45	CPCD50	CPC40	CPC45	CPC50
ZM261	2610	4000	4500	5000	2180	960	1380	6° / 12°	6475	6775	7075	6175	6475	6775
ZM271	2710	4000	4500	5000	2230	1010	1430	6° / 12°	6500	6800	7100	6200	6500	6800
ZM300	3000	4000	4500	5000	2375	1155	1575	6° / 12°	6550	6850	7150	6250	6550	6850
ZM330	3300	4000	4500	5000	2525	1305	1725	6° / 12°	6565	6865	7165	6265	6565	6865
ZM350	3500	4000	4500	5000	2625	1405	1825	6° / 12°	6575	6875	7175	6275	6575	6875
ZM375	3750	4000	4500	5000	2750	1530	1950	6° / 12°	6590	6890	7190	6290	6590	6890
ZM400	4000	4000	4500	5000	2875	1655	2075	6° / 6°	6605	6905	7205	6305	6605	6905
ZM450	4500	3700 *4000	4200 *4500	4500 *5000	3125	1905	2326	6° / 6°	6630	6930	7230	6330	6630	6930
ZM500	5000	3200 *3400	3600 *4000	4000 *4200	3375	2155	2576	6° / 6°	6665	6965	7265	6365	6665	6965
ZM550	5500	2900 *3100	3200 *3600	3600 *3900	3625	2405	2826	3° / 6°	6690	6990	7290	6390	6690	6990
ZM600	6000	2600 *2900	3000 *3200	3300 *3600	3875	2655	3076	3° / 6°	6715	7015	7315	6415	6715	7015

Note: (1)Free lift (without backrest) : +380mm;  
(2)\* Refers to the rated capacity with front dual tyre.

WIDE VIEW FULL FREE 3-STAGE MAST														
Mast model	Max. Lifting height	Load capacity(Load center 500mm)(kg)			Height mast retracted (C)(mm)	Free lift (with backrest) (mm)	Full free lift (mm)	Tilting angles Forward /backward	Service Weight (kg)					
		CPC(D)40	CPC(D)45	CPC(D)50					CPCD40	CPCD45	CPCD50	CPC40	CPC45	CPC50
ZSM392	3920	3840 *4000	4350 *4500	4800 *5000	2235	1012	1430	6° / 6°	6700	7000	7300	6400	6700	7000
ZSM435	4350	3500 *3800	4100 *4300	4400 *4800	2380	1157	1575	6° / 6°	6740	7040	7340	6440	6740	7040
ZSM450	4500	3350 *3500	4000 *4200	4200 *4700	2430	1208	1625	6° / 6°	6755	7055	7355	6455	6755	7055
ZSM470	4700	3250 *3400	3800 *4000	4050 *4200	2495	1274	1692	6° / 6°	6775	7075	7375	6475	6775	7075
ZSM480	4800	3150 *3300	3700 *3900	3950 *4100	2530	1307	1725	6° / 6°	6785	7085	7385	6485	6785	7085
ZSM500	5000	3050 *3200	3400 *3800	3800 *4000	2630	1407	1825	6° / 6°	6805	7105	7405	6505	6805	7105
ZSM540	5400	2750 *3000	3100 *3400	3400 *3600	2755	1532	1950	3° / 6°	6845	7145	7445	6545	6845	7145
ZSM600	6000	2400 *2500	2800 *3000	3100 *3400	2995	1772	2190	3° / 6°	6865	7165	7465	6565	6865	7165

Note: (1)Free lift (without backrest) : +385mm;  
(2)\* Refers to the rated capacity with front dual tyre.

HELI



H series / HIGH EFFICIENT  
ENERGY EFFICIENT

4-5 ton H series

INTERNAL COMBUSTION COUNTERBALANCED  
FORKLIFT TRUCK

Standard equipments

Standard fork  
Standard carriage  
M300 standard mast  
Standard overhead guard  
Single air cleaner  
Standard muffler  
Control valve (two throw)  
Standard pneumatic tyre  
Normal seat  
Driver's tool

Optional equipments

Cab  
Warning light  
Dual air cleaner  
Heater  
Fan  
Fire extinguisher  
Protecting net  
Dual tyre  
Solid tyre  
Long fork  
Suspension seat  
Windshield glass  
Rear working light  
Wide carriage  
Control valve (multi throw)  
High vertical exhaust  
Spark arrested muffler  
Catalyst muffler  
Tilting cylinder boot  
Steering cylinder boot  
Two stage free lift mast  
Three stage free lift mast

Optional attachments

Side shifter  
Fork positioner  
Double side shifter  
Single double pallet handler  
Hinged forks  
Rotator  
Push/Pulls  
Carpet boom  
Load stabilizer  
Turnaloads  
Crane jib  
Glass handler  
Fork extension  
Paper roll clamp  
Bale clamp  
Drum clamp  
Fork clamp  
Block clamp  
Multi-purpose clamp



4-5 ton H series  
INTERNAL COMBUSTION COUNTERBALANCED  
FORKLIFT TRUCK

H series / HIGH EFFICIENT  
ENERGY EFFICIENT

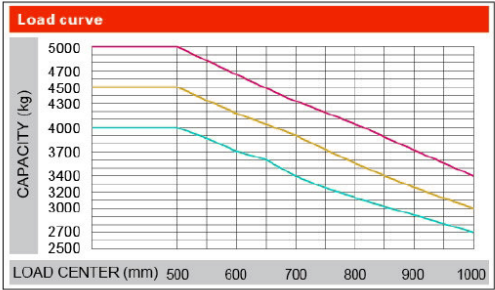
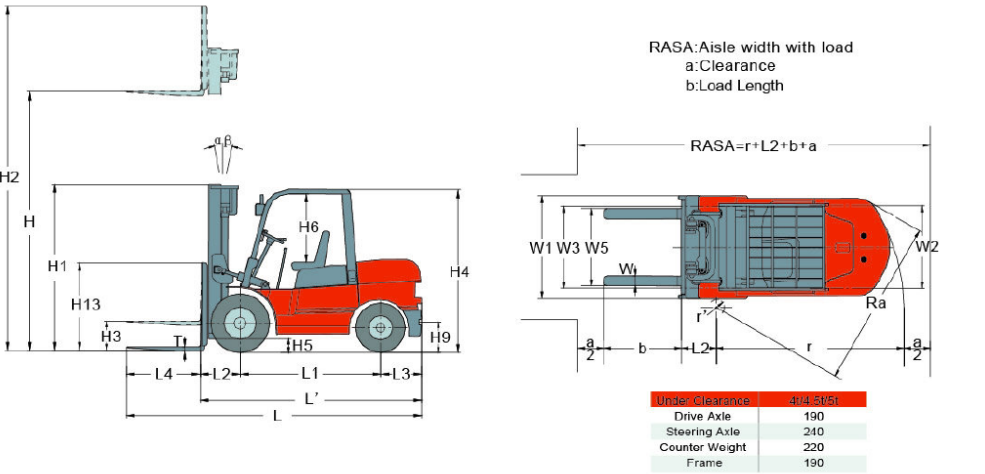
HELI  
LIFTING THE FUTURE

24 YEARS TOP1 FORKLIFT MANUFACTURER AND SALLER  
IN CHINA FOR CONSECUTIVE 24 YEARS



Date and design Characteristics										
Character										
1.01	Manufacturer					HELI				
1.02	Model		CPCD40-M2	CPCD45-M2	CPCD50-M2	CPQYD40-TY5	CPQYD45-TY5	CPQYD50-TY5	CPC40-XC3	CPC45-XC3
1.03	Power type			Diesel			Gasoline/LPG			Diesel
1.04	Rated capacity	kg	4000	4500	5000	4000		5000	4000	4500
1.05	Load center	mm					500			
1.06	Driving mode						Seated			
Size										
2.01	Mast height, extended (with backrest, unloaded)	H2	mm				4217			
2.02	max. Fork height	H	mm				3000			
2.03	Mast height, lowered	H1	mm				2275			
2.04	Free lift	H3	mm				150			
2.05	Backrest height (from the fork surface)	H13	mm				1217			
2.06	distance from the seat surface to the overhead guard	H6	mm				980			
2.07	Overall height (overall height)	H4	mm				2270			
2.08	Overall length (fork/without fork)	L/L'	mm	4145/3075	4165/3095	4209/3139	4145/3075	4165/3095	4209/3139	4145/3075
2.09	Front overhang	L2	mm				555			
2.10	Rear overhang	L3	mm	520	540	584	520	540	584	520
2.11	Wheel base	L1	mm				2000			
2.12	Traction pin height	H9	mm				385			
2.13	Min. Under clearance (at mast)	H5	mm				175			
2.14	overall width	W1	mm				1480			
2.15	Fork distance (external)(max. /min.)	W5	mm				1340/300			
2.16	Tread (front tread/rear tread)	W3/W2	mm				1180/1190			
2.17	Min. Turning radius (inside)	r'	mm				220			
2.18	min. Turning radius (outside)	r	mm	2720	2740	2800	2720	2740	2800	2720
2.19	min. Right angle aisle width	Ra	mm	2480	2500	2550	2480	2500	2550	2480
2.20	Mast tilting angle (front/rear)	α/β					6°/12°			
2.21	Fork size	L4xWxT	mm				1070x150x50			
Performance										
3.01	Max. Travelling speed (loaded/unloaded)	Km/h		25/26			25/26		18/19	18/19
3.02	lifting speed (loaded/unloaded)	mm/s		460/520			460/520		360/390	360/390
3.03	Lowering speed (loaded/ unloaded)	mm/s					<600/> 300			
3.04	Traction force (loaded/unloaded)	KN		22/16			25/16		21/14	31/14
3.05	max. Gradeability(loaded/unloaded)	%		18/20	17/20	16/20	18/20	17/20	16/20	20/25
Weight										
4.01	Service weight	Kg	6500	6800	7100	6500	6800	7100	6200	6500
4.02	Weight distribution loaded (front/rear)	Kg	8925/1575	9750/1550	10500/1600	8925/1575	9750/1550	10500/1600	8568/1632	9320/1680
4.03	weight distribution unloaded (front/rear)	Kg	2700/3800	2710/4090	2680/4420	2700/3800	2710/4090	2680/4420	2635/3565	2730/3770
Wheel and tyre										
5.01	Tyre number x=drive wheel (front/rear)					2X/2				
5.02	tyre type (front/rear)					Pneumatic tyre				
5.03	tyre model (front)		8.25-15-14PR	300-15-20PR		8.25-15-14PR	300-15-20PR		8.25-15-14PR	8.25-15-14PR
5.04	Tyre model (rear)					7.00-12-12PR				300-15-20PR
5.05	Service brake					powered brake-pedal tyre			vacuum assist –pedal type	
5.06	Parking brake					Mechanical-hand brake lever type				
Drive and control device										
6.01	Battery (voltage /capacity)	V/Ah		24/80		12/100			24/80	
6.02	Engine manufacturer /model			Mitsubishi S6S-230		GM 4.3L Gasoline/LPG		Xinchang 4D35G	Wuxi CA4110	
6.03	Engine rated power	KW/rpm		52/2300		Gasoline: 70/2300、LPG: 76.6/2300		48/2300	61/2200	
6.04	Engine rated torque	Nm/rpm		248/1700		Gasoline: 287/1700、LPG: 323.5/1700		230/1600~1800	305/1400~1600	
6.05	Engine cylinder (number-bore xstroke)			6-94x120		6-101.6x88.39		4-98x115	4-110x125	
6.06	engine displacement	L		4.966		4.29418		3.5	4.752	
6.07	Engine fuel tank capacity	L				90				
6.08	Gear number (front/rear)					2-1 powered shift			2-2 manual shift	

Engine Model and Main Specification for Option				
Engine manufacturer /model	Engine rated power / rated speed KW/rpm	Max. torque/speed Nm/rpm	Engine displacement L	Engine cylinder (Number-bore×stroke)
Weifang 4RMG25-1	55/2200	270/1680	4.329	4-105x125
Wuxi CA4110	61/2200	305/1400~1600	4.75	4-110x125
GM4.3L Tier IV Certified engine	Gasoline 70/2300	Gasoline 287/1700	4.29418	6-101.6x88.39
	LPG 76.6/2300	LPG 323.5/1700		
Quanchai 4C6-M	48/2300	230/1600~1800	3.47	4-98x115



CPC(D)50 /CPQ(Y)D50    CPC(D)45 /CPQ(Y)D45    CPC(D)40 /CPQ(Y)D40

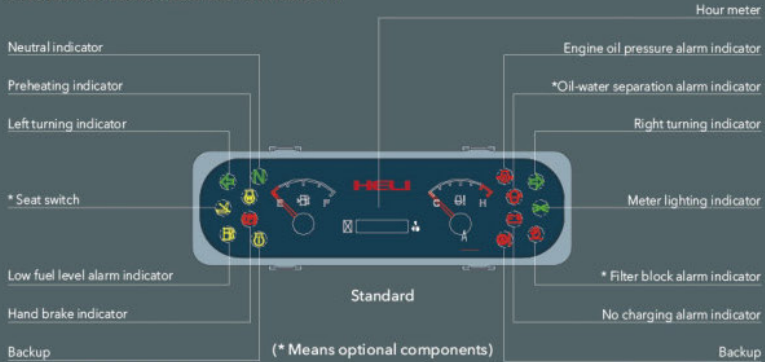
Note: The vertical axis stands for load capacity and the horizontal axis stands for load center which is calculated from the front surface of the forks to the gravity of the standard load. the standard load means a cubic with 1000mm edge length. When mast is tilted forward, using non-standard forks or 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.

Mast lifting height and fork length table													
Wide view normal mast lifting height (mm)	2600	2700	3000★	3300	3500	3700	3750	4000	4250	4500	4750	5000	5500
two stage full free mast lifting height (mm)	2610	2710	3000	3300	3500	3750	4000	4500	5000	5500	6000		
three stage full free mast lifting height (mm)	3920	4350	4500	4700	4800	5000	5400	8000					
fork length (mm)	1070★	1220	1370	1520	1670	1820	1970	2120					

Note: Equipments with ★ is standard.



RELIABLE SPECIAL DESIGNED INSTRUMENT



Reliable special meter displays the whole truck's working condition, fault detect and other important information completely which makes the operator master the whole truck condition directly and conveniently.

Standard configuration

- Hour meter
- Horn
- Oil pressure alarm
- Control valve
- Wholly hydraulic-powered steering
- Rubber pad
- Backrest
- Rear view mirror
- Front combined lamp (LED light)
- Transmission oil filter
- Engine flame out device
- Ratchet type parking brake
- Water temperature meter
- Driver's tools
- Rear combined lamp(LED)
- Reversing buzzer
- Tilt-lock valve
- Tilt adjustable steering column
- Back view mirror
- Overhead guard
- Standard fork
- Neutral gear switch
- Hydraulic circuit oil filter
- Electro-hydraulic changing-over
- Intelligent shift
- Speed-limiting valve
- Oil level gauge
- Charging indicator
- Wide view mast
- Air intaking device
- Durable tire with decorative pattern
- Lifting and tilting operating handles
- Traction pin
- Semi-suspension seat
- Hydraulic oil dipstick
- Overhead guard rain cover
- Torque converter oil dipstick
- Combined instrument

Optional

- Driver's cab
- Warning light
- High air exhausting device
- Double air cleaner
- Suspension seat
- Fork extension
- Heater
- Solid tyre
- Widen fork carriage
- Wind shield
- Purifying muffler
- Fire extinguisher muffer
- Fire extinguisher
- Rear working light
- Air conditioner (certain type)
- OPS (travelling function)
- Torque converter oil temperature meter
- Tilting cylinder sleeve
- Steering cylinder sleeve
- User-specified color
- Optional attachments
- Sling
- Full LED light ass'y
- Power switch
- Reversing voice speaker
- Universal key
- Overspeed 10km/h alarm
- Electric fan
- OPS(Travelling function and loading function)
- Drive axle with wet disc type brak

5-10 t G series  
Internal Combustion  
Counterbalanced Forklift Truck



5-10 t G series internal combustion  
counterbalanced forklift truck

Technical features remarkably improved

Damping

- With suspension damping structure on overhead guard(cab) and optimized design for the transmission, the whole trucks's vibration reduced a lot and relieve driver's fatigue greatly.

Noise reduction

- Equipped with fully sealed cab and optimize designed parts around the engine, noise nearby ear and the truck sound level are reduced greatly.

Heat dissipation

- With the optimized cooling system and great cooling performance, highly improved the reliability and durability of the transmission and engine, etc, many key parts.

Energy efficiency

- With optimized hydraulic system, the truck is more energy-efficient and lower fuel consumption.



G series / INTELLIGENT  
ENVIRONMENT-FRIENDLY

Comfort

- Man-machine engineering design improves operation comfort; wide view lifting system improves vision.

Intelligent gear shifting

- With electronic-hydraulic reversing system as standard configuration, make operation more liaght and easy; The updated new intelligent gear shifting system could avoid starting with second gear, improves the transmission box's reliability.

Maintainability

- Wider internal space, more reasonable parts layout and 80°hood opening angle make maintenance easy.

Reliability

- Key parts like frame and mast apply CAE top-down design to improve their strength and make the truck tough.



Independent integrated electric cabinet



LED signal (standard configuration)



Ratchet type parking brake



Locked fuel tank cover



Folder



Wet-disc brake driving axle (optional choice):  
Advantages: the convenient operation,  
stable braking and free from maintenance.



### Manufacturer and technical parameters

Characteristics								
1.01	Manufacturer				HELI			
1.02	Model			CPCD50	CPCD60	CPCD70	CPCD85	CPCD100
1.03	Power type					Diesel		
1.04	Rated capacity	Q	kg	5000	6000	7000	8500	10000
1.05	Load center	c	mm			600		
1.06	Driving mode					Sit-on type		
Dimensions								
2.01	Mast height, extended (with backrest)	H2	mm	4400	4400	4400	4420	4415
2.02	Max. fork height	H	mm	3000	3000	3000	3000	3000
2.03	Mast height, lowered	H1	mm	2500	2500	2500	2700	2850
2.04	Free lift	H3	mm	200	200	200	200	200
2.05	Backrest height (calculated from the fork surface)	H13	mm	1360	1350	1345	1360	1345
2.06	Overhead guard clearance (from face of seat)	H6	mm	1060	1060	1060	1060	1060
2.07	Overhead guard height	H4	mm	2450	2450	2450	2560	2560
2.08	Overall length (with forks)	L	mm	4710	4790	4840	5180	5430
2.09	Overall length (without forks)	L'	mm	3490	3570	3620	3960	4210
2.10	Front overhang	L2	mm	590	595	600	705	720
2.11	Rear overhang	L3	mm	600	675	720	755	715
2.12	Wheel base	L1	mm	2300	2300	2300	2500	2775
2.13	Traction pin center height	H9	mm	410	410	410	520	520
2.14	Min. Ground clearance (from bottom of mast)	H5	mm	200	200	200	250	250
2.15	Truck body width	W1	mm	2045	2045	2045	2165	2165
2.16	Lateral fork adjustment (outside of fork )(max/min.)	W6	mm	300-1835	300-1835	300-1835	348-1944	420-2060
2.17	Front tread	W3	mm	1520	1520	1520	1600	1600
2.18	Rear tread	W2	mm	1700	1700	1700	1700	1700
2.19	Min. Turning radius (external)	r	mm	3240	3300	3370	3650	3900
2.20	Min. Turning radius (internal)	r'	mm	200	200	200	200	200
2.21	In.right angle stacking aisle width (standard load size 1200X1200)	Ast	mm	5250	5315	5390	5775	6040
2.23	Mast tilting angle (forward/rear)	α/β	°	6/12	6/12	6/12	6/12	6/12
2.24	Fork size	L4	mm	55X1220X150	60X1220X150	65X1220X150	70X1220X170	80X1220X175

3.01	Wheel number (front/rear)	4X/2
3.02	Tyre type (front/rear)	Pneumatic tyre
3.03	Tyre size (front)	8.25-15-14PR 9.00-20-14PR
3.04	Tyre size (rear)	8.25-15-14PR 9.00-20-14PR

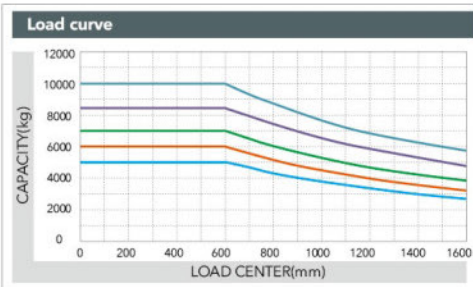
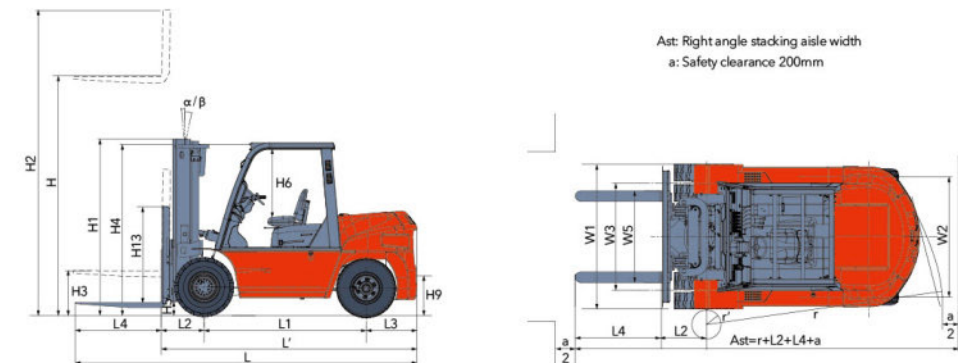
4.01	Battery (voltage/capacity)	V/Ah	2X12/80
4.02	Service brake		Powered brake-pedal type
4.03	Parking brake		Mechanical-hand brake lever type
4.04	Oil tank capacity	L	160
4.05	Transmission type		Intelligent gear shifting
4.06	Transmission number of speed (fwd/bwd)		2/2

Truck specifications						
5.01	Max. Travelling speed (loaded/unloaded)	km/h	25/29	25/29	25/29	25/29
5.02	Lifting speed (loaded/unloaded)	mm/s	510/550	510/550	500/550	400/430
5.03	Lowering speed (loaded/unloaded)	mm/s	WITHOUT LOAD≥300 WITH FULL LOAD≤600			
5.04	Max. Draw bar (loaded)	KN	60	60	60	58
5.05	Max. Gradeability (loaded/unloaded)	%	34/19	31/19	29/19	23/20
5.06	Weight (oil included)	kg	8310	9050	9650	11550
5.07	Axle load (loaded)/front/rear	kg	11940/1360	13400/1650	14500/2150	17845/2205
5.08	Axle load (unloaded)/front/rear	kg	4130/4170	4060/4990	3870/5780	5082/6468

6.01	Engine manufacturer / mode	ISUZU 6BG1
6.02	Engine rated power/rotational speed	Kw/rpm 82/2000
6.03	Engine rated torque/rotational speed	Nm/rpm 415/1400~1600
6.04	Cylinder number	6
6.05	Engine displacement	L 6.494

### Optional engine model and truck main specifications

Truck specifications																																	
Manufacturer		CPCD50	CPCD60	CPCD70	CPCD85	CPCD100	CPCD50	CPCD60	CPCD70	CPCD85	CPCD100	CPCD50	CPCD60	CPCD70	CPCD85	CPCD100	CPCD50	CPCD60	CPCD70	CP/Q/YD50	CP/Q/YD60	CP/Q/YD70	CPCD50	CPCD60	CPCD70	CPCD85	CPCD100						
Max. Travelling speed (loaded/unloaded)	km/h	26/30	26/30	26/30	26/30	26/30	26/30	26/30	26/30	26/30	26/30	24/29	24/29	24/29	24/28	24/28	26/30	26/30	26/30	28/30	28/30	28/30	26/30	26/30	26/30	26/30	26/30						
Lifting speed (loaded/unloaded)	mm/s	500/520	500/520	485/520	390/420	330/350	530/550	530/550	510/540	390/420	330/350	510/530	510/530	500/530	390/420	330/350	450/470	440/470		420/440	420/440	420/440	550/570	550/570	550/570	430/450	350/370						
Lowering speed (loaded/unloaded)	mm/s	WITHOUT LOAD≥300 WITH FULL LOAD≤600																															
Max. Draw bar (loaded)	KN	62	62	62	60	60	60	60	60	58		63	63	62	60	58	42	40		60	60	60	62	62	62	56	56						
Max. Gradeability (loaded/unloaded)	%	39/20	34/20	30/20	22/20	20/20	38/19	31/19	29/19	23/20	21/20	38/19	35/19	32/19	23/20	21/20	23/19	20/19		38/19	35/19	31/19	42/22	36/20	32/20	24/20	21/20						
Weight (oil included)	kg	8150	8900	9500	11400	12510	8150	8900	9500	11400	12510	8300	9050	9650	11550	12660	8300	9330		7980	8730	9050	8150	8900	9500	11400	12510						
Axle load (loaded) front/rear	kg	11830/1320	13330/1570	14450/2050	17750/2150	20030/2480	11830/1320	13330/1570	14450/2050	17750/2150	20030/2480	11940/1360	13400/1650	14500/2150	17845/2205	20167/2493	11940/1360	13400/1650		14550/2150	11620/1360	13080/1650	14180/2150	11830/1320	13330/1570	14450/2050	17750/2150	20030/2480					
Axle load (unloaded) front/rear	kg	4050/4100	4005/4895	3900/5600	6040/5360	5510/7000	4050/4100	4005/4895	3900/5600	5360/6040	5510/7000	4130/4170	4060/4990	3870/5780	5082/6468	5570/7090	4130/4170	4060/4990		3870/5780	3810/4170	3740/4990	3550/5780	4050/4100	4005/4895	3900/5600	5360/6040	5510/7000					
Engine specifications																																	
Engine manufacturer /mode		Cummins QSF3.8(Euro I/IIA, CHINA STAGE III)										Perkins 1104D-44TA					XICHAI CA6110					Mitsubishi S6S-T				Psi 4.3				Cummins QSB4.5(EU Stage IIIB- US EPA Tier 4(i)- CHINA STAGE III)			
Engine rated power/rotational speed	Kw/rpm	86/2200										83/2000					63.9/2300					77/2300				82/2200							
Engine rated torque/rotational speed	Nm/rpm	470/1100~1700										418/1400					450/1400-1500					285/1700				332/1400				489/1500			
Cylinder number		4										4					6					6				6							
Engine displacement	L	3.8										4.4					7.127					4.29				4.3				4.5			



**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 means a cubic with 1200mm 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.

### 5-7t WIDE VIEW MAST

Mast model	Max. fork height (mm)	Load capacity (load center 600mm)(kg)			Mast height, lowered (mm)	Service weight (kg)			Mast tilting angle α / β
		CPCD50	CPCD60	CPCD70		CPCD50/60/70	CPCD50	CPCD60	
M200	2000	5000	6000	7000	2000	8005	8755	9409	6°/12°
M250	2500	5000	6000	7000	2250	8069	8819	9473	6°/12°
M270	2700	5000	6000	7000	2350	8101	8851	9451	6°/12°
M300	3000	5000	6000	7000	2500	8150	8900	9500	6°/12°
M330	3300	5000	6000	7000	2650	8199	8949	9549	6°/12°
M350	3500	5000	6000	7000	2750	8231	8981	9581	6°/12°
M375	3750	5000	6000	7000	2875	8272	9022	9622	6°/12°
M400	4000	5000	6000	7000	3050	8438	9188	9788	6°/12°
M425	4250	5000	6000	7000	3175	8478	9228	9828	6°/12°
M450	4500	5000	6000	7000	3300	8519	9269	9869	6°/12°
M475	4750	5000	6000	7000	3425	8560	9310	9910	6°/16°
M500	5000	5000	6000	7000	3550	8600	9350	9950	6°/16°
M550	5500	4450	5700	6600	3850	8794	9544	10144	3°/16°
M600	6000	4750	5400	6400	4100	8876	9626	10226	3°/16°

## 5-7t WIDE VIEW FULL FREE 2-STAGE MAST

Mast model	Max. fork height (mm)	Load capacity (load center 600mm)(kg)			Mast height, lowered (mm)	Free lift (with backrest) (mm)	Service weight (kg)			Mast tilting angle $\alpha/\beta$
		CPCD50	CPCD60	CPCD70			CPCD50	CPCD60	CPCD70	
ZM250	2500	5000	6000	7000	2210	840	8189	8939	9539	6°/12°
ZM270	2700	5000	6000	7000	2310	940	8226	8976	9576	6°/12°
ZM300	3000	5000	6000	7000	2460	1090	8283	9033	9633	6°/12°
ZM330	3300	6000	7000	7000	2610	1240	8340	9090	9690	6°/12°
ZM350	3500	5000	6000	7000	2710	1340	8377	9127	9727	6°/12°
ZM375	3750	5000	6000	7000	2835	1465	8425	9175	9775	6°/12°
ZM400	4000	5000	6000	7000	3010	1640	8600	9350	9950	6°/12°
ZM425	4250	5000	6000	7000	3135	1765	8652	9402	10002	6°/12°
ZM450	4500	5000	6000	7000	3260	1890	8695	9445	10045	6°/12°
ZM475	4750	5000	6000	7000	3385	2015	8742	9492	10092	6°/6°
ZM500	5000	5000	6000	7000	3510	2140	8779	9529	10129	6°/6°
ZM550	5500	4750	5700	6600	3810	2440	8999	9749	10349	3°/6°
ZM600	6000	4400	5400	6400	4060	2690	9094	9844	10444	3°/6°

Note: (1) 5-6t: the free lift without backrest 465mm increased, (2) 7t: the free lift without backrest 310mm increased.

## 5-7t WIDE VIEW FULL FREE 3-STAGE MAST

Mast model	Max. fork height (mm)	Load capacity (load center 600mm)(kg)			Mast height, lowered (mm)	Free lift (with backrest) (mm)	Service weight (kg)			Mast tilting angle α/β
		CPCD50	CPCD60	CPCD70			CPCD50/60/70	CPCD50	CPCD60	
ZSM360	3600	4500	5600	6200	2335	910	8833	9583	10083	6°/6°
ZSM400	4000	4500	5600	6200	2470	1040	8893	9643	10143	6°/6°
ZSM435	4350	4500	5600	6200	2580	1156	8951	9701	10201	6°/6°
ZSM480	4800	4500	5600	6200	2740	1380	9148	9898	10398	6°/6°
ZSM500	5000	4500	5600	6200	2805	1380	9179	9929	10429	6°/6°
ZSM540	5400	4200	5300	6000	2940	1510	9248	9998	10498	3°/6°
ZSM600	6000	4000	5000	5600	3140	1710	9337	10087	10587	3°/6°
ZSM650	6500	3500	4500	5000	3405	1975	9426	10176	10676	3°/6°
ZSM700	7000	3200	4000	4500	3515	2085	9479	10229	10729	3°/6°

Note: (1) 5-6t: the free lift without backrest 380mm increased, (2) 7t: the free lift without backrest 225mm increased.

### 8.5-10t WIDE VIEW MAST

Mast model	Max. fork height (mm)	Load capacity (load center 600mm)(kg)		Mast height, lowered (mm)		Service weight (kg)		Mast tilting angle $\alpha/\beta$
		CPCD85	CPCD100	CPCD85	CPCD100	CPCD85	CPCD100	
M250	2500	8500	10000	2450	2600	10721	12389	6°/12°
M270	2700	8500	10000	2550	2700	10775	12429	6°/12°
M300	3000	8500	10000	2700	2850	11400	12510	6°/12°
M330	3300	8500	10000	2850	3000	11501	12558	6°/12°
M350	3500	8500	10000	2950	3100	11646	12603	6°/12°
M375	3750	8500	10000	3225	3225	11726	12653	6°/12°
M400	4000	8500	10000	3250	3400	11901	12799	6°/12°
M425	4250	8500	10000	3375	3525	12056	12848	6°/12°
M450	4500	8500	10000	3500	3650	12176	12898	6°/12°
M475	4750	8200	10000	3625	3775	12321	12955	6°/6°
M500	5000	8200	10000	3750	3900	12436	13010	6°/6°
M550	5500	7850	9000	4050	4200	12758	13311	3°/6°
M600	6000	7400	8000	4300	4450	12961	13361	3°/6°

**8.5-10t WIDE VIEW FULL FREE 2-STAGE MAST**

Mast model	Max. fork height (mm)	Load capacity (load center 600mm)(kg)		Mast height, lowered (mm)		Free lift (with backrest) (mm)		Service weight (kg)		Mast tilting angle $\alpha/\beta$
		CPCD85	CPCD100	CPCD85	CPCD100	CPCD85	CPCD100	CPCD85	CPCD100	
ZM250	2500	8500	10000	2450	2600	1090	1302	11447	12371	6°/12°
ZM270	2700	8500	10000	2550	2700	1190	1402	11473	12399	6°/12°
ZM300	3000	8500	10000	2850	2850	1390	1552	11512	12442	6°/12°
ZM330	3300	8500	10000	2850	3000	1490	1702	11556	12470	6°/12°
ZM350	3500	8500	10000	2950	3100	1590	1802	11594	12513	6°/12°
ZM375	3750	8500	10000	3075	3225	1715	1927	11619	12556	6°/12°
ZM400	4000	8500	10000	3250	3400	1890	2102	11756	12584	6°/12°
ZM425	4250	8500	10000	3375	3525	2015	2227	11790	12619	6°/12°
ZM450	4500	8500	10000	3500	3650	2140	2352	11825	12765	6°/12°
ZM475	4750	8200	9500	3625	3775	2265	2477	11860	12800	6°/6°
ZM500	5000	8200	9500	3750	3900	2390	2602	11865	12837	6°/6°
ZM550	5500	7850	-	4050	4200	2690	-	12067	12873	3°/6°
ZM600	6000	7400	-	4300	4450	2940	-	12136	12908	3°/6°

Note: (1) 8.5t: the free lift without backrest 222mm increased, (2) 10t: free lift without backrest.

### 8.5-10t WIDE VIEW FULL FREE 3-STAGE MAST

Mast model	Max. fork height (mm)	Load capacity (load center 600mm [kg])		Mast height, lowered (mm)		Free lift (with backrest) (mm)		Service weight (kg)		Mast tilting angle $\alpha/\beta$
		CPCD85	CPCD100	CPCD85	CPCD100	CPCD85	CPCD100	CPCD85	CPCD100	
ZSM360	3600	7500	8000	2450	2570	1090	1150	12041	13246	6°/12°
ZSM400	4000	7500	8000	2575	2700	1215	1280	12112	13338	6°/12°
ZSM435	4350	7500	8000	2700	2820	1340	1400	12186	13418	6°/12°
ZSM450	4500	7500	8000	2750	2870	1390	1450	12213	13458	6°/16°
ZSM480	4800	7200	7500	2850	2970	1490	1550	12274	13526	6°/16°
ZSM500	5000	7200	7500	2950	3035	1590	1615	12330	13572	6°/16°
ZSM540	5400	6800	7000	3075	3225	1705	1805	12404	13666	3°/16°
ZSM600	6000	6300	6500	3375	3425	2015	2005	12575	13846	3°/16°
ZSM650	6500	5700	6000	3600	3590	2240	2170	12705	13944	3°/16°
ZSM700	7000	5000	5200	3750	3855	2390	2435	12793	14142	3°/16°

Note: (1) 8.5t: the free lift without backrest 172mm increased,  
(2) 10t: free lift without backrest,  
Note: The service weight in the table is the weight of the truck assembled with XiChai engine.



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