





1-10T FORKLIFT TRUCKS

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.

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WHO IS MANTRAC?

Mantrac is a leading provider of HELI forklifts and industry-leading power solutions for all applications across East and West Africa.

Our goal is to deliver systems that meet your requirements and are proven to be reliable, bringing you maximised uptime and bottom-line power savings – whatever your budget.

MANTRAC'S ROLE IN THE PARTNERSHIP?

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 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

Warehouse Trucks

Special Trucks (Explosion Proof)

FROM 1 TO 10 TONNES

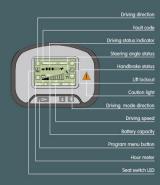
- Newly designed wide-view mast
- Excellent steering system
- AC drive motor
- High-efficiency loading/uploading performance
- Designed with a new ergonomic cabin design providing a broader top view for the truck operator
- High Working Efficiency with great reduction in truck energy consumption and 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

- 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.





ZAPI Display

CURTIS Display

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











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%.









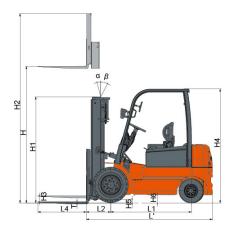






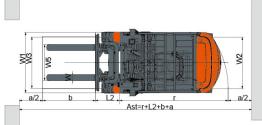
	Character								
01	Manufacturer					HE	•		
	Model			CPD10	CPD15	CPD15	CPD18	CPD20	CPD25
	Configuration number			HA1/HA2	HA1/HA2	HC1/HC2	HC1/HC2	HA1/HA2	HA1/HA2
	Rated capacity	Q	kg	1000	1500	1500	1750	2000	2500
	Load center distance	c	mm	500	500	500	500	500	500
6	Power mode			Battery	Battery	Battery	Battery	Battery	Battery
	Driving mode			Seated	Seated	Seated	Seated	Seated	Seated
	Wheel base	L1	mm	1280	1280	1390	1390	1535	1535
00	Tyre			1230	1200	1000	1000	1000	1000
01	Tyre type			Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic
	Wheel number(front/rear)			2/2	2/2	2/2	2/2	2/2	2/2
	Front wheel base	W3	mm	890	890	890	920	960	960
	Rear wheel base	W2	mm	920	920	920	920	950	950
	Tyre (front)			6.50-10-10PR	6.50-10-10PR	6.50-10-10PR	6.50-10-10PR	7.00-12-12PR	7.00-12-12PR
	Tyre(rear)			16×6-8-10PR	16×6-8-10PR	16×6-8-10PR	16×6–8–10PR	18×7-8-14PR	18×7-8-14PR
-	Size			70 × 0=0=10111	10 × 0=0=10111	10 × 0 - 0 - 101 11	10 × 0-0-10111	10 × 7 - 0 - 141 11	10 × 7 = 0= 14FH
01	Front overhang	L2	mm	410	410	410	410	465	465
	Mast tilt angle , front/rear	α/β		6/12	6/12	6/12	6/12	6/12	6/12
	Height with mast retraction	H1	mm	1995	1995	1995	1995	2000	2000
	Free lifting height	H3	mm	150	150	150	150	170	170
	Max. Lifting height	Н	mm	3000	3000	3000	3000	3000	3000
.06	Max. Height under working condition	H2	mm	4040	4040	4040	4040	4042	4042
07	Overhead guard height	H4	mm	2130	2130	2130	2130	2155	2155
08	Fork size:thickness×width×length	T×W×L4	mm	32×100×770	35×100×920	35×100×920	35×100×920	40×122×920	40 × 122 × 1070
09	Fork arm carrier, din standard	TANALA		2A	2A	2A	2A	40 x 122 x 920 2A	40 x 122 x 1070
10	Truck body length (fork excluded)	L'	mm	2065	2065	2175	2175	2400	2400
11	Truck body width	W1	mm	1070	1070	1070	1070	1150	1150
	Turning radius	r	mm	1770	1770	1880	1880	2065	2065
13	Clearance between mast and ground	H5	mm	110	110	110	110	115	115
14	Clearance between wheel base center and ground(loaded)	H6	mm	120	120	120	120	135	135
15	Right angle stacking aisle width (pallet1000x1000mm, clearance 200mm)	Ast	mm	3380	3380	3490	3490	3730	3730
	Right angle stacking aisle width (pallet1200x1200mm, clearance 200mm)	Ast	mm	3580	3580	3690	3690	3930	3930
	Lateral fork adjustment(outside of forks)max./min.	7101		960/200	960/200	960/200	960/200	1030/244	1030/244
17	Performance			900/200	900/200	900/200	900/200	1030/244	1030/244
01	Travelling speed: loaded/unloaded		km/h	14/15	14/15	14/15	14/15	14/15	14/15
	Lifting speed: loaded/unloaded		m/s	0.29/0.45	0.27/0.45	0.27/0.45	0.28/0.53	0.28/0.49	0.26/0.49
	Lowering speed		m/s	0.45	0.45	0.45	0.45	0.45	0.26/0.49
	Gradeability (loaded)		%	18	17	17	15	16	15
	Max. Traction force (loaded)		N	7800	8600	8800	9500	12300	12800
	Acceleration time (10m) loaded/unloaded		S	5.2/5.0	5.4/5.2	5.4/5.2	5.6/5.4	5.6/5.4	6.2/6.0
00	Weight Weight		•	3.2/3.0	3.4/3.2	5.4/5.2	5.0/5.4	ə. 0 /ə.4	0.2/0.0
.01	Total weight (with /without battery)		kg	2680/2030	2950/2300	2980/2220	3150/2390	4080/3080	4230/3230
	Axle load: unloaded, front/rear		kg	1215/1465	1330/1620	1445/1535	1450/1700	1960/2120	1950/2280
	Axle load: loaded, front/rear		kg	3080/600	3900/550	3930/550	4400/500	5220/860	6020/710
50	Battery		9	3000/000	3900/330	3934/330	4400/3000	J22V/00V	0020/110
01	Battery voltage/capacity k5		V/Ah	48/400	48/400	48/480	48/480	48/600	48/600
	Battery weight		kg	650(600–1000)	650(600–1000)	760(700–1000)	760(700–1000)	1000(950–1300)	1000(950–1300)
	Battery, din standard		νA	43531A	43531A	43531A	43531A	43531A	43531A
00	Motor and controller			4000 IA	4000 IA	4000IA	MICOUP	4000TA	4000 IA
01	Drive motor power-60 minutes		kW	8.0	8.0	8.0	80	11.1	11.1
	Lifting motor power-15 minutes		kW	7.5	7.5	7.5	8.0 8.6	10.5	10.5
03	Drive motor controlling mode		LAA	MOSFET/AC	MOSFET/AC	MOSFET/AC	MOSFET/AC	MOSFET/AC	MOSFET/AC
	Lifting motor controlling mode			MOSFET/DC	MOSFET/DC	MOSFET/DC	MOSFET/DC	MOSFET/DC	MOSFET/DC
.04				Hydraulic/Mechanial	MOSFET/DC Hydraulic/Mechanial	MOSFET/DC Hydraulic/Mechanial	Hydraulic/Mechanial	MOSFET/DC Hydraulic/Mechanial	MOSFET/DC Hydraulic/Mechan
.05	Service brake/parking brake								

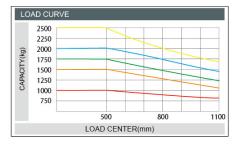
NOTE: *Detailed information about battery, please contact our salesmen or engineer.





- 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.

		WIDE	VIEW M	AST											
Mast model	Max. lifting height	Loa	ad capacity	y (load cer	nter 500mm	n)(kg)	Mast over (fork to the o	all height ground)(mm))	Service weight(kg)					
	(mm)	1t	1.5t	1.8t	2t	2.5t	1-1.8t	2-2.5t	1t	1.5t(A)	1.5t(C)	1.8t	2t	2.5t	angle (°)α/β
M200	2000	1000	1500	1750	2000	2500	1495	1500	2615	2885	2915	3085	3990	4140	6/12
M250	2500	1000	1500	1750	2000	2500	1745	1750	2645	2915	2945	3115	4035	4185	6/12
M300	3000	1000	1500	1750	2000	2500	1995	2000	2680	2950	2980	3250	4080	4230	6/12
M330	3300	1000	1500	1750	2000	2500	2145	2150	2700	2970	3000	3170	4105	4255	6/12
M350	3500	1000	1500	1750	2000	2500	2245	2250	2710	2980	3010	3180	4125	4275	6/12
M370	3700	1000	1500	1750	2000	2500	2345	2350	2725	2995	3025	3195	4140	4290	6/6
M400	4000	1000	1500	1700	2000	2450	2545	2550	2775	3045	3075	3245	4200	4350	6/6
M425	4250	1000	1400	1650 *1750	1850	2250	2670	2675	2790	3060	3090	3260	4225	4375	6/6 *6/12
M450	4500	950	1350	1550 *1700	1800	2150	2795	2800	2805	3075	3105	3275	4250	4400	6/6 *6/12
M500	5000	930	1000 *1250	1000 *1600	1600 *1700	1600 *2000		3050	2840	3110	3140	3310	4295	4445	6/6 *6/6
M550	5500	900	900 *1150	950 *1500	1500 *1600	1500 *1900	3345	3350	2900	3170	3200	3370	4370	4520	*3/6
M600	6000	600 *850	600 *1050	600 *1400	950 *1500	950 *1800	2505	3600	2930	3200	3230	3400	4420	4570	*3/6

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



Mast model	Max. lifting	Load	capacity	(load cen	ter 500m	m)(kg)	Mast heigl	overall ht(mm)	Free lifting (with back	ng height krest)(mm)	Service weight(kg)					
	height (mm)	1t	1.5t	1.8t	2t	2.5t	1-1.8t	2-2.5t	1-1.8t	2-2.5t	1t	1.5t(A)	1.5t(C)	1.8t	2t	2.5t	angle - (°)α/β
ZM200	2000	1000	1500	1750	2000	2500	1495	1500	485	495	2660	2930	2960	3130	4000	4150	6/12
ZM250	2500	1000	1500	1750	2000	2500	1745	1750	735	745	2690	2960	2990	3160	4045	4195	6/12
ZM300	3000	1000	1500	1750	2000	2500	1995	2000	985	840	2725	2995	3025	3295	4095	4245	6/12
ZM330	3300	1000	1500	1750	2000	2500	2145	2150	1135	990	2750	3020	3050	3220	4115	4265	6/12
ZM350	3500	1000	1500	1750	2000	2500	2245	2250	1235	1090	2760	3030	3060	3230	4145	4295	6/12
ZM370	3700	1000	1500	1750	2000	2450	2345	2350	1335	1205	2775	3045	3075	3245	4160	4310	6/6
ZM400	4000	1000	1500	1750	2000	2400	2545	2550	1535	1390	2825	3095	3125	3295	4225	4375	6/6
ZM425	4250	1000	1400	1650 *1750	1850	2250	2670	2675	1660	1515	2840	3110	3140	3310	4250	4400	6/6 *6/12
ZM450	4500	950	1350	1550 *1700	1800	2150	2795	2800	1785	1640	2860	3130	3160	3330	4275	4425	6/6 *6/12
ZM500	5000	930	1000 *1600	1000 *1600	1600 *1700	1600 *2000	3045	3050	2035	1910	2895	3165	3195	3365	4320	4470	6/6 *6/6
ZM550	5500	900	950 *1150	950 *1500	1500 *1600	1500 *1900	3345	3350	2335	2190	2955	3225	3255	3425	4405	4555	*3/6
ZM600	6000	600 *850	600 *1050	600 *1400	950 *1500	950 *1800	3595	3600	2585	2440	2990	3260	3290	3460	4455	4605	*3/6

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.

Mast model	Max. lifting height	Load	l capacity	(load cen	ter 500m	m)(kg)		overall nt(mm)	Free liftir (with back	ng height krest)(mm)			Service w	reight(kg)			Mast tilt angle (°)α/β
	(mm)	1t	1.5t	1.8t	2t	2.5t	1-1.8t	2-2.5t	1-1.8t	2-2.5t	1t	1.5t(A)	1.5t(C)	1.8t	2t	2.5t	- ()wp
ZSM360	3600	1000	1450	1750	2000	2400	1790	1795	695	795	2775	3045	3075	3245	4205	4355	6/6
ZSM400	4000	1000	1400	1600	1900	2300	1925	1920	910	920	2800	3070	3100	3270	4240	4390	6/6
ZSM435	4350	950	1300	1500 *1700	1850	2200	2040	2045	1025	1045	2820	3090	3120	3390	4275	4425	6/6
ZSM450	4500	950	1300	1500 *1650	1750	2100	2090	2095	1075	1095	2830	3100	3130	3300	4285	4435	6/6
ZSM470	4700	930	1280	1450 *1600	1720	2000	2160	2160	1075	1160	2850	3120	3150	3320	4305	4455	6/6
ZSM480	4800	920	1250	1400 *1580	1700	1950	2190	2195	1145	1195	2860	3130	3160	3330	4315	4465	6/6
ZSM500	5000	900	1000 *1200	1000 *1550	1600	1600 *1900	2290	2295	1275	1295	2880	3150	3180	3350	4345	4495	6/6
ZSM540	5400	750 *900	800 *1150	800 *1480	1500	1500 *1800	2415	2420	1400	1420	2900	3170	3200	3370	4385	4535	3/6 *3/6
ZSM600	6000	550 *850	550 *1050	550 *1380	950 *1450	950 *1700	2640	2645	1625	1645	2975	3245	3275	3445	4450	4600	3/6 *3/6
ZSM650	6500	*800	*1000	*1250	600 *1300	600 *1500	2840	2835	1815	1835	3010	3280	3310	3480	4505	4655	3/3 *3/3
ZSM700	7000	*650	*750	*900	*1000	*1100	3025	3105	2010	2105	3050	3320	3350	3520	4570	4720	*3/3

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%.







G 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

Boom Cab Loadhook

Hinged fork

Side shifter Paper roll clamp

Solidityre

Rear work lights

Protective fences

Multi function barrel clamp

OPTIONS

Load stabilizer Widened fork carriage Lengthened fork String bar Load pusher Fork sleeve Rotating flat clamp Back view mirror

Dual-tyres protector Accessory hydraulic component

warning light (rotating or buzzing) Tilt/Steering cylinder protection sleeve

Colored tyre(white/green)

Wide view double/triplex full free mast

User-specified color









AC ELECTRIC 3-3.5 ton

HELI

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.



Excellent steering system



technologies not only provides a smoother swerve and faster positioning & steering, but also effectively lowers down the noise.

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

AC drive motor

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.



THE MAXIMUM LOADED LIFTING SPEED INCRERSES



- 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.





More intelligent performance



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

The wonderful combination of high-power AC motor and the new style gearbox by indepen-dent R&D fully enhance

the performance of acceleration, driving and grade ability.

THE MAXIMUM TRAVEL SPEED INCREASES



✓ Self-braking on ramp

energy consumption.

- ✓ Preventing abnormity operating
- ✓ AC traction controller
- √ Emergency power shut-down
- ✓ Electric controller self-protecting
- Presence of driver sensing system
- ✓ Speed selection function (normal/cutback)

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





ZAPI CONTROLLER

CURTIS CONTROLLER





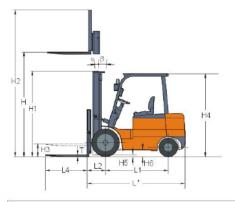


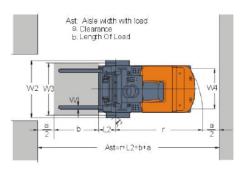
AC ELECTRIC 3-3.5 ton

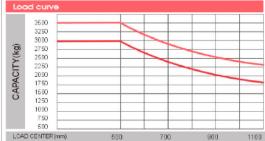


lanu	facturers Data and Design Characteristics				
	Characteristics				
.01	Manufacture's Name			HE	ELI .
02	Model Designation			CPD30	CPD35
03	Configuration Number			G1/G2	G1/G2
04	Load Capacity	Q	kg	3000	3500
05	Load Center	C	mm	500	500
06	Power Type			Battery	Battery
07	Operator Type			Seated	Seated
18	Wheelbase	L1	mm	1680	1680
	Wheels & Tyres				
01	Tyre Type			Pneumatic	Superelastic
02	Tyres Number (Front/Rear)			2/2	2/2
03	Tread(centre of tyre).front	W3	mm	1000	1000
04	Tread(centre of tyre).rear	W4	mm	980	980
05	Tyre Size, Front			28×9-15-12PR	28×9-15
06	Tyre Size, Rear			18×7-8-14PR	18×7-8
	Dimensions			10-11-11	10-1-0
01	Load Distance	L2	mm	485	490
02	Mast Tilt Angle,F/R	α/β		6/10	6/10
03	Height with Mast Lowered	H1	mm	2075	2180
04	Free Lift	НЗ	mm	145	150
05	Standard Lift Height	Н	mm	3000	3000
06	Height with Mast Extended	H2	mm	4182	4177
07	Overhead Guard Height	14	mm	2215	2215
08	Fork Size T×W×L	T×W×L4	mm	45×125×1070	50×125×1070
09	Fork Carriage to DIN 15173 A/B	LATVALT	13811	3A	3A
10	Length to fork face	L ²	mm	2485	2550
11	Overall Width	W2	mm	1225	1225
12	Outside Turning Radius	1 1	mm	2210	2270
13	Ground Clearance at mast ,Loaded	H5	mm	135	135
14	Ground Clearance at centre of wheelbase ,Loaded	H6		150	150
15	Right Stack Aisle width (Pallet size 1000x1000mm, clearance:200mm)	Ast	mm mm	3965	4030
.16	Right Stack Aisle width (Pallet size 1000x1000mm, dearance:200mm) Right Stack Aisle width (Pallet size 1200x1200mm, dearance:200mm)	Ast			
10	Performances	A.s.	mm	4095	4160
.01	Travel Speed with/without load		km/h	AE DWEE	44.545.0
02				15.0/15.5	14.5/15.0
02	Lifting Speed,with/without load		mm/s	280/450	250/440
03	Lifting Speed,with/without load		mm/s	340/460	325/450
.03	Lowering Speed Gradient performance with load		mm/s %	500	500 12
.05					
06	Max. draw bar pull with load		N	15600	17500
.00	Acceleration time (10 metres) W/O load		S	5.0/4.7	5.2/4.9
01	Weight			40.40.00.00.0	55000000
.02	Total Approximate Weight(W/O battery)		kg	4810/3230	5500/3920
03	Axle Loading*: Unloaded,Front/Rear		kg	2320/2490	2640/2860
.03	Axle Loading*: Loaded,Front/Rear Battery		kg	7065/755	8145/855
01			V/Ah	001100	001100
.02	Battery Voltage/rated capacity(5h)			80/480	80/480
03	battery weight		kg	1580	1580
UJ	Battery to DIN 43531/35/36/A/B/C			43536A	43536A
01	Motor & Controller Drive Motor - 60 Min. Reting		kVV	18.8(50)	10 0/401
02			kVV	16.6(AC)	16.6(AC)
02	Pump Motor - 15 Min. Rating			13(DC)	13(DC)
02	Pump Motor - 15 Min. Rating		kVV	13.5(AC)	13.5(AC)
	Drive Motor Control Method			MOSFET/AC	MOSFET/AC
04	Pump Motor Control Method			MOSFET/DC	MOSFET/DC
04	Pump Motor Control Method			MOSFET/AC	MOSFET/AC
05	Service Brake/Parking Brake			Hydraulic/Mechanial	Hydraulic/Mechania
.06	Relief Pressure		Mpa	21	21

 $^{^{\}star}$ 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.

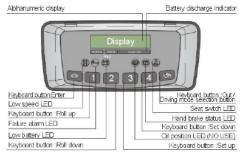


Renewable energy technologies

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%.



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



Mast model	Max. Fork height	Load Capacity (Loa	d center 500mm) (kg)	Overall H	eight (mm)	Tilt Angle (α/β
Wast model	(mm)	CPD30	CPD36	CPD30	CPD35	THE MANGE (EVB
M200	2000	3000	3500	1565	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
M350	3500	3000	3500	2315	2430	6/10
M370	3700	3000	3400	2415	2530	-6/Po
M400	4000	2950	3350	2615	2730	5/5 16/10
M425	4250	2850	3250	2740	2855	5/F0
M450	4500	2750	3100	2865	2980	6/6 16/10
M500	5000	2400 *2550	2650 *2800	3115	3230	6/6 *6/6
M550	5500	2250 *2450	2500 *2600	3415	3530	3/6
M600	6000	-1500 -2500	*1550 *2400	3665	3780	3/6

Mast model	Max. fork height	Load Capacity (Load	i center 500 mm) (kg)	Overall H	leight (mm)	Free lift (With ST	Dbackrest) (mm)	Tilt Angle
Iviast model	(mm)	CPD30	CPD35	CPD30	CPD35	CPD30	CPD35	(α/β)
ZM200	2000	3000	3500	1570	1680	344	500	6/10
Z M250	2500	3000	3500	1820	1930	594	750	6/10
Z M300	3000	3000	3500	2070	2180	B44	1000	6/10
Z M330	3300	3000	3500	2220	2330	994	1150	5/10
Zm350	3500	3000	3500	2320	2430	1094	1250	6/10
ZM370	3700	3000	3400	2420	2530	1194	1350	6/6
Z M400	4000	2950	3350	2620	2730	1394	1550	*6/10
ZIM425	4250	2850	3250	2745	2855	1519	1675	6/6 6/10
ZM450	4500	2750	3100	2870	2980	1644	1800	6/6 16/10
ZM500	6000	2400 *2550	2650 *2800	3120	3230	1894	2050	6/6 *6/6
ZM550	5500	+2250 +2450	*2500 *2600	3420	3530	2194	2350	3/6
Z M600	6000	±1500 ±2200	~1550	3670	3780	2444	2600	3/6

March and d	Max. Fork height	Load Capacity (Loa	d center 500 mm) (kg)	Overall H	eight (mm)	Free lift (With ST	e lift (With STD backrest) (mm) Ti		
Mast model	(mm)	CPD30	CPD35	CPD30	CPD35	CPD30	CPD35	(a/B)	
ZSM360	3600	3000	3400	1946	1946	670	670	6/6	
ZSM400	4000	2900	3250	2065	2065	795	795	6.76	
ZSM435	4350	2750	3150	2190	2190	920	920	5/6	
ZSM450	4500	2700	3000	2240	2240	970	970	6/6	
ZSM470	4700	2650	2850	2240	2240	970	970	6/6	
ZSM480	4800	2600	2800	2340	2340	1070	1070	6/6	
ZSM500	5000	2400 *2500	2650	2440	2440	1170	1170	6/6	
ZSM540	5400	-2250 -2450	2500	2565	2565	1295	1295	3/6	
ZSM600	6000	±1550 ±2150	~1550 ~2560	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.



STANDARD EQUIPMENT

Hour meter Overhead guard Horn Standard forks Oil pressure alarm Central Control Box Three-spool control vavle Hydraulic circuit oil filter Power steering Radiator tank Rubber pedal pad Backrest Back view mirror Front conbined lights Transmission oil filter Engine flameout device Parking brake cable Water temperature meter Attached tools Rear combined lights

Speed -limiting valve Oil meter Battery-charge indicator Wide-view mast Intake device Durable tire Operating handles Traction pin Standard seat

Hudraulic oil gauge Reversing buzzer Overhead guard raincoat Self-locking tilt valve Torque converter oil gauge Combined dispaly

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





Reliable forklift

A reliable Drive system



As the most reliable transmission system produced by HELI. it has been validated by overtwenty 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 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

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.

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

Comfortable operation space

- ✓ 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 Characterist	ics															
Characteristics																
1 Manufacturer									Не	ELI .						
2 Model			CPC10 CPCD10	CPC15 CPCD15	CPC18 CPCD18	l cecal cecas	CPC25 CPCD26	CPC30 CPCD3	CPC35 CPCD35		CPO15 CPOD15	CP018 CP0P18	CPO20 CPOTO		CPO30 CPOD30	CP035 CP0D35
3 Power unit			C1 C10 C1 CB10	Tel e le lei eb le	or oroger object	Diesel	C1 C20 C1 CB20	0 01 000 0 000	5 C1 C00 C1 CB00	CI GIO OI GENO	or a to or ab to	or a to or abio	Gasoline	o ci azo ci abzo	CI GOO CI GEOC	C1 400 C1 4200
4 Rated Capacity		kg	1000	1500	1750	2000	2500	3000	3500	1000	1500	1750	2000	2500	3000	3500
5 Load Center		mm	1000	1300	1700	500	2000	3000	3300	1000	1500	1750	500	2500	3000	3500
6 Operation						Driver seated							Driver seated			
Dimensions						Driver sealed							Dilver seated			
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.Lifiting height	h3	mm	4030	3000	4030	4030		000	4202	4030	3000	4030	4030		100	4202
9 Height mast retracted(upright)	h1		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	1000	1025	1000			035	1222	1000	1025	1000			35	
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		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		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	В	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	1070	950/200	1010	1000/222	1000/222	1055/250	1055/250	1010	950/200	1070	1000/222	1000/222	1055/250	1055/250
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	2000000	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		1977	2052	2093	2200	2280	2380	2400	1977	2052	2093	2200	2280	2380	2400
28 Tilting angles(forward/backward)	qβ		1011	6° /12°				/12°		1011	6° /12°	2000		6°		
29 Fork dimensions(axbxc)		mm	770×100×32		920×100×35	920×100×45			1070×125×50	770×100×32		920×100×35	920×100×45			1070×125×50
Performance																
30 Max. Traveling speeds(With/Without load)		km/h		13.5/14.5		17	/19	18/19	19/19		13.5/14.5		1	7/19	18/19	19/19
31 Lifting Speeds(With/Without load)		mm/s		590/650			/550	440/480	330/370		590/650			0/550	450/480	310/340
32 Lowering Speeds(With/Without load)		mm/s		450/550		450		450/500	350/400		450/550			0/550	450/500	350/400
33 Max. Draw-bar pull,(With/Without load)		kN	12.3/7 18/7	12.3/7 18/7	12.3/7 18/7	14.2/9 16.4/9	13.7/8.6 16.2/8.6	13.5/9.8 16/9.8	16.7/11.8 20.6/11.8	9.3/6.9 14.2/6.9	9.3/6.9 14.2/6.9	9.3/6.9 14.2/6.9	11/9 12.3/9	9.8/8.6 12.3/8.6	9.1/9.8 10.8/9.8	14/9.8 18.5/9.8
34 Max. Negotiable Gradient(With/Without load)		%		≥20		23/20 25/20	20/17 21.5/17	15/17 16/17	20/15 22/15	30/22 37/22	23/18 27/18	20/17 24/17	18/20 18/20	15/17 15/17	12/14 14/14	15/15 15/15
Weights																
35 Service Mass		kg	2220	2660	2890	3320	3680	4270	4700	2220	2660	2890	3320	3680	4270	4700
36 Load Wheel with load(Front/Rear)		kg	2830/390	3640/520	4040/600	4788/532	5562/618	6543/727	7380/820	2830/390	3640/520	4040/600	4788/532	5562/618	6543/727	7380/820
37 Load Wheel without load(Front/Rear)		kg	1220/1000	1170/1490	1140/1750	1328/1992	1472/2208	1708/2562	1880/2820	1220/1000	1170/1490	1140/1750	1328/1992	1472/2208	1708/2562	1880/2820
Tyres						•		·		ac ne						
38 Wheels number front/rear(x=driven)				2X/2			2)	X/2			2X/2			2>	V2	
39 Tyre Type				Pneumatic				umatic			Pneumatic				umatic	
40 Tyre size(front)				6.50-10-10PR		7.00-1	2-12PR	28×9-15-12PR	28×9-15-14PR		6.50-10-10PR		7.00-1	2-12PR	28×9-15-12PR	28×9-15-14PR
41 Tyre size(rear)				5.00-8-8PR		6.00-9	9-10PR	6.50-10-10PR	6.50-10-10PR		5.00-8-8PR		6.00-	9-10PR	6.50-10-10PR	6.50-10-10PR
42 Service Brake					H	lydraulic-Foot Ped	dal					Hy	ydraulic-Foot Pe	dal		
43 Paking Brake					Me	echanical-Hand Le	ever					Med	chanical-Hand L	ever		
Drive																
44 Battery (Voltage/Capacity)		V/Ah				12/80			N I		12/60			12	/60	
45 Internal Combustion Engine Model				ISUZU C240PKJ			ISUZU C240PKJ	J	ISUZU 4JG2		NISSAN K15			NISSAN K21		NISSAN K25
46 Internal Combustion Engine Rated Output		kW/rpm		35.4/2500			35.4/2500		44.9/2450		23.6/2400			31.2/2250		37.6/2400
47 Internal Combustion Engine Rated Torque		Nm/rpm		139.9/1800			139.9/1800		184.7/1600~1800		103/1600			143.7/1600		176.5/1600
48 Internal Combustion Engine Number of Cylinder				4-86×102			4-86×102		4-95.4×107		4-75.5×83			4-89×83		4-89×100
49 Internal Combustion Engine Displacement		L		2.369			2.369		3.05		1.468			2.065		2.488
50 Internal Combustion Engine Fuel Tank Capacity		L		38			6	30			38				60	
51 Transmission Number of Speed Fwd/Bwd type			1-1Power Si	hift T/M, 2-2 Man	ual Shift T/M	1-1	Power Shift T/M ,	, 2-2 Manual Shif	: T/M	1-1Power Sh	nift T/M , 2-2 Mar	nual Shift T/M	1-	1Power Shift T/M	, 2-2 Manual Shift	T/M

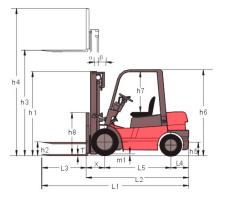
Engin Model and M	ain Specification for Opt	tion			
Engine Model	Rated Power / Rotating Speed (kW/rpm)	Rated Torque/ Rotating Speed (Nm/rpm)	Engine Capacity (L)	Number of cylinders	Remark
Kubota V2403	35.4/2400	161.3/1600	2.434	4	For 1-2.5t
Nubuta V2403	36.5/2600	164/1500	2.434	4	For 3-3.5t
Kubota V3600	46.9/2400	210/1600	3.62	4	For 2-3.5t
QUANCHAI QC490GP	39/2650	162/1950	2.67	4	For 2-3.5t
XINCHANG A490BPG	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
JIANGLING Hj493	33/2300	153/1800	2.771	4	For 1-1.8t
JIANGLING 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

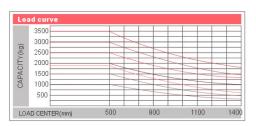
Reliable special designed instrument

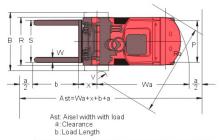


The reliable special instrument gives a complete display of the vital information, like operation status, fault detection, etc. It ensures the operator predominate the vehicle status more intuitive and convenient.

- √ Stepping motor core
- ✓ Electrical safety standard meets CE requirements







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

CPC20/CPCD2 CPQ20/CPQD2	CPC30/CPCD30 CPQ30/CPQD30	CPC35/CPCD35 CPQ35/CPQD35
CPC18/CPCD18 CPQ18/CPQD18	CPC10/CPCD10 CPQ10/CPQD10	

Note:

Capacities shown are computed with upright in vertical position. based on a 1000 mm cube load configuration with the center of gravity at the true center of the cube, and standard forks. Truck capacities with upright inforward tilt position will be less. Long forks, and unusually wide or loads may also reduce capacity.



- 1	3.5t \																			
	Max.		С	apacity at	500 mm; Loa	d center (k	g)		01	erall Mast	Height(m	m)				Sen	vice Weight	(kg)		
Mast model	fork height mm	CPQ10/ CPQD10 CPC10/ CPCD10	CPQ15/ CPQD15 CPC15/ CPCD15	CPQ18/ CPQD18 CPC18/ CPCD18	CPG20/ CPGD20 CPG20/ CPCD20	CPQ25/ CPQD25 CPC25/ CPCD25	CPQ30/ CPQD30 CPC30/ CPCD30	CPQ35/ CPQD35 CPC35/ CPCD35	1-1.8t	2-2.5t	3t	3.5t	Tilting Angle	CPQ10/ CPQD10 CPC10/ CPCD10	CPQ 15/ CPQD 15 CPC 15/ CPCD 15	CPQ 18/ CPQD 18 CPC 18/ CPC D 18	CPQ20/ CPQD20 CPC20/ CPCD20	CPQ25/ CPQD25 CPC25/ CPCD25	CPQ30/ CPQD30 CPC30/ CPCD30	CPQ35 CPQD35 CPCD35
M200	2000	1000	1500	1750	2000	2500	3000	3500	1495	1500	1565	1680	6 - 12	2120	2530	2760	3240	3600	4265	4800
M250	2500	1000	1500	1750	2000	2500	3000	3500	1745	1750	1815	1930	6 - 12	2145	2555	2785	3280	3640	4310	4850
M300	3000	1000	1500	1750	2000	2500	3000	3500	1995	2000	2065	2180	6 - 12	2220	2660	2890	3320	3680	4270	4700
M330	3300	1000	1500	1750	2000	2500	3000	3500	2145	2150	2215	2330	6 - 12	2195	2605	2835	3345	3705	4375	4935
M350	3500	1000	1500	1750	2000	2500	3000	3500	2245	2250	2315	2430	6 - 12	2210	2620	2850	3360	3720	4390	4935
M370	3700	1000	1500	1750	2000	2500	3000	3500	2345	2350	2415	2530	6 · 6 *6 · 12	2230	2640	2870	3375	3735	4410	4970
M400	4000	1000	1500	1700 1750	2000	2500	3000	3200 *3500	2545	2550	2615	2730	6 - 6	2270	2680	2910	3420	3780	4470	5055
M425	4250	950	1400 *1500	1600 * 1750	1900	2250 *2500	2850 *3000	3100 *3200	2670	2675	2740	2855	6 - 6	2285	2695	2925	3440	3800	4490	5085
M450	4500	950	1300 *1400	1550 * 1700	1800 *1900	2150 *2400	2750 *3000	3000 *3050	2795	2800	2865	2980	6 · 6 *6 · 12	2300	2710	2940	3460	3820	4510	5100
M500	5000	930 *950	1000 *1350	1100 * 1600	1600 *1700	1650 *2200	2400 *2850	2500 *2850	3045	3050	3115	3230	6-6	2335	2745	2975	3500	3960	4560	5170
M550	5500	*900	*1150	*1500	*1600	*1950	*2400	*2500	3345	3350	3415	3530	*3 -6	2500	2910	3140	3695	4055	4780	5270
M600	6000	*850	*1050	*1400	*1500	* 1800	*2200	*2300	3595	3600	3665	3780	*3.6	2530	2940	3170	3735	4095	4820	5330

NOTE: (1)For gas,diesel model:+90kg,dual wheels weight:+110kg. (2)*(Front wheel) is dual wheels load capacity. (3)Rated capacity with(?)shows capity with front dual tires. (4)Max ifting without lift-bracket:-470mm.

1	-3.51	WIDE	VIEW	/ FULI	FREE	2-ST	AGE N	IAST																
	Max.		Cap	pacity at 6	500mm; Lo	ad center	(kg)		Over	all Mast	HainM	t (mm)								Serv	ice Weight	(kg)		
Mast	fork height	CPQ 10/ CPQD 10	CPQ15/ CPQD15	CPQ 18/ CPQD 18	CPQ20/ CPQD20	CPQ25/ CPQD25	CPQ30/ CPQD30	CPQ35/ CPQD35		At Lo	wered		Free	Lift (w	nth Bad	kest)	Tilting Angle	CPQ10/ CPQD10	CPQ15/ CPQD15	CPQ18/ CPQD18	CP 020/ CP 0 D 20	CPQ25/ CPQD25	CPQ30/ CPQD30	CPQ35/ CPQD35
	mm	CPC10/ CPCD10	CPCD15/ CPCD15	CPC18/ CPCD18	CPC20/ CPCD20	CPC25/ CPCD25	CPCD30	CPC35/ CPCD35	1-1.8t	2-2.5t	3t	3.5t	1-1.8t	2-2.5t	3t	3.5t		CPC10/ CPCD10	CPC 15/ CPC D 15	CPC18/ CPCD18	CPC20/ CPCD20	CPC25/ CPCD25	CPCD30	CPC35/ CPCD35
ZM200	2000	1000	1500	1750	2000	2500	3000	3500	1535	1495	1570	1680	520	495	340	460	6 - 12	2135	2555	2795	3250	3615	4290	4830
ZM250	2500	1000	1500	1750	2000	2500	3000	3500	1745	1745	1820	1930	735	745	590	710	6 - 12	2195	2615	2855	3340	3680	4360	4880
ZM300	3000	1000	1500	1750	2000	2500	3000	3500	1995	1995	2070	2180	985	995	840	960	6 - 12	2230	2650	2890	3385	3725	4390	4930
ZM330	3300	1000	1500	1750	2000	2500	3000	3500	2145	2145	2220	2330	1135	1145	990	1100	6 - 12	2250	2670	2910	3405	3750	4415	4965
ZM350	3500	1000	1500	1750	2000	2500	3000	3500	2245	2245	2320	2430	1235	1245	1090	1210	6-12	2265	2685	2925	3420	3765	4460	5000
ZM370	3700	1000	1500	1750	2000	2500	3000	3500	2370	2345	2420	2530	1360	1345	1205	1335	6 - 6 6 - 12	2280	2700	2940	3375	3735	4410	5000
ZM400	4000	1000	1500	1700 1750	2000	2500	3000	3200 *3500	2545	2545	2620	2730	1535	1545	1390	1510	6 - 6	2330	2750	2990	3500	3840	4545	5085
ZM425	4250	950	1400 1500	1600 1750	1900 *2000	2250 *2500	2850 *3000	3100 *3200	2670	2670	2745	2855	1660	1670	1515	1635	6 - 6	2350	2770	3010	3525	3865	4565	5115
ZM450	4500	950	1300	. 1550 . 1700	1800	2150 *2400	2750 *3000	3000 *3050	2795	2795	2870	2980	1785	1795	1640	1760	6 - 6	2365	2785	3025	3545	3880	4595	5130
ZM500	5000	930 '950	1000	1100 1600	1600 *1700	1650 *2200	2400 *2850	2500 *2850	3045	3045	3120	3230	2035	2045	1910	2010	6.6	2400	2820	3060	3590	3925	4615	5200
ZM550	5500	*900	*1150	*1500	*1600	*1950	*2460	*2500	3345	3345	3420	3530	2335	2345	2190	2310	*3-6	2575	2995	3235	3790	4120	4875	5300
ZM600	6000	*850	* 1050	*1400	*1500	*1800	*2200	*2300	3595	3595	3870	3780	2585	2595	2440	2560	*3.6	2610	3030	3270	3835	4170	4920	5360

NOTE: (1)2-2.5t free lift height (without backrest):+435mm,3t free lift height (without backrest):+580mm.

(2)Dual wheels weight: +110kg. (3)*(front wheel) is dual wheels load capacity.

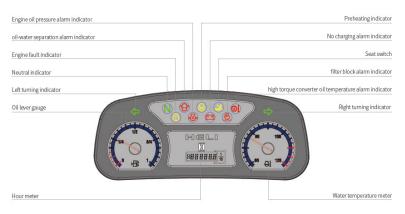
(3) (into twier) is dual witers load capacity.
(4) Max. lifting height without bracket: 470mm.
(5) Free lifting height without bracket: 4470mm.
(6) Rated capacity with("): shows capacity with front dual tires.

	Max.		Cap	pacity at 6	00mm; Lo	ad center	(kg)		Over	all Mast	Height	(mm)	Erne	139 (4	rith Bad	(art)				Serv	ice Weight	(kg)		
Mast model	fork height	CPQ 10/ CPQD 10	CPQ15/ CPQD15	CPQ 18/ CPQD 18	CPQ20/ CPQD20	CPQ25/ CPQD25	CPQ30/ CPQD30	CPQ35/ CPQD35			wered		riee	Litt (w	atin bati		Tilting Angle	CPQ 10/ CPQD 10	CPQ15/ CPQD15	CPQ18/ CPQD18	CP 020/ CP 0 D 20	CPQ25/ CPQD25	CP Q30/ CPQ D30	CPQ3
	mm	CPC10/ CPCD10	CPC15/ CPCD15	CPC18/ CPCD18	CPC20/ CPCD20	CPC25/ CPCD25	CPC30/ CPCD30	CPC35/ CPCD35	1-1.8t	2-2.5t	3t	3.5t	1-1.8t	2-2.5t	3t	3.5t		CPC 10/ CPC D 10	CPC15/ CPCD15	CPCD18	CPC20/ CPCD20	CPC25/ CPCD25	CPCD30	CPC3
Z9N360	3600	1000	1450	1750	2000	2400	2900	3300	1790	1795	1930	1975	780	795	710	750	6.6	2275	2695	2935	3470	3810	4680	-
Z9M400	4000	1000	1400	1600	1900	2400	2900	3300	1915	1920	2055	2105	910	920	835	885	6.6	2300	2720	2960	3505	3845	4615	1 -
ZSM405	4350	900	1350 * 1400	1550 *1700	1850 *1900	2200 *2400	2800 *2900	3000	2040	2045	2180	2230	1030	1045	950	1010	6.6	2325	2745	2985	3535	3885	4650	5075
ZSW460	4500	900	1300 1350	1500 1650	1750 *1800	2150 *2300	2700 *2800	2900 *2900	2090	2095	2230	2330	1080	1090	1010	1110	6-6	2355	2750	2995	3565	3910	4660	5080
231/470	4700	900	1300	1450 *1600	1720 *1800	2000	2600 *2800	-	2160	2160	2230	-	1150	1160	1010	-	6-6	2365	2760	3005	3565	3910	4660	-
ZSW480	4800	900	1100 1350	1400 1590	1700 1800	1950 *2300	2500 *2800	2600 *2900	2190	2195	2330	2430	1180	1195	1110	1210	6.6	2375	2775	3010	3575	3915	4680	5095
ZSIN600	5000	900	1100 * 1300	1150 *1550	1600 1750	1650 *2250	2400 *2750	2450 *2850	2290	2295	2430	2555	1280	1295	1210	1335	6.6	2400	2780	3035	3715	4055	4725	5085
ZSM540	5400	800	850 1250	850 *1500	1450	1500 *2150	2250 *2650	2300 *2700	2415	2420	2555	2655	1410	1420	1335	1435	3.6	2420	2815	3055	3895	4235	4760	-
Z9M600	6000	550 *850	550 *1100	550 *1400	950 *1600	1000 *1800	1500 *2100	1550 *2200	2650	2645	2780	2875	1640	1645	1560	1655	3.6	2480	2875	3115	3945	4285	4850	-
ZSIN650	6500	*800	* 1000	*1250					2855				1845				*3.6	2530	2925	3165				
ZSM700	7000	_	-	*860	*1000	*1200	*1500	-	3025	3010	3166		2015	2030	1946	-	*3-6	2580	2975	3215	4345	4485	5250	-

NOTE: (1)2-2.5t free lift height (without backrest):+435mm,3t free lift height (without backrest):+580mm.

(2)Dual wheels weight +110kg.
(3)*front wheel) is dual wheels load capacity.
(4)Max lifting height without bracket-470mm.
(6)Free lifting height without bracket-470mm.
(6)Rated capacity with(*):shows capacity with front dual tires.





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

Hour meter

Oil pressure alarm

Three-spool control valve

Power steering Aluminum pedal pad

Backrest

Back view mirror

LED front conbined 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

Rearlights

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 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
- · 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



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)

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
- 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

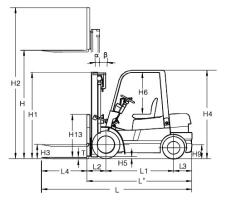
H2000 SERIES 2-3.5 t





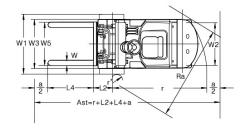
	Characteristics										
1.01	Manufacturer						HE	ELI			
1.02	Model			CPC20	CPCD20	CPC25	CPCD25	CPC30	CPCD30	CPC35	CPCD35
1.03	Power unit						Die	sel			
1.04	Rated Capacity		kg	20	00	25	00	30	00	35	00
1.05	Load Center		mm			110	50	00			
1.06	Operation						Driver	seated			
	Dimensions										
2.01	Max.Lifting height	Н	mm				30	00			
2.02	Height mast retracted(upright)	H1	mm	19	95	19	95	20	70	21	80
2.03	Overall max.lifting height (with backrest)	H2	mm	40	30	40	30	42	25	42	25
2.04	Free lift height	Н3	mm	7	0	7	0	6	5	6	5
2.05	Overall height(overhead guard)	H4	mm	20	70	20	70	20	90	20	90
2.06	Min.ground clearance under mast	H5	mm	11	10	11	10	13	35	13	5
2.07	Overhead Guard clearance(from face of seat)	H6	mm				10	35			
2.08	Coupler height	H9	mm	29	90	29	90	31	0	31	0
2.09	Backrest height(from upper face of forks)	H13	mm	10	00	10	00	12	27	11	77
2.10	Overall length(with forks)	L	mm	34	32	36	57	37	62	37	83
2.11	Overall length(without forks)	Ľ	mm	25	12	25	87	27	07	27	28
2.12	Wheel base	L1	mm	16	00	16	00	17	00	17	00
2.13	Front overhang	L2	mm	47	72	47	72	47	7	49	5
2.14	Rear overhang	L3	mm	44	10	51	15	51	5	51	5
2.15	Overall width	W1	mm	11	50	11	50	12	25	12	25
2.16	Tread(front)	W3	mm	97	70	97	70	10	00	10	00
2.17	Tread(rear)	W2	mm	97	70	97	70	97	0	97	0
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	21	70	22	40	24	00	24	20
2.20	Inside turning radius	r'	mm	16	50	16	50	20	00	20	00
2.21	Min.intersecting aisle	Ra	mm	22	00	22	80	23	80	24	00
2.22	Tilting angles(forward/backward)	α/β	deg				6/	12			
2.23	Fork dimensions(L4xWxT)	L4×W×T	mm	920×1	22×40	1070×1	122×40	1070×1	25×45	1070×1	25×50
	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		-	/550		450/		350/	
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	33	80	37	00	43	00	47	00
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	7/2			
5.02	Tyre Type						Pneu	matic			
5.03	Tyre size(front)				7.00-1	2-12PR			28×9-15	-14PR	
5.04	Tyre size(rear)				6.00-9	9-10PR			6.50-10-	10PR	
5.05	Service Brake					Н	lydraulic-	Foot Peda	al		
5.06	Paking Brake					Me	chanical	Hand Lev	/er		

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 III A / China Stage III	Diesel
ISUZU C240PKJ-30	35.4/2500	139.9/1800	2.369	4-86×102	Euro Stage III A / China Stage III	Diesel
Kubota V3600	46.9/2400	209.8/1600	3.62	4–98×120	Euro Stage III A / Epa Interim Tier 4	Diesel
Kubota V2403	34.1/2400	155.9/1600	2.434	4-87×102.4	Euro Stage III A / China Stage III / Epa Interim Tier 4	Diesel
XIN CHANG C490BPG-25	36.8/2650	156/1800~2000	2.67	4-90×105	Euro Stage III A	Diesel
JMC HJ493G	36.5/2500	165/1800	2.771	4–93×102	Euro Stage III A	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

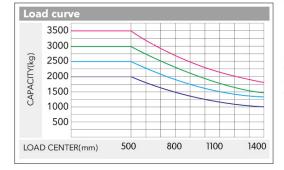


Ast:Right angle stacking aisle width a:Clearance L4:Length of fork

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



Engine Model an	d 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	<u>=</u> 1	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 V	VIDE VIEW	MAST											
Mark	Max.fork	Capac	city at 500n	nm(Load ce	enter)(kg)	mast overall	height(forkto	the ground)	mast tilting		Service We	ight (kg)	
Mast model	height (mm)	CPC20/ CPCD20	CPC25/ CPCD25	CPC30/ CPCD30	CPC35/ CPCD35	2-2.5t	3t	3.5t	angle α/β(°)	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	3200 *3500	2545	2620	2730	*6/12	3510	3830	4450	4860
M425	4250	1900 *2000 1800	2250 *2500 2150	2850 *3000 2750	3100 *3200 3000	2670	2745	2855	*6/12	3535	3855	4480	4885
M450	4500	*1900	2150 *2400	2750 *3000	*3050	2795	2870	2980	*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 VI	EW FULI	FREE 2	-STAGE I	MAST											
Mast model	Max.fork height	Capacity	at 500mm	n(Load ce	nter) (kg)		overall h the grou		free (with	lifting hei backrest)	ght (mm)	mast tilting angle		Service V	Veight (kg	1)
model	(mm)	CPC20/ CPCD20	CPC25/ CPCD25	CPC30/ CPCD30	CPC35/ CPCD35	2-2.5t	3t	3.5t	2-2.5t	3t	3.5t	α/β(°)	CPC20/ CPCD20	CPC25/ CPCD25	CPC30/ CPCD30	CPC35/ CPCD35
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 *6/12	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 *3500	2545	2620	2730	1545	1390	1390	*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 *1900	2150 *2400	2750 *3000	3000 *3050 2500	2795	2870	2980	1795	1640	1640	*6/6	3640	3960	4550	4950
ZM500	5000	1600 *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

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.
(3) The free lifting height (without backrest) of the 24.25 truck is the height (with backrest) with table plus 450 mm. The free lifting height (without backrest) of the 3t truck is the height (with backrest) in the table plus 550 mm. The free lifting height (without backrest) of the 3t truck is the height (with backrest) in the table plus 550 mm.

2-3.5t W	IDE VIEW	/ FULL FI	REE 3-ST	AGE MA	\ST											
Mast	Max.fork height	Capacity	at 500mr	n(Load ce	enter) (kg)	mast (fork to	overall he the grour	eight nd)(mm)	free (with	lifting hei backrest)	ght (mm)	mast tilting angle		Service W	/eight (kg	3)
model	(mm)	2t	2.5t	3t	3.5t	2-2.5t	3t	3.5t	2-2.5t	3t	3.5t	α/β(°)	CPC20/ CPCD20	CPC25/ CPCD25	CPC30/ CPCD30	CPC35/ CPCD35
ZSM360	3600	2000	2400	2900	3250	1800	1870	1870	800	640	640	6-6	3495	3835	4510	4770
ZSM400	4000	1900	2400	2900	3250	1950	2020	2020	950	790	790	6-6	3540	3875	4540	4800
ZSM435	4350	1850 *1900	2200 *2400	2850 *2900	2900 *3050	2050	2120	2120	1050	890	890	6-6	3570	3920	4560	4820
ZSM450	4500	1750 *1800	2150 *2300	2750 *2850	2800 *2950	2100	2170	2170	1100	940	940	6-6	3580	3965	4580	4840
ZSM470	4700	1720 *1800	2000 *2300	2650 *2800	2700 *2900	2165	2230	2230	1165	1000	1000	6-6	3600	4005	4600	4860
ZSM480	4800	1700	1950 *2300	2550 *2800	2650 *2900	2210	2270	2270	1210	1040	1040	6-6	3615	4050	4620	4880
ZSM500	5000	*1800 1600 *1750	1650	2450	2500	2300	2370	2370	1300	1140	1140	6-6	3640	4095	4645	4905
ZSM540	5400	1450 *1700	*2250 1500 *2150	*2750 2300 *2650	*2850 2350 *2700	2400	2470	2470	1400	1240	1240	*3-6	3670	4135	4675	4935
ZSM600	6000	*1600	*1800	*2100	*2250	2600	2670	2670	1600	1440	1440	*3-6	3775	4180	4765	5025
ZSM650	6500	*1450	*1650	*1900	*2200	2800	2870	2870	1800	1640	1640	*3-6	3830	4225	4800	5060
ZSM700	7000	*1150	*1300	*1800	*2000	2975	3045	3045	1975	1815	1815	*3-3	3885	4265	4850	5110
ZSM750	7500	*950	*1050	*1200	*1300	3150	3370	3370	2150	2140	2140	*3-3	3990	4310	4960	5170

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.



Reliable special designed instrument



Reliable special meter display the whole truck's working condition, fault detect and other importan information completely which make the operator master the whole truck condition directly and conveniently.

Standard configuration Hom 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 Lifting and tilting operation lever Transmission oil filter 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

Electro-hydraulic direction

changing

Tilt adjustable steering column

Overhead guard rain cover

Optional

Fire extinguisher

Rear working light

Air conditioner (certain type)

Travelling control system

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 Single/dual fuel system Solid tyre Widen fork arm carrier Power braking Wind shield Low speed alrm Cleansing muffler Fire extinguisher muffler









H3 SERIES INTERNAL COMBUSTION 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 retroposition 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.





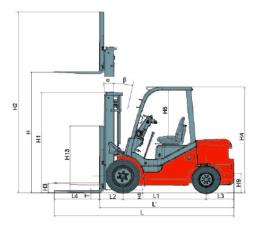


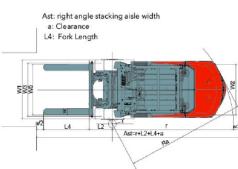
H3 SERIES INTERNAL COMBUSTION 2-3.5ton





	Character						
1.01	Manufacturer				HE	ELI	
1.02	Model			CPC20 / CPCD20 / CP(Q)(Y)20 / CP(Q)(Y)D20	CPC25 / CPCD25 / CP(Q)(Y)25 / CP(Q)(Y)D25	CPC30 / CPCD30 / CP(Q)(Y)30 / CP(Q)(Y)D30	CPC35 / CPCD35 / CP(Q)(Y)35 / CP(Q)(Y)0
1.03	Rated capacity		kg	2000	2500	3000	3500
1.04	Load center		mm		50	00	
1.05	Operation mode				Seat	-type	
	Size						
2.01	Max.lifting height	Н	mm	3000	3000	3000	3000
2.02	Mast overall height(Fork to the ground and mast be vertical)	H1	mm	2000	2000	2065	2180
2.03	Max.fork lifting height(With backrest)	H2	mm	4030	4030	4245	4235
2.04	Free lift height	нз	mm	165	165	160	170
2.05	Overall height(Overhead guard)	H4	mm	2150	2150	2170	2170
2.06	Min.groung clearance(At the mast)	H5	mm	115	115	135	135
2.07	Distance from the surface of the seat to the overahead guard	H6	mm	1030	1030	1030	1030
2.08	Traction pin height	H9	mm	275	275	280	280
2.09	Backrest height(Calculated from the surface of the fork)	H13	mm	1000	1000	1227	1222
2.10	Overall length(With fork/Without fork)	(L/L')	mm	3500/2580	3708/2638	3818/2748	3836/2766
2.11	Wheel base	L1	mm	1650	1650	1700	1700
2.12	Front overhang	L2	mm	473	473	478	496
2.13	Rear overhang	L3	mm	457	515	570	570
2.14	Overall width	W1	mm	1150	1150	1225	1225
2.15	Tread (Front tread/Rear tread)	(W3/W2)	mm	970/970	970/970	1000/970	1000/970
2.16	Fork adjustable range (the external of the fork)(Max/Min.)	W5	mm	1030/244	1030/244	1060/250	1060/250
2.17	Min.turning radius(Exterior)	r	mm	2255	2310	2400	2440
2.18	Min.turning radius(Interior)	r'	mm	180	180	200	200
2.19	Min.right angle stacking aisle width	Ra	mm	2274	2330	2380	2415
2.20	Mast tilting angle	α/β	%	6°/12°	6°/12°	6°/12°	6°/12°
2.21	Fork size	L4×W×T	mm	920×122×40	1070×122×40	1070×125×45	1070×125×50
	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)				20	1/2	
4.02	Tyre type(Front/Rear)				Pneum	atic tyre	
4.03	Tyre size(Front/Rear)			7.00-12-12PR/ 6.00-9-10PR	7.00-12-12PR/ 6.00-9-10PR	28×9-15-12PR/ 6.50-10-10PR	28×9-15-14PR/ 6.50-10-10PR
4.04	Service brake				Hydraulic-	Foot Pedal	
4.05	Parking brake				Mechanical	-Hand Lever	



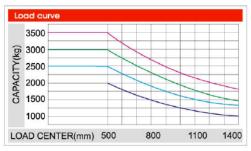


CP(Q)(Y)25 CP(Q)(Y)D25 CPC25 CPCD25

CP(Q)(Y)20

CP(QXY)D20

CPC20



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.

CP(Q)(Y)30

CP(Q)(Y)D30 CPC30 CPCD30 CP(Q)(Y)35 CP(Q)(Y)D35

CPC35 CPCD35

WIDE	VIEW M	AST											
Mast model	Max. lifting	Lo	ad capacity (Ic	ad center 500	mm)	Mast overal	l height (fork to	the ground)		Servic	e weight		Mast tilting
	height (mm)	CP(Q)(Y)20/ CP(Q)(Y)O20/ CPC20/CPCD20	CP(Q)(M25/ CP(Q)(MD25/ CPC25/CPCD25	CP(Q)(Y)80/ CP(Q)(Y)030/ CPC30/CPCD30	CP(Q)(Y)35/ CP(Q)(Y)035/ CPC35/CPCD35	2-2.5t	3t	3.5t	CP(Q)(Y)D20/ CP(Q)(Y)D20/ CPC20/CPCD20	CP(Q)(Y)D25/ CP(Q)(Y)D25/ CPC25/CPCD25	CP(Q)(Y)D30/ CP(Q)(Y)D30/ CPC30/CPCD30	CP(Q)(1)(35/ CP(Q)(1)(035/ CPC35/CPCD35	angle (°) κ/β
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	*3588	2550	2620	2730	3565	3945	4490	4940	*6-12
M425	4250	*2888 *1888	*2558 *2488	*3858 *3888	*3188 *3888	2675	2745	2855	3590	3970	4510	4970	*6-12
M450	4500	+1888	-2188	+3888	*3888	2800	2870	2980	3615	3995	4535	4990	*6-12
M500	5000	+1988	+2258	*2100 *2850	±2100 ±2858	3050	3120	3230	3655	4035	4575	5040	*6-12
M550	5500	*1600	*1950	*2400	*2400	3350	3420	3530	3740	4120	4745	5245	*3-6
M600	6000	*1500	*1800	*2000	*2000	3600	3670	3780	3785	4165	4795	5285	*3-6

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	CP(Q)(Y)20	CP(Q)(Y)D20	CP(Q)(Y)25	CP(Q)(Y)D25	CP(Q)(Y)30	CP(Q)(Y)D30	CP(Q)(Y)35	CP(Q)(Y)D3
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	7/19	17	/19	19	/20	19	/19	17	7/19	1	7/19	19	/20	19	/20
Lifting Speed (Loaded/Unloaded)	mm/s	560	0/600	560	/600	500	/550	400	/420	520	V570	52	0/570	420	V480	370	/410
Lowing Speed (Loaded/Unloaded)	mm/s	450	0/500	450	/500	450	/550	350	/400	450	V500	45	0/500	450	V550	350	/400
Drive and transmission control device																	
Engine mode				ISUZU	C240PKJ			ISUZU	J 4JG2				GCT	k25			
Engine rated power	kW/rpm			35.4	/2500			44.9	/2450				37.4/	2400			
Engine rated torque	Nm/rpm			139/	1800			184.7/1	600-1800				176.5	/1600			
Engine cylinder number-borexstroke				4-86	×102			4-95	4x107				4-89	×100			
Engine displancement	L			2.	369			3	.05				2.4	88			
Engine type					Die	sel							Gasoline	or LPG			
Emission				Euro	AIII o			CHIN	A STAGE II								
Battery(Voltage/Capacity)	V/Ah				12/	80							12	60			
Engine fuel tank capacity	L									60							
Tranmission box shifting gears (Front/Rear type)								1-18	ower Shift T/M	2-2 Manual Shif	tT/M						

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	4-93×102	Diesel	CHINA STAGE II
DACHAI CA498	45/2500	170~180/1600~1800	3,168	4	4-98×105	Diesel	CHINA STAGE [[
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

Mast	Max.	Load	capacity (Ic	ad center	500mm)	Mastoverall	height(forkto	the ground)	Free lifting	height (wit	th backrest)		Service	weight		Mast
model	lifting height (mm)	CP(Q)(Y)20/ CP(Q)(Y)D20/ CPC20/ CPCD20	CP(Q)(Y)25/ CP(Q)(Y)D25/ CPC25/ CPCD25	CP(Q1Y)30/ CP(Q1Y)D30/ CPC30/ CPCD30	CP(Q)(Y)35/ (CP(Q)(Y)D35/ CPC35/ CPCD35	2-2.5t	3t	3.5t	2-2.5t	3t	3.5t	CP(C)(Y)20/ CP(C)(Y)D20/ CPC20/ CPCD20	CP(Q)(Y)25/ CP(Q)(Y)D25/ CPC25/ CPCD25	CP(Q)Y)30/ CP(Q)Y)D30/ CPC30/ CPCD30	CP(QXY)35/ CP(QXY)D35/ CPC35/ CPCD35	tilting angle (°) s/
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	+2250 +2500	+3000	*3100 *3200	2670	2745	2855	1670	1515	1635	3730	4110	4575	5025	*6-12
ZM450	4500	-1800	*2100	*3668	*3050	2795	2870	2980	1795	1640	1760	3755	4135	4595	5050	-6-6
ZM500	5000	-1600 -1700	1650 *2200	*2850	2500 *2850	3045	3120	3230	2045	1910	2010	3805	4185	4640	5100	*3-6
ZM550	5500	*1600	*1950	*2450	*2500	3345	3420	3530	2345	2190	2310	3890	4270	4830	5295	*3-6
ZM600	6000	*1500	*1800	*2200	*2300	3595	3670	3780	2595	2440	2560	3935	4315	4875	5350	*3-6

Note: (1) "stands for the rated capacity when the front tyre is double-tyre.

(2) When the first tyre of the 2-35 truck is double-tyre, the service weight of the truck is the weight in the table plus 110kg.

(3) The free lifting height (without backrest) of the 1-1. Struck is the height (with backrest) in the table plus 43 mm. The free lifting height (without backrest) of the 2-2.5 truck is the height (with backrest) in the table plus 58 mm. The free lifting height (without backrest) of the 3 truck is the height (with backrest) in the table plus 58 mm. The free lifting height (without backrest) of the 3.5 truck is the height (with backrest) in the table plus 52 mm.

Mast	Max.	Load	capacity(lo	ad center !	500mm)	Mastoverall	height(forkt	the ground)	Free lifting	height (wit	th baddrest)		Service	weight		Mast
model	lifting height (mm)	CP(Q)(Y)20/ CP(Q)(Y)D20/ CPC20/ CPCD20	CP(C)(Y)(25/ CP(C)(Y)(025/ CPC25/ CPCD25		CP(QXY)35/ CP(QXY)D35/ CPC35/ CPCD35	2-2.5t	3t	3.5t	2-2.5t	3t	3.5t	CP(C)(Y)(20/ CP(C)(Y)(O2/0/ CPC(20/ CPC(D2/0	CP(Q)(Y)25/ CP(Q)(Y)C25/ CPC25/ CPCD25	CROXY)30/ CROXY)030/ CPC30/ CPCD30	CP(Q)(Y)35/ CP(Q)(Y)D35/ CPC35/ CPCD35	(°) a/6
ZSM360	3600	2000	2400	2900	3300	1795	1946	1946	795	705	710	3715	4095	4610	4925	*6-6
ZSM400	4000	1900	2400	2900	3300	1920	2065	2065	920	830	835	3745	4125	4640	4955	-6-6
ZSM435	4350	-1850 -1900	*2200 *2400	-3000 -3000	*3100	2045	2190	2190	1045	955	960	3775	4155	4665	4980	*6-6
ZSM450	4500	+1750	*2300 *2300 *2300 *2300	2700 *2900 2600 *2900	*3000 *3000 *3000 *3000	2095	2240	2240	1095	1005	1010	3785	4165	4680	4995	*6.6
ZSM470	4700	*1800 *1800 *1800	*2300 *2300	2600 *2900	*3000	2160	2240	2240	1160	1005	1010	3800	4180	4700	5015	-6-6
ZSM480	4800	-1700 -1800	1950 *2300	2500 *2800 2400 *2750	2600 *2900 2450 *2850	2195	2340	2340	1195	1105	1110	3805	4185	4720	5025	*6.6
ZSM500	5000	*1800 1600 *1750	1650 *2250	*2750	*2450 *2850	2295	2440	2440	1295	1205	1210	3830	4210	4745	5060	*6.6
ZSM540	5400	*1450 *1700	1950 *2300 1650 *2250 1500 *2150 1000 *1800	*2650 *2650 1500	2300 *2700	2420	2565	2565	1420	1330	1335	3860	4240	4775	5090	*3.6
ZSM600	6000	*1600	1000	1500 *2100	1550 *2200	2645	2790	2790	1645	1555	1560	3940	4320	4865	5180	*3.6

Note(1)*stands for the rated capacity when the front tyre is double-tyre.

(2) When the front tyre of the 2-35 truck is double-tyre, the service weight of the truck is the weight in the table plus 110kg.

(3) The free lifting height (without bedwest) of the 1-1.0 truck is the height (with backrest) in the table plus 490mm. The free lifting height (without backrest) of the 2-2.5 truck is the height (with backrest) in the table plus 490mm. The free lifting height (without backrest) of the 3.5 truck is the height (without backrest) of the 3.5 truck is the height (with backrest) in the table plus 490mm.

INTERNAL COMBUSTION COUNTERBALANCED FORKLIFT TRUCK

Mast	Max.Lifting	Load capacit	y(Load center	500mm)(kg)	Height mast retracted	Tilting angles Forward			Service We	eight (kg)		
nodel	height	CPC(D)40	CPC(D)45	CPC(D)50	(C)(mm)	/backward	CPCD40	CPCD45	CPCD50	CPC40	CPC45	CPC50
M260	2600	4000	4500	5000	2075	6° / 12°	6450	6750	7050	6150	6450	6750
/ 1270	2700	4000	4500	5000	2125	6° / 12°	6475	6775	7075	6175	6475	6775
/300	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
/ 350	3500	4000	4500	5000	2525	6° / 12°	6525	6825	7125	6225	6525	6825
/ 1370	3700	4000	4500	5000	2625	6° / 12°	6535	6835	7135	6235	6535	6835
M 375	3750	4000	4500	5000	2650	6° / 12°	6540	6840	7140	6240	6540	6840
/ 400	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
/ 450	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
V 500	5000	3200 *3400	3600 *4000	4000 *4200	3325	6° / 6°	6600	6900	7200	6300	6600	6900
4550	5500	2900 *3100	3200 *3600	3600 *3800	3575	3° / 6°	6630	6930	7230	6330	6630	6930
V600	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.

Mast	- A. C.	Load capacit	y(Load cente	r 500mm)(kg)	Height mast retracted	Free lift (with backrest)	Full free lift	Tilting angles			Service 1	Weight (kg)		
model	height	CPC(D)40	CPC(D)45	CPC(D)50	(C)(mm)	(mm)	(mm)	/backward	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	3200 *3600	3600 *3800	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 FU	LL FREE	3-STAG	E MAST										
Mast	Max.Lifting	Load capacit	ty(Load cente	r 500mm)(kg)	Height mast	Free lift (with backrest)	Full free lift	Titing angles			Service 1	Weight (kg)		
model	height	CPC(D)40	CPC(D)45	CPC(D)50		(mm)	(mm)	/backward	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): +365mm; (2)* Refers to the rated capacity with front dual tyre.





Series / HICH EFFICIENT ENERGY EFFICIENT

4-5 ton H series

INTERNAL COMBUSTION COUNTERBALANCED FORKLIFT TRUCK

Standard equipments	Optional equipmen	ts	Optional attachments	
Standard fork	Cab	Windshield glass	Side shifter	Glass handler
Standard carriage	Warning light	Rear working light	Fork positioner	Fork extension
M300 standard mast	Dual air cleaner	Wide carriage	Double side shifter	Paper roll clamp
Standard overhead guard	Heater	Control valve (multi throw)	Single double pallet handler	Bale clamp
Single air cleaner	Fan	High vertical exhaust	Hinged forks	Drum clamp
Standard muffler	Fire extinguisher	Spark arrested muffler	Rotator	Fork clamp
Control valve (two throw)	Protecting net	Catalyst muffler	Push/Pulls	Block clamp
Standard pneumatic tyre	Dual tyre	Tilting cylinder boot	Carpet boom	Multi-purpose clamp
Normal seat	Solid tyre	Steering cylinder boot	Load stabilizer	
Driver's tool	Long fork	Two stage free lift mast	Turnaloads	
	Suspension seat	Three stage free lift mast	Crane jib	



* Details of specifications and equipment are based on information available at time of printing and may change without notice.

AUTHORIZED DEALER

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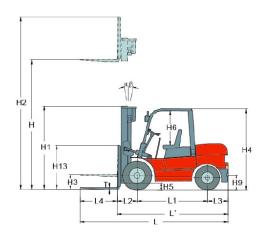


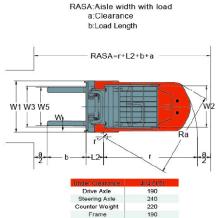




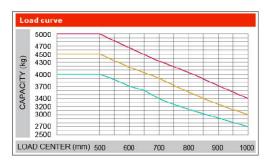
te and design Characteristics											
Character Manufacturer							HELI				
2 Model			CPCD40-M2	CPCD45-M2	CPCD50-M2	CPQYD40-TY5	CPQYD45-TY5	CPQYD50-TY5	CPC40-XC3	CPC45-XC3	CPC50-WX
B Power type			CPCD40-M2	Diesel	CFCD50-WZ	CFQ1D40-115	Gasoline/LPG	CFQ1D30-113	CF 040-A03	Diesel	CFC50-VVA
Rated capacity		kg	4000	4500	5000	4000	4500	5000	4000	4500	5000
5 Load center		mm	4000	4000	0000	4000	500	0000	4000	4000	0000
Driving mode							Seated				
Size Mast height, extended (with backrest, unloaded)	H2	mm					4217				
2 max. Fork height	H	mm					3000				
Mast height, lowered	H1	mm					2275				
Free lift	H3	mm					150				
5 Backrest height (from the fork surface)	H13	mm					1217				
distance from the seat surface to the overhead guard	H6	mm					980				
Overall height (overall height)	H4	mm					2270				
Overall length (fork/without fork)	L/L'	mm	4145/3075	4165/3095	4209/3139	4145/3075	4165/3095	4209/3139	4145/3075	4165/3095	4209/3139
Front overhang	L2	mm				37780-377770-37000-4710-6	555				
Rear overhang	L3	mm	520	540	584	520	540	584	520	540	584
Wheel base	L1	mm			,	,	2000				
2 Traction pin height	H9	mm					385				
Min. Under clearance (at mast)	H5	mm					175				
overall width	W1	mm					1480				
Fork distance (external)(max. /min.)	W5	mm					1340/300				
Tread (front tread/rear tread)	W3/W2	mm					1180/1190				
Min. Turning radius (inside)	r³	mm					220				
min. Turning radius (outside)	r	mm	2720	2740	2800	2720	2740	2800	2720	2740	2800
min. Right angle aisle width	Ra	mm	2480	2500	2550	2480	2500	2550	2480	2500	2550
Mast tilting angle (front/rear)	α/β						6°/12°				
Fork size	L4xWxT	mm					1070x150x50				
Performance											
Max. Travelling speed (loaded/unloaded)		Km/h		25/26			25/26		18.		18/19
2 lifting speed (loaded/unloaded)		mm/s		460/520			460/520		360	390	360/390
B Lowering speed (loaded/ unloaded)		mm/s					<600/>300				
Traction force (loaded/unloaded)		KN		22/16	1000000000	#24450000	25/16		21/		31/14
5 max. Gradeability(loaded/unloaded)		%	18/20	17/20	16/20	18/20	17/20	16/20	17/20	16/20	20/25
Weight Service weight		Kg	6500	6800	7100	6500	6800	7100	6200	6500	6800
2 Weight distribution loaded (front/rear)		Kg	8925/1575	9750/1550	10500/1600	8925/1575	9750/1550	10500/1600	8568/1632	9320/1680	10030/1770
weight distribution unloaded (front/rear)		Kg	2700/3800	2710/4090	2680/4420	2700/3800	2710/4090	2680/4420	2635/3565	2730/3770	2890/3910
Wheel and tyre		9	270070000	271074000	2000/4420	2700/0000	27 10/4000	2000/4420	2000/0000	2700/0170	2000/0010
Tyre number ×=drive wheel (front/rear)		Ĭ					2X/2				
							Pneumatic tyre				
tyre type (front/rear)							Pheumatic tyre				
tyre type (front/rear) byre model (front)		8	8.25-15-14PR	300-1	5-20PR	8.25-15-14PR		5-20PR	8.25-15-14PR	8.25-15-14PR	300-15-20P
		8	8.25-15-14PR	300-1	5-20PR	8.25-15-14PR		5-20PR	8.25-15-14PR	8.25-15-14PR	300-15-20P
tyre model (front)			8.25-15-14PR	300-1		8.25-15-14PR	300-15	5-20PR		8.25-15-14PR vacuum assist –pedal typ	
B tyre model (front) Tyre model (rear)		}	8.25-15-14PR	300-1		ke-pedal tyre	300-15				
tyre model (front) Tyre model (rear) Service brake Parking brake Drive and control device			8.25-15-14PR			ke-pedal tyre	300-18 7.00-12-12PR hanical-hand brake lever			/acuum assist –pedal typ	
3 tyre model (front) 4 Tyre model (rear) 5 Service brake 6 Parking brake Drive and control device 8 Battery (voltage /capacity)		V/Ah	8.25-15-14PR	24/80		ke-pedal tyre Mec	300-15 7.00-12-12PR hanical-hand brake lever 12/100		,	/acuum assist –pedal typ 24/80	e
tyre model (front) Tyre model (rear) Service brake Parking brake Drive and control device Battery (voltage /capacity) Engine manufacturer /model		V/Ah	8.25-15-14PR	24/80 Mitsubishi S6S-230		ke-pedal tyre Mec	300-19 7.00-12-12PR hanical-hand brake lever 12/100 GM 4.3L Gasoline/LPG	type	Xinchan	/acuum assist –pedal typ 24/80 g 4D35G	e Wuxi CA41
tyre model (front) Tyre model (rear) Service brake Parking brake Drive and control device Battery (voltage /capacity) Engine manufacturer /model Engine rated power	к	V/Ah	8.25-15-14PR	24/80 Mitsubishi S6S-230 52/2300		ke-pedal tyre Mec	300-18 7.00-12-12PR hanical-hand brake lever 12/100 GM 4.3L Gasoline/LPG ne: 70/2300、LPG: 76.0	type 3/2300	Xinchan 48/2	/acuum assist –pedal typ 24/80 g 4D35G 300	e Wuxi CA41′ 61/2200
tyre model (front) Tyre model (rear) Service brake Parking brake Drive and control device Battery (voltage /capacity) Engine manufacturer /model Engine rated power Fingine rated torque	к	V/Ah	8.25-15-14PR	24/80 Mitsubishi S6S-230 52/2300 248/1700		ke-pedal tyre Mec	300-19 7.00-12-12PR hanical-hand brake lever 12/100 GM 4.3L Gasoline/LPG ine: 70/2300、LPG: 76/1 e: 287/1700、LPG: 323	type 3/2300	Xinchan; 48/2 230/160	24/80 24/80 g 4D35G 300 0~1800	e Wuxi CA41' 61/2200 305/1400~16
tyre model (front) Tyre model (rear) Service brake Parking brake Drive and control device Battery (voltage /capacity) Engine manufacturer /model Engine rated power Fngine rated forque Engine cylinder (number-bore ×stoke)	к	V/Ah KW/rpm Nm/rpm	8.25-15-14PR	24/80 Mitsubishi S6S-230 52/2300 248/1700 6-94x120		ke-pedal tyre Mec	300-18 7.00-12-12PR hanical-hand brake lever 12/100 GM 4.3L Gasoline/LPG ne: 70/2300、LPG: 76. e: 287/1700、LPG: 323 6-101.6x88.39	type 3/2300	Xinchan; 48/2 230/160 4-98	24/80 24/80 3 4D35G 300 0~1800 k115	Wuxi CA411 61/2200 305/1400~16 4-110x125
tyre model (front) Tyre model (rear) Service brake Parking brake Drive and control device Battery (voltage /capacity) Engine manufacturer /model Engine rated power Fingine rated torque	к	V/Ah	8.25-15-14PR	24/80 Mitsubishi S6S-230 52/2300 248/1700		ke-pedal tyre Mec	300-19 7.00-12-12PR hanical-hand brake lever 12/100 GM 4.3L Gasoline/LPG ine: 70/2300、LPG: 76/1 e: 287/1700、LPG: 323	type 3/2300	Xinchan; 48/2 230/160	24/80 24/80 3 4D35G 300 0~1800 k115	e Wuxi CA41' 61/2200 305/1400~16

Engine Model and M	ain 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×stoke)	Applied model
Weifang 4RMG25-1	55/2200	270/1680	4.329	4-105x125	CPCD40~50-WF6
Wuxi CA4110	61/2200	305/1400~1600	4.75	4-110x125	CPCD40~50-Wx5
GM4.3L Tier IV	Gasoline 70/2300	Gasoline 287/1700	4.29418	6-101.6x88.39	CPOD40~50-TY6
Certified engine	LPG 76.6/2300	LPG 323.5/1700	4.23410	0-101.0x00.33	01 0040 30-110
Quanchai 4C6-M	48/2300	230/1600~1800	3.47	4-98x115	CPC40~45-QC1





CPC(D)45 /CPQ(Y)D45



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 titled 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.

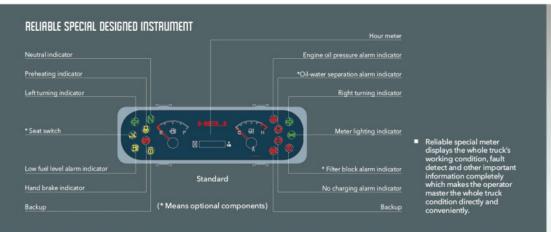
CPC(D)40 /CPQ(Y)D40

Mast lifting height and fork length t	able													
Wide view normal mast lifting height (mm)	2600	2700	3000 *	3300	3500	3700	3750	4000	4250	4500	4750	5000	5500	6000
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	6000						
fork length (mm)	1070*	1220	1370	1520	1670	1820	1970	2120						

CPC(D)50 /CPQ(Y)D50

Note: Equipments with * is standard.





Standard configuration

Overhead guard Driver's cab User-specified color Horn Standard fork Warning light Optional attachments Neutral gear switch High air exhausting device Sling Oil pressure alarm Control valve Hydraulic circuit oil filter Double air cleaner Full LED light ass'y Wholly hydraulic-powered steering Electro-hydraulic changing-over Suspension seat Power switch Rubber pad Intelligent shift Fork extension Reversing voice speaker Backrest Speed-limiting valve Heater Universal key Rear view mirror Oil level gauge Solid tyre

Purifying muffler

Fire extinguisher

Rear working light

Fire extinguisher muffler

Air conditioner (certain type)

Torque converter oil temperature meter

OPS (travelling function)

Front combined lamp (LED light) Charging indicator Widen fork carriage

Transmission oil filter Wide view mast

Engine flame out device Air intaking device

Rachet type parking brake Durable tire with decorative pattern

Lifting and tilting operating handles Water temperature meter

Driver's tools Traction pin

Rear combined lamp(LED) Semi-suspension seat Reversing buzzer Hydraulic oil dipstick

Tilt-lock valve Overhead guard rain cover

Tilt adjustable steering column Torque converter oil dipstick Tilting cylinder sleeve Combined instrument Back view mirror Steering cylinder sleeve

Optional

Overspeed 10km/h alarm

Electric fam

Wind shield OPS(Travelling function and loading function)

Drive axle with wet disc type brak













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.

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 realiability.

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.



LED signal (standard configuration)



Rachet type parking brake



Locked fuel tank cover



Folder

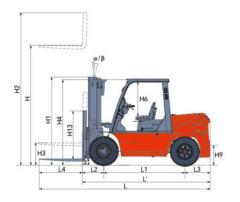


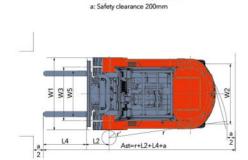
Wet-disc brake driving axle (optional choice): Advantages: the convenient operation, stable braking and free from maintenance.

5-10 t G series internal combustion counterbalanced forklift truck

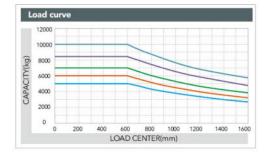
	Characteristics							
1.01	Manufacturer					HELI		
1.02	Model			CPCD50	CPCD60	CPCD70	CPCD85	CPCD100
1.03	Power type					Diesel		
1.04	Rated capacity	Q	kg	5000	6000	7000	8500	10000
1.05	Load center	С	mm			600		
1.06	Driving mode					Sit-on type		
	Dimensions					,		
2.01	Mast height, extended (with backrest)	H2	mm	4400	4400	4400	4420	4415
2.02	Max. fork height	Н	mm	3000	3000	3000	3000	3000
2.03	Mast height, lowered	H1	mm	2500	2500	2500	2700	2850
2.04	Free lift	НЗ	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)	Ľ	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	0	6/12	6/12	6/12	6/12	6/12
2.24	Fork size	L4	mm	55X1220X150	60X1220X150	65X1220X150	70X1220X170	80X1220X1
	Tyre							
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	
	Specifications of the brake and transmission devices							
4.01	Battery (voltage/capacity)		V/Ah			2X12/80		
4.02	Service brake				Powe	red brake-peda	l type	
4.03	Parking brake				Mechanic	al-hand brake I	lever type	
4.04	Oil tank capacity		L			160		
4.05	Transmission type				Inte	lligent gear shif	fting	
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	25/29
5.02	Lifting speed (loaded/unloaded)		mm/s	510/550	510/550	500/550	400/430	330/350
5.03	Lowering speed (loaded/unloaded)		mm/s		WITHOUT LOA	D≥300 WITH F	ULL LOAD≤600	
5.04	Max. Draw bar (loaded)		KN	60	60	60	60	58
5.05	Max. Gradeability (loaded/unloaded)		%	34/19	31/19	29/19	23/20	21/20
5.06	Weight (oil included)		kg	8300	9050	9650	11550	12660
5.07	Axle load (loaded)front/rear		kg	11940/1360	13400/1650	14500/2150	17845/2205	20167/249
5.08	Axle load (unloaded) front/rear		kg	4130/4170	4060/4990	3870/5780	5082/6468	5570/709
	Engine specifications							
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		\m/rpm			415/1400~1600	0	
6.04	Cylindernumber					6		
6.05	Engine displacement		L			6.494		

Optional engine model and truck mai	in specifications						
Truck specifications							
Manufacturer		CPCD50	CPCD60	CPCD70	CPCD85	CPCD100	CPCD50
Max. Travelling speed (loaded/unloaded)	km/h	26/30	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
Lowering speed (loaded/unloaded)	mm/s						
Max. Draw bar (loaded)	KN	62	62	62	60	60	60
Max. Gradeability (loaded/unloaded)	%	39/20	34/20	30/20	22/20	20/20	34/19
Weight (oil included)	kg	8150	8900	9500	11400	12510	8150
Axle load (loaded)front/rear	kg	11830/1320	13330/1570	14450/2050	17750/2150	20030/2480	11830/132
Axle load (unloaded) front/rear	kg	4050/4100	4005/4895	3900/5600	6040/5360	5510/7000	4050/410
Engine specifications							
Engine manufacturer /mode	and a survey of the state of th		Cummins Q'	SF3.8(Euro IIIA, CHIN	IA STAGE III)		
Engine rated power/rotational speed	Kw/rpm			86/2200			
Engine rated torque/rotational speed	Nm/rpm			470/1100~1700			
Cylinder number				4			
Engine displacement	L			3.8			





Ast: Right angle stacking aisle width



CPCD50 CPCD60 CPCD70 CPCD85 CPCD100

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.





		83/2200 418/1400		83/2000 450/1400-1500						63.9/2300 77/2300 285/1700 332/1400					82/2200 489/1500					
		Perkins 1104D-44TA	\				XICHAI CA6110				Mitsubishi S6S-T			PSI 4.3		Cumm	ins QSB4.5(EU Stag		r4(i). CHINA STA	(GE III)
)	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	5510/700
0	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	20030/24
	8900	9500	11400	12510	8300	9050	9650	11550	12660	8300	9050	9650	7980	8730	9330	8150	8900	9500	11400	12510
	31/19	29/19	23/20	21/20	38/19	35/19	32/19	23/20	21/20	23/19	20/19	20/19	38/19	35/19	31/19	42/22	36/20	32/20	24/20	21/20
	60	60	60	58	63	63	62	60	58	42	40	40	60	60	60	62	62	62	56	56
	WITHO	UTLOAD≥300 W	TH FULL LOAD≤	500																
	530/550	510/540	390/420	330/350	510/530	510/530	500/530	390/420	330/350	450/470	440/470	420/460	420/440	420/440	420/440	550/570	550/570	550/570	430/450	350/37
	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
	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	CPCD10

Mast mode	Max. fork height (mm)	Load cap	acity (load center 6	600mm(kg)	Mast height, lowered (mm)		Service weight (kg)		Mast tilting angle
	(mm)	CPCD50	CPCD60	CPCD70	CPCD50/60/70	CPCD50	CPCD60	CPCD70	α/β
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°/6°
M500	5000	5000	6000	7000	3550	8600	9350	9950	6°/6°
M550	5500	4750	5700	6600	3850	8794	9544	10144	3°/6°
M600	6000	4400	5400	6400	4100	8876	9626	10226	3°/6°

Mastmodel	Max. fork height	Load capacity (load center 600mm)(kg)			Mast height, lowered (mm)	Free lift (with backrest) (mm)			Mast tilting angle	
	(mm)	CPCD50	CPCD60	CPCD70	CPCD50/60/70	- 0	CPCD50	CPCD60	CPCD70	α/β
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	5000	6000	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,

Mast model	Max. forkheight	Load capacity (load center 600mm)(kg)			Mast height, lowered (mm)	Free lift (with backrest) (mm)			Mast tilting angle	
	(mm)	CPCD50	CPCD60	CPCD70	CPCD50/60/70	· · · · · · · · · · · · · · · · · · ·	CPCD50	CPCD60	CPCD70	α/β
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	2585	1156	8951	9701	10201	6°/6°
ZSM480	4800	4500	5600	6200	2740	1310	9148	9898	10398	6°/6°
ZSM500	5000	4500	5600	6200	2805	1380	9179	9929	10429	3°/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.

Mast model	Max. forkheight	Load capacity (load	d center 600mm)(kg)		ht, lowered nm)		e weight kg)	Mast tilting angle
	(mm)	CPCD85	CPCD100	CPCD85	CPCD100	CPCD85	CPCD100	α/β
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	3075	3225	11726	12653	6°/12°
M400	4000	8500	10000	3250	3400	11901	12793	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°

Mastmode	Max. fork height	Load capacity (load center 600mm)(kg)		Mast height, lowered (mm)			th backrest) im)		e weight kg)	Mast tilting angle
	(mm)	CPCD85	CPCD100	CPCD85	CPCD100	CPCD85	CPCD100	CPCD85	CPCD100	α/β
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	2700	2850	1340	1552	11515	12442	6°/12°
ZM330	3300	8500	10000	2850	3000	1490	1702	11556	12470	6°/12°
ZM350	3500	8500	10000	2950	3100	1590	1802	11584	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.

Mastmode	Max. fork height	Load capacity (load center 600mm [kg)		Mast height, lowered (mm)			vith backrest) mm)	Servic	Mast tilting angle	
	(mm)	CPCD85	CPCD100	CPCD85	CPCD100	CPCD85	CPCD100	CPCD85	CPCD100	α/β
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°/6°
ZSM480	4800	7200	7500	2850	2970	1490	1550	12274	13526	6°/6°
ZSM500	5000	7200	7500	2950	3035	1590	1615	12330	13572	6°/6°
ZSM540	5400	6800	7000	3075	3225	1715	1805	12404	13706	3°/6°
ZSM600	6000	6300	6500	3375	3425	2015	2005	12575	13846	3°/6°
ZSM650	6500	5700	6000	3600	3590	2240	2170	12705	13964	3°/6°
ZSM700	7000	5000	5200	3750	3855	2390	2435	12793	14142	3°/6°

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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