





HELI FORKLIFT TRUCK RANGE

Welcome to the next level of forklifts.

ABOUT HELI

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



WHO IS MANTRAC?

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

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

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

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

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

HELI PRODUCT RANGE OVERVIEW













Internal Combustion Counterbalance forklift trucks

FROM 1 TO 10 TONNES

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

Heavy Trucks

FROM 12 TO 46 TONNES

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

Port Equipment Trucks

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

Electric Trucks

FROM 1 TO 10 TONNES

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

Warehouse Trucks

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

Special Trucks (Explosion Proof)

- Security, reliability, low noise and high efficiency
- High-grade explosion-proof safety forklifts.
- HELI can also provide explosion-proof forklift used in both gas and dust environments including IIA IIB Zone 1 Zone 2 & DIP A21 A22 TA and T1-T4

HELI

pneumatic tyre

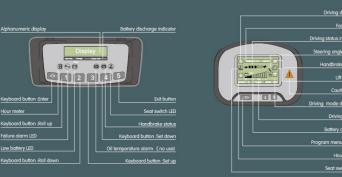
traction pin

driver's tool

LED Lamp

Horn alert function on rear handle

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



Standard configuration	Optional device	
wide view basic mast	string rod	lengthening fork
standard fork	driver's cab	load pusher
II (III) stage fork arm carrier	lifting hock	lengthening fork extension
backrest	cargo boom	rotating flat clamp
control valve	tip-over fork	widen tyre protection device
battery	back view mirror	auxiliary hydraulic valve componer
standard seat	side shifting	tilting/steering cylinder jacket
overhead guard	paper roll clamp	coloring tyre
overhead guard rain cover	warning light (Flashing、totating 、buzzing)	wide view two/three stage full free
liquid crystal combined instrument	solid tyre	customer made color

rear working light

steel protection net

multipurpose drum clamp load stabilizer

widen fork arm carrier

Rottery capacity
Program manu button
Hour meter
Seat switch LED
Display

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

CURTIS Display





HIGH EFFICIENCY ENERGY SAVING

1-2.5 t H3 series

AC Electric Forklift Truck



H31-2.5t H3 series AC Electric Forklift Truck



Improved driver's view

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

Improved operating comfort

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



Optimized maintainability and safety

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

High efficiency and energy-saving

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













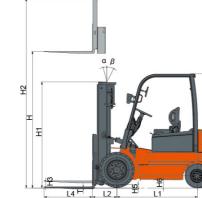


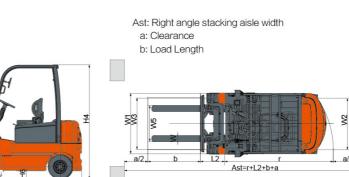


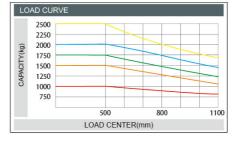
1.01	Character Manufacturer					НЕ			
	Model			CPD10	CPD15	CPD15	CPD18	CPD20	CPD25
	Configuration number			HA1/HA2	HA1/HA2	HC1/HC2	HC1/HC2	HA1/HA2	HA1/HA2
		Q	ka						
	Rated capacity		kg	1000	1500	1500	1750	2000	2500
	Load center distance	С	mm	500	500	500	500	500	500
	Power mode			Battery	Battery	Battery	Battery	Battery	Battery
	Driving mode			Seated	Seated	Seated	Seated	Seated	Seated
1.08	Wheel base	L1	mm	1280	1280	1390	1390	1535	1535
	Tyre								
	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
2.06	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								
3.01	Front overhang	L2	mm	410	410	410	410	465	465
3.02	Mast tilt angle , front/rear	α/β	۰	6/12	6/12	6/12	6/12	6/12	6/12
3.03	Height with mast retraction	H1	mm	1995	1995	1995	1995	2000	2000
3.04	Free lifting height	H3	mm	150	150	150	150	170	170
3.05	Max. Lifting height	Н	mm	3000	3000	3000	3000	3000	3000
3.06	Max. Height under working condition	H2	mm	4040	4040	4040	4040	4042	4042
3.07	Overhead guard height	H4	mm	2130	2130	2130	2130	2155	2155
3.08	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
3.09	Fork arm carrier, din standard			2A	2A	2A	2A	2A	2A
3.10	Truck body length (fork excluded)	L'	mm	2065	2065	2175	2175	2400	2400
3.11	Truck body width	W1	mm	1070	1070	1070	1070	1150	1150
3.12	Turning radius	r	mm	1770	1770	1880	1880	2065	2065
3.13	Clearance between mast and ground	H5	mm	110	110	110	110	115	115
	Clearance between wheel base center and ground(loaded)	H6	mm	120	120	120	120	135	135
	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.			960/200	960/200	960/200	960/200	1030/244	1030/244
	Performance			330,203	333,233	333,233	333,233	1000,211	1000/211
4.01	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	0.45
	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
7.00	Weight			5.2/5.0	J.4/J.Z	0.4/0.2	5.0/5.4	0.0/0.4	0.2/0.0
5.01	Total weight (with /without battery)		kg	2680/2030	2950/2300	2980/2220	3150/2390	4080/3080	4230/3230
	Axle load: unloaded, front/rear		kg kg						
			kg	1215/1465	1330/1620	1445/1535	1450/1700	1960/2120	1950/2280
5.03	Axle load: loaded, front/rear		ky	3080/600	3900/550	3930/550	4400/500	5220/860	6020/710
001	Battery		\//Ab	101105	10	10/122	40/222	10000	101000
	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)
б.03	Battery, din standard			43531A	43531A	43531A	43531A	43531A	43531A
	Motor and controller								
	Drive motor power-60 minutes		kW	8.0	8.0	8.0	8.0	11.1	11.1
	Lifting motor power-15 minutes		kW	7.5	7.5	7.5	8.6	10.5	10.5
7.03	Drive motor controlling mode			MOSFET/AC	MOSFET/AC	MOSFET/AC	MOSFET/AC	MOSFET/AC	MOSFET/AC
7.04	Lifting motor controlling mode			MOSFET/DC	MOSFET/DC	MOSFET/DC	MOSFET/DC	MOSFET/DC	MOSFET/DC
7.05	Service brake/parking brake			Hydraulic/Mechanial	Hydraulic/Mechanial	Hydraulic/Mechanial	Hydraulic/Mechanial	Hydraulic/Mechanial	Hydraulic/Mechani
7.06	Hydraulic system working pressure		Мра	14.5	14.5	14.5	17.5	17.5	17.5

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









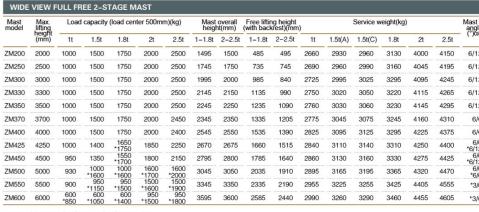
Note: The vertical axis stands for load capacity and the horizontal axis stands for load center which is calculated from the front surface of the forks to the gravity of the standard load, the standard load means a cubic with 1000mm edge length. When mast is tilted forward, using non-standard forks or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

CPD10 CPD15 CPD18 CPD20 CPD25

		WIDE	VIEW M	AST											
Mast model	Max. lifting height	Loa	ad capacity	(load cer	nter 500mr	n)(kg)	Mast overall height (fork to the ground)(mm)			Service weight(kg)				Mast tilt angle	
	(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	(°)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
M500	5000	930	1000 *1250	1000	1600 *1700	1600		3050	2840	3110	3140	3310	4295	4445	6/6
M550	5500	900	900	950 *1500	1500 *1600	1500	3345	3350	2900	3170	3200	3370	4370	4520	*3/6
M600	6000	600 *850	600 *1050	600	950 *1500	950	2505	3600	2930	3200	3230	3400	4420	4570	*3/6

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





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

- (2) 1-1.8T: free lifted height 365mm increased without backrest.
- (3) 2-2.5T: free lifted height 290mm increased without backrest.

Mast model	Max. lifting height	Load	capacity	(load cen	ter 500m	m)(kg)	Mast overall Free lifting height height(mm) (with backrest)(mm)			Service weight(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 *3/6 3/3
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%.





© series

3-3.5 ton **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 Load stabilizer Widened fork carriage Cab Lengthened fork Loadhook String bar Load pusher Hinged fork Fork sleeve Rotating flat clamp Back view mirror Side shifter Dual-tyres protector Paper roll clamp Accessory hydraulic component Solid tyre Colored tyre(white/green) Rear work lights

OPTIONS

Multi function barrel clamp

warning light (rotating or buzzing) Tilt/Steering cylinder protection sleeve Wide view double/triplex full free mast Protective fences User-specified color





G Series / INTELLICENT
ENVIRONMENT-FRIENDLY

3-3.5 ton **AC ELECTRIC**



Newly designed wide-view mast



The newly designed wide-view



Excellent steering system



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



✓ Power Steering ✓ New low-noise gear pump with differential tooth technology

AC drive motor



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 MRXIMUM TRAVEL SPEED INCRERSES



√ Self-braking on ramp

✓ Standard CAN BUS / Emergency power shut-down ✓ Electric controller self-protecting

✓ Preventing abnormity operating
✓ Presence of driver sensing system ✓ AC traction controller

√ 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 energy consumption.





ZAPI CONTROLLER

CURTIS CONTROLLER





mast enlarges operators' view effectively and lessens the blind area to provide a clearer vision.







provide a very efficient loading/unloading.

- ✓ MOSFET lifting controller
- New dynamic load sensing technology in hydraulic system

The innovative design and configuration of hydraulic system improve the working efficiency largely and

High efficiency loading/unloading performance

✓ Optional AC lifting system greatly enhances the loading/unloading performance.

Enough operation space

HELI

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











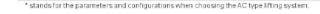


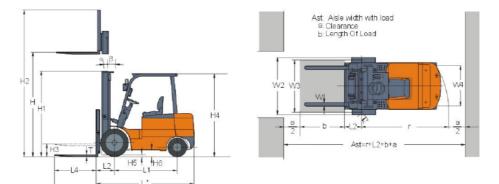


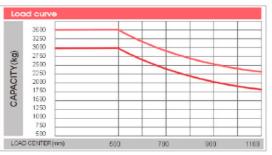




	aracteristics				
	nufacture's Name			LIC	ELI .
	del Designation		-	CPD30	CPD35
	nfiguration Number			G1/G2	G1/G2
	ad Capacity	Q	kg	3000	3500
1.01	ad Center	c	mm	500	500
1.00	wer Type	-	(1811)	Battery	Battery
	erator Type			Seated	Seated
	reelbase	14	mm	1680	1680
		L1	mm	1000	1000
	reels & Tyres			Pneumatic	O manufaction
	e Type es Number (Front/Rear)			Prieumatic 2/2	Superelastic
		140		1000	2/2
	ead(centre of tyre),front	V/3	mm	1000	1000
	ead(centre of tyre),rear	WA	mm	980	990
	e Size, Front		_	28 × 9-15-12PR	28×9-15
	e Size, Rear			18×7-8-14PR	18×7-8
	nensions		-	***	400
	ad Distance	12	mm	485	490
	st Tilt Angle,F/R	α/β		6/10	6/10
	ight with Mast Lowered	H1	mm	2075	2180
	e Lift	H3	mm	145	150
	andard Lift Height	Н	mm	3000	3000
_	ight with Mast Extended	H2	mm	4182	4177
	erhead Guard Height	H4	mm	2215	2215
	rk Size T×W×L	T×W×L4	mm	45×125×1070	50×125×1070
3.09 For	rk Carriage to DIN 15173 A/B			3A	3A
3.10 Len	ngth to fork face	E.	mm	2485	2550
3.11 Ove	erall Width	W2	mm	1225	1225
3.12 Out	tside Turning Radius	r	mm	2210	2270
3.13 Gro	ound Clearance at mast ,Loaded	H5	mm	135	135
3.14 Gro	ound Clearance at centre of wheelbase ,Loaded	H6	mm	150	150
3.15 Fig	ht Stack Aisle width (Pallet size 1000x1000mm, dearance:200mm)	Ast	mm	3965	4030
3.16 Rigi	ht Stack Aisle width (Pallet size 1200x1200mm, dearance:200mm)	Ast	mm	4095	4160
Per	rformances				
4.01 Tra	vel Speed with/without load		km/h	15.0/15.5	14.5/15.0
	ing Speed,with/without load	7.	mm/s	280/450	250/440
	ing Speed,with/without load		mm/s	340/460	325/450
	wering Speed		mm/s	500	500
201	adient performance with load		%	15	12
	x. draw bar pull with load		N	15800	17500
	celeration time (10 metres) W/O load		5	5.0/4.7	5.2/4.9
18/0	aght		,	3.0/4.1	3.24.3
5.01 Tota	al Approximate Weight(W/O battery)		ka	4810/3230	5500/3920
	le Loading*: Unloaded,Front/Rear		kg	2320/2490	2640/2860
			_		
1 7 0 11	e Loading*: Loaded,Front/Rear		kg	7055/755	8145/855
	ttery		1//Ala	001400	001100
	ttery Voltage/rated capacity(5h)		V/Ah	80/480	80/480
	tery weight		kg	1580	1580
	ttery to DIN 43531/35/36/A/B/C			43536A	43536A
	tor & Controller				
	ve Motor - 60 Min. Rating		KW	16.6(AC)	16.6(AC)
	mp Motor - 15 Min. Rating		kW	13(DC)	13(DC)
	mp Motor - 15 Min. Rating		kW	13.5(AC)	13.5(AC)
	ve Motor Control Method			MOSFET/AC	MOSFET/AC
	mp Motor Control Method			MOSFET/DC	MOSFET/DC
	mp Motor Control Method			MOSFET/AC	MOSFET/AC
7.05 Ser				Hydraulic/Mechanial	Hydraulic/Mechania
	lief Pressure		Мра	21	21







3.0t 3.5t

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.

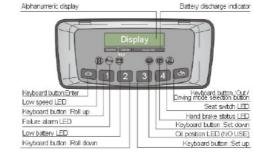


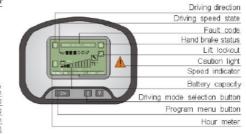
Renewable energy technologies

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

INCRERSES

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





ZAPI Display CURTIS Display

46	

Mast model	Max. Fork height	Load Capacity (Loa	d center 500mm) (kg)	Överall H	eight (mm)	Till Angle (a/g
Wast model	(mm)	CPD30	CPD35	CPD30	CPD35	I III Wildia (0.)
M200	2000	3000	3500	1565	1680	6/10
M250	2500	3000	3500	1815	1930	6/10
M300	3000	3000	3500	2075	2190	6/10
M330	3300	3000	3500	2215	2330	6/10
M350	3500	3000	3500	2315	2430	6/10
M370	3700	3000	340D	2415	2530	6/6
M400	4000	2950	3350	2615	2730	6/6 6/10
M425	4250	2850	3250	2740	2855	5/10
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	+2550	3665	3780	3/6

WIDE V	IEW FULL FRI	EE 2-STAGE M	AST						
st model	Max. fork height	Load Capacity (Load	d center 500 mm) (kg)	Overall H	eight (mm)	Free lift (With ST	Disackrest) (mm)	Tilt Angle	
at moder	[mm]	CPD30	CPD35	CPD30	CPD35	CPD30	CPD35	(α/β)	
M200	2000	3000	3500	1570	1680	344	500	6/10	
M250	2500	3000	3500	1820	1930	594	750	6/10	
M300	3000	3000	3500	2070	2180	B44	1000	6/10	
M330	3300	3000	3500	2220	2330	994	1150	6/10	
m350	3500	3000	3500	2320	2430	1094	1250	6/10	
M370	3700	3000	3400	2420	2530	1194	1350	6/6 6/10	
M400	4000	2950	3350	2620	2730	1394	1550	6/6 6/10	
M425	4250	2850	3250	2745	2855	1519	1675	6./6 *6./1.0	
M450	4500	2750	3100	2870	2980	1644	1800	6/6 *6/10	
M500	5000	2400 *2550	2650 *2800	3120	3230	1894	2050	6/6 *6/6	
M550	5500	+2258	~2500 ~2600	3420	3530	2194	2350	3/6 3/6	
MSOO	6000	±1500 ±2500	-1550 -2400	3670	3780	2444	2600	3/6 *3/6	

WIDE V	IEW FULL FRE	EE 3-STAGE M	AST					
Most model	Max. Fork height	Load Capacity (Loa	d center 500 mm) (kg)	Overall H	eight (mm)	Free lift (With ST	Tilt Angle	
Mast model	(mm)	CPD30	CPD35	CPD30	CPD35	CPD30	CPD35	(α/β)
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	6.76
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	~1558 ~2568	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

Overhead guard Standard forks Central Control Box Oil pressure alarm Hydraulic circuit oil filter Three-spool control vavle Power steering Rubber pedal pad Speed -limiting valve Back view mirror Battery-charge indicator Front conbined lights Wide-view mast Transmission oil filter Intake device Engine flameout device Parking brake cable Operating handles Water temperature meter Attached tools Standard seat Rear combined lights Hudraulic oil gauge Overhead guard raincoat Reversing buzzer Self-locking tilt valve Torque converter oil gauge

Tilt adjustable steering column

OPTIONS

Rotating warning light Vertical exhaust Double air filter Suspension seat Extended fork sleeve Solid tire Widening fork carriage Windglass Purifying muffler Fire muffler Fire extinguisher

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

Rear lights Air conditioning (some models) Electro-hydraulic switch OPS driving control

Torque converter oil temperature meter









Reliable forklift

A reliable Drive system



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

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

A reliable mast



The high internal-qualified mast confirmedly ensures the safety of the operator,

Standard configuration of the wide-view mast enlarges operators' view effectively, and ensures loading /unloading operations more reliable.

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

A reliable hydraulic system

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

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



A reliable steering system

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



/ Wearable tire ✓ Smaller turning radius Full hydraulic power steering

Comfortable operation space

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

- √ 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.





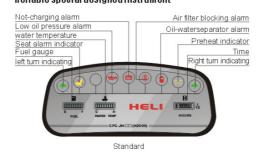


Manufacturers Data and Design Characteris	tics															
Characteristics																
Ondra decinion of									1.16							
1 Manufacturer 2 Model			CD C40 CDCD40	LODGAE LODGDAE	CDC40 CDCD40	B CPC20 CPCD20	ODOSE ODODOS	CDC20 CDCD20		CDO40 CDCD40	CDC15 CDCD15	CDC40 CDCD40	l coco locomo	onose ononse	- CDC20 CDCD20	ODOSE ODODSE
			CPC 10 CPCD10	CPC 15 CPCD 15	CPC 18 CPCD18		CPC25 CPCD25	CPC30 CPCD30	CPC35 CPCD35	CPQ 10 CPQD10	CPU IS CPUDIS	CPU 10 CPUDIO		CPUZ CPUDZ	CPUSU CPUDSU	J CPUSS CPUDSS
3 Power unit		Lon	4000	4500	4750	Diesel	0500	2000	2500	4000	4500	4750	Gasoline	2500	2000	2500
1 Rated Supacity		kg	1000	1500	1750	2000	2500	3000	3500	1000	1500	1750	2000	2500	3000	3500
5 Load Center		mm				500							500			
6 Operation						Driver seated							Driver seated			
Dimensions																
7 Overall max.lifting height (with backrest)		mm	4030	4030	4030	4030	4030	4262	4262	4030	4030	4030	4030	4030	4262	4262
8 Max.Lifiting height	h3			3000				000			3000				000	
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		152	155	155	170	170	160	170	152	155	155	170	170	160	170
11 Backrest height(from upper face of forks)	h8		1008	1005	1005	995	995	1227	1222	1008	1005	1005	995	995	1227	1222
12 Overhead Guard clearance(from face of seat)	h7			1025			_)35			1025				035	
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)		mm	2171	2245	2293	2522	2597	2702	2713	2171	2245	2293	2522	2597	2702	2713
16 Front overhang	Х		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		950/200		1000/222	1000/222	1055/250	1055/250		950/200		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)	Р	mm	920	920	920	970	970	970	970	920	920	920	970	970	970	970
25 Outside turning radius	Wa	mm	1880	1955	1985	2170	2240	2400	2420	1880	1955	1985	2170	2240	2400	2420
26 Inside turning radius	V	mm	110	110	95	160	160	200	200	110	110	95	160	160	200	200
27 Min.intersecting aisle	Ra	mm	1977	2052	2093	2200	2280	2380	2400	1977	2052	2093	2200	2280	2380	2400
28 Tilting angles(forward/backward)	qβ			6° /12°			6°	/12°			6° /12°			6°	/12°	
29 Fork dimensions(axbxc)		mm	770×100×32	920×100×35	920×100×35	920×100×45	1070×100×45	1070×125×45	1070×125×50	770×100×32	920×100×35	920×100×35	920×100×45	1070×100×45	1070×125×45	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		17	/19	18/19	19/19
31 Lifting Speeds(With/Without load)		mm/s		590/650		530	/550	440/480	330/370		590/650		530	/550	450/480	310/340
32 Lowering Speeds(With/Without load)		mm/s		450/550		450	/550	450/500	350/400		450/550		450	/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																
38 Wheels number front/rear(x=driven)				2X/2			2	K/2			2X/2			2)	V/2	
39 Tyre Type				Pneumatic			Pne	umatic			Pneumatic			Pne	umatic	
40 Tyre size(front)				6.50-10-10PR		7.00-1	2-12PR		28×9-15-14PR		6.50-10-10PR			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					ŀ	Hydraulic-Foot Pe	dal					Н	ydraulic-Foot Pe	ial		
43 Paking Brake					Me	echanical-Hand Le	ever					Me	chanical-Hand Le	ever		
Drive																
44 Battery (Voltage/Capacity)		V/Ah				12/80					12/60			12	/60	
45 Internal Combustion Engine Model				ISUZU C240PKJ			ISUZU C240PK	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	0			38				60	
51 Transmission Number of Speed Fwd/Bwd type			1 1 Dower St	nift T/M, 2-2 Manu	al Shift T/M	1-1	Power Shift T/M	2-2 Manual Shift	TM	1-1Power S	hift T/M , 2-2 Mar	nual Shift T/M	1-1	Power Shift T/M	, 2-2 Manual Shift	T/M



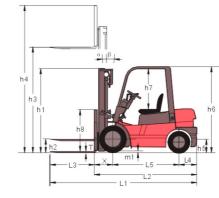
Engine Model	Rated Power / Rotating Speed (kW/rpm)	Rated Torque/ Rotating Speed (Nm/rpm)	Engine Capacity (L)	Number of cylinders	Remark
Kubota V2403	35.4/2400	161.3/1600	2.434	4	For 1-2.5t
KUDOTA VZ403	36.5/2600	164/1500	2.434	4	For 3-3.5t
Kubota V3600	46.9/2400	210/1600	3.62	4	For 2-3.5t
QUANCHAI QC490GP	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

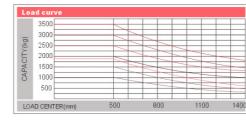
Reliable special designed instrument



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





B R S	Ast = Wa+x+b+a Ast Asta width with load a : Clearance b : Load Length	Wa	0 P P a a 2
	GROUND CLEARANCE	2t/2.5t	3t
	Drive Axle Steer Axle Counter Weight Frame	135 150 140 120	140 150 155 130

CPC25/CPCD25 CPQ25/CPQD25	CPC30/CPCD30 CPQ30/CPQD30	CPC35/CPCD3 CPQ35/CPQD3
CP C15/CPCD15 CPQ15/CPQD15	CPC10/CPCD10 CPQ10/CPQD10	
	CPQ25/CPQD25 CPC15/CPCD15	CPQ25/CPQD25

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.

Mast for model hei	ark		C																	
Mast fo	ark			apacity at	500mm; Loa	ad center(k	g)		01	verall Mast	Height(m	m)				Sen	vice Weight	(kg)		
m		CPQ 10/ CPQ D 10 CPC 10/ CPC D 10	CPQ15/ CPQD15 CPC15/ CPCD15	CPQ18/ CPQD18 CPC18/ CPCD18	CP020/ CP0D20 CPC20/ CPCD20	CP025/ CP0D25 CP025/ CP0D25	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 CPC35/ CPCD35
M200 20	000	1000	1500	1750	2000	2500	3000	3500	1495	1500	1565	1680	6 - 12	2120	2530	2760	3240	3600	4265	4800
M250 25	500	1000	1500	1750	2000	2500	3000	3500	1745	1750	1815	1930	6 - 12	2145	2555	2785	3280	3640	4310	4850
M300 30	000	1000	1500	1750	2000	2500	3000	3500	1995	2000	2065	2180	6 - 12	2220	2660	2890	3320	3680	4270	4700
M330 33	300	1000	1500	1750	2000	2500	3000	3500	2145	2150	2215	2330	6 - 12	2195	2605	2835	3345	3705	4375	4935
M350 35	500	1000	1500	1750	2000	2500	3000	3500	2245	2250	2315	2430	6 -12	2210	2620	2850	3360	3720	4390	4935
M370 37	700	1000	1500	1750	2000	2500	3000	3500	2345	2350	2415	2530	6 - 6	2230	2640	2870	3375	3735	4410	4970
M400 40	000	1000	1500	1700 * 1750	2000	2500	3000	3200 *3500	2545	2550	2615	2730	6 - 6	2270	2680	2910	3420	3780	4470	5055
M425 42	250	950	1400 *1500	1600 * 1750	1900 *2000	2250 *2500	2850 *3000	3100 *3200	2670	2675	2740	2855	6 - 6	2285	2695	2925	3440	3800	4490	5085
M450 46	500	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 50	000	930 *950	1000 *1350	1100 1600	1600 *1700	1650 *2200	2400 *2850	2500 *2850	3045	3050	3115	3230	6 · 6 *6 · 6	2335	2745	2975	3500	3960	4560	5170
M550 55	500	*900	*1150	*1500	*1600	*1950	*2400	*2500	3345	3350	3415	3530	*3 -6	2500	2910	3140	3695	4055	4780	5270
M600 60	000	*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 capcity with front dual tires. (4)Max fifting without lift-brackt:-470mm.

	-3.51	MIDE	VIEW	FULL	. FREE	: 2-51/	AGE IV	IA5 I																
	Max.		C ag	pacity at 5	00mm; Lo	ad center((kg)		Overa	all Mast	H eight	(mm)	F	Lift (v	ial Dad	4\				Serv	ice Weight	(kg)		
last odel	fork	CPQ10/ CPQD10 CPC10/ CPCD10	CPQ15/ CPQD15 CPC15/ CPCD15	CPQ18/ CPQD18 CPC18/ CPCD18	CPQ20/ CPQD20 CPC20/ CPCD20	CPQ25/ CPQD25 CPC25/ CPCD25	CPQ30/ CPQD30 CPC30/ CPCD30	CPQ35/ CPQD35 CPC35/ CPCD35		At Lo 2-2.5t	wered 3t	3.5t	1-1.8t	2-2.5t	3t	3.5t	Tilting Angle	CPQ10/ CPQD10 CPC10/ CPCD10	CPQ15/ CPQD15 CPC15/ CPCD15	CPQ 18/ CPQD 18 CPC 18/ CPC D 18	CP 020/ CP 020/ CP 020/ CP 020/	CPQ25/ CPQD25 CPC25/ CPCD25	CP 030/ CP 030/ CP 030/ CP 030/	CPQ35/ CPQD35 CPC35/ CPCD35
1200	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
1250	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
1300	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
1330	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
1350	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
1370	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
1400	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
1425	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
1450	4500	950	1300 *1400	1550 * 1700	1800	2150 *2400	2750 *3000	3000 *3050	2795	2795	2870	2980	1785	1795	1640	1760	6 - 6	2365	2785	3025	3545	3880	4695	5130
1500	5000	930 '950	1000 *1350	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
	5500	*900	*1150	*1500	*1600	* 1950	*2450	*2500	3345	3345	3420	3530	2335	2345	2190	2310	*3-6	2575	2995	3235	3790	4120	4875	5300
1600	6000	*850	* 1050	*1400	*1500	*1800	*2200	*2300	3595	3595	3670	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 daul wheels load capacity.
(4)Max lifting height without bracket:-470mm.
(5)Free lifting height without bracket:-470mm.
(6)Rated capacity with("):shows capacity with front dual tires.

7	-3.51	WIDE	VIEW	V FULL	. FKE	3-51	AGE N	IA5 I																
	Max.		Cap	pacity at 5	500 mm; Lo	ad center	(kg)		Over	all Mas	t Height	(mm)		1.30	iith Bac					Sen	rice Weight	(kg)		
Mast	fork height mm	CPQ 10/ CPQ D 10 CPC 10/ CPC D 10	CPQ15/ CPQD15 CPC15/ CPCD15	CPQ 18/ CPQ D 18 CPC 18/ CPC D 18	CPG20/ CPGD20 CPC20/ CPCD20	CPQ25/ CPQD25 CPC25/ CPCD25	CPQ30/ CPQD30 CPC30/ CPCD30	CPQ35/ CPQD35 CPC35/ CPCD35			owered 3t	3.5t		2-2.5t	atn Bac	3.5t	Tilting Angle	CPQ 10/ CPQD 10 CPC 10/ CPC D 10	CPQ15/ CPQD15 CPC15/ CPCD15	CPQ 18/ CPQD 18 CPC 18/ CPC D 18	CP 020/ CPQ D20 CP C20/ CPC D20	CPQ25/ CPQD25 CPC25/ CPCD25	CPQ30/ CPQD30 CPC30/ CPCD30	CPQ36 CPQD3 CPC36 CPCD3
Z9M360	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	2.5
ZSM485	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
Z3M450	4500	900	1300 *1350	1500 1650	1750 *1800	2150 *2300	2700 *2800	2900	2090	2095	2230	2330	1080	1090	1010	1110	6.6	2355	2750	2995	3565	3910	4660	5080
Z91/470	4700	900	1300	1450	1720 *1800	2000	2600 *2800	-	2160	2160	2230	-	1150	1160	1010	-	6-6	2365	2760	3005	3565	3910	4660	-
Z91/480	4800	900	1100 1350	1400	1700	1950 *2300	2500 *2800	2600 *2900	2190	2195	2330	2430	1180	1195	1110	1210	6.6	2375	2775	3010	3575	3915	4680	5095
Z9M500	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
Z9M540	5400	900	850 * 1250	850 *1500	1450 *1700	1500 *2150	2250 *2650	2300 *2700	2415	2420	2555	2655	1410	1420	1335	1435	3 - 6	2420	2815	3055	3895	4235	4760	-
Z91/1900	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	-
Z3M650	6500	*800	* 1000	*1250					2855				1845				*3-6	2530	2925	3165				
Z9M700	7000	-	-	*860	*1000	*1200	*1500	-	3025	3010	3166		2015	2030	1946	-	*3-6	2580	2975	3215	4345	4485	5250	-

NOTE (1)2-25t free lift height (without backrest):-435mm,3t free lift height (without backrest):+580mm.

Q)Dual wheels weight:+110kg.

G)*front wheel) is dual wheels load capacity.

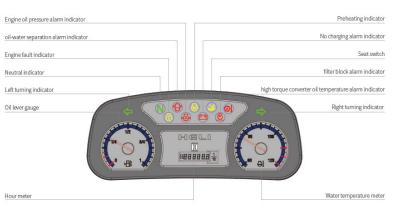
(J)Max. Ifing height without bracket:-470mm.

(S)Free iffing height without bracket:-470mm.

(R)Rated capacity with(*):shows capacity with front dual tires.



HELI



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

 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 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

Smart fleet management system (optional)

2-3.5 t

Forklift Truck

H2000 series Internal Combustion Counterbalanced



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 o all cylinders of the hydraulic system.



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



A reliable steering system

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

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



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.

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

• Weight 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

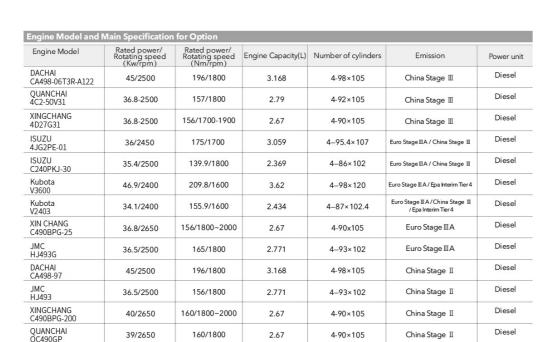


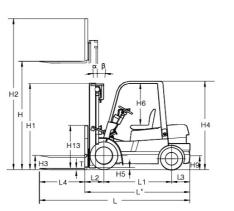
H2000 SERIES 2-3.5 t





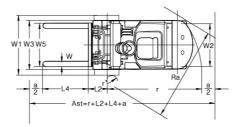
Mai	nufacturer and technical parameters										
	Characteristics										
1.01	Manufacturer						HE	ELI			
1.02	Model			CPC20	CPCD20	CPC25	CPCD25	CPC30	CPCD30	CPC35	CPCD35
1.03	Power unit						Die	sel			
1.04	Rated Capacity		kg	20	00	25	00	30	00	35	00
1.05	Load Center		mm				50	00			
1.06	Operation						Driver	seated			
	Dimensions										
2.01	Max.Lifting height	н	mm				30	000			
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	НЗ	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	1.	35	13	15
2.07	Overhead Guard clearance(from face of seat)	H6	mm				10	35			
2.08	Coupler height	Н9	mm	29	90	29	90	3	10	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	4	77	49	5
2.14	Rear overhang	L3	mm	44	10	5	15	5	15	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	9	70	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	2	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×1	_	920×1	22×40	1070×	122×40	1070×	125×45	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			/600		-	/480	360/	
3.03	Lowering Speeds(With/Without load)		mm/s			/550		_	/500	350/	
3.04	Max. Draw-bar pull,(With/Without load)		kN	17/12.5		16.5/11.8	18.5/11.8				
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										
1.01	Service Mass		kg	33	80	37	00	43	00	47	00
.02	Load Wheel with load(Front/Rear)		kg	4770	1000000)/740)/880	7390	
.03	Load Wheel without load(Front/Rear)		kg	1600/			/2190		/2590	1830/	
.50	Tyres		9	.000/	.,		,,	10		.000/	
5.01	Wheels number front/rear(x=driven)						2)	(/2			
5.02	Tyre Type							matic			
5.03	Tyre size(front)				7.00-1	2-12PR			28×9-15	-14PR	
5.04	Tyre size(rear)		_			9-10PR			6.50-10-		
5.05	Service Brake				5.00-		lydraulic-	Foot Ped		1011	
5.06	Paking Brake						echanical				
2.00	·3					1410	2.101.1001				

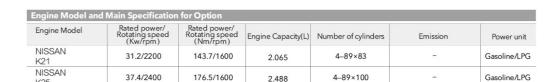


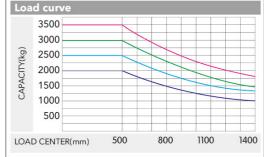




DUND CLEARANCE	2t/2.5t	31
Drive Axle	135	140
Steer Axle	150	150
Counter Weight	140	155
Frame	120	130







2-3.5t WIDE VIEW MAST

CPC20/CPCD20	CPC25/CPCD25	CPC30/CPCD30	CPC35/CPCD3

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.

2-3.50	MIDE VIEW	IVIIAST											
M	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	2250 *2500	2850 *3000	3100	2670	2745	2855	*6/12	3535	3855	4480	4885
M450	4500	*2000 1800 *1900	*2500 2150 *2400	*3000 2750 *3000	*3200 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	Max.fork height	Capacity	at 500mm	n(Load ce	nter) (kg)		overall he		free (with	lifting hei backrest)	ght (mm)	mast tilting		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	angle α/β(°)	CPC20/ CPCD20	CPC25/ CPCD25	CPC30/ CPCD30	CPC35
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	*6/12	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	*6/12	3620	3940	4530	4930
ZM450	4500	1800 *1900	2150 *2400	2750 *3000	3000 *3050	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	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) *ct	tande forthe	rated capacit	huuban tha f	ront toro is de	ouble tem										-	

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

2) When the front tyre of the 2-35t 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 2-25t truck is the height (with backrest) in the table plus 430mm. The fine lifting height (without backrest) of the 3t truck is the height (with backrest) in the table plus 50mm. The fire lifting height (without backrest) of the 3t truck is the height (with backrest) in the table plus 50mm.

Mast	Max.fork height	Capacity	at 500mr	n(Load ce	nter) (kg)	mast (fork to	overall he the grour	eight nd)(mm)	free (with	lifting hei backrest)	ght (mm)	mast tilting angle	9	Service W	/eight (kg	g)
model	(mm)	2t	2.5t	3t	3.5t	2-2.5t	3t	3.5t	2-2.5t	3t	3.5t		CPC20/ CPCD20	CPC25/ CPCD25	CPC30/ CPCD30	CPC3
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	480
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	484
ZSM470	4700	1720 *1800	2000 *2300	2650 *2800	2700 *2900	2165	2230	2230	1165	1000	1000	6-6	3600	4005	4600	486
ZSM480	4800	1700 *1800	1950 *2300	2550 *2800	2650 *2900	2210	2270	2270	1210	1040	1040	6-6	3615	4050	4620	488
ZSM500	5000	1600 *1750	1650	2450	2500	2300	2370	2370	1300	1140	1140	6-6	3640	4095	4645	490
ZSM540	5400	1450 *1700	*2250 1500 *2150	*2750 2300 *2650	*2850 2350 *2700	2400	2470	2470	1400	1240	1240	*3-6	3670	4135	4675	493
ZSM600	6000	*1600	*1800	*2100	*2250	2600	2670	2670	1600	1440	1440	*3-6	3775	4180	4765	502
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	511
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



Standard configuration

Standard fork Driver's cab Control valve Integrated electric box Warning light Wholly hydraulic-powered steering Hydraulic oil circuit filter High air exhausting device Semi-suspension seat Double air cleaner Wide view mast Suspension seat Lengthening fork extension Back view mirror Air intaking device Front combined lamp Durable tread tyre Warm air blower Transmission oil filter Lifting and tilting operation lever Solid tyre

Wind shield

Overhead guard rain cover

Traction pin

Head lamp

Hydraulic oil dipstick

Combined instrument

Electro-hydraulic direction

Torque converter oil dipstick

Overhead guard

Engine flame out device

Cable type parking brake

Tilt oil circuit self lock valve

Tilt adjustable steering column

Rear combined lamp

Backward buzzer

Driver's tool

Torque converter oil temperature meter Tilting cylinder bush Customer made color Optional attachments Steel protection net Double-tyre and protection device

Rotating seat for lpg Single/dual fuel system Widen fork arm carrier Power braking Low speed alrm

Cleansing muffler Fire extinguisher muffler Fire extinguisher Rear working light Air conditioner (certain type)

Travelling control system









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
- > 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

♠ Operator's view 20%

- > 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

♠ 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
- ♠ 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.





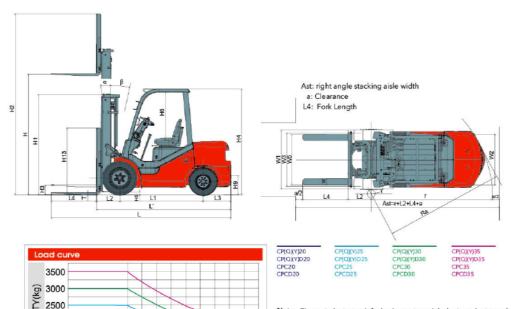


H3 SERIES INTERNAL COMBUSTION 2-3.5ton





	Character						
1.01	Manufacturer				HE	Ц	
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)D
1.03	Rated ca pacity		kg	2000	2500	3000	3500
1.04	Load center		mm		50	0	
1.05	Operation mode				Seat-t	уре	
	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)				2X/	2	
4.02	Tyre type(Front/Rear)				Pneuma	tic 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			0.00-7-1011	Hydraulic-F		0.30-10-10FR



2000

LOAD CENTER(mm) 500 800 1100 1400

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.

Mast model	Max. lifting	Lo	ad capacity (lo	ad center 500	lmm)	Mast overall	height (fork to	the ground)		Service	eweight		Mast
	height (mm)	CP(Q)(Y)D2(V CP(Q)(Y)D2(V CPC2)/CPCD2()	CP(Q)(Y)25/ CP(Q)(Y)D25/ CPC25/CPCD25	CP(C)(Y)(030/ CP(C)(Y)(030/ CPC30/CPC(030	CP(Q)(Y)85/ CP(Q)(Y)035/ CPC35/CPC035	2-2.5t	3t	3.5t	CP(0.)(Y)020/ CP(0.)(Y)020/ CPC20/CPCD20	CP(Q)(Y)D25/ CP(Q)(Y)D25/ CPC25/CPCD25	CP(Q)(Y)D30/ CP(Q)(Y)D30/ CPC30/CPCD30	CP(Q)(Y)D35/ CP(Q)(Y)D35/ CPC35/CPCD35	angle (°) x/p
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 *3188 *3288 *3858	2550	2620	2730	3565	3945	4490	4940	*6-12
M425	4250	*2688 *1888	*2558 *2188	*3858 *3888	*3100	2675	2745	2855	3590	3970	4510	4970	*6-12
M450	4500	+1888	-2188	+3888	*3858	2800	2870	2980	3615	3995	4535	4990	*6-12
M500	5000	+1900	±1650 ±2200	+2100 +2850	*2100 *2850	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	/19	17	/19	19	7/20	19	9/19	17	7/19	1	7/19	19	9/20	19.	/20
Lifting Speed (Loaded/Unloaded)	mm/s	560	/600	560	/600	500	7550	400	0/420	520	0/570	52	0/570	420	V480	370.	/410
Lowing Speed (Loaded/Unloaded)	mm/s	450	/500	450	/500	450	7550	350	0/400	450	0/500	45	0/500	450	V550	350.	/400
Drive and transmission control device																	
Engine mode				ISUZU	C240PKJ			ISUZU	U 4JG2				GCT	k25			
Engine rated power	kW/rpm			35.4	/2500			44.9	9/2450				37.4/	2400			
Engine rated torque	Nm/rpm			139	1800			184.7/1	1600-1800				176.5	/1600			
Engine cylinder number-borexstroke				4-86	×102			4-95	i.4x107				4-89	×100			
Engine displancement	L			2.	369			3	3.05				2.4	88			
Engine type					Die	sel							Gasoline	or LPG			
Emission				Eur	AIII			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)								1-11	Power Shift T/M	/ 2-2 Manual Shit	ft T/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 [I
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	4-94×100	Diesel	Euro IIIA
Deutz F4M2011	45/2500	190/1700	3.108	4	4-94×112	Diesel	CHINA STAGE II
JMC HJ 493G43	36.8/2500	156/1800	2.771	4	4-93x102	Diesel	Euro IIIA

Mast	Max.	Load	capacity (lo	ad center	500mm)	Maxovenil	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(Q1Y)30/ CP(Q1Y)D30/ CPC30/ CPCD30	CP(Q)(Y)35/ CP(Q)(Y)D35/ CPC35/ CPCD85	2-2.5t	3t	3.5t	2-2.5t	3t	3.5t	CP(Q)(Y)20/ CP(Q)(Y)D20/ CPC20/ CPCD20			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	1900 *2000	*2250 *2500	-2850 -3000	*3100 *3200	2670	2745	2855	1670	1515	1635	3730	4110	4575	5025	*6-12
ZM450	4500	*1800 *1900	*2400	*3000	*3000	2795	2870	2980	1795	1640	1760	3755	4135	4595	5050	-6-6
ZM500	5000	-1600 -1700	1650 *2200	2400 *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 front tyre of the 2-3.5 truck is of outbie tyre, the service weight of the truck is the weight in the table plus 110 kg.

(3) The free lifting height (without backrest) of the 1-18 truck is the height (with backrest) in the table plus 45 mm. The fire lifting height (without backrest) of the 2-2.5 truck is the height (with backrest) in the table plus 58 mm. The fire lifting height (without backrest) of the 3.5 truck is the height (with backrest) in the table plus 58 mm. The fire lifting height (without backrest) of the 3.5 truck is the height (with backrest) in the table plus 58 mm. The fire lifting height (without backrest) of the 3.5 truck is the height (with backrest) in the table plus 58 mm. The fire lifting height (without backrest) of the 3.5 truck is the height (without backrest) in the table plus 58 mm. The fire lifting height (without backrest) of the 3.5 truck is the height (without backrest) in the table plus 58 mm. The fire lifting height (without backrest) of the 3.5 truck is the height (without backrest) in the table plus 58 mm. The fire lifting height (without backrest) of the 3.5 truck is the height (without backrest) in the table plus 58 mm. The fire lifting height (without backrest) in the table plus 58 mm. The fire lifting height (without backrest) in the table plus 58 mm. The fire lifting height (without backrest) in the table plus 58 mm. The fire lifting height (without backrest) in the table plus 58 mm. The fire lifting height (without backrest) in the table plus 58 mm. The fire lifting height (without backrest) in the table plus 58 mm. The fire lifting height (without backrest) in the table plus 58 mm. The fire lifting height (without backrest) in the table plus 58 mm. The fire lifting height (without backrest) in the table plus 58 mm. The fire lifting height (without backrest) in the table plus 58 mm. The fire lifting height (without backrest) in the table plus 58 mm. The fire lifting height (withou

Mast	Max.	Load	capacity(lo	ad center!	500mm)	Mastoverall	height(forkt	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(C)(Y)25/ CP(C)(Y)025/ CPC25/ CPCD25		CP(C)(Y)35/ CP(C)(Y)D35/ CPC35/ CPCD35	2-2.5t	3t	3.5t	2-2.5t	3t	3.5t	CP(C)[Y)20/ CP(C)[Y)020/ CPC20/ CPCD20	CP(C)(Y)25/ CP(C)(Y)C25/ CPC25/ CPCD25	CROXY)30/ CROXY)030/ CRC30/ CRCD30	CP(Q)(Y)35/ CP(Q)(Y)D35/ CPC35/ CPCD35	angle
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	-66
ZSM435	4350	-1850 -1900	*2200 *2400	2800 3000	*3100	2045	2190	2190	1045	955	960	3775	4155	4665	4980	*6.6
ZSM450	4500	+1750 +1800	*2150 *2300	2700 *2900 2600 *2900	2800 *3000 2600 *3000	2095	2240	2240	1095	1005	1010	3785	4165	4680	4995	*6.6
ZSM470	4700	*1800 *1800 *1800	*2300 2000 *2300	2600 *2900	2600 *3000	2160	2240	2240	1160	1005	1010	3800	4180	4700	5015	-6-6
ZSM480	4800	1700 *1800 1600 *1750	1950 *2300 1650	2500 *2800	2600 *2900	2195	2340	2340	1195	1105	1110	3805	4185	4720	5025	*6.6
ZSM500	5000	1600 *1750	*2250	2400 *2750	2450 *2850	2295	2440	2440	1295	1205	1210	3830	4210	4745	5060	*66
ZSM540	5400	*1450 *1700	1500 *2150	2500 *2800 2400 *2750 2250 *2650 1500 *2100	2600 *2900 2450 *2850 2300 *2700	2420	2565	2565	1420	1330	1335	3860	4240	4775	5090	*3.6
ZSM600	6000	*1600	1000 *1800	1500	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 2-3.5 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 1-1.8 truck is the height (with backrest) in the table plus 452mm. The free lifting height (without backrest) of the 2-2.5 truck is the height (with backrest) in the table plus 452mm. The free lifting height (without backrest) of the 3t truck is the height (with backrest) in the table plus 582mm. The free lifting height (without backrest) of the 3t truck is the height (with backrest) in the table plus 582mm. The free lifting height (without backrest) of the 3t truck is the height (without backrest) in the table plus 582mm.

INTERNAL COMBUSTION COUNTERBALANCED 4-5 ton

WIDE VIEW MAST Mast model Max.Litting height Load capacity(Load center 500mm)(kg) (kg/mm) Height mast retracted for forward for provand for

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

WIDE	VIEW FU	LL FREE	2-STAG	E MAST										
Mast	Max.Lifting	Load capacit	y(Load center	r 500mm)(kg)	Height mast	Free lift (with backrest)	Full free lift	Titing angles			Service	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 center	500mm)(kg)	Height mast	Free lift (with backrest)	Full free lift	Tilting 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.



(F) series / HICH EFFICIENT ENERGY EFFICIENT

4-5 ton H series

INTERNAL COMBUSTION COUNTERBALANCED FORKLIFT TRUCK

Standard equipments

Standard fork Standard carriage M300 standard mast Standard overhead guard

Single air cleaner Standard muffler Control valve (two throw) Standard pneumatic tyre Normal seat Driver's tool

Optional equipments

Suspension seat

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

Three stage free lift mast

Turnaloads

Crane jib

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









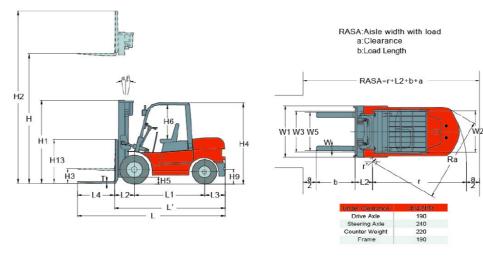






60,000,000	design Characteristics											
Chara	CONTROL OF THE CONTRO											
1.01 Manuf				00004044	000045440	000000 40	ODOVD 40 TVE	HELI	CPQYD50-TY5	00040 800	CPC45-XC3	CPC50-W
1.02 Model				CPCD40-M2	CPCD45-M2	CPCD50-M2	CPQYD40-TY5	CPQYD45-TY5	CFQYD50-115	CPC40-XC3		CPC50-W
1.03 Power				N222	Diesel	5000	4000	Gasoline/LPG	5000	4000	Diesel	5000
0.000	Capacity		kg	4000	4500	5000	4000	4500	5000	4000	4500	5000
1.05 Load o			mm					500				
1.06 Driving	g mode							Seated				
.0120	height, extended (with backrest, unloaded)	H2	mm					4217				
	Fork height	H	mm					3000				
	height, lowered	H1	mm					2275				
2.04 Free li		H3	mm					150				
Access to the second second	rest height (from the fork surface)	H13	mm					1217				
	nce from the seat surface to the overhead guard	H6	mm					980				
	all height (overall height)	H4	mm					2270				
	all 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
	overhang	L2	mm	11100010			V151515515	555		(3.5.6.6.6.6.6.6.6.6.6.6.6.6.6.6.6.6.6.6.	33343444	
	overhang	L3	mm	520	540	584	520	540	584	520	540	584
2.11 Wheel	3	L1	mm	020				2000				
	on pin height	H9	mm					385				
Marie Control of the	Under clearance (at mast)	H5	mm					175				
	ll width	W1	mm					1480				
2.15 Fork d	distance (external)(max. /min.)	W5	mm					1340/300				
2.16 Tread	(front tread/rear tread)	W3/W2	mm					1180/1190				
2.17 Min. T	Furning radius (inside)	r³	mm					220				
2.18 min. T	Furning radius (outside)	г	mm	2720	2740	2800	2720	2740	2800	2720	2740	2800
2.19 min. R	Right angle aisle width	Ra	mm	2480	2500	2550	2480	2500	2550	2480	2500	2550
2.20 Mast ti	tilting angle (front/rear)	α/β			1			6°/12°			1	1
2.21 Fork s	size	L4xWxT	mm					1070x150x50				
Perfor	rmance											
3.01 Max. T	Travelling speed (loaded/unloaded)		Km/h		25/26			25/26		18	/19	18/19
3.02 lifting s	speed (loaded/unloaded)		mm/s		460/520			460/520		360	/390	360/390
3.03 Lower	ring speed (loaded/ unloaded)		mm/s					<600/>300				
	on force (loaded/unloaded)		KN		22/16			25/16			/14	31/14
3.05 max. 0	Gradeability(loaded/unloaded)		%	18/20	17/20	16/20	18/20	17/20	16/20	17/20	16/20	20/25
Weigh	A CONTRACTOR OF THE CONTRACTOR											
4.01 Servic	S) And = 0.0		Kg	6500	6800	7100	6500	6800	7100	6200	6500	6800
	nt distribution loaded (front/rear)		Kg	8925/1575	9750/1550	10500/1600	8925/1575	9750/1550	10500/1600	8568/1632	9320/1680	10030/1770
	t distribution unloaded (front/rear)		Kg	2700/3800	2710/4090	2680/4420	2700/3800	2710/4090	2680/4420	2635/3565	2730/3770	2890/3910
	l and tyre											
-	number x=drive wheel (front/rear)							2X/2				
	/pe (front/rear)							Pneumatic tyre				
5.03 tyre m				8.25-15-14PR	300-1	5-20PR	8.25-15-14PR		5-20PR	8.25-15-14PR	8.25-15-14PR	300-15-20PF
5.04 Туге п								7.00-12-12PR				
5.05 Service						powered bra	ake-pedal tyre	hanizat hand backs lavar			vacuum assist –pedal typ	e e
5.06 Parkin							Mec	hanical-hand brake lever	type			
-	and control device		V/Ah		24/80			12/100			24/80	
	ry (voltage /capacity)		V/An							Visabas		Mahami Caddad
	e manufacturer /model		KW/rpm		Mitsubishi S6S-230 52/2300			GM 4.3L Gasoline/LPG			g 4D35G 2300	Wuxi CA411 61/2200
	e rated power		Nm/rpm		52/2300 248/1700			ine: 70/2300 LPG: 76.			2300 00~1800	305/1400~16
- V40	e rated torque e cylinder (number-bore ×stoke)		MINTON		548/1700 6-94x120		Gasolin	ne: 287/1700 LPG: 323	5.5/1/00		00~1800 0x115	305/1400~16 4-110x125
U.UU Engine	e displacement		L		4.966			6-101.6x88.39 4.29418			.5	4-110x125 4.752
6.06 anging			_							3	.0	4.702
	e fuel tank capacity		L					90				

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	C1 QD40 30-110
Quanchai 4C6-M	48/2300	230/1600~1800	3.47	4-98x115	CPC40~45-QC1



CAPACITY (kg)	4700 4500 4300 4000				
CIT	3700		1		
CAPA	3400 3200 3000				
	2700 2500				

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

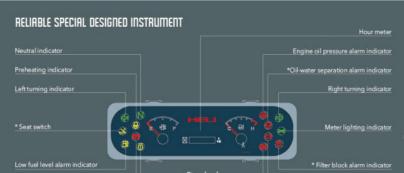
different load center can be known from this load chart.

Mast lifting height and fork length t	able													
Wide view normal mast lifting height (mm)	2600	2700	3000 *	3300	3500	3700	3750	4000	4250	4500	4750	5000	5500	600
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						

Note: Equipments with * is standard.



Tilt adjustable steering column



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

Standard configuration Optional Overhead guard Driver's cab User-specified color Standard fork Optional attachments Warning light High air exhausting device Oil pressure alarm Neutral gear switch Control valve Hydraulic circuit oil filter Double air cleaner Full LED light ass'y Power switch Suspension seat Rubber pad Intelligent shift Fork extension Reversing voice speaker Backrest Speed-limiting valve Heater Universal key Overspeed 10km/h alarm Rear view mirror Oil level gauge Solid tyre Front combined lamp (LED light) Charging indicator Widen fork carriage OPS(Travelling function and loading function) Transmission oil filter Wide view mast Wind shield Engine flame out device Air intaking device Purifying muffler Drive axle with wet disc type brak Rachet type parking brake Durable tire with decorative pattern Fire extinguisher muffler Lifting and tilting operating handles Water temperature meter Fire extinguisher Driver's tools Traction pin Rear working light Rear combined lamp(LED) Air conditioner (certain type) Semi-suspension seat Hydraulic oil dipstick OPS (travelling function) Reversing buzzer Overhead guard rain cover Torque converter oil temperature meter Tilt-lock valve

Tilting cylinder sleeve Steering cylinder sleeve

Torque converter oil dipstick







5-10 t G series internal combustion counterbalanced forklift truck



Technical features remarkably improved

Damping

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

Noise reduction

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

Heat dissipation

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

Energy efficiency

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

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.

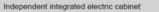
Maintainability

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



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







	Characteristics							
.01	Manufacturer					HELI		
.02	Model			CPCD50	CPCD60	CPCD70	CPCD85	CPCD100
.03	Power type					Diesel		
.04	Rated capacity	Q	kg	5000	6000	7000	8500	10000
.05	Load center	С	mm			600		
.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)	ď	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
24	Fork size	L4	mm	55X1220X150	60X1220X150	65X1220X150	70X1220X170	80X1220X1

2.19	Min. Turning radius (external)	r	mm	3240	3300	3370	3650	3900
2.20	Min. Turning radius (internal)	7	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	80X1220X17
	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				Mechani	cal-hand brake I	lever type	
4.04	Oil tank capacity		L			160		
4.05	Transmission type				Inte	elligent gear shi	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	20167/2493
5.08	Axle load (unloaded) front/rear		kg	4130/4170	4060/4990	3870/5780	5082/6468	5570/7090
	Engine specifications							
6.01	Engine manufacturer / mode					ISUZU 6BG1		
6.02	Engine rated power/rotational speed		Kw/rpm	em 82/2000				
6.03	Engine rated torque/rotational speed		\m/rpm			415/1400~160	0	
6.04	Cylinder number					6		
6.05	Engine displacement	L			6.494			



	(CGC)

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| | CPCD50 | CPCD60 | CPCD70 | CPCD85 | CPCD100 | CPCD50 | CPCD60 | CPCD70 | CPCD85

 | CPCD100 | CPCD50 | CPCD60

 | CPCD70
 | CPCD85

 | CPCD100 | CPCD50 | CPCD60 | CPCD70 | CP(Q)YD50

 | CP(Q)YD60 | CP(Q)YD70 | CPCD50 | CPCD60 | CPCD70 | CPCD85
 | CPCD100 |
| km/h | 26/30 | 26/30 | 26/30 | 26/30 | 26/30 | 26/30 | 26/30 | 26/30 | 26/30

 | 26/30 | 24/29 | 24/29

 | 24/29
 | 24/28

 | 24/28 | 26/30 | 26/30 | 26/30 | 28/30

 | 28/30 | 28/30 | 26/30 | 26/30 | 26/30 | 26/30
 | 26/30 |
| mm/s | 500/520 | 500/520 | 485/520 | 390/420 | 330/350 | 530/550 | 530/550 | 510/540 | 390/420

 | 330/350 | 510/530 | 510/530

 | 500/530
 | 390/420

 | 330/350 | 450/470 | 440/470 | 420/460 | 420/440

 | 420/440 | 420/440 | 550/570 | 550/570 | 550/570 | 430/450
 | 350/370 |
| mm/s | | | | | | | WITHO | UTLOAD≥300 W | ATH FULL LOAD≤

 | 600 | |

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 | | | | | |
 | |
| KN | 62 | 62 | 62 | 60 | 60 | 60 | 60 | 60 | 60

 | 58 | 63 | 63

 | 62
 | 60

 | 58 | 42 | 40 | 40 | 60

 | 60 | 60 | 62 | 62 | 62 | 56
 | 56 |
| % | 39/20 | 34/20 | 30/20 | 22/20 | 20/20 | 34/19 | 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 |
| kg | 8150 | 8900 | 9500 | 11400 | 12510 | 8150 | 8900 | 9500 | 11400

 | 12510 | 8300 | 9050

 | 9650
 | 11550

 | 12660 | 8300 | 9050 | 9650 | 7980

 | 8730 | 9330 | 8150 | 8900 | 9500 | 11400
 | 12510 |
| kg | 11830/1320 | 13330/1570 | 14450/2050 | 17750/2150 | 20030/2480 | 11830/1320 | 13330/1570 | 14450/2050 | 17750/2150

 | 20030/2480 | 11940/1360 | 13400/1650

 | 14500/2150
 | 17845/2205

 | 20167/2493 | 11940/1360 | 13400/1650 | 14550/2150 | 11620/1360

 | 13080/1650 | 14180/2150 | 11830/1320 | 13330/1570 | 14450/2050 | 17750/2150
 | 20030/2480 |
| kg | 4050/4100 | 4005/4895 | 3900/5600 | 6040/5360 | 5510/7000 | 4050/4100 | 4005/4895 | 3900/5600 | 5360/6040

 | 5510/7000 | 4130/4170 | 4060/4990

 | 3870/5780
 | 5082/6468

 | 5570/7090 | 4130/4170 | 4060/4990 | 3870/5780 | 3810/4170

 | 3740/4990 | 3550/5780 | 4050/4100 | 4005/4895 | 3900/5600 | 5360/6040
 | 5510/7000 |
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 | |
| | | Cummins Q | SF3.8(Euro IIIA, CHI! | NA STAGE III) | | | | Perkins 1104D-44T | A

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 | XICHAI CA6110
 |

 | | | Mitsubishi S6S-T | |

 | PSI 4.3 | | Cumn | nins QSB4.5(EU Sta | ge IIIB、US EPA Tie | er4(i). CHINA STA
 | AGE III) |
| Kw/rpm | | | 86/2200 | | | | | 83/2200 |

 | | |

 | 83/2000
 |

 | | | 63.9/2300 | |

 | 77/2300 | | | | 82/2200 |
 | |
| Nm/rpm | | | 470/1100~1700 | | | | | 418/1400 |

 | | |

 | 450/1400-1500
 |

 | | | 285/1700 | |

 | 332/1400 | | | | 489/1500 |
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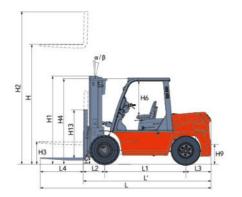
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| L | | | 3.8 | | | | | 4.4 |

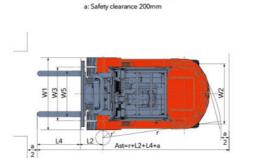
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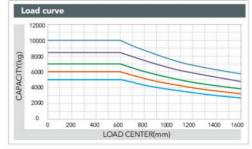
 | | | 4.29 | |

 | 4.3 | | | | 4.5 |
 | |
| | mm/s
mm/s
KN
%
kg
kg
kg | km/h 26/30
mm/s 500/520
mm/s KN 62
% 39/20
kg 8150
kg 11830/1320
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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.

Mast mode	Max. forkheight	Load capacity (load center 600mm)(kg)			Mast height, lowered (mm)		Service weight (kg)				
	(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	t 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
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.

	Max	Lond associated as	d contact (Mm m VIva)	Mast heig	ht, lowered	Servio	Mast	
st model	forkheight	Load capacity (load	d center 600mm)(kg)	(r	nm)	(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°

8.5-10t	WIDE VIEW	V FULL FREE 2	2-STAGE MAST							
astmode	Max. fork height	Load capacity (load	d center 600mm)(kg)		ght, lowered nm)		th backrest) im)		weight (g)	Mast tilting angle
	(mm)	CPCD85	CPCD100	CPCD85	CPCD100	CPCD85	CPCD100	CPCD85	CPCD100	α/β
M250	2500	8500	10000	2450	2600	1090	1302	11447	12371	6°/12°
M270	2700	8500	10000	2550	2700	1190	1402	11473	12399	6°/12°
M300	3000	8500	10000	2700	2850	1340	1552	11515	12442	6°/12°
M330	3300	8500	10000	2850	3000	1490	1702	11556	12470	6°/12°
M350	3500	8500	10000	2950	3100	1590	1802	11584	12513	6°/12°
M375	3750	8500	10000	3075	3225	1715	1927	11619	12556	6°/12°
M400	4000	8500	10000	3250	3400	1890	2102	11756	12584	6°/12°
M425	4250	8500	10000	3375	3525	2015	2227	11790	12619	6°/12°
M450	4500	8500	10000	3500	3650	2140	2352	11825	12765	6°/12°
M475	4750	8200	9500	3625	3775	2265	2477	11860	12800	6°/6°
M500	5000	8200	9500	3750	3900	2390	2602	11865	12837	6°/6°
M550	5500	7850		4050	4200	2690	-	12067	12873	3°/6°
M600	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)		e weight kg)	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, (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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