



5-10 t

G SERIES INTERNAL COMBUSTION
COUNTERBALANCED FORKLIFT TRUCK



G series / INTELLIGENT
ENVIRONMENT-FRIENDLY

HELI



TOP1 FORKLIFT MANUFACTURER AND SALER
IN CHINA FOR CONSECUTIVE 23 YEARS



G SERIES INTERNAL COMBUSTION
COUNTERBALANCED FORKLIFT TRUCK

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technical features remarkably improved

Damping

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

Noise reduction

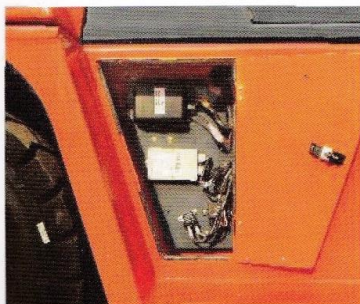
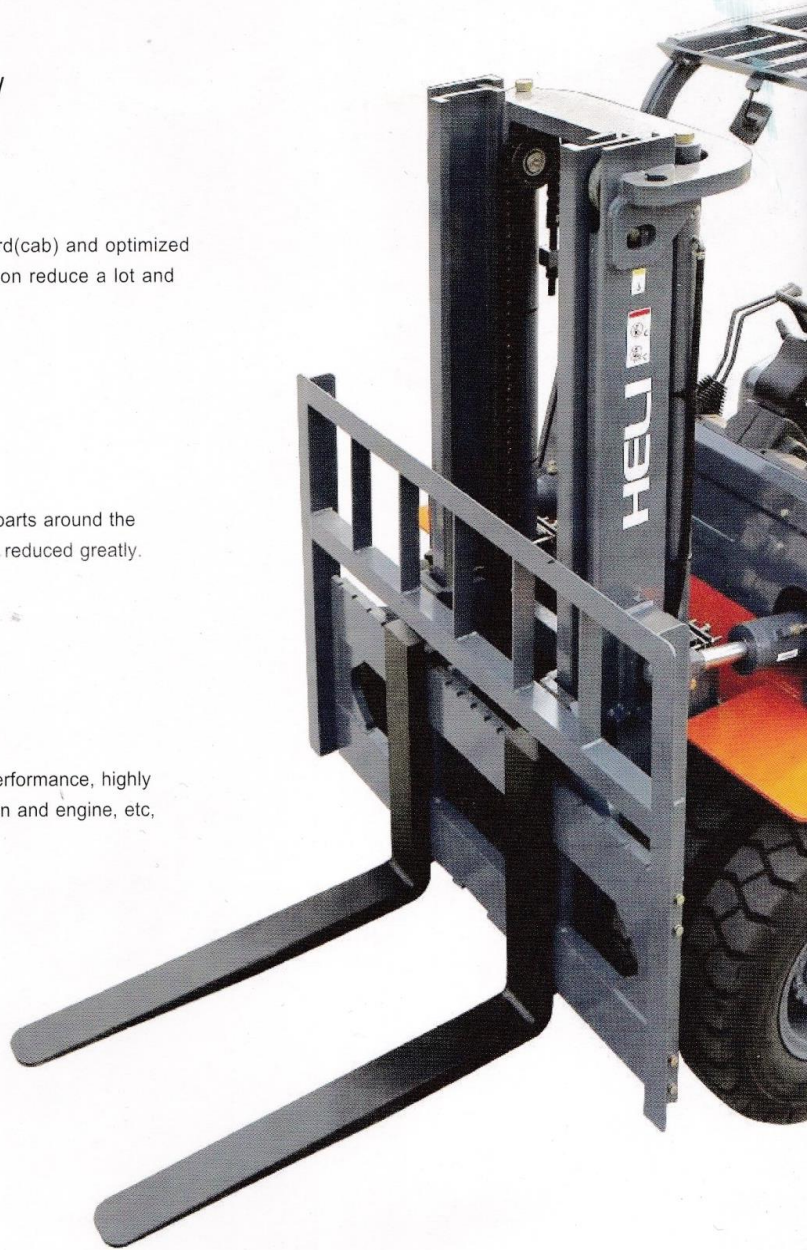
- > Equipped with fully sealed cab and optimize designed parts around the engine, noise nearby ear and the truck sound level are reduced greatly.

Heat dissipation

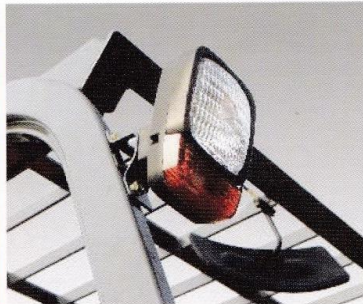
- > With the optimized cooling system and great cooling performance, highly improved the reliability and durability of the transmission and engine, etc.

Energy efficiency

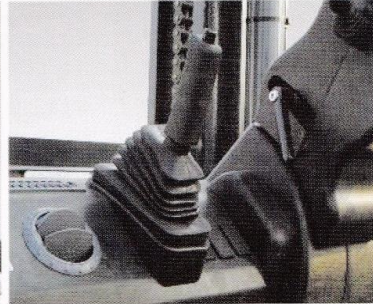
- > With optimized hydraulic system, the truck is more energy-efficient and lower fuel consumption.



Independent integrated electric cabinet



LED signal (standard configuration)



Ratchet type parking brake



Intelligent gear shifting

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 light and easy; The updated new intelligent gear shifting system could avoid starting with second gear, improves the transmission box's reliability.

Maintainability

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

Reliability

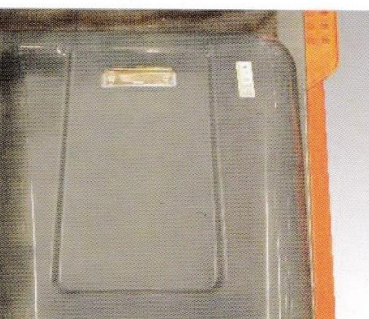
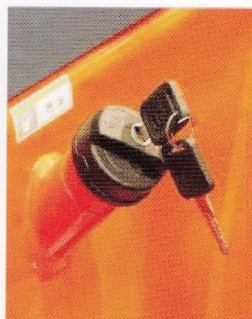
- > Key parts like frame and mast apply CAE top-down design to improve their strength and make the truck tough.



Steering wheel lock mechanism



Locked fuel tank cover



Folder



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Manufacturer and technical parameters

Characteristics								
1.01	Manufacturer				HELI			
1.02	Model		CPCD50	CPCD60	CPCD70	CPCD85	CPCD100	
1.03	Power type				Diesel			
1.04	Rate capacity	Q kg	5000	6000	7000	8500	10000	
1.05	Load center	c mm	600		600			
1.06	Driving mode				Sit-on type			
<hr/>								
2.01	Mast height, extended (with backrest)	H2 mm	4400	4400	4400	4420	4415	
2.02	Max. for height	H mm	3000	3000	3000	3000	3000	
2.03	Mast height, lowered	H1 mm	2500	2500	2500	2700	2850	
2.04	Free lift	H3 mm	200	200	200	200	200	
2.05	Backrest height (calculated from the fork surface)	H13 mm	1360	1350	1345	1360	1345	
2.06	Overhead guard clearance (from face of seat)	H6 mm	1060	1060	1060	1060	1060	
2.07	Overhead guard height	H4 mm	2450	2450	2450	2560	2560	
2.08	Overall length (with forks)	L mm	4710	4790	4840	5180	5430	
2.09	Overall length (without forks)	L' mm	3490	3570	3620	3955	4210	
2.10	Front overhang	L2 mm	590	595	600	707	722	
2.11	Rear overhang	L3 mm	600	675	720	755	715	
2.12	Wheel base	L1 mm	2300	2300	2300	2500	2775	
2.13	Traction pin center height	H9 mm	410	410	410	520	520	
2.14	Min Ground clearance (from bottom of mast)	H5 mm	200	200	200	250	250	
2.15	Truck body width	W1 mm	2045	2045	2045	2165	2165	
2.16	Lateral fork adjustment (outside of fork) (max./min.)	W6 mm	300-1835	300-1835	300-1835	348-1944	420-2060	
2.17	Front tread	W3 mm	1520	1520	1520	1600	1600	
2.18	Rear tread	W2 mm	1700	1700	1700	1700	1700	
2.19	Min. Turning radius (external)	r mm	3240	3300	3370	3650	3900	
2.20	Min. Turning radius (internal)	r' mm	200	200	200	200	200	
2.21	Min. Intersecting aisle	Ast mm	3200	3260	3330	3590	3860	
2.23	Mast tilting angle (forward/rear)	α / β °	6/12	6/12	6/12	6/12	6/12	
2.24	Fork size	L4 mm	55X1220X150	60X1220X150	65X1220X150	70X1220X170	80X1220X175	
<hr/>								
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		
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4.01	Battery (voltage/capacity)	V/Ah			2X12/80			
4.02	Service brake				Powered brake-pedal type			
4.03	Parking brake				Mechanical-hand brake lever type			
4.04	Oil tank capacity	L			160			
4.05	Transmission type				Intelligent gear shifting			
4.06	Transmission number of speed (fwd/bwd)				2/2			
<hr/>								
5.01	Max. Travelling speed (loaded/unloaded)	km/h	24/29	24/29	24/29	24/28	24/28	
5.02	Lifting speed (loaded/unloaded)	mm/s	510/530	510/530	500/530	390/420	330/350	
5.03	Lowering speed (loaded/unloaded)	mm/s	WITHOUT LOAD \geq 300 WITH FULLLOAD \leq 600					
5.04	Max. Draw bar (loaded)	KN	63	63	62	60	58	
5.05	Max. Gradability (loaded/unloaded)	%	38/19	35/19	32/19	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	
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6.01	Engine manufacturer / mode				Isuzu 6BG1			
6.02	Rate power/Rotational speed	Kw/rpm			82/2000			
6.03	Max. torque/Rotational speed	Nm/rpm			415/1400-1600			
6.04	Cylinder number				6			
6.05	Engine displacement	L			6.494			

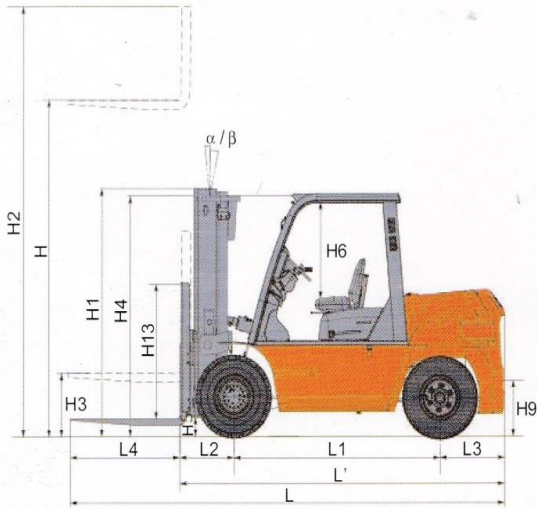
Optional engine model and truck main specifications

Truck specifications

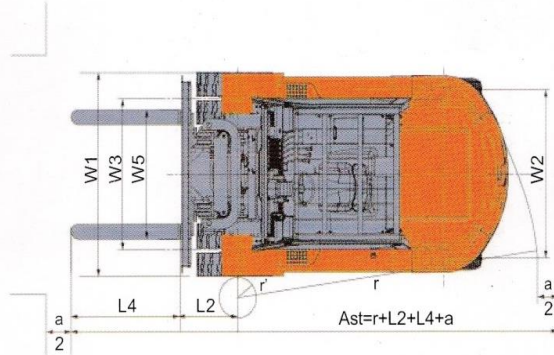
Manufacturer		CPCD50	CPCD60	CPCD70	CPCD85	CPCD100	CPCD50	CPCD60	CPCD
Max. Travelling speed (loaded/unloaded)	km/h	26/30	26/30	26/30	26/30	26/30	26/30	26/30	26/30
Lifting speed (loaded/unloaded)	mm/s	530/550	530/550	510/540	390/420	330/350	550/570	550/570	550/570
Lowering speed (loaded/unloaded)	mm/s								
Max. Draw bar (loaded)	KN	60	60	60	60	58	60	60	60
Max. Gradeability (loaded/unloaded)	%	34/19	31/19	29/19	23/20	21/20	35/19	32/19	30/19
Weight (oil included)	kg	8150	8900	8500	11400	12510	8150	8900	9500
Wheel capacity (loaded) front/rear	kg	11830/1320	13330/1570	14450/2050	17750/2150	20030/2480	11830/1320	13330/1570	14450/2050
Wheel capacity (unloaded) front/rear	kg	4050/4100	4005/4895	3900/5600	5360/6040	5510/7000	4050/4100	4005/4895	3900/5600

Engine specifications

Engine manufacturer/mode		Perkins 1104D-44TA (Euro IIIA Tier III and national II emission standard are satisfied)	Cummins QSB4.5(Euro IIIA EPA Tier III and national II emission standard are satisfied)
Rated power/Rotational speed	Kw/rpm		83/2200
Max. torque/Rotational speed	Nm/rpm		418/1400
Cylinder number			4
Engine displacement	L		4.4



Ast: Right angle stacking aisle width
a: Clearance



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 reduce. The load capacity of standard mast at different load center can be known from this load chart.



CPCD85	CPCD100	CPCD50	CPCD60	CPCD70	CPCD85	CPCD100	CPCD50	CPCD60	CPCD70	CP(Q)(Y)D50	CP(Q)(Y)D60	CP(Q)(Y)D70
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
430/450	350/370	510/550	510/550	500/550	400/430	330/350	450/470	440/470	420/460	425/435	425/435	425/435
WITHOUT LOAD \geq 300 WITH FULLLOAD \leq 600												
60	58	60	60	60	60	58	42	40	40	48	48	47
27/20	22/20	34/19	31/19	29/19	23/20	21/20	23/19	20/19	20/19	38/19	38/19	31/19
11400	12510	8300	9050	9650	11550	12660	8300	9050	9650	7980	8730	9330
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
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

Optional III emission standard are satisfied		ISUZU 6BG1(CHINA STAGE I)	Mitsubishi 5S5T(Euro III) EPA Tier and national emission standard are satisfied	GM 4.3
		82/2000	63.9/2300	76/2300
		415/1400~1600	285/1700	324/1700
		6	6	6
		6.494	4.29	4.3

5-7t WIDE VIEW MAST

Mast model	Max. fork height (mm)	Load capacity (load center 600mm)			Mast height, lowered	Service weight			Mast tilting angle (°) α/β
		CPCD50	CPCD60	CPCD70		CPCD50/60/70	CPCD50	CPCD60	
M200	2000	5000	6000	7000	2000	8300	9050	9650	6/12
M250	2500	5000	6000	7000	2250	8360	9110	9710	6/12
M270	2700	5000	6000	7000	2350	8390	9140	9740	6/12
M300	3000	5000	6000	7000	2500	8440	9190	9790	6/12
M330	3300	5000	6000	7000	2650	8490	9240	9840	6/12
M350	3500	5000	6000	7000	2750	8520	9270	9870	6/12
M375	3750	5000	6000	7000	2875	8560	9310	9910	6/12
M400	4000	5000	6000	7000	3050	8730	9480	10080	6/12
M425	4250	5000	6000	7000	3175	8770	9520	10120	6/12
M450	4500	5000	6000	7000	3300	8810	9560	10160	6/12
M475	4750	5000	6000	7000	3425	8850	9600	10200	6/6
M500	5000	5000	6000	7000	3550	8890	9640	10240	6/6
M550	5500	4750	5700	6600	3850	9090	9840	10440	3/6
M600	6000	4400	5400	6400	4100	9170	9920	10520	3/6

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

Mast model	Max. fork height (mm)	Load capacity (load center 600mm)			Mast height, lowered	Free lift (with backrest) (mm)	Service weight			Mast tilting angle (°) α/β
		CPCD50	CPCD60	CPCD70			CPCD50	CPCD60	CPCD70	
ZM250	2500	5000	6000	7000	2210	840	8470	9120	9820	6/12
ZM270	2700	5000	6000	7000	2310	940	8500	9150	9850	6/12
ZM300	3000	5000	6000	7000	2460	1090	8550	9200	9900	6/12
ZM330	3300	5000	6000	7000	2610	1240	8600	9250	9950	6/12
ZM350	3500	5000	6000	7000	2710	1340	8630	9280	9980	6/12
ZM375	3750	5000	6000	7000	2835	1465	8670	9320	10020	6/12
ZM400	4000	5000	6000	7000	3010	1640	8830	9480	10180	6/12
ZM425	4250	5000	6000	7000	3135	1765	8870	9520	10220	6/12
ZM450	4500	5000	6000	7000	3260	1890	8910	9560	10260	6/12
ZM475	4750	5000	6000	7000	3385	2015	8950	9600	10300	6/6
ZM500	5000	5000	6000	7000	3510	2140	8990	9640	10340	6/6
ZM550	5500	4750	5700	6700	3810	2440	9190	9840	10540	3/6
ZM600	6000	4400	5400	6400	4060	2690	9270	9920	10620	3/6

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

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

Mast model	Max. fork height (mm)	Load capacity (load center 600mm)			Mast height, lowered		Free lift (with backrest) (mm)		Service weight			Mast tilting angle (°) α / β
		CPCD50	CPCD60	CPCD70	CPCD50/60/70		CPCD50	CPCD60	CPCD70			
ZSM360	3600	4500	5600	6200	2335	910	9130	9780	10460	6/6		
ZSM400	4000	4500	5600	6200	2470	1040	9190	9840	10520	6/6		
ZSM435	4350	4500	5600	6200	2585	1156	9250	9900	10560	6/6		
ZSM480	4800	4500	5600	6200	2740	1310	9440	10090	10750	6/6		
ZSM500	5000	4500	5600	6200	2805	1380	9470	10120	10780	3/6		
ZSM540	5400	4200	5300	6000	2940	1510	9540	10190	10950	3/6		
ZSM600	6000	4000	5000	5500	3140	1710	9630	10280	11030	3/6		
ZSM650	6500	3600	4300	4500	3405	1975	9740	10350	11250	3/6		
ZSM700	7000	2800	3500	3700	3515	2085	4450	10500	11360	3/6		

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

8.5-10t WIDE VIEW MAST

Mast model	Max. fork height (mm)	Load capacity (load center 600mm)		Mast height, lowered		Service weight		Mast tilting angle (°) α / β
		CPCD85	CPCD100	CPCD85	CPCD100	CPCD85	CPCD100	
M250	2500	8500	10000	2450	2600	-	-	6/12
M270	2700	8500	10000	2550	2700	-	-	6/12
M300	3000	8500	10000	2700	2850	11550	12660	6/12
M330	3300	8500	10000	2850	3000	11610	12725	6/12
M350	3500	8500	10000	2950	3100	11650	12770	6/12
M375	3750	8500	10000	3075	3225	11690	12820	6/12
M400	4000	8500	10000	3250	3400	11900	12960	6/12
M425	4250	8500	10000	3375	3525	11950	13020	6/12
M450	4500	8500	10000	3500	3650	11990	13070	6/12
M475	4750	8200	10000	3625	3775	12040	13130	6/6
M500	5000	8200	10000	3750	3900	12090	13180	6/6
M550	5500	7850	9000	4050	4200	12330	13420	3/6
M600	6000	7400	8000	4300	4450	12420	13530	3/6

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

Mast model	Max. fork height (mm)	Load capacity (load center 600mm)		Mast height, lowered		Free lift (with backrest) (mm)		Service weight		Mast tilting angle (°) α / β
		CPCD85	CPCD100	CPCD85	CPCD100	CPCD85	CPCD100	CPCD85	CPCD100	
ZM250	2500	8500	10000	2450	2600	1090	1300	11290	-	6/12
ZM270	2700	8500	10000	2550	2700	1190	1400	11560	-	6/12
ZM300	3000	8500	10000	2700	2850	1340	1550	11675	12980	6/12
ZM330	3300	8500	10000	2850	3000	1490	1700	11720	13070	6/12
ZM350	3500	8500	10000	2950	3100	1590	1800	11780	13140	6/12
ZM375	3750	8500	10000	3075	3225	1715	1925	11840	13220	6/12
ZM400	4000	8500	10000	3250	3400	1890	2100	12090	13380	6/12
ZM425	4250	8500	10000	3375	3525	2015	2225	12160	13460	6/12
ZM450	4500	8500	10000	3500	3650	2140	2350	12230	13530	6/12
ZM475	4750	8200	10000	3625	3775	2265	2475	12300	13620	6/6
ZM500	5000	8200	10000	3750	3900	2390	2600	12370	13690	6/6
ZM550	5500	7850	9000	4050	4200	2690	2900	12670	13980	3/6
ZM600	6000	7400	8000	4300	4450	2940	3150	12810	14140	3/6

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

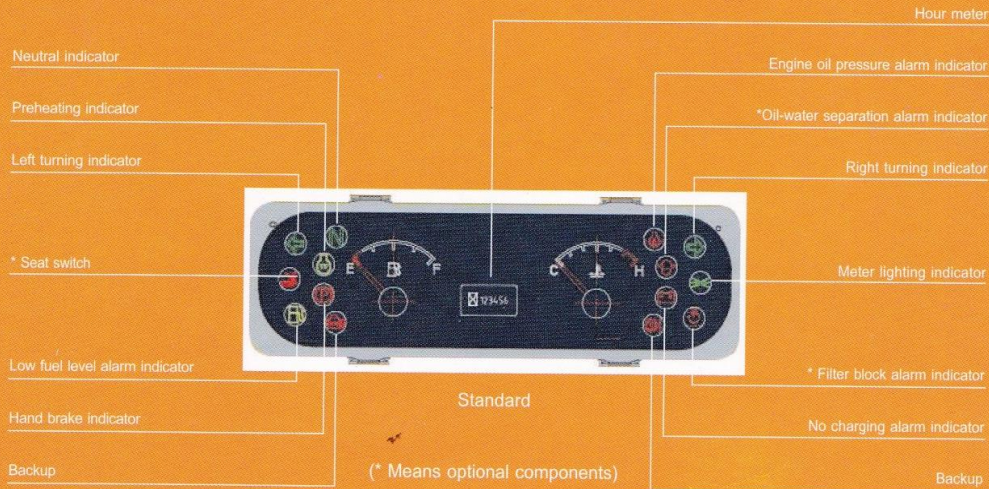
8.5-10t WIDE VIEW FULL FREE 3-STAGE MAST

Mast model	Max. fork height (mm)	Load capacity (load center 600mm)		Mast height, lowered		Free lift (with backrest) (mm)		Service weight		Mast tilting angle (°) α / β
		CPCD85	CPCD100	CPCD85	CPCD100	CPCD85	CPCD100	CPCD85	CPCD100	
ZSM360	3600	7500	8000	2450	2570	1090	1150	11940	13290	6/12
ZSM400	4000	7500	8000	2575	2700	1215	1280	12010	13350	6/12
ZSM435	4350	7500	8000	2700	2820	1340	1400	12080	13410	6/12
ZSM480	4800	7500	7500	2850	2970	1490	1550	12160	13470	6/6
ZSM500	5000	7500	7500	2950	3035	1590	1615	12230	13520	3/6
ZSM540	5400	7000	7000	3075	3225	1715	1805	12300	13590	3/6
ZSM600	6000	6400	6000	3375	3425	2015	2005	12640	13670	3/6
ZSM650	6500	5800	5600	3600	3590	2240	2170	12740	13960	3/6
ZSM700	7000	4800	-	3750	3855	2390	2435	12830	-	3/6

Note: (1) 8.5t: the free lift without backrest 172mm increased,
(2) 10t: free lift without backrest.

Note: The service weight in the table is the weight of the truck assembled with XiChai engine.

RELIABLE SPECIAL DESIGNED INSTRUMENT



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

Standard configuration

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

Optional

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



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