GLOBAL SALES NETWORK









ISO14001

ISO14001: 2004



ISO9001: 2008



HANGCHA GROUP CO., LTD.

(Zhejiang Hangcha Imp.& Exp.Co.,Ltd.)











Comfortable operation

In developing the new XF 8-10t series, comfort and easy operation is always considered, for example, inproved vibrating levels, compound engine damper and full floationg seat and cabin are applied. Comfortable also contribute to increased productivity.

• The extra foot space is provided to reduce operator fatigue significantly. The new wide-open, non-slip step makes getting in and out easy and safe.

The optional Electro-hydraulic proportional control system contributes more sensitive and precise load handling. The easy- to-operate levers provide total load handling operation. An armrest is provided to reduce fatigue.

- In addition to the soft landing system, the soft lifting system is adopted (front lifting cylinders of triplex mast and full free duplex mast), as a result, the noise and shock of the mast significantly decreases.
- The new design mast provides broad forward visibility due to outside located hydraulic pipes of fork positioner.
- 4 The patent plated-fin type aluminum radiator is applied, the heat exchanging is approved, and improves the capability for operation in severe environment.
- There're four levels shock absorption applied to reduced the vibration from the road to the driver. The damping pad is applied reduce the vibration, Like between the steering axle and the chassis, The engine, torque convertor and the chassis, the overhead guard and the chassis. And the suspension seat is another vibration reduction.

6 The new, relocated easy- to-see LCD meter lets the operator check on all aspects of operational status at a glance.

The new automobile-style light/turn-signal lever and forward-reverse lever are ergonomically designed and arranged to improve comfort and productivity.

The small diameter steering wheel with tilt adjustment provides the ideal operating position. The superior responsiveness of the steering wheel optimizes maneuverability even in narrow spaces.

Only 90N parking brake force is required.

The automobile-style suspended pedals provide more ergonomic operation.



Environmental Friendliness

Environmentally friendly material, low exhaust emission, and low noise level, all these are considered at the beginning of the product development.

Special developed engine is applied for optimum balance of power and superior environmental performance. All diesel engines are in compliance with EU stage-III control regulation.

The environment friendly materials, such as non-asbestosbrake shoe and new type sealing gasket, are adopted entirely to meet environmental safety.



The applied optimized exhaust muffler, intake muffler and the noise shield technologies are reduced 3dB at the driver's ear noise level.



Productivity

Thanks to the series technological innovations, the efficiency of the truck is improved, the energy consumption is reduced.

The new patent dynamic load sensing hydraulic steering system contributes to reduce loss of hydraulic, improve energy consumption and increase 15% lifting speed.

12 The new efficiency LED lighting system and new type reflector reduce energy consumption, improve illumination performance and prolong working life.

By optimizing transmission design, the power train provides higher efficiency, and the Max. driving speed is increased 20%.

Reliability

By focusing on enhancing reliability, reducing downtime, the XF series is able to make the greater productivity for customer.

- (8) High strength chassis, mast and front/rear axle are to make sure the reliability of the truck, even for high strength application.
- 41 All the controllers, relays, and safety fuses are allocated in the controller box, free to water and dust. The main electronic components are waterproof, which is capable operater in severe environment.
- Add return oil filter of gearbox and multi-valve,improving the cleaness of transmission and hydraulic oil.

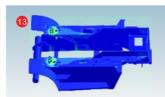




















old design





Lifting speed





The battery is located above the fuel tank, there're battery box and adiabatic plate between them to prolong the battery's working life



17 The new stamped air cleaner featuring tangential intake, double seal with safety filter is durable, corrosion-free and vibration-resistant, provides better filter efficiency and lower intake resistance than the previous.



Safety

A wide range of technologies are applied to ensure absolute safety for both the operator and those in the surrounding.

Seperating braking and steering circuit, no interference.

- There's an energy accumulator applied in the braking system, which means when the engine is shut down, it can also provides more than 4 times emergency brake.
- The locking device of the engine hood damper and parking brake help add to safety.





Easy maintenance

Careful design facilitates inspection and servicing. Easy maintenance reduces the amount of downtime and helps to reduce cost also.

- ② Brake drum is installed outside of wheel hub, easy to remove and install when we replace the brake shoes.
- The location of the air-filter is easy to reach, and it's very easy to replace the filter.

All the locations of the engine oil level dipstick, filter of hydraulic, water separator are easy to reach, and very easy to check.

There's gas spring support for the front cover of radiator, and it can auto-open when the rear cover of radiator is opened.





- 2) The seat sensor system incorporates lifting/ tilting and traveling locking function. When the operator leaves the seat, the system automatically locks lifting/tilting and disables traveling to ensure safety.
- 2 A throttling device is adopted to avoid the mast being out of control even some pipes are broken.



Standards

Transmission	Steering	Chassiss	Control	Hydraulic		
Suspension transmission Oil filter Dipstick Oil cooler Non-asbesttos brake Drum brake	Full hydraulic power steering Smaller diameter steering wheel Adjuster of steering wheel Shock absorber of steering axle	Skidproof pedal Rubber pedal Engine hood spring	Power steering Suspension pedal Integrated combination switch Parking brake	Dynamic load sensing control valve Hydraulic oil filter Tilt cylinder self-lock valve Hydraulic oil dipstick Accumulator Hydraulic oil radiator		

Truck	Power	Electronics	Mast		
Traction device Hand grip Standard seat Floating overhead guard Waterproof cover on the guard Back view mirror Pneumatic tyres Toolbox	Big capacity aluminum radiator Whirlwind air cleaner Safety filter High-efficient intake muffler High-efficient exhaust muffler Middle-positioned exhaust system	High-efficient front lights High-efficient LED rear lights Service-free start battery Combination controller LCD display Neutual switch Hour meter Fuel gauge	Pre-heat indicator Charging indicator Engine fuel pressure warning Oil temperature Horn Reversing buzzer Air-filter with jam sensor Emergency power off	Standard wide view duplex mas Standard forks Standard fork carriage Mast speed limiting valve Load safety valve Mast down buffer device Mast up buffer device Side roller Fork positioner	

Options

Boot for tilt cylinder Counter weight net

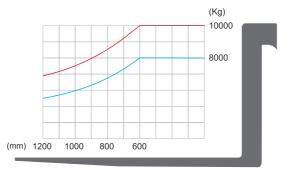
Seat sensor system

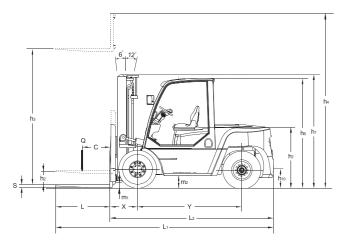
Truck	Transmission	Power	Hydraulic	Electronics	Mast		
Floating cabin Cabin heater Front window Super elastic tyre Non-mark tyre(white/green) Suspension seat Extinguisher	Wet brake	Upright exhaust system Air pre-cleaner Net cover of radiator Spark arrester Purified exhaust system Fan protector	Auxiliary hydraulic valve Elecctro-hydraulic Proportional control system	OBD Front working light Rear working light Warning lamp	Duplex wide view free-lift mast Triplex wide view free-lift mast Special forks Wider fork carriage Wider load back rest		

Optional attachments

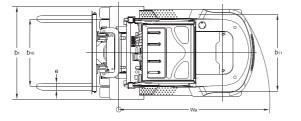
Paper roll clamp	Sideshifter
Rotating bale clamp	Rotating forks
Load stabilizer	Fork extensioner
Multi-drum clamp	Load release dev
Bale clamp	Carton clamp
Drum clamp	Push-pull device
Dumping clamp	Bucket
Crane arm	Hook
String Pole	Lengthened fork

LOAD CHART





DIMENSIONS



XF series 8.0-12.0t forklift specification:

/ i oc	5110	es 6.0-12.0t lorkilit specification								
				CPCD80-XW28	CPCD100-XW28	CPCD80-XW48 HANGCHA	CPCD100-XW48	CPCD120-XXW		
	. 1	Manufacturer								
<u>ş</u>										
. <u>s</u> 1.	. 3	Drive			Diesel					
act	_	1 1 9	0(1)			Seat				
Characteristics	. 5	Load capacity	Q(kg)	8000	10000	8000	10000	12000		
			c(mm)			600				
1.	. 8	Load distance, centre of drive axle to fork	x (mm)	705	732	705	732	739		
			y (mm)	2500	2800	2500	2800	2800		
Sylvania Syl	. 1	Service weight	kg	11200	13000	11200	13000	14300		
, je			kg	17280/1920	20940/2060	17280/1920	20940/2060	24100/2200		
> 2.	. 3	Axle loading, unladen front/rear	kg	4480/6720	6040/6960	4480/6720	6040/6960	6220/8080		
υ		Tyrus foot		pneumatic 9.00-20-14PR						
, <u>E</u> 3.	. 2	Tyre size, front								
SS	_	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\								
3.5	. 5	Wheels, number front rear (x = driven wheels)	1.40()	4χ/2 1630						
Wheels&Tyres 3.			b10 (mm)		17	1628		.===		
3.	. 7	Tread, rear	b11 (mm)		1722					
			Grad			6/12				
4.	. 2	Height, mast lowered	h1 (mm)	2700	2850	2700 200	2850	3000		
			h2 (mm)							
4.	. 4	Lift	h3 (mm)	4405		3000				
			h4 (mm)	4195	4545	4195	4545	4705		
4.	. 7	Height of overhead guard	h6 (mm)			2580				
			h7 (mm)	1505						
	12	Coupling height	h10 (mm)			505				
Simensions 4.			I1 (mm)	5395	5742	5395	5742	5849		
ğ 4.	20	Length to face of forks	I2 (mm)	3895	4242	3895	4242	4349		
ae			b1 (mm)	2165						
	. 22	Fork dimensions	s/e/I(mm)	75×160×1500	80×160×1500	75×160×1500	80×160×1500	80×200×150		
4	. 24	Fork-carriage width	b3 (mm)							
4.	. 24	Tork carriage with	m1 (mm)	185	190	1950 185	190	250		
4	. 32	Ground clearance, centre of wheelbase	m2 (mm)	105	190	339	190	230		
4.	. 32	Ground clearance, centre or wheelbase	Ast (mm)	5535	5826	5535	5826	5933		
4	. 34	Aisle width for pallets 800×1200 long*	Ast (mm)	5735	6026	5735	6026	6133		
4.	. 54	Alsie width for paliets 500 × 1200 forig.	Wa (mm)	3630	3940	3630	3940	4040		
1	. 36	Internal turning radius	b13 (mm)	1327	1396	1327	1396	1396		
4.	. 30	internal turning radius	km/h	32	31	32	31	27		
g	. 2	Lift speed, laden	mm/s	440	330	440	330	360		
5.	. ∠	Liit speed, ladeli	mm/s	440	330	455	330	360		
E E	. 5	Drawbar pull, laden/unden	N N	65000/45000	65000/49000	65000/45000	65000/49000	72000/49000		
Performance	. 5	Drawbar puli, laueri/ uriueri	IN	63000/43000	65000/49000	>20	65000/49000	72000/49000		
	. 8	Service brake				Hydraulic				
5.	. 0	Service brake		•				10		
		Engine standard		Cummins QSB4.5-C110 Cummins QSB4.5-1			10			
<u> </u>		Linging Standard	kW	Stage III A Stage III B						
eugine 7.	2	Poted speed		82						
7.	. 3	Rated speed	rpm	2200						
	2	Operating pressure for ettechments	cm ³			4/4500		045		
(i)	. 2	Operating pressure for attachments	bar		19			215		
₽ 8.	. 3	Oil volume for attachments				180				
0.	. 4	Towing coupling, type DIN		Pin						

^{*} aisle width calculation based on VDI 2198

8.0-10.0t XF series mast:(pneumatic)

Type	Model			Overall heigh	t	Fre	e lift		Tilt range		Capacity	
		Max. fork	Extended		ided		Load distance,		Load capacity at 600 mm			
		height	Lowered	Without	Without With	Without backrest	With	centre of drive axle to fork	FWD/BWD	Double tire		
				backrest	backrest					8t	10t	121
		mm	mm	mm	mm	mm	mm	mm	(°)	kg	kg	kg
	X80M250	2500	2450	3710	/	200	/	714	6/12	8000	/	1
	X80M270	2700	2550	3910		200	//	714	6/12	8000	/	/
	X80M300	3000	2700	4210	/	200	/	714	6/12	8000	/	/
	X80M330	3300	2850	4510	/	200	/	714	6/12	8000	/	- 4
	X80M350	3500	2950	4710	/	200	/	714	6/12	8000	/	
	X80M360	3600	3000	4810	/	200	- /-	714	6/12	8000	/	- /
	X80M400	4000	3200	5210	/	200	- /-	714	6/12	8000	/	- 4
. –	X80M430	4300	3400	5510	- /-	200	- /-	714	6/6	8000	/	- /
	X80M450	4500	3500	5710	- /	200	- /-	714	6/6	8000	/,	-
	X80M480	4800	3650	6010	- /,	200	- /	714	6/6	8000	/,	- 4
	X80M500	5000	3750	6210	- /-	200		714	6/6	8000	/,	-
<u> </u>	X80M550	5500	4050	6740	- /	200	- /-	714	3/6	7400	- /	- /
-	X80M600	6000	4300	7240	- /	200	- /,	714	3/6	7000	/,	-
i –	X80M650	6500	4600	7790		200		714	3/6	5800	10000	- /
	X100M250	2500	2600	4055	- /	200	- /-	726	6/12		10000	-
2	X100M270	2700	2700	4255	- /,	200		726	6/12		10000	-
: -	X100M300	3000	2850 3000	4555	-/-	200	- /,	726	6/12		10000	-
3	X100M330	3300	3000	4855	-/-	200	- /,	726	6/12	/	10000	-/
: -	X100M350	3500	3100	5055	/	200	- /,	726	6/12	-/,		-
	X100M360	3600	3150	5155	-/,	200	- /,	726	6/12		10000	- /
	X100M400	4000	3350	5555	-/-	200		726	6/12	-/-	10000	- /
	X100M430	4300 4500	3550	5855	- /,	200	- /-	726	6/6		10000	-
	X100M450		3650	6055	-/-	200	/	726	6/6	-/-	10000	-
	X100M480	4800	3800	6355	-/-	200	- /,	726	6/6	/	10000	- /
	X100M500	5000	3900	6555	/	200	- /	726	6/6	-/-	9000	-
	X100M550	5500 6000	4200	7055	- /,	200	- /-	726	3/6		8000	- /
	X100M600 X100M650	6500	4450	7555 8055	- /	200	- /,	726 726	3/6 3/6	-/-	6700	-
		3000	4750 3000		- /,	200		720	3/6		0700	120
	XX120M300	2300	3000	4705	-/-	200	/	739	6/12	8000	/	120
	X80U230	2500	2350	3505	- /	1145	- /-	719	6/12	8000	/	- /
5	X80U250 X80U270	2500 2700	2450 2550	3705 3905	- /	1245 1345	- /	719	6/12	8000	/	-
3	X80U300	3000	2700	4205	- /,		- /-	719 719	6/12	8000	- /	-
	X80U300	3300	2850	4505	-/-	1495 1645	/	719	6/12	8000	/	-
5	X80U360	3600	3000	4805	- /		- /-		6/12	8000	/	- 1
<u> </u>	X80U400	4000	3200		,	1795	- /-	719	6/12	8000	-/-	
	X100U230	2300	2500	5205 3845	- /	1995 955	- /-	719 744	6/12 6/12	0000	10000	- /
í –	X100U250	2500	2600	4045	-/-	1055	- /	744	6/12	-/-	10000	
j -	X1000250 X100U270	2700	2700	4245	- /	1155	- /-	744	6/12	-/-	10000	- 1
	X100U270 X100U300	3000	2850	4545	- /	1305	/	744	6/12	-/-	10000	
5	X100U330	3300	3000	4845	-/-	1455	/	744	6/12	-/-	10000	- /
-	X100U360	3600	3150	5145	/	1605	1	744	6/12	-/	10000	-
	X100U300 X100U400	4000	3350	5545	- /	1805	- /-	744	6/12	-/-	10000	
	X80N450	4500	2750	5775	/	1485	/	759	6/6	7000	10000	-
	X80N480	4800	2850	6075	-/-	1585	/	759	6/6	7000	1	-
:	X80N500	5000	2950	6360	/	1600	/	759	6/6	6500	/	
	X80N550	5500	3100	6810	/	1800	/	759	3/6	6100	/	
	X80N600	6000	3250	7275	/	1985	/	759	3/6	5600	/	
	X80N650	6500	3530	7840	/	2200	/	759	3/6	5000	1	
<u> </u>	X80N700	7000	3700	8310	/	2400	/	759	3/6	4200	/	
	X100N450	4500	2850	6055	/	1305	/	794	6/6		8500	
,	X100N480	4800	2950	6355	/	1405	/	794	6/6		8500	
2	X100N500	5000	3050	6555	/	1505	/	794	6/6		8200	
	X100N550	5500	3200	7055	/	1655	/	794	3/6	-/-	7700	
5	X100N600	6000	3350	7555	/	1805	/	794	3/6	-/	7000	
-	X100N650	6500	3630	8055	/	2085	/	794	3/6	-/-	6200	
	X100N030 X100N700	7000	3800	8555	/	2255	/	794	3/6		5200	

With sideshifter minus 500Kg, with integral sideshifter minus 400kg