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ISO14001
ISO14001:2015



ISO9001
ISO9001:2015



HANGCHA trucks conform
to the European Safety
Requirements.

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X Series Diesel / Gasoline / LPG Counterbalanced Forklift Trucks

with capacities of 1,500 to 3,800kg

The World of Hangcha



X Series

Diesel / Gasoline / LPG
Counterbalanced
Forklift Trucks



Innovation design

The X series is the new series of internal combustion counterbalance forklift truck developed by Hangcha independently, adopting the world advanced technologies based on the original products. Through the comprehensive upgrading of appearance molding, energy conservation, environmental friendly, comfort, security and reliability, it will become the world-class forklift truck which can meet your overall demands.

Strong appearance and visual impact

The appearance of full truck is developed under the cooperation with professional industrial design company by adopting the appearance design methods of brand-new concept. The streamlined surface modeling design brings smooth lines, elegant appearance, vigorous and steady surface as well as the outstanding inherence, possessing the powerful visual impact.

The truck is small, exquisite and concise. which adopting the newly designed parts with opening mould at large area, the appearance of full vehicle will be more humanized.



The new designed mast increase forward visibility 15%



Noise ↓ 3dB



Legroom ↑ 30%



High pressure common rail electronic-controlled engine provide lower failure rate (Common rail engine)



Floating structure decrease the vibration by 10%



Exhaust emission ↓ 35% (Common rail engine)



Grade-speed ability ↑ 10% (Common rail engine)



Aluminous plate-fin radiator provides stronger structure



Prolong the service life of steering axle 20%



Fuel consumption ↓ 10% (Common rail engine)



Better cold starting performance (Common rail engine)



Water temp ↓ 10 C, oil temp ↓ 10%

Energy conservation and Environmental friendly



The high pressure common rail electronic-controlled engine which adopts high pressure multiple injections technology to ensure the strong power take-off, lower emission and better cold starting performance; saving the 10% of energy consumption.



The whole truck adopts LED lights as shiner and new-type panoramic retroreflector to ensure energy conservation and power saving as well as greatly improve the performance and service life of luminaires at the same time.

The truck all adopt the environmental friendly material to reduce environmental hazards.

Maintenance

Integral locking pin structure on the hood can be opened without tool, which is convenient for daily repair and maintenance.



Adoption of new generation integrated electric box makes maintenance and repair convenient, layout becomes more reasonable and with better water-proof performance.

The enlarged opening angle of hood and increase of left and right hood side plates can provide you with convenient and rapid maintenance mode.



Newly-developed LCD instrument has more comprehensive functions and more stable performance and entirely displays the full truck state, fault code and other important information, which can make the operator more intuitively and conveniently have a better knowledge of truck state and make the maintenance conveniently.

Fully improved reliability And security



1. The radiator adopts aluminous plate-fin radiator with better performance and higher structural strength independent oil radiator, optimized oil and water heat dissipation channel and double ventilation holes on counterweight can greatly improve cooling efficiency and reliability of overloaded operation and ensure reliable operation of the engine.

2. 2.0~3.8t roller bearing on the steering axle king pin adopts large size tapered roller bearing (TRB), larger steering cylinder and bumper block assemblies on the top, which can prolong the service life of bearing and highly improve the reliability of steering axle.

3. Overhead guard adopts special-shaped steel tube, which can reinforce the strength and improve sealing of the cab.

4. Optimized hydraulic breather structure and integrated with return oil filter can prolong the service life of hydraulic pressure system.



Comfort

Option of the most advanced full floating structure in the world can minimize the vibration of full truck and support more superior buffer, micro-motion and starting functions at the same time. With several imported engines, they can constitute more perfect engine-transmission system.

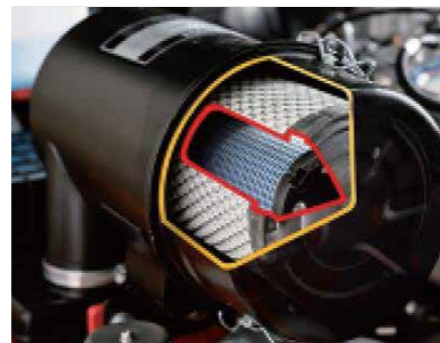
Reduce the caster angle of instrument stand and adopt the integral hood to greatly increase the space underfoot; The orthodrome of overhead guard fore leg will expand the driving space;



Adopt the new-type of box iron. Increase the inside width of inner mast and the spacing between lifting cylinders. The lowering of instruments in the cabin will greatly increase the forward visibility; The rear visibility will also be greatly improved through the optimization design of counterweight.



The design of steering wheel of small diameter and electro-hydraulic reversing as well as the car-type double-handle combination switch will greatly improve the driving comfort.



Optimized air intake and exhaust system, high-capacity exhaust silencer and high-effect intake muffler will reduce the noise of full truck by 3dB and reduce the vibration by 20%.

Intelligentized management system (option)

Reserved plug of extending function of Intelligent module is on the wire bundles that makes truck management more convenient and rapid.



Standard Specification

- / Cover of tilt cylinder
- / Traction device
- / LED working light
- / Hydraulic oil filter
- / Electric Flameout
- / Seat with belt
- / Skidproof pedal
- / Air filter
- / Hydraulic oil dipstick
- / Mast speed limiting valve
- / Full hydraulic power steering
- / Wide view duplex mast
- / Standard forks
- / Standard overhead guard
- / Rear combination LED light
- / Panoramic rearview mirror
- / Filf folder
- / Adjustable steering column
- / Pre-heating indicator
- / Engine fuel pressure warning
- / Neutral switch
- / Engine hood spring
- / Dipstick
- / Pneumatic tyres
- / Standard load backrest
- / Horn
- / Fuel gauge
- / LCD display
- / Cable parking brake
- / Tilt cylinder self-locking valve
- / Fork carriage mounting class II(III)
- / Timer
- / Load safety valve
- / Charging indicator
- / Water temperature gauge
- / Toolbox
- / Reversing buzzer
- / Return oil filter
- / Hand grip
- / Integrated controller
- / Oil-water separator
- / Engine fault warning
- / Rubber pedal
- / 2nd hydraulic function
- / Transmission oil temperature warning
- / Dynamic load sensing system (for desel engine)

Optional Mast

- / Duplex wide view full free mast
- / Trilex wide view full free mast
- / Special duplex wide view mast
- / Wider fork carriage
- / Special forks

Options

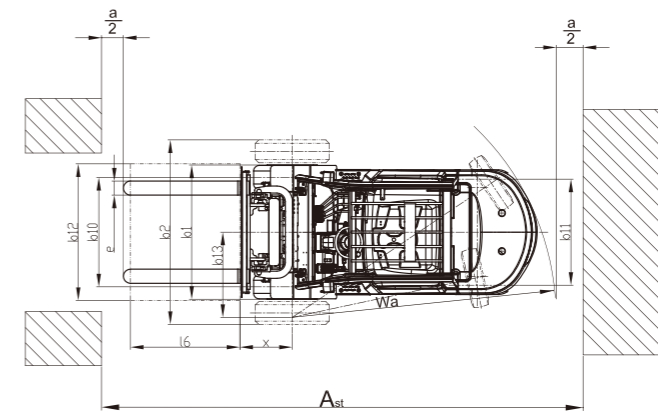
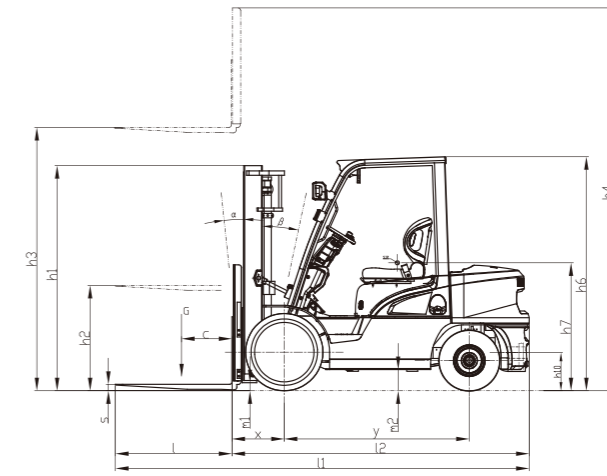
- / Dual driving wheel
- / Cabin
- / High-positioned exhaust system
- / Customer painting
- / Cabin heater
- / LED rear working light
- / Hood lock
- / Double heat insulating pad and leather cover
- / Net cover of radiator
- / Solid tyre
- / Non-mark tyre (white/green)
- / Middle-positioned exhaust system
- / Sparkle arrester
- / Suspension seat
- / Purified exhaust system
- / Fuel tank lock
- / Speed meter
- / Auxilliary hydraulic valve
- / Extinguisher
- / Reversing assist grip with horn button
- / Counter weight net
- / Height of overhead guard
- / Dual air filter
- / Milometer
- / Speed limiter (Electronic-Controlled engine)
- / Emergency switch
- / Fan protector
- / Over-speed alarm
- / Warning light
- / OPS system
- / Waterproof cover on the guard

Optional Attachments

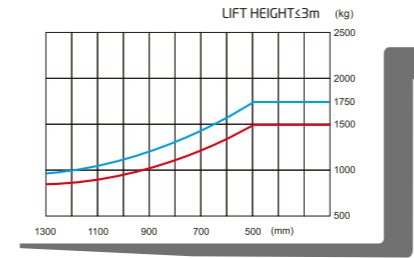
- / Paper roll clamp
- / Rotating bale clamp
- / Load stabilizer
- / Multi-drum clamp
- / Bale clamp
- / Drum clamp
- / Dumping clamp
- / Crane arm
- / String pole
- / Weigher system
- / Sideshifter
- / Rotating forks
- / Fork extensioner
- / Load release device
- / Carton clamp
- / Push-pull device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

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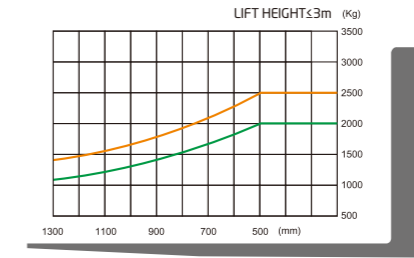
		HANGCHA GROUP CO.,LTD.								
Distinguishing mark	1.1	Manufacturer								
	1.2	Manufacturer's type designation								
Weight	1.3	Drive: electric (battery or mains), diesel, petrol, fuel gas								
	1.4	Operator type: hand, pedestrian, standing, seated, order-picker								
Tyres, chassis	1.5	Rated capacity/rated load								
	1.6	Load centre distance								
Dimensions	1.8	Load distance, centre of drive axle to fork								
	1.9	Wheelbase								
Performance data	2.1	Service Weight								
	2.2	Axle loading, laden front/rear								
Combustion-engine	2.3	Axle loading, unladen front/rear								
	3.1	Tyres: solid rubber, superelastic, pneumatic, polyurethane								
Addition data	3.2	Tyre size, front								
	3.3	Tyre size, rear								
Performance data	3.5	Wheels, number front / rear (x = driven wheels)								
	3.6	Tread, front								
Dimensions	3.7	Tread, rear								
	4.1	Tilt of mast/fork carriage forward/backward								
Performance data	4.2	Height, mast lowered								
	4.3	Free lift								
Dimensions	4.4	Lift								
	4.5	Height, mast extended								
Performance data	4.7	Height of overhead guard (cabin)								
	4.8	Seat height relating to SIP								
Dimensions	4.1.2	Coupling height								
	4.1.9	Overall length								
Performance data	4.2.0	Length to face of forks								
	4.2.1	Overall width								
Dimensions	4.2.2	Fork dimensions								
	4.2.3	Fork carriage DIN 15 173 --- ISO 2328, class/type A,B								
Performance data	4.2.4	Fork-carriage width								
	4.2.5	Distance between fork-arms								
Dimensions	4.3.1	Ground clearance, laden, below mast								
	4.3.2	Ground clearance, centre of wheelbase								
Performance data	4.3.4.1	Aisle width for pallets 1000 x 1200 crossways								
	4.3.4.2	Aisle width for pallets 800 x 1200 lengthways								
Dimensions	4.3.5	Turning radius								
	4.3.6	Minimum pivoting point distance								
Performance data	5.1	Travel speed, laden/unladen								
	5.2	Lift speed, laden/unladen								
Performance data	5.3	Lowering speed, laden/unladen								
	5.5	Drawbar pull, laden/unladen								
Performance data	5.7	Gradeability, laden/unladen								
	5.1.0	Service brake								
Performance data			Parking brake							
	Combustion-engine	7.1	Engine manufacturer/type							
7.2		Engine power								
Performance data	7.3	Rated speed								
	7.4	Number of cylinders/displacement								
Performance data	7.9	Vehicle electrical system voltage								
	7.1.0	Battery voltage/nominal capacity								
Performance data			Rated torque							
			Transmissions Manufacturer							
Performance data			Transmissions Type							
			Stage FWD/RVS							
Addition data	10.1	Operating pressure for attachments								
	10.2	Oil volume for attachments								
Performance data	10.3	Hydraulic Tank - capacity (drain & refill)								
	10.4	Fuel tank capacity								
Performance data	10.7	Sound pressure level at the driver's seat								



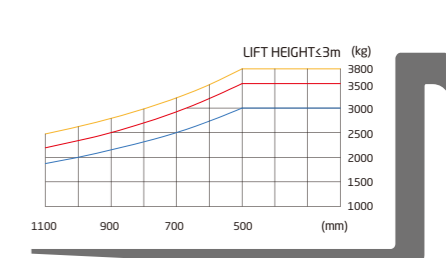
$$A_{st} = L_6 + X + W_a + a \quad a = 200\text{mm}$$



1.5/1.8t



2.0/2.5t



3.0~3.8t

Optional Engine / Transmission

Engine	Engine manufacturer/type		XINCHAI/4D27XG30	YANMAR/4TNE92	ISUZU/C240NKFC	YANMAR/4TNV94L-BXPHZ	XINCHAI/4D27XG40	XINCHAI/4D32XG40	XINCHAI/4D32XG30	XINCHAI/C490BPG	CUMMINS/QSF2.8t3NA49	YANMAR/4TNE98	mitsubishi/S4S-DPEU2	ISUZU/GK-4JG2NKFC-01	GCT/K21	GCT/K25	GCT/K21 LPG	GCT/K25 LPG	
	Manufacturer's type designation		W91	W32	W10	W56	G71J	G72J	W92	G2	W43	W33	W55	W73	W21	W22	W51	W52	
Transmission	Drive		Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Gasoline Gasoline/LPG	Gasoline Gasoline/LPG	LPG	LPG		
	Emission STD		UNECE Stage IIIA	StageIIIA	StageIIIA	StageIIIA	/	/	UNECE Stage IIIA	/	StageIIIA	StageIIIA	StageIIIA	StageIIIA					
Engine power		kw/r/min	34/2500	32.8/2450	35.4/2500	34.6/2400	34/2500	36.8/2500	36.8/2500	40/2650	36/2500	42.1/2300	35.3/2250	35.0/2450	31.2/2250	37.4/2500	29/2250	35/2400	
Rated torque		Nm/r/min	140/1600-1800	149/1600	139.9/1800	191.5-208.5/1500	140/1600-1800	186/1600-1800	186/1600-1800	160/1800-2000	186/1100-1500	206/1700	177/1700	170/1700	143.7/1600	176.5/1600	140/1600	170/1600	
Number of cylinders/displacement		ml	4/2670	4/2659	4/2369	4/3054	4/2670	4/3168	4/3168	4/2670	4/2800	4/3319	4/3331	4/3059	4/2064	4/2488	4/2065	4/2488	
Transmission	Powershift	CHINA	X	X	✓	X	✓	✓	X	✓	X	X	X	✓	✓	✓	X	X	
		F(CHINA)	F	✓	✓	✓	✓	✓	✓	X	✓	✓	✓	✓	✓	✓	✓	✓	✓
		OKAMURA(JAPAN)	B	X	✓	✓	✓	✓	X	X	✓	✓	✓	✓	✓	✓	✓	✓	✓
Rated capacity/rated load		Q (kg)	1500-1750	1500-1750	1500-3000	2000-3800	1500-1750	2000-3800	2000-3800	2000-3800	2000-3800	2000-3800	2000-3500	2000-3800	1500-1750	2000-3800	1500-1750	2000-3800	

