



X Series Diesel Forklift Truck For Work In Container

with capacities of 5,000 to 10,000kg



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ISO45001
ISO45001:2018



ISO14001
ISO14001:2015



ISO9001
ISO9001:2015



HANGCHA trucks conform
to the European Safety
Requirements.

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The World of Hangcha
SINCE 1956





Vehicle features

- / The vehicle is designed to have a sturdy exterior with novel streamlined curved surfaces and a prominent and innovative inside.
- / With a free duplex mast for the standard configuration and optional masts of multiple specifications for inside-container operations, the highly-adaptable vehicle has a low height and a narrow body appropriate to inside-container operations and meets the other requirements for operations in low and narrow environments.
- / With a heat dissipation system equipped with an integrated aluminum plate-fin heat dissipater, a standard hydraulic oil heat dissipater with a good heat dissipation effect, and an air duct with optimized design, the oil temperature of the torque converter, the water temperature of the engine and the hydraulic oil temperature can be reduced by 5°C~15°C.
- / With a ceramic-plated cavity, the gear pump has a doubled life and can meet the requirements of harsh operating conditions. By increasing the operation efficiency of the hydraulic system and the displacement of the gear pump, the lifting speed can be increased by 20%.
- / With a large-capacity torque converter and a port transmission with a life increased by 30% and fuel consumption reduced by 5%, the vehicle has a driving speed increased by 15%.
- / With the new ergonomic design and the mast with a forward tilt angle increased by 10° to improve operating safety.
- / Bosch-Yuchai high-pressure common-rail engine.
- / Active safety and IoT technologies independently developed by Hangcha Group and a standard smart module are used to enable a higher operation efficiency of the forklift and a lower use cost of the customer.

Vehicle warranty period

- / The warranty period is prolonged to 2 years or 4000 hours (except for vulnerable parts), where the expiring period will prevail.

Vehicle-mounted video system

- / The 8.5-10t vehicle is equipped with a front and rear cameras—equipped with a vehicle-mounted video system for the standard configuration to broaden the front and rear operating views.

LCD instruments with clear display

- / The newly developed LCD instruments have more comprehensive functions and more stable performance and can completely display important information such as the running status of the vehicle, engine failure, etc., so that the operator can more clearly know the status of the vehicle and the maintenance becomes easier.

New-generation integrated electrical box

- / A new-generation integrated electrical box with reasonable layout is used, which can be maintained and repaired easily and has better waterproof performance.

The vehicle can operate inside a container

- / The vehicle has a low height and a narrow body appropriate to inside-container operations and meets the other requirements for operations in low and narrow environments.



A wide-view mast system is used, the opening of the mast is widened, and the dashboard in the cab is lowered, so that the front view of the driver is broadened significantly



The compact large-space ergonomic cab enables comfortable operations



With a high-pressure multiple injection technology, the Bosch-Yuchai high-pressure common-rail engine for the standard configuration has strong output power, less smoke emission, better cold start performance and energy consumption reduced by 10%



A plate-fin heat dissipater with high-performance fins is used to enable low oil and water temperature without water and oil leakage



The novel high-flow air filter with a safety filter cartridge to enable cleaner air intake and higher power of the engine

Standard Specification

- / Standard thin-cushioned seat
- / Standard fork
- / Hanging fork carriage (5-7t)
- / Skewer-equipped fork carriage without positioned (8.5-10t)
- / Standard load backrest (5-7t)
- / Container spec overhead guard
- / Rainproof overhead guard cover
- / 2.5m free duplex mast (5-7t)
- / 2.1m free duplex mast (8.5-10t)
- / Neutral gear safety switch
- / Drum brake
- / Traction device
- / Mid-position emission device
- / Vehicle-mounted video system (8.5-10t)
- / Electro-hydraulic steering
- / Fully hydraulic power steering
- / Vacuum-assisted braking (5-7t)
- / Power braking (8.5-10t)
- / Single front wheel (5-7t)
- / Steering wheel adjusting device
- / Cable-type stop brake
- / Anti-skid boarding step
- / Tilt cylinder jacket
- / Boarding handle
- / Large rubber pedal pad
- / Air filter
- / Rearview mirror
- / Engine hood gas spring
- / Hydraulic oil dipstick
- / Self-locking valve in the tilting fuel circuit
- / Port transmission
- / Speed limit valve in the lifting fuel circuit
- / Transmission oil fine-filter
- / Two-piece multiway valve
- / Hydraulic oil suction filter cartridge
- / Electric horn
- / Reverse buzzer
- / Combination headlight (LED)
- / Front operation light (LED)
- / Combination tail light (LED)
- / Water temperature meter
- / Engine hour counter
- / Oil gauge
- / Preheating indicator
- / Charge indicator
- / Engine oil pressure alarm light
- / Air cleaner alarm indicator
- / Oil-water separator indicator
- / Electric flameout
- / Accumulator pressure alarm (8.5-10t)
- / Maintenance reminder
- / Smart module
- / Bosch-Yuchai high-pressure common-rail engine



Options

- / Cab (heater/air conditioner)
- / Solid tire
- / Clean tire (white/green)
- / User specified color
- / Imported brake (5-7t)
- / Fuel tank cap locked
- / Double air filters
- / Lockable hood
- / Engine fan shroud
- / Blue light
- / Alarm light
- / Fire extinguisher
- / Rear LED operation light
- / Main power switch
- / Rear armrest with a horn button
- / Speed limit alarm device
- / Automatic gear shifting system
- / 2.4m wide-view duplex mast (5-7t)
- / 3.6m free triplex mast (5-7t)
- / 2m wide-view duplex mast (8.5-10t)
- / Special fork
- / Side shift fork
- / Independently-adjustable fork
- / Side shift adjustable fork
- / Paper roll clamp
- / Soft package clamp
- / Boom
- / Tie rod
- / Fork sleeve
- / Tire clamp
- / Vehicle toolkit



X Series 5.0-10t Diesel Forklift Truck For Work In Container Specification

Distinguishing mark	HANGCHA GROUP CO.,LTD.								
	1.1	1.2	1.3	1.4	1.5	1.6	1.7		
1.1	Manufacturer	HANGCHA GROUP CO.,LTD.							
1.2	Manufacturer's type designation	CPCD50-XRG77-X	CPCD60-XRG77-X	CPCD70-XRG77-X	CPCD85-XRG77-X	CPCD100-XRG77-X			
1.3	Drive	Diesel	Diesel	Diesel	Diesel	Diesel			
1.4	Operator type	Seated	Seated	Seated	Seated	Seated			
1.5	Load capacity/rated load	Q (kg)	5000	6000	7000	8500	10000		
1.6	Load centre distance	c(mm)	600	600	600	600	600		
1.8	Load distance, centre of drive axle to fork	x(mm)	625	625	630	725	725		
1.9	Wheelbase	y(mm)	2300	2300	2300	2500	2800		
Weight	2.1	Service weight	kg	8100	8650	9355	10400	11900	
	2.2	Axle loading, laden front/rear	kg	11450/1650	12890/1760	14730/1625	17240/1660	19970/1930	
	2.3	Axle loading, unladen front/rear	kg	3830/4270	3780/4870	3885/5470	4660/5740	5300/6600	
Tyres, chassis	3.1	Tyres		pneumatic	pneumatic	pneumatic	pneumatic	pneumatic	
	3.2	Tyre size, front		355/65-15-24PR	355/65-15-24PR	355/65-15-24PR	8.25-20-14PR	8.25-20-14PR	
	3.3	Tyre size, rear		8.25-15-14PR	8.25-15-14PR	8.25-15-14PR	9.00-16-14PR	9.00-16-14PR	
	3.5	Wheels, number front rear (x = driven wheels)		2x/2	2x/2	2x/2	4x/2	4x/2	
	3.6	Tread, front	b10 (mm)	1386	1386	1386	1430	1430	
	3.7	Tread, rear	b11 (mm)	1460	1460	1460	1700	1700	
Dimensions	4.1	Tilt of mast/fork carriage forward/backward		10/12	10/12	10/12	10/12	10/12	
	4.2	Height, mast lowered	h1 (mm)	2185	2185	2185	2180	2180	
	4.3	Free lift	h2 (mm)	1048	1048	1048	1050	1050	
	4.4	Lift height	h3 (mm)	2500	2500	2500	2100	2100	
	4.5	Height, mast extended	h4 (mm)	3637	3637	3637	3226	3226	
	4.7	Height of overhead guard	h5 (mm)	2240	2240	2240	2240	2240	
	4.8	Seat height	h7 (mm)	1290	1290	1290	1455	1455	
	4.12	Coupling height	h10 (mm)	430	430	430	455	455	
	4.19	Overall length	l1 (mm)	4745	4775	4850	5433	5753	
	4.20	Length to face of forks	l2 (mm)	3525	3555	3630	3913	4233	
	4.21	Overall width	b1 (mm)	1750	1750	1750	1960	1960	
	4.22	Fork dimensions	s/e/l (mm)	60×150×1220	60×150×1220	65×150×1220	80×160×1520	80×160×1520	
	4.23	Fork carriage DIN 15 173, class/type A, B		IV A	IV A	IV A	/	/	
	4.24	Fork-carriage width	b3 (mm)	1532	1532	1532	1400	1400	
	4.31	Ground clearance, laden, below mast	m1 (mm)	190	190	190	185	185	
	4.32	Ground clearance, centre of wheelbase	m2 (mm)	270	270	270	235	235	
	4.33	Aisle width for pallets 1000 x 1200 crossways	Ast (mm)	5075	5105	5140	5555	5865	
	4.34	Aisle width for pallets 800 x 1200 lengthways	Ast (mm)	5275	5305	5340	5755	6065	
4.35	Turning radius	Wa (mm)	3250	3280	3310	3630	3940		
4.36	Internal turning radius	b13 (mm)	1215	1215	1215	1325	1395		
Performance data	5.1	Travel speed, laden/unladen	km/h	27/30	27/30	27/30	28/31	28/31	
	5.2	Lift speed, laden/unladen	m/s	0.390/0.420	0.390/0.420	0.390/0.420	0.330/0.360	0.330/0.360	
	5.3	Lowering speed, laden/unladen	m/s	0.440/0.310	0.440/0.310	0.440/0.310	0.350/0.330	0.350/0.330	
	5.5	Drawbar pull, laden/unladen	N	65000/24000	65000/24000	65000/24000	75000/45000	75000/50000	
	5.7	Gradeability, laden/unladen	%	35/20	33/20	30/20	21/20	21/20	
	5.10	Service brake		Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	
Combustion-engine	7.1	Engine manufacturer/type	YUCHAI/YC4A115-T300						
	7.2	Emission standard		Stage3	Stage3	Stage3	Stage3	Stage3	
	7.3	Engine power acc. to ISO 1585	kW	85	85	85	85	85	
	7.4	Rated speed	r/min	2200	2200	2200	2200	2200	
	7.9	No. of cylinders/displacement	(-)/(cm³)	4/4836	4/4836	4/4836	4/4836	4/4836	
	7.9	Vehicle electrical system voltage	V	24	24	24	24	24	
	7.10	Battery voltage/nominal capacity	V/Ah	2-12/90	2-12/90	2-12/90	2-12/90	2-12/90	
		Rated torque	Nm/r/min	450/1600-1800	450/1600-1800	450/1600-1800	450/1600-1800	450/1600-1800	
		Transmissions Manufacturer		China	China	China	China	China	
		Transmissions Type		Powershift	Powershift	Powershift	Powershift	Powershift	
Addition data	8.2	Operating pressure for attachments	bar	190	190	190	195	195	
	8.4	Sound level at the driver's ear according to DIN 12053	dB(A)	89	89	89	89	89	
	8.5	Towing coupling, type DIN		Pin	Pin	Pin	Pin	Pin	
		Hydraulic Tank - Capacity (drain & refill)	l	120	120	120	160	160	
		Fuel Tank - Capacity (Gasoline or Diesel-Powered Units Only)	l	150	150	150	180	180	

Optional Engine / Transmission

Engine / Transmission	ISUZU/6BG1QP				CUMMINS/QS84.5		CUMMINS/QSF3.8	
	Engine manufacturer/type							
	Manufacturer's type designation	W14		W28		W70		
	Rated capacity/rated load	Q (kg) 5000-10000						
	Emission standard	/ Stage IIIA/Tier3						
	Engine power acc. to ISO 1585	kW 85.3		82		86		
	Rated speed	r/min 2200						
	No. of cylinders/displacement	(·)/(cm³) 6/6494		4/4500		4/3760		
	Rated torque	N·m/r/min 410.9/1500		488/1500		470/1100-1700		
	Transmissions Manufacturer	China		okamura		China		
Transmissions Type	Powershift		Powershift		Powershift			
Stage FWD/RVS	2/2		2/2		2/2			

5.0-7.0t X Series Mast:(Penumatic)

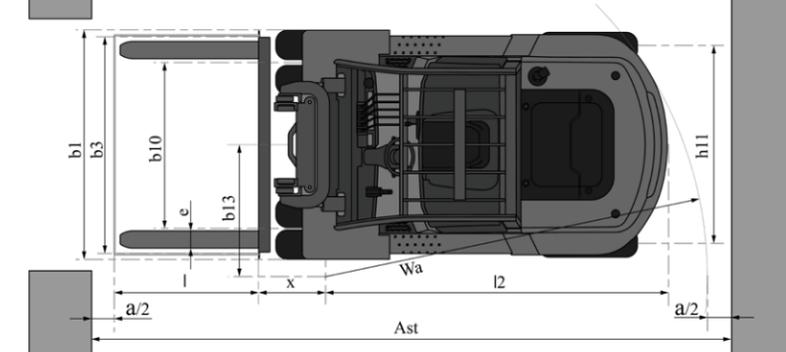
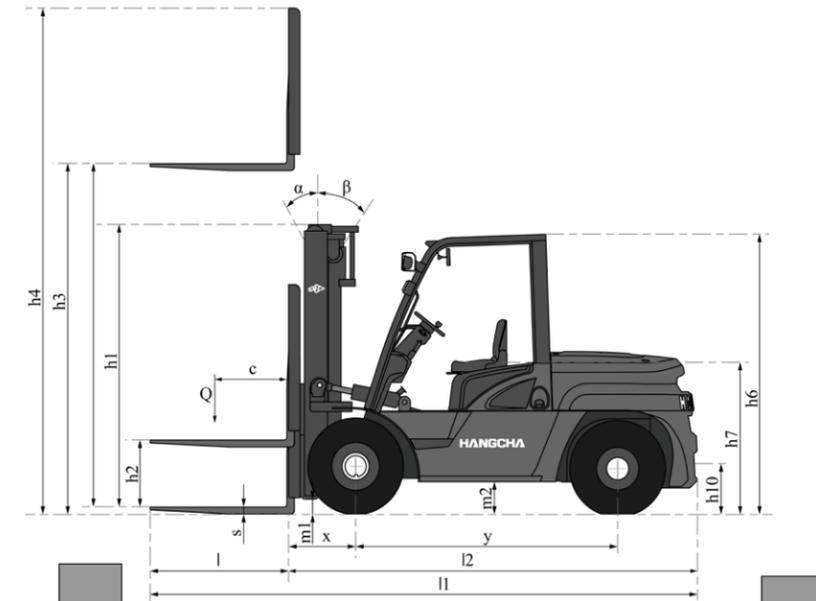
Type	Model	Max. fork height	Overall height				Free lift		Load distance, centre of drive axle to fork	Tilt range FWD/RWD	Capacity			
			Lowered	Extended		Without backrest	With backrest	Without backrest			With backrest	Load capacity at 600 mm		
				Without backrest	With backrest							5t Single tire	6t Single tire	7t Single tire
Wide view mast	CXR50/70M240	2400	2200	3405/3567	3547/3807	160	160	598.5/603.5	10/12	5000	6000	7000		
Free duplex wide-view mast	CXR50/70U250	2500	2185	3455/3615	3637	1230/1070	1048	625/630	10/12	5000	6000	7000		
Wide view full free Triplex mast	CXR50/70N360	3600	2200	4803	4997	997	803	672/677	10/12	4500	5500	6400		

With sideshifter minus 300kg, with integral sideshifter minus 200kg

8.5-10t X Series Mast:(Penumatic)

Type	Model	Max. fork height	Overall height				Free lift		Load distance, centre of drive axle to fork	Tilt range FWD/RWD	Capacity		
			Lowered	Extended		Without backrest	With backrest	Without backrest			With backrest	Load capacity at 600 mm	
				Without backrest	With backrest							8.5t Double tire	10t Double tire
Wide view mast	CXR100M200	2000	2060	3106	/	200	/	725	10/12	8500	10000		
Free duplex wide-view mast	CXR100U210	2100	2180	3226	/	1054	/	725	10/12	8500	10000		

With sideshifter minus 300kg, with integral sideshifter minus 200kg



Ast=L6+x+Wa+a L6: load length a: Clearance (200mm)