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HANGCHA

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ISO14001:2015

ISO9001:2015

HANGCHA trucks conform to the European Safety Requirements.

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colors, equipment, or specifications detailed in this brochure, or to discontinue individual models. The colors of trucks, delivered may differ slightly from those in brochures.



X Series Heavy IC Forklift Trucks

with capacities of 14,000 to 18,000kg

The World of Hangcha

HANGCHA

X SERIES HEAVY IC FORKLIFT TRUCKS

The heavy load X series is extention of 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 protection, comfort, security and reliability, it will become the world-class forklift truck which can meet your overall demands.

CHARACTERISTICS

The truck has professional and entirely-new appearance, has great identifiable degree, has simple and smooth profiling and has great industrial aesthetics. The exposed parts are arranged in concealed manner, and the appearance is more concise.

The key parts are products of internationally well-known brands, have been utilized in the products of previous models, have been validated by the market, and are reliable and durable; The modular and standard design is applicable, the main parts are validated in advance and by steps, the truck has great maturity.

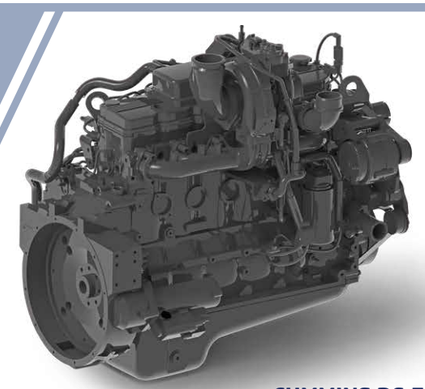
Easy/
Efficiency/
Economy

STAGE V & TIER 4F

HANGCHA with you at every stage

Efficient, reliable solutions for your demands

With Hangcha you can meet all Stage V/Tier 4f emissions standards which provides customer demands for value, innovation and performance. The technologies include common rail fuel systems, Turbocharged Inter-cooled selective catalytic reduction (SCR), diesel oxidation catalysts (DOC) and diesel particulate filters (DPF). Designed and optimised to every engine model, our forklift truck maximises efficiency and reliability.



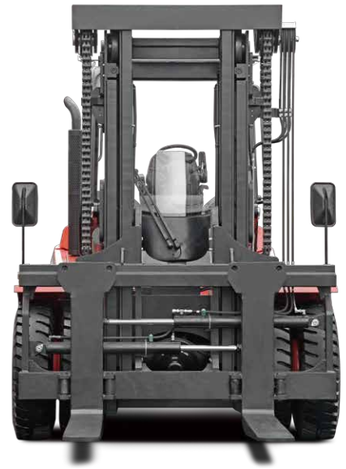
CUMMINS B6.7

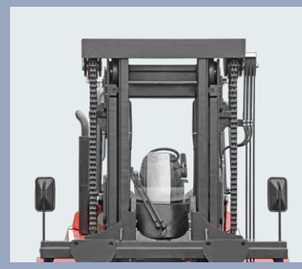
High Performance

The performance is improved. The travel speed and lift speed are improved by 10%-20%. The body of the truck is reduced, and the flexibility is strengthened. Thanks to CAE (Computer Aided Engineering) technology, structural components are more balanced.

Comfort

With the new-style fully-suspended and overall-view cab.
The profile of the truck is optimized; The vision is more excellent.
The interior ornamentals are formed, feeling is more comfortable;
Shaped steel tube integral frame provides high strength and better sealing.





Excellent all round visibility is achieved by the overall design.



Thanks to the unique design, cab can be tilt without any tools, major service items can be reached easily by tilting the cab, maximized access is possible.



Optional imaging system with front and rear camera, increasing the safety greatly.



ZF gear box with micro-electronic control provides for three-shift power shifting, travelling is stable and accurate.





Load sensing hydraulics provide high efficiency and energy saving, reducing hydraulic oil working temperature and also extending the life of hydraulic components and seals.



Anti-slip pedal provides high safety and easy maintenance.



Battery compartment is easy to open for easy maintenance.



The newly designed LCD instrument has more comprehensive functions and more stable performance. It can display the important information such as truck status and engine faults... So that the operator can understand the truck status more intuitively and facilitate maintenance.



Suspended seat with fingertip system that can be easily adjusted to suit each customer.



KESSLER heavy-duty traction axle, two-stage deceleration; Wet brake, maintenance-free; Hydraulic release spring action parking brake, safe and reliable.



Standard Specification

/ Duplex mast
/ Single control lever - Fork position operation
/ Cooling/heating air-conditioner
/ Fully-hydraulic power steering
/ Quadruple multi-way valve
/ OPS system
/ Adjustable steering column
/ Tip-over oil circuit self-lock valve
/ Lifting speed limit valve
/ High-position exhaust
/ Traction device
/ Power-off switch
/ Reversing radar
/ CAN-bus structure indicator
/ LED lamps
/ Pneumatic tyre
/ Reversing buzzer
/ Snail horn
/ Manual tilting cab
/ Adjustable armrest
/ Tools

Options

/ Customer color
/ Special forks
/ Portals of other specifications
/ Solid tyre
/ On-board interphone
/ Audible warning reverse alarm
/ Alarm lamp
/ Video monitoring system
/ Spark extinguisher
/ Fire extinguisher (2kg/4kg)
/ Automatic fire extinguishing device
/ LED work lamp
/ Four-circuit driving recording system
/ Speed limit device
/ Blue lamp
/ Weighing system
/ Air pre-filter
/ Electrostatic conduction chain
/ Fan
/ Electro-hydraulic tilting cab

Reliability

Increased digitization, additional central controller, CAN-bus structure, built-in multiple diagnostic, management functions and fault alarm are convenient for diagnosis.

Precise Operation

Integrated fingertip system, pilot control, smart and accurate; Hydraulic brake curve optimization, smooth and easy control.

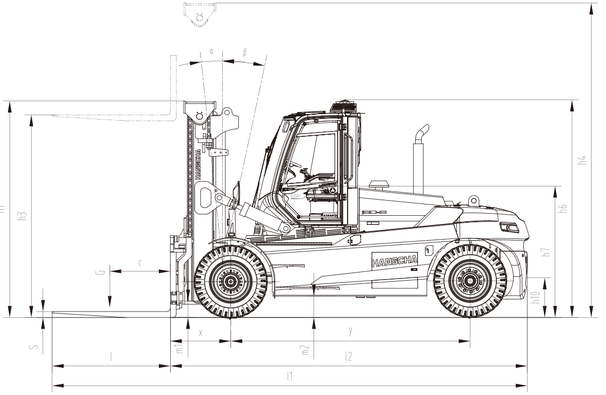


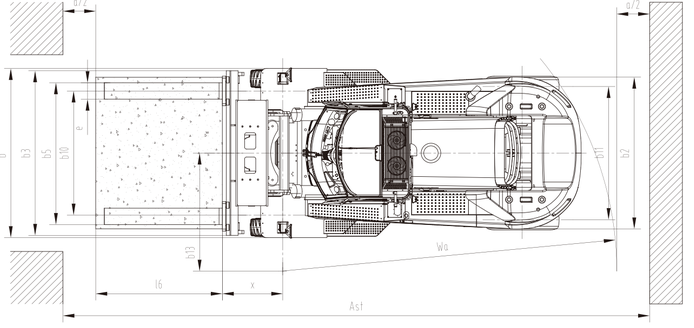




X Series 14-18t Diesel Counterbalanced Trucks

Distinguishing mark	1.1	Manufacturer																	
	1.2	Manufacturer's type designation		CPCD140-XRW8SG	CPCD140-XRH9G	CPCD140-XRAW8SG	CPCD140-XRAH9G	CPCD160-XRW8SG	CPCD160-XRH9G	CPCD180-XRXW8SG	CPCD160-XRAW2SG	CPCD160-XRAH9G	CPCD180-XRW2SG	CPCD180-XRH9G				
	1.3	Drive: electric (battery or mains), diesel, petrol, fuel gas		Diesel		Diesel		Diesel		Diesel	Diesel		Diesel					
	1.4	Operator type: hand, pedestrian, standing, seated, order-picker		Seated		Seated		Seated		Seated	Seated		Seated					
	1.5	Rated capacity/rated load	Q (kg)	14000		14000		16000		18000	16000		18000					
	1.6	Load centre distance	c (mm)	900		1200		900		600	1200		900					
	1.8	Load distance, centre of drive axle to fork	x (mm)	920		920		920		920	940		940					
	1.9	Wheelbase	y (mm)	3650		3650		3650		3650	3750		3750					
Weight	2.1	Service Weight	kg	20500		22100		21500		20900	24300	24500	24200	24400				
Tyres, chassis	3.1	Tyres: solid rubber, superelastic, pneumatic, polyurethane		Pneumatic		Pneumatic		Pneumatic		Pneumatic	Pneumatic		Pneumatic					
	3.2	Tyre size, front		12.00-20-20PR		12.00-20-20PR		12.00-20-20PR		12.00-20-20PR	12.00-24-20PR		12.00-24-20PR					
	3.3	Tyre size, rear		12.00-20-20PR		12.00-20-20PR		12.00-20-20PR		12.00-20-20PR	12.00-24-20PR		12.00-24-20PR					
	3.5	Wheels, number front / rear (x = driven wheels)		4×/2		4×/2		4×/2		4×/2	4×/2		4×/2					
	3.6	Tread, front	b_{10} (mm)	1894		1894		1894		1894	2013		2013					
	3.7	Tread, rear	b_{11} (mm)	2030		2030		2030		2030	2200		2200					
Dimensions	4.1	Tilt of mast/fork carriage forward/backward	α/β(°)	6/12		6/12		6/12		6/12	6/12		6/12					
	4.2	Height, mast lowered	h_1 (mm)	3300		3300		3300		3300	3400		3400					
	4.3	Free lift	h_2 (mm)	90		95		90		90	110		110					
	4.4	Lift	h_3 (mm)	3000		3000		3000		3000	3000		3000					
	4.5	Height, mast extended	h_4 (mm)	4800		4800		4800		4800	4900		4900					
	4.7	Height of overhead cabin	h_6 (mm)	3300		3300		3300		3300	3360		3360					
	4.8	Seat height relating to SIP	h_7 (mm)	2010		2010		2010		2010	2070		2070					
	4.12	Coupling height	h_{10} (mm)	550		550		550		550	600		600					
	4.19	Overall length	l_1 (mm)	7270		7910		7270		6970	8030		8030					
	4.20	Length to face of forks	l_2 (mm)	5470		5470		5470		5470	5590		5590					
	4.21	Overall width	b_1/b_2(mm)	2580/2320		2580/2320		2580/2320		2580/2320	2700/2500		2700/2500					
	4.22	Fork dimensions	s/e/l (mm)	90×250×1800		95×250×2440		90×250×1800		90×250×1500	110×250×2440		110×250×1820					
	4.24	Fork-carriage width	b_3 (mm)	2510		2510		2510		2510	2640		2640					
	4.25	Distance between fork-arms	b_5 (mm)	750/2300		750/2300		750/2300		750/2300	750/2400		750/2400					
	4.31	Ground clearance, laden, below mast	m_1 (mm)	250		250		250		250	250		250					
	4.32	Ground clearance, centre of wheelbase	m_2 (mm)	325		325		325		325	370		370					
	4.34.1	Aisle width with load length 1800mm	Ast (mm)	7870		8510		7870		7870	8040		8040					
	4.34.2	Aisle width with load length 2400mm	Ast (mm)	8470		8510		8470		8470	8640		8640					
	4.35	Turning radius	Wa (mm)	4950		4950		4950		4950	5100		5100					
	4.36	Minimum pivoting point distance	b_{13} (mm)	1800		1800		1800		1800	1800		1800					
Performance data	5.1	Travel speed, laden/unladen	km/h	30/26		30/26		30/26		30/26	28/27		28/26					
	5.2	Lift speed, laden/unladen	m/s	0.4/0.35		0.4/0.35		0.4/0.35		0.38/0.33	0.40/0.35		0.37/0.32					
	5.3	Lowering speed, laden/unladen	m/s	0.38/0.35		0.38/0.35		0.38/0.35		0.38/0.35	0.38/0.35		0.36/0.33					
	5.5	Drawbar pull, laden/unladen	N	150000/75000		150000/75000		150000/75000		150000/75000	125000/65000		125000/65000					
	5.7	Gradeability, laden/unladen	%	28/-		28/-		28/-		28/-	25/-		25/-					
	5.10	Service brake		Wet disc brake		Wet disc brake		Wet disc brake		Wet disc brake	Wet disc brake		Wet disc brake					
		Parking brake		spring applied, hydraulic release multi-disc brake		spring applied, hydraulic release multi-disc brake		spring applied, hydraulic release multi-disc brake		spring applied, hydraulic release multi-disc brake	spring applied, hydraulic release multi-disc brake		spring applied, hydraulic release multi-disc brake					
Combustion-engine	7.1	Engine manufacturer/type		CUMMINS/QSB6.7-173	CUMMINS/B6.7	CUMMINS/QSB6.7-173	CUMMINS/B6.7	CUMMINS/QSB6.7-173	CUMMINS/B6.7	CUMMINS/QSB6.7-173	CUMMINS/QSB6.7-C190	CUMMINS/B6.7	CUMMINS/QSB6.7-C190	CUMMINS/B6.7				
		Emission STD		Stage 3A/Tier 3	Stage V/Tier 4	Stage 3A/Tier 3	Stage V/Tier 4	Stage 3A/Tier 3	Stage V/Tier 4	Stage 3A/Tier 3	Stage 3A/Tier 3	Stage V/Tier 4	Stage 3A/Tier 3	Stage V/Tier 4				
	7.2	Engine power	kW	129	149	129	149	129	149	129	142	149	142	149				
	7.3	Rated speed	r/min	2200	2200	2200	2200	2200	2200	2200	2300	2200	2300	2200				
	7.4	Number of cylinders/displacement	(-)/(cm^3)	6/6700	6/6700	6/6700	6/6700	6/6700	6/6700	6/6700	6/6700	6/6700	6/6700	6/6700				
	7.9	Vehicle electrical system voltage	V	24	24	24	24	24	24	24	24	24	24	24				
	7.10	Battery voltage/nominal capacity	V/Ah	2x12/120	2x12/120	2x12/120	2x12/120	2x12/120	2x12/120	2×12/120	2x12/120	2x12/120	2x12/120	2x12/120				
		Rated torque	N·m/r/min	799/1400	990/1300	799/1400	990/1300	799/1400	990/1300	799/1400	930/1500	990/1300	930/1500	990/1300				
		Transmissions Manufacturer		ZF	ZF	ZF	ZF	ZF	ZF	ZF	ZF	ZF	ZF	ZF				
		Transmissions Type		3WG161	3WG161	3WG161	3WG161	3WG161	3WG161	3WG161	3WG171	3WG171	3WG171	3WG171				
		Stage FWD/RVS		3/3	3/3	3/3	3/3	3/3	3/3	3/3	3/3	3/3	3/3	3/3				
Addition data	10.1	Operating pressure for attachments	bar	≥50	250	≥50	250	250	250	250	250	250	250	250				
	10.2	Oil volume for attachments	l/min	≥65	265	≥65	265	265	265	265	265	265	265	265				
	10.3	Hydraulic Tank - capacity (drain & refill)	liter	320	320	320	320	320	320	320	360	360	360	360				
	10.4	Fuel tank capacity	liter	320	280	320	280	320	280	320	360	320	360	320				
	10.7	Sound pressure level at the driver´s seat	dB (A)	78	78	78	78	78	78	78	78	78	78	78				





14-18t X series mast:(Pneumatic)

Type	Model	Max. fork height	Overall height				Tilt Range	Capacity			
			Lowered		Extended		F/R	Load capacity at 900mm	Load capacity at 1200mm	Load capacity at 900/1200mm	Load capacity at 600/900mm
			16t/1200	Others	16t/1200	Others		14t	14t	16t	18t
		mm	mm	mm	mm	mm	(°)	kg	kg	kg	kg
Wide view mast	GXR140/141/160/X180/163/180M300	3000	3400	3300	4900	4800	6/12	14000	14000	16000	18000
	GXR140/141/160/X180/163/180M330	3300	3550	3450	5200	5100	6/12	14000	14000	16000	18000
	GXR140/141/160/X180/163/180M360	3600	3700	3600	5500	5400	6/12	14000	14000	16000	18000
	GXR140/141/160/X180/163/180M400	4000	3900	3800	5900	5800	6/12	14000	14000	16000	18000
	GXR140/141/160/X180/163/180M430	4300	4100	4000	6250	6150	6/12	14000	14000	16000	18000
	GXR140/141/160/X180/163/180M450	4500	4200	4100	6450	6350	6/12	14000	14000	16000	18000
	GXR140/141/160/X180/163/180M480	4800	4350	4250	6750	6650	6/6	14000	14000	16000	18000
	GXR140/141/160/X180/163/180M500	5000	4450	4350	6950	6850	6/6	14000	14000	16000	18000
	GXR140/141/160/X180/163/180M550	5500	4750	4650	7500	7400	3/6	12500	12500	14500	16500
	GXR140/141/160/X180/163/180M600	6000	5000	4900	8000	7900	3/6	11000	11000	13000	15000
	GXR140/141/160/X180/163/180M650	6500	5300	5200	8550	8450	3/6	9500	9500	11500	13500

