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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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XF Series Diesel / Gasoline / LPG Counterbalanced Trucks

with capacities of 4,000 to 5,500kg

The World of Hangcha



HANGCHA be with you at every stage
Efficient, reliable solutions for your demands

STAGE V & TIER 4F

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, diesel oxidation catalysts (DOC) and diesel particulate filters (DPF). Designed and optimised to every engine model, our forklift truck maximises efficiency and reliability.



XINCHAI



Interactive instrument: The instrument adopts 4.0-inch color LCD display with four interactive buttons, and has one CAN bus communication function. The communication protocol is compatible with CANopen and SAE J1939 standards.

HANGCHA Forklift with StageV and T4F

No.	Capacity	Series	Manufacturer	Engine	Drive power	Model	Emission Std.	Transmission	Power (kw/rpm)
1	4.0-5.5t	XF	KUBOTA	V3307-CR-TIE5B	Diesel	CPCD40/45-XW99BN,CPCD50/55-XXW99BN	Stage V / Tier4 final	OKAMURA	55.4/2200
2	4.0-5.5t	XF	KUBOTA	WG3800-L-E5C	LPG	CPYD40/45-XH11BN,CPYD50/55-XXH11BN	Stage V / EPA Tier 2 / CARB Tier 3	OKAMURA	61.6/2300
3	4.0-5.5t	XF	KUBOTA	WG3800-GL-E3C	GAS/LPG	CPQYD40/45-XH12BN,CPQYD50/55-XXH12BN	Stage V / EPA Tier 2 / CARB Tier 3	OKAMURA	GAS:54.4/2300 LPG:54.6/2300
4	4.0-5.5t	XF	XINCHAI	4E30YG52	Diesel	CPCD40/45-XH8BN,CPCD50/55-XXH8BN	Stage V	OKAMURA	55.8/2200
5	4.0-5.5t	XF	PSI	PSI 4.3	LPG	CPYD40/45-XH20BN,CPYD50/55-XXH20BN	Stage V	CHINA	79.75/2300

Note: Stage V applied for European Union also including Israel and Turkey
Tier4 Final applied for North American

**Powerful/
Efficient/
Reliable**





Reliability

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

XF series truck just equip with Okamura transmission. Brake drum and hub adopt monolithic construction. 			XF series features rugged design, stamped frame and engine hood, stamped instrument panel and head guard, heavy profile rail mast combine to provide excellent rigidity, which ensures outstanding reliability even in heavy-duty work.
Extra capacity combined radiator with serpentine wave and optimized heat dissipation channel enhance the heat dissipation capability to keep engine reliability even in heavy-duty applications.			Bigger diameter of steering cylinder.

Productivity

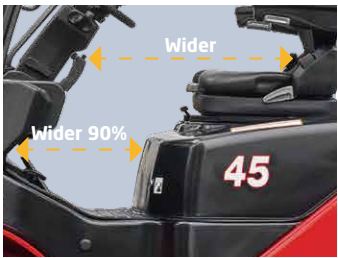
Dynamic load sensing hydraulic steering system, Efficiency lighting system, lower fuel consumption, combine to provide increased productivity and reduced operating costs.

		
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The new Dynamic load sensing hydraulic steering system contributes to reduce loss of hydraulic and improve energy efficiency.	The new efficiency lighting system employs LED illuminant and new type reflector to reduce energy consumption, improve significantly illumination performance and prolong work time.
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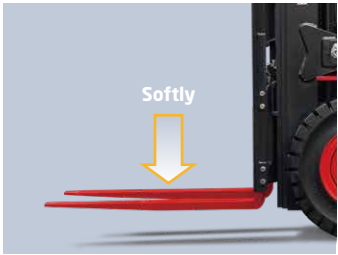
Comfortable Operation

Optimal visibility in all directions create the best conditions for high productivity through relaxed and safe working.



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 developed front lifting cylinders with smaller outer diameter give the operator superior forward visibility.

The double front lifting cylinders provide better forward visibility.

In developing the new XF Series, comfort and ease of operation is carefully considered, for example, to improve vibration levels, compound engine damper and full floating power train are adopted. Comfortable operating environments for operator also contribute to increased productivity.



In addition to rubber damper between frames and steering axle, compound engine damper and full floating power train achieve flexible connection between frames and driving system, as a result, traveling vibrations and vibrations from the driving system are significantly reduced.



The enlarged capacity of optimized exhaust muffler, the intake muffler and the noise shield technologies provide significantly lower noise levels.

1. The new, relocated easy-to-see LCD meter lets the operator check on all aspects of operational status at a glance.
2. The new automobile-style light/turn-signal lever and forward-reverse lever are ergonomically designed and arranged to improve comfort and productivity.
3. 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.
4. The parking brake is specially developed. The operational force is reduced by 30%.
5. The automobile-style suspended pedals provide more ergonomic operation.



Safety

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

An optional rear-pillar assist grip with a horn button enhances safety of operator while traveling in reverse.

The locking device of the engine hood damper and parking brake help add to safety.



- 1. The operator presence sensing 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-asbestos bake / Wet brake (Only for BN) / OKAMURA transmission	/ Full hydraulic power steering / Smaller diameter steering wheel / Adjuster of steering wheel	/ Anti-slip pedal / Rubber pedal / Engine hood spring	/ Power steering / Suspension pedal / Integrated combination switch / Cable parking brake	/ Dynamic load sending control valve (Diesel IC) / Hydraulic oil filter / Tilt cylinder self-lock valve / Hydraulic oil dipstick / Dual pump

Truck	Electronics	Mast
/ Traction device / Hand grip / Standard seat / Standard overhead guard / Waterproof cover on the guard / Back view mirror / Pneumatic tyres	/ Counterweight net / Fan protector / Big capacity aluminum radiator / Whirlwind air cleaner / Safety filter / High-efficient intake muffler / High-efficient exhaust muffl / Upright exhaust pipe	/ High-efficient front lights / High-efficient LED rear lights / Maintenance-free battery / Combination controller / LCD display / Neutual switch / Hour meter / Fuel gauge
	/ Water temperature gauge / Pre-heat indicator / Charging indicator / Oilpressure warning / Transmission oil pressure warning / Horn / Reversing buzzer	/ Standard wide view duplex mast / Standard forks / Standard fork carriage / Standard load backrest / Mast speed limiting valve / Loading relieve valve / Softlanding system / Softlifting system / Side roller

Options

Truck	Transmission	Power	Hydraulic	Electronics	Mast
/ Cabin / Cabin heater / Front window / Super elastic tyre / Non-mark tyre(white/green) / Suspension seat / Extinguisher / Cover of tilt cylinder / Heightening overhead guard / Reversing assist grip / Customer painting / OPS(Operator Presence Sensing system) / Boot for tilt cylinder / Additional counterweight / Toolbox	/ Dual driving tyre / Solid tyre	/ DualfuelLPG system / Big capacity copper radiator / Upright exhaust system / Middle-positioned exhaust system / Dual air filter / Net cover of radiator / Sparkle arrester / Purified exhaust system / Swiwei LPG bottle support / Downward LPG bottle support	/ Auxiliary hydraulic valve / Electro-hydraulic proportional control system / Return oil filter	/ OBD / Front working light / Rear working light / Warning lamp / Speed meter / Over-speed alarm / LED working light	/ Duplex wide view free-lift mast / Triplex wide view free-lift mast / Triplex wide view 4-cylinder free-lift mast / Special forks / Wider fork carriage / Widerload back rest

Easy Maintenance

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



The new vehicle controller integrates all electrical components, features excellent durability for temperature, water and vibration for most demanding operation.



CUMMINS engine use the special air filter, it can reduce air intake resistance dramatically, equipped with pressure alarm to masterthe maintaining time.



The cover on the Panel can be lifted up simply to check the brake fluid.

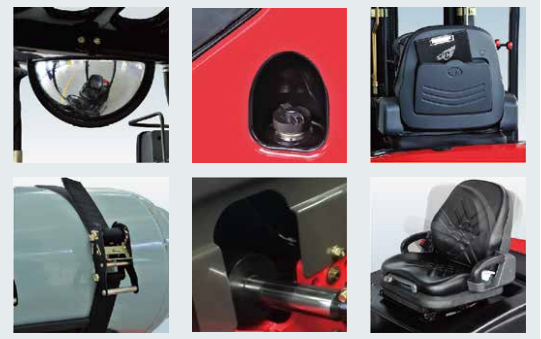
The easy-to-operate latch provides quick access to the engine compartment.

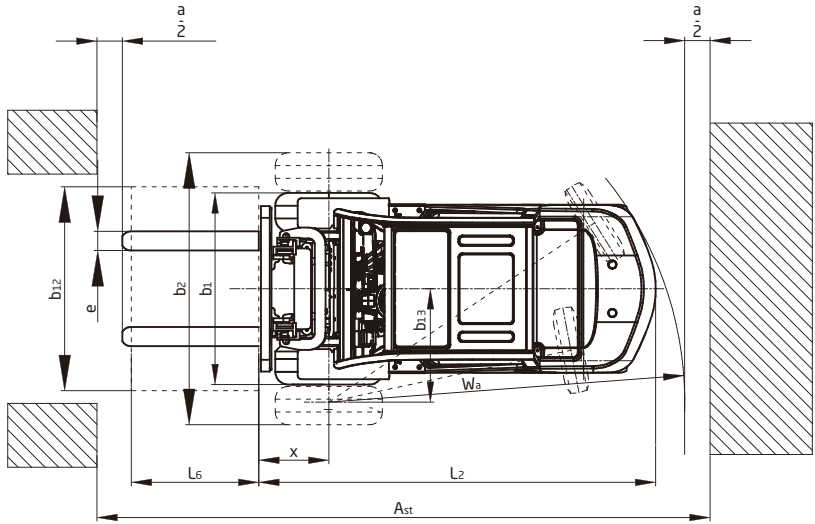
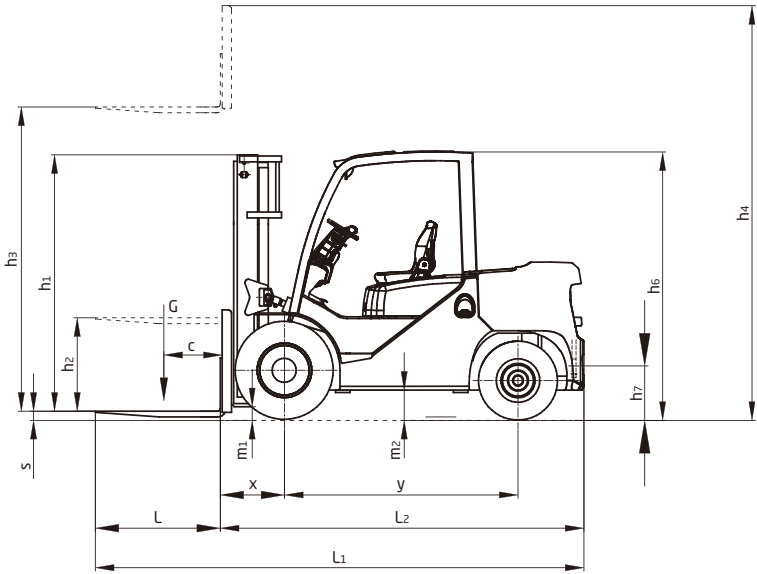
The two-piece design makes the floorboard easy to lift and remove for access to the power train.

The fasteners of the radiator cover can be turned easily by hand to enable quick inspections or servicing.

Optional Attachments

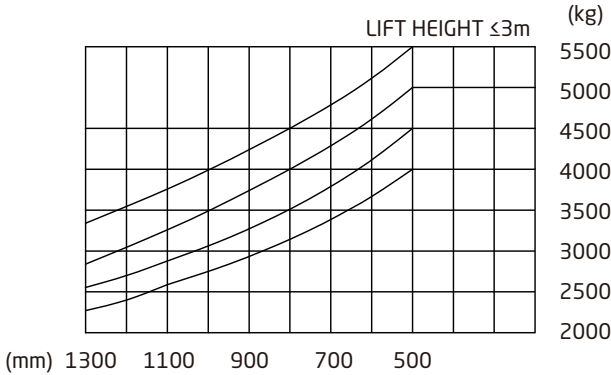
- / Paper roll clamp
- / Rotating bale clamp
- / Load stabilizer
- / Multi-drum clamp
- / Bale clamp
- / Drum clamp
- / Dumping clamp
- / Crane arm
- / String Pole
- / Sideshifter
- / Rotating forks
- / Fork extensioner
- / Load release device
- / Carton clamp
- / Push-pull device
- / Bucket
- / Hook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





$A_{st} = W_a + x + L_6 + a; a = 200$

applies only if $\frac{b_{12}}{2} \leq b_{13}$



4.0~4.5t XF series mast: (pneumatic)

Type	Model	Max. fork height	Overall height				Free lift		Tilt range		Capacity			
			Lowered	Extended		Without backrest	With backrest	Front Overhang			Load capacity at 500mm			
				Without backrest	With backrest				Single tire		Dual tire			
									4.0t	4.5t	4.0t	4.5t		
									mm	mm	4/4.5t	4/4.5t	mm	mm
	mm	mm	4/4.5t	4/4.5t	4/4.5t	4/4.5t	4/4.5t							
wide view mast	X45M250	2500	1995	3330	3670	160	160	550	6	12	4000	4500	4000	4500
	X45M270	2700	2095	3530	3870	160	160	550	6	12	4000	4500	4000	4500
	X45M300	3000	2245	3830	4170	160	160	550	6	12	4000	4500	4000	4500
	X45M330	3300	2395	4130	4470	160	160	550	6	12	4000	4500	4000	4500
	X45M350	3500	2495	4330	4670	160	160	550	6	12	4000	4500	4000	4500
	X45M360	3600	2545	4430	4770	160	160	550	6	12	4000	4500	4000	4500
	X45M370	3700	2595	4530	4870	160	160	550	6	12	4000	4500	4000	4500
	X45M380	3800	2645	4630	4970	160	160	550	6	12	4000	4500	4000	4500
	X45M400	4000	2795	4830	5170	160	160	550	6	12	4000	4500	4000	4500
	X45M430	4300	2960	5130	5470	160	160	550	6	6	4000	4500	4000	4500
	X45M450	4500	3070	5330	5670	160	160	550	6	6	4000	4500	4000	4500
	X45M480	4800	3235	5630	5970	160	160	550	6	6	3850	4300	3900	4400
	X45M500	5000	3345	5830	6170	160	160	550	6	6	3800	4000	3850	4200
	X45M550	5500	3620	6330	6670	160	160	550	3	6	3000	3500	3200	3800
	X45M600	6000	3895	6830	7170	160	160	550	3	6	2500	3000	2800	3100
wide view full free duplex mast	X45U250	2500	1976	3365	3670	1114	809	557	6	12	4000	4500	4000	4500
	X45U275	2750	2100	3615	3920	1238	933	557	6	12	4000	4500	4000	4500
	X45U300	3000	2226	3865	4170	1364	1055	557	6	12	4000	4500	4000	4500
	X45U330	3300	2376	4165	4470	1514	1205	557	6	12	4000	4500	4000	4500
	X45U350	3500	2476	4365	4670	1614	1309	557	6	12	4000	4500	4000	4500
	X45U360	3600	2526	4465	4770	1664	1359	557	6	12	4000	4500	4000	4500
	X45U370	3700	2576	4565	4870	1714	1409	557	6	12	4000	4500	4000	4500
	X45N400	4000	2080	4850	5170	1229	912	603	6	6	4000	4500	4000	4500
wide view full free triplex mast	X45N430	4300	2180	5155	5470	1329	1012	603	6	6	4000	4500	4000	4500
	X45N450	4500	2248	5365	5685	1395	1080	603	6	6	3800	4400	4000	4500
	X45N470	4700	2310	5550	5870	1459	1142	603	6	6	3700	4300	3800	4400
	X45N480	4800	2340	5650	5970	1489	1172	603	6	6	3700	4200	3800	4300
	X45N500	5000	2410	5855	6170	1559	1242	603	6	6	3600	3800	3700	4200
	X45N550	5500	2575	6355	6670	1724	1408	603	3	6	3000	3400	3200	3800
	X45N600	6000	2790	6865	7180	1939	1622	603	3	6	2500	2800	2800	3100
	X45N650	6500	2980	7365	7680	2129	1812	603	3	6	/	/	2400	2500
	X45N700	7000	3155	7860	8175	2304	1988	603	3	6	/	/	2000	2200

With sideshifter minus 200kg,with integral sideshifter minus 100kg.

5.0~5.5t XF series mast: (pneumatic)

Type	Model	Max. fork height	Overall height								Free lift				Front Overhang		Tilt range		Capacity				
			Lowered	Extended				Without backrest		With backrest		Without backrest		With backrest					Load capacity at 500mm				
				Without backrest															Dual tire				
				Single tire																			
				mm	mm	mm	mm									mm	mm	mm	mm	mm	mm	mm	mm
5.0t	5.5t	5.0t	5.5t	5.0t	5.5t	5.0t	5.5t	5.0t	5.5t	5.0t	5.5t	5.0t	5.5t	(°)	(°)	kg	kg	kg	kg				
wide view mast	XX50/XX55M250	2500	1995	2245	3330	3580	3870	3900	160	170	160	170	555	585	6	12	5000	5500	5000	5500			
	XX50/XX55M270	2700	2095	2345	3530	3780	4070	4100	160	170	160	170	555	585	6	12	5000	5500	5000	5500			
	XX50/XX55M300	3000	2245	2495	3830	4080	4370	4400	160	170	160	170	555	585	6	12	5000	5500	5000	5500			
	XX50/XX55M330	3300	2395	2645	4130	4380	4670	4700	160	170	160	170	555	585	6	12	5000	5500	5000	5500			
	XX50/XX55M350	3500	2495	2745	4330	4580	4870	4900	160	170	160	170	555	585	6	12	5000	5500	5000	5500			
	XX50/XX55M360	3600	2545	2795	4430	4680	4970	5000	160	170	160	170	555	585	6	12	5000	5500	5000	5500			
	XX50/XX55M370	3700	2595	2845	4530	4780	5070	5100	160	170	160	170	555	585	6	12	5000	5500	5000	5500			
	XX50/XX55M380	3800	2645	2895	4630	4880	5170	5200	160	170	160	170	555	585	6	12	5000	5500	5000	5500			
	XX50/XX55M400	4000	2795	2995	4830	5080	5370	5400	160	170	160	170	555	585	6	12	5000	5500	5000	5500			
	XX50/XX55M430	4300	2960	3145	5130	5380	5670	5700	160	170	160	170	555	585	6	6	4750	5150	5000	5400			
	XX50/XX55M450	4500	3070	3245	5330	5580	5870	5900	160	170	160	170	555	585	6	6	4700	5000	4800	5200			
	XX50/XX55M480	4800	3235	3445	5630	5880	6170	6200	160	170	160	170	555	585	6	6	4400	4650	4600	4750			
	XX50/XX55M500	5000	3345	3560	5830	6080	6370	6400	160	170	160	170	555	585	6	6	4100	4400	4300	4600			
	XX50/XX55M550	5500	3620	3820	6330	6580	6870	6900	160	170	160	170	555	585	3	6	3600	4050	4000	4300			
	XX50/XX55M600	6000	3895	4085	6830	7080	7370	7400	160	170	160	170	555	585	3	6	3100	3150	3300	3350			
wide view full free duplex mast	XX50/XX55U250	2500	1976	2226	3365	3615	3865	3900	1114	1112	610	829	570	610	6	12	5000	5500	5000	5500			
	XX50/XX55U275	2750	2100	2350	3615	3865	4115	4150	1238	1236	735	953	570	610	6	12	5000	5500	5000	5500			
	XX50/XX55U300	3000	2226	2476	3865	4115	4365	4400	1364	1362	860	1079	570	610	6	12	5000	5500	5000	5500			
	XX50/XX55U330	3300	2376	2626	4165	4415	4665	4700	1514	1512	1010	1229	570	610	6	12	5000	5500	5000	5500			
	XX50/XX55U350	3500	2476	2726	4365	4615	4865	4900	1614	1612	1110	1329	570	610	6	12	5000	5500	5000	5500			
	XX50/XX55U360	3600	2526	2776	4465	4715	4965	5000	1664	1662	1160	1379	570	610	6	12	5000	5500	5000	5500			
	XX50/XX55U370	3700	2576	2826	4565	4815	5065	5100	1714	1712	1210	1429	570	610	6	12	5000	5500	5000	5500			
	XX50/XX55N400	4000	2080	2305	4860	5110	5365	5400	1222	1195	715	910	615	645	6	6	5000	5500	5000	5500			
wide view full free triplex mast	XX50/XX55N430	4300	2180	2405	5160	5410	5665	5700	1322	1295	815	1010	615	645	6	6	4700	5000	4800	5200			
	XX50/XX55N450	4500	2248	2470	5370	5610	5880	5900	1390	1360	883	1075	615	645	6	6	4600	4750	4700	4900			
	XX50/XX55N470	4700	2310	2535	5560	5810	6070	6100	1452	1425	945	1140	615	645	6	6	4500	4600	4600	4800			
	XX50/XX55N480	4800	2340	2570	5660	5910	6170	6200	1482	1460	975	1175	615	645	6	6	4300	4450	4500	4650			
	XX50/XX55N500	5000	2410	2635	5860	6110	6370	6400	1552	1525	1045	1240	615	645	6	6	4000	4200	4250	4500			
	XX50/XX55N550	5500	2575	2805	6360	6610	6870	6900	1718	1695	1210	1410	615	645	3	6	3600	3850	4000	4100			
	XX50/XX55N600	6000	2790	3020	6870	7110	7380	7400	1932	1910	1425	1625	615	645	3	6	3000	3050	3200	3250			
	XX50/XX55N650	6500	2980	3200	7370	7610	7880	7900	2123	2090	1615	1805	615	645	3	6	/	/	2650	2900			
	XX50/XX55N700	7000	3155	3375	7865	8110	8375	8400	2298	2265	1790	1980	615	645	3	6	/	/	2350	2550			