



XF SERIES

DIESEL / LPG COUNTERBALANCED TRUCKS

with capacities of 5,000 to 7,000kg



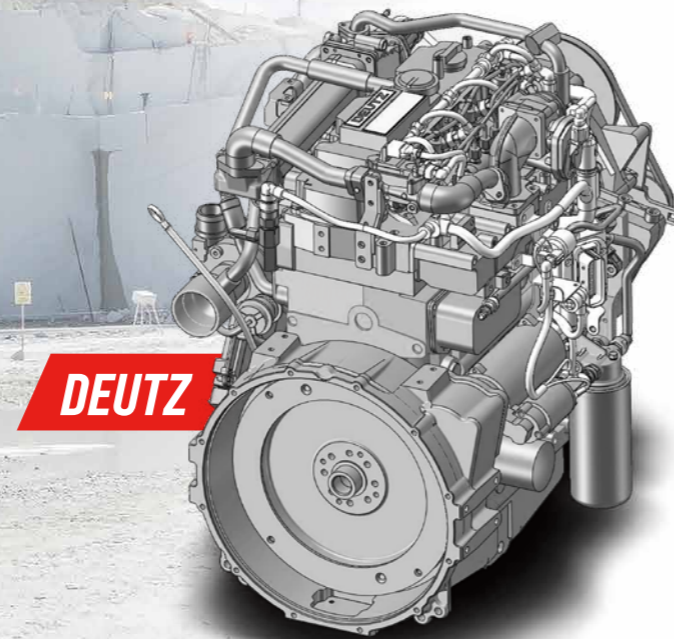
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HANGCHA be with you at every stage

Efficient, reliable solutions for your demands

STAGE V



With Hangcha you can meet all Stage V emissions standards which provides customer demands for value, innovation and performance. The technologies include common rail fuel systems, turbocharged Inter-cooled, EGR + DOC + DPF. Designed and optimised to every engine model, our forklift truck maximises efficiency and reliability.

HANGCHA Forklift with StageV

No.	Capacity	Series	Manufacturer	Engine	Drive power	Model	Emission Std.	Transmission	Power (kw/rpm)	Service brake
1	5.0-7.0t	XF	DEUTZ	TCD 3.6 L4	Diesel	CPCD50/60/70-XW95G	Stage V/T4F	ZF	55.4/2300	Wet brake
2	5.0-7.0t	XF	Cummins	F3.8	Diesel	CPCD50/60/70-XH16B	Stage V/T4F	Okamura	90/2200	Wet brake
3	5.0-7.0t	XF	Yuchai	YCA05115-S500	Diesel	CPCD50/60/70-XH15B	Stage V	Okamura	85/2200	Wet brake
4	5.0-7.0t	XF	PSI	PSI 4.3	LPG	CPYD50/60/70-XH20	Stage V	CHINA	79.75/2300	Drum brake

Note: Stage V applied for European Union also including Israel and Turkey

EASY MAINTENANCE

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

- ▶ The location of the air-filter is easy to reach, and it's very easy to replace the filter.
- ▶ The rotating LPG bottle holder is easy to replace the bottle, reduces the downtime.
- ▶ All the locations of the engine oil level dipstick, filter of hydraulic, water separator are easy to reach, and very easy for engineer 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.



PRODUCTIVITY

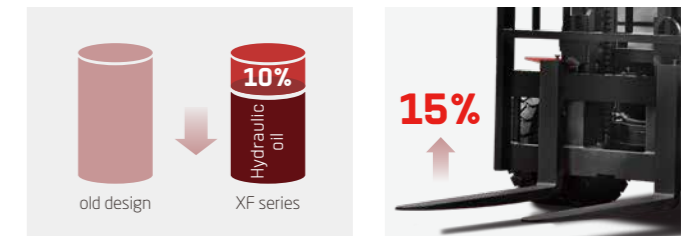
Thanks to the series technological innovations, the efficiency of the truck is improved, the energy consumption is reduced.



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



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



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



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

COMFORTABLE OPERATION

In developing the XF 5-7t series, comfort and easy operation is always considered, for example, improved vibrating levels, compound engine damper and full floating seat and cabin are applied. Comfortable also contribute to increased productivity.

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



▶ The automobile-style suspended pedals provide more ergonomic operation.



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



▶ 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.

▶ Only 90N parking brake force is required.



▶ 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.



SAFETY

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



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



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 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.

▶ A throttling device is adopted to avoid the mast being out of control even some pipes are broken.



WIDER

WIDER 30%

▶ 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.

SOFTLY

▶ 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.

WIDER

▶ The new design mast provides broad forward visibility due to the distance between inside mast is increase 60mm.

RELIABILITY

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



▶ The patent plated-fin type aluminum radiator is applied, the heat exchanging is approved, and improves the capability for operation in severe environments.



▶ 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.



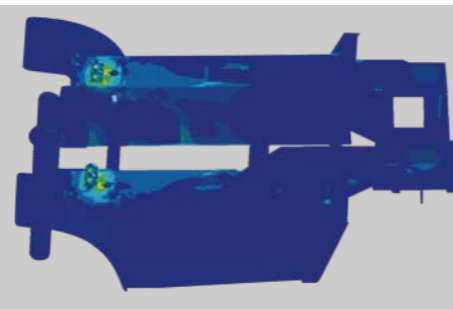
▶ All the controllers, relays, and safety fuses are allocated in the controller box, free to water and dust. The main electronic components are waterproof, which is capable operator in severe environment. And the famous brand air-filter is also applied in the truck.



▶ 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 converter and the chassis, the overhead guard and the chassis. And the suspension seat is another vibration reduction.



▶ Brake oil and steering oil are separated, non-interference in each other, using dynamic load sensing steering system, more energy efficient.



▶ High strength chassis, mast and front/rear axle are to make sure the reliability of the truck, even for high strength application.

5.0-7.0t XF series mast: (pneumatic)

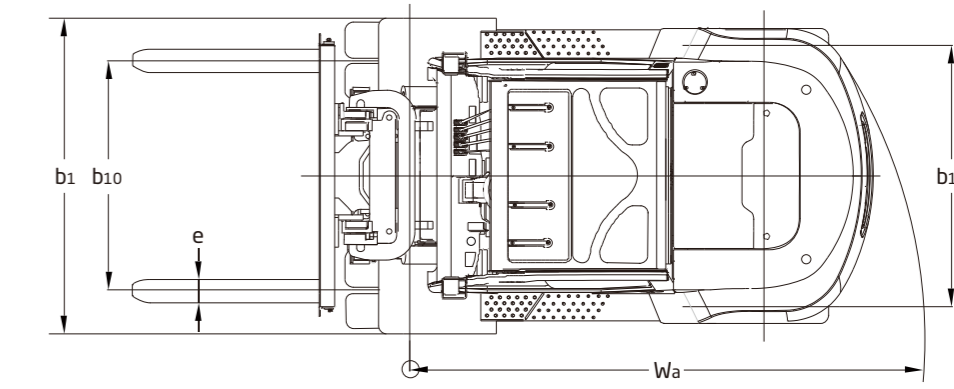
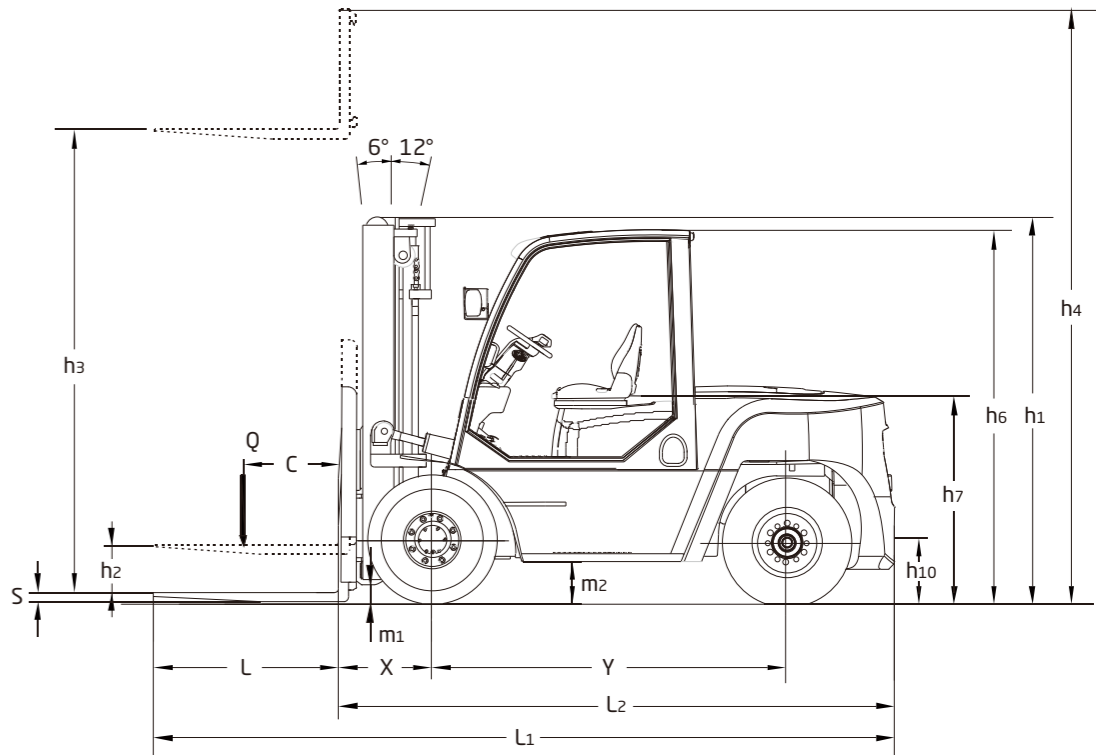
Type	Model	Overall height		Free lift		Load distance, centre of drive axle to fork	Tilt range FWD/BWD	Capacity Load capacity at 600mm Double tire			
		Lowered	Extended		Without backrest			With backrest	5.0t	6.0t	7.0t
			Without backrest	With backrest							
Wide view mast	X50/70M250	2500	3505/3667	3907	160	160	598.5/603.5	6/12	5000	6000	7000
	X50/70M270	2700	3705/3867	4107	160	160	598.5/603.5	6/12	5000	6000	7000
	X50/70M300	3000	4005/4167	4407	160	160	598.5/603.5	6/12	5000	6000	7000
	X50/70M330	3300	4305/4467	4707	160	160	598.5/603.5	6/12	5000	6000	7000
	X50/70M360	3600	4605/4767	5007	160	160	598.5/603.5	6/12	5000	6000	7000
	X50/70M400	4000	5005/5167	5407	160	160	598.5/603.5	6/12	5000	6000	7000
	X50/70M430	4300	5305/5467	5707	160	160	598.5/603.5	6/6	5000	6000	7000
	X50/70M450	4500	5505/5667	5907	160	160	598.5/603.5	6/6	5000	6000	7000
	X50/70M480	4800	5805/5967	6207	160	160	598.5/603.5	6/6	5000	6000	7000
	X50/70M500	5000	6005/6167	6407	160	160	598.5/603.5	6/6	5000	6000	7000
Wide view full free duplex mast	X50/70M550	5500	6550/6667	6907	160	160	598.5/603.5	3/6	4750	5700	6600
	X50/70M600	6000	7050/7167	7407	160	160	598.5/603.5	3/6	4450	5400	6400
	X50/70U250	2500	3455/3615	3637	1230/1070	1048	625.5/631.5	6/12	5000	6000	7000
	X50/70U270	2700	3655/3815	3837	1345/1185	1163	625.5/631.5	6/12	5000	6000	7000
	X50/70U300	3000	3955/4115	4137	1495/1335	1313	625.5/631.5	6/12	5000	6000	7000
Wide view full free triplex mast	X50/70U330	3300	4255/4415	4437	1645/1485	1463	625.5/631.5	6/12	5000	6000	7000
	X50/70U360	3600	4555/4715	4737	1795/1635	1613	625.5/631.5	6/12	5000	6000	7000
	X50/70U400	4000	4955/5115	5137	1995/1835	1813	625.5/631.5	6/12	5000	6000	7000
	X50/70N400	4000	5282	5407	1300	1178	667/672	6/12	4500	5500	6400
	X50/70N450	4500	5735	5907	1500	1328	667/672	6/6	4500	5500	6400
	X50/70N480	4800	6035	6207	1600	1428	667/672	6/6	4500	5500	6300
	X50/70N500	5000	6213	6407	1672	1478	667/672	6/6	4500	5500	6300
X50/70N550	5500	6785	6907	1800	1678	667/672	3/6	4200	5200	6100	
X50/70N600	6000	7235	7407	2000	1828	667/672	3/6	4000	5000	5500	
X50/70N650	6500	7713	7907	2172	1978	667/672	3/6	3800	4000	4500	
X50/70N700	7000	8385	8407	2300	2278	667/672	3/6	3000	3300	3800	

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

Technical data

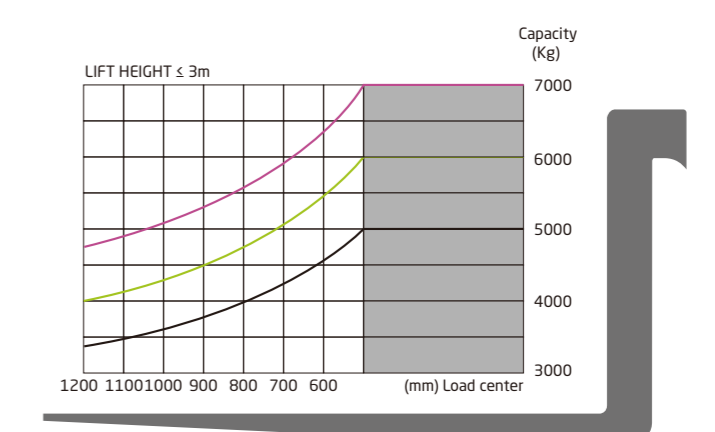
		HANGCHA GROUP CO.,LTD.																
Distinguishing mark	1.1	Manufacturer																
	1.2	Manufacturer's type designation	CPY050-XW68	CPY060-XW68	CPY070-XW68	CPC050-XW95G	CPC060-XW95G	CPC070-XW95G	CPC050-XH16B	CPC060-XH16B	CPC070-XH16B	CPC050-XH15B	CPC060-XH15B	CPC070-XH15B	CPY050-XH20	CPY060-XH20	CPY070-XH20	
Weight	1.3	Drive: electric (battery or mains), diesel, petrol, fuel gas	LPG	LPG	LPG	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	LPG	LPG	LPG	
	1.4	Operator type: hand, pedestrian, standing, seated, order-pickier	Seat	Seat	Seat	Seat	Seat	Seat	Seat	Seat	Seat	Seat	Seat	Seat	Seat	Seat	Seat	
Tyres, chassis	1.5	Rated capacity/ rated load	0 [kg]	5000	6000	7000	5000	6000	7000	5000	6000	7000	5000	6000	7000	5000	6000	
	1.6	Load centre distance	c [mm]	600	600	600	600	600	600	600	600	600	600	600	600	600	600	
Dimensions	1.7	Load distance, centre of drive axle to fork	x [mm]	598.5	598.5	603.5	598.5	598.5	603.5	598.5	598.5	603.5	598.5	603.5	598.5	598.5	603.5	
	1.8	Wheelbase	y [mm]	2300	2300	2300	2300	2300	2300	2300	2300	2300	2300	2300	2300	2300	2300	
Performance data	2.1	Service weight	kg	7950	8480	9250	8000	8530	9300	8000	8530	9300	8000	8530	9300	7950	8480	9250
	2.2	Axle loading, laden front/rear	kg	11270/1680	12770/1710	14600/1650	11290/1710	12790/1740	14620/1680	11290/1710	12790/1740	14620/1680	11290/1710	12790/1740	14620/1680	11270/1680	12770/1710	14600/1650
Combustion engine	2.3	Axle loading, unladen front/rear	kg	3850/4100	3730/4750	3680/5570	3870/4130	3750/4780	3700/5600	3870/4130	3750/4780	3700/5600	3870/4130	3750/4780	3700/5600	3850/4100	3730/4750	3680/5570
	3.1	Tyres: solid rubber, superelastic, pneumatic, polyurethane		pneumatic	pneumatic	pneumatic	pneumatic	pneumatic	pneumatic	pneumatic	pneumatic	pneumatic	pneumatic	pneumatic	pneumatic	pneumatic	pneumatic	
Addition data	3.2	Tyre size, front		8.25-15-14PR	8.25-15-14PR	8.25-15-14PR	8.25-15-14PR	8.25-15-14PR	8.25-15-14PR	8.25-15-14PR	8.25-15-14PR	8.25-15-14PR	8.25-15-14PR	8.25-15-14PR	8.25-15-14PR	8.25-15-14PR	8.25-15-14PR	
	3.3	Tyre size, rear		8.25-15-14PR	8.25-15-14PR	8.25-15-14PR	8.25-15-14PR	8.25-15-14PR	8.25-15-14PR	8.25-15-14PR	8.25-15-14PR	8.25-15-14PR	8.25-15-14PR	8.25-15-14PR	8.25-15-14PR	8.25-15-14PR	8.25-15-14PR	
Performance data	3.5	Wheels, number front rear (x = driven wheels)		4x/2	4x/2	4x/2	4x/2	4x/2	4x/2	4x/2	4x/2	4x/2	4x/2	4x/2	4x/2	4x/2	4x/2	
	3.6	Tread, front	b10 [mm]	1489	1489	1489	1489	1489	1489	1489	1489	1489	1489	1489	1489	1489	1489	
Performance data	3.7	Tread, rear	b11 [mm]	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	
	4.1	Tilt of mast/fork carriage forward/backward	a/b [°]	6/12	6/12	6/12	6/12	6/12	6/12	6/12	6/12	6/12	6/12	6/12	6/12	6/12	6/12	
Performance data	4.2	Height, mast lowered	h1 [mm]	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	
	4.3	Free lift	h2 [mm]	160	160	160	160	160	160	160	160	160	160	160	160	160	160	
Performance data	4.4	Lift	h3 [mm]	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	
	4.5	Height, mast extended	h4 [mm]	4407	4407	4407	4407	4407	4407	4407	4407	4407	4407	4407	4407	4407	4407	
Performance data	4.7	Height of overhead guard	h5 [mm]	2430	2430	2430	2430	2430	2430	2430	2430	2430	2430	2430	2430	2430	2430	
	4.8	Seat height	h7 [mm]	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	
Performance data	4.12	Coupling height	h10 [mm]	430	430	430	430	430	430	430	430	430	430	430	430	430	430	
	4.19	Overall length	l1 [mm]	4699	4729	4804	4699	4729	4804	4779	4804	4779	4854	4779	4854	4699	4729	4804
Performance data	4.20	Length to face of forks	l2 [mm]	3499	3529	3604	3499	3529	3604	3579	3604	3579	3654	3579	3654	3499	3529	3604
	4.21	Overall width	b1 [mm]	1990	1990	1990	1990	1990	1990	1990	1990	1990	1990	1990	1990	1990	1990	
Performance data	4.22	Fork dimensions	s/e/l [mm]	65x150x1220	65x150x1220	65x150x1220	65x150x1220	65x150x1220	65x150x1220	60x150x1220	60x150x1220	65x150x1220	60x150x1220	60x150x1220	65x150x1220	65x150x1220	65x150x1220	
	4.23	Fork carriage DIN 15173, class/type A, B		IV A	IV A	IV A	IV A	IV A	IV A	IV A	IV A	IV A	IV A	IV A	IV A	IV A	IV A	
Performance data	4.24	Fork-carriage width	b3 [mm]	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	
	4.31	Ground clearance, laden, mast	m1 [mm]	190	190	190	190	190	190	190	190	190	190	190	190	190	190	
Performance data	4.32	Ground clearance, centre of wheelbase	m2 [mm]	270	270	270	270	270	270	270	270	270	270	270	270	270	270	
	4.34.1	Aisle width for pallets 1000 x 1200 crossways	Ast [mm]	5030	5080	5150	5030	5080	5150	5030	5080	5150	5030	5080	5150	5030	5080	5150
Performance data	4.34.2	Aisle width for pallets 800 x 1200 lengthways	Ast [mm]	5230	5280	5350	5230	5280	5350	5230	5280	5350	5230	5280	5350	5230	5280	5350
	4.35	Turning radius	Wa [mm]	3230	3280	3350	3230	3280	3350	3310	3310	3380	3310	3310	3380	3230	3280	3350
Performance data	4.36	Turning radius	b13 [mm]	1222	1222	1222	1222	1222	1222	1222	1222	1222	1222	1222	1222	1222	1222	
	5.1	Travel speed, laden/unladen	km/h	29.8/31	28.1/31	27.1/31	24/28.3	23/28.3	22/28.3	24/28.3	23/28.3	22/28.3	24/28.3	23/28.3	29.8/31	28.1/31	27.1/31	
Performance data	5.2	Lift speed, laden/unladen	m/s	0.432/0.458	0.432/0.458	0.382/0.405	0.410/0.450	0.410/0.450	0.380/0.400	0.450/0.520	0.450/0.520	0.400/0.450	0.450/0.520	0.450/0.520	0.400/0.450	0.432/0.458	0.432/0.458	0.382/0.405
	5.3	Lowering speed, laden/unladen	m/s	0.480/0.420	0.480/0.420	0.480/0.420	0.480/0.420	0.480/0.420	0.480/0.420	0.480/0.420	0.480/0.420	0.480/0.420	0.480/0.420	0.480/0.420	0.480/0.420	0.480/0.420	0.480/0.420	0.480/0.420
Performance data	5.5	Drawbar pull, laden/unladen	N	50000/25440	50000/26720	50000/27500	63960/25440	64280/26720	65000/27500	63960/25440	64280/26720	65000/27500	63960/25440	64280/26720	65000/27500	50000/25440	50000/26720	50000/27500
	5.7	Gradeability, laden/unladen	%	38/20	33/20	27/20	41/20	36/20	30/20	41/20	36/20	30/20	41/20	36/20	30/20	33/20	33/20	27/20
Performance data	5.10	Service brake		Drum brake	Drum brake	Drum brake	Wet brake	Wet brake	Wet brake	Wet brake	Wet brake	Wet brake	Wet brake	Wet brake	Drum brake	Drum brake	Drum brake	
	7.1	Engine manufacturer/type		PSI 4.3L(LPG)/NON-CERT	PSI 4.3L(LPG)/NON-CERT	PSI 4.3L(LPG)/NON-CERT	TC03.6 L4	TC03.6 L4	TC03.6 L4	F3.8	F3.8	F3.8	YCA05115-S500	YCA05115-S500	YCA05115-S500	PSI 4.3	PSI 4.3	PSI 4.3
Performance data	7.2	Engine power according to DIN ISO 1585	kw	77	77	77	55.4	55.4	55.4	90	90	90	85	85	79.75	79.75	79.75	
	7.3	Rated speed	r/min	2300	2300	2300	2300	2300	2300	2200	2200	2200	2200	2200	2300	2300	2300	
Performance data	7.4	No. of cylinders/displacement	[-]/[cm³]	V6/4294	V6/4294	V6/4294	4/3621	4/3621	4/3621	4/3759	4/3759	4/3759	4/4837	4/4837	6/4294	6/4294	6/4294	
	10.1	Operating pressure for attachments	bar	190	190	190	190	190	190	190	190	190	190	190	190	190	190	
Performance data	10.2	Oil volume for attachments	l/min	120	120	120	120	120	120	120	120	120	120	120	120	120	120	
	10.8	Towing coupling, type DIN 15170		Pin	Pin	Pin	Pin	Pin	Pin	Pin	Pin	Pin	Pin	Pin	Pin	Pin	Pin	

* Aisle width calculation based on VDI 2198



Optional Engine / Transmission

Engine	Engine manufacturer/type		ISUZU 6BG10P	PSI PSI 4.3	PSI PSI 4.3	DEUTZ TCD3.6 L4	Cummins F3.8	Yuchai YCA05115-S500	PSI PSI 4.3	PSI PSI 4.3
	Manufacturer's type designation	W14		W57	W68	W95	H16	H15		
Drive	Diesel		GAS/LPG	LPG	Diesel	Diesel	Diesel			
Emission STD	G1		--	--	Stage V/T4f	Stage V/T4f	Stage V			EPA Tier2/CARB Tier 3
Engine power	kw/r/min	85.3/2200	LPG 77/2300 GAS 76/2300	77/2300	55.4/2300	90/2200	85/2200	79.75/2300	77/2300	
Rated torque	N.m/r/min	410.9/1500±100	LPG 332.85/1400 GAS 318/2300	332.85/1400	405/1300	500/1500	500/1300-1600	332.5/2000	332.85/1400	
Number of cylinders/displacement	ml	6/4294	6/4294	6/4294	4/3621	4/3759	4/4837	6/4294	6/4294	
Transmission	Transmissions Type		Powershift	Powershift	Powershift	Powershift	Powershift	Powershift	Powershift	Powershift
Transmissions Manufacturer			CHINA	CHINA	CHINA	ZF(GERMANY)	Okamura	Okamura	CHINA	CHINA
Rated capacity/ rated load	0 [kg]	5000-7000	5000-7000	5000-7000	5000-7000	5000-7000	5000-7000	5000-7000	5000-7000	5000-7000



Features

Truck	Standard	Options
Traction device	●	
Hand grip	●	
Standard seat	●	
Standard overhead guard	●	
Waterproof cover on the guard	●	
Back view mirror	●	
Pneumatic tyres	●	
Cabin		○
Cabin heater		○
Front window		○
Super elastic tyre		○
Non-mark tyre(white/green)		○
Suspension seat		○
Extinguisher		○
Special given color		○
Boot for tilt cylinder		○
Counter weight net		○
Seat sensor system		○
Toolbox		○
Hood lock (for W95 engine)		○
Steering		
Full hydraulic power steering	●	
Smaller diameter steering wheel	●	
Adjuster of steering wheel	●	
Chassiss		
Skidproof pedal	●	
Rubber pedal	●	
Engine hood spring	●	
Control		
Power steering	●	
Suspension pedal	●	
Integrated combination switch	●	
Parking brake	●	
Hydraulic		
Dynamic load sending control valve	●	
Hydraulic oil filter	●	
Tilt cylinder self-lock valve	●	
Hydraulic oil dipstick	●	
Accumulator	●	
Auxiliary hydraulic valve		○
Electro-hydraulic		○
Proportional control system		○
Transmission		
Suspension transmission	●	
Oil filter	●	
Dipstick	●	
Oil cooler	●	
Non-asbestos brake	●	
Wet brake (W65/W95/H16/H15)	●	
Drum brake (W14/W57/W68/W24/H20)	●	
Japanese drum brake		○
Wet brake		○
Power		
Big capacity aluminum radiator	●	
Whirlwind air cleaner	●	
Safety filter	●	
High-efficient intake muffler	●	
High-efficient exhaust muffler	●	
Middle-positioned exhaust system (W65/W14/W57/W68/W24/H20)	●	
High-positioned exhaust system (W95/H16/H15)	●	
Upright exhaust system		○
Air pre-cleaner		○
Net cover of radiator		○
Spark arrester		○
Purified exhaust system		○
Fan protector		○

Electronics	Standard	Options
High-efficient front lights	●	
High-efficient LED rear lights	●	
Service-free start battery	●	
Combination controller	●	
LCD display	●	
Neutral switch	●	
Hour meter	●	
Fuel gauge	●	
Water temperature gauge	●	
Pre-heat indicator	●	
Charging indicator	●	
Engine fuel pressure warning	●	
Oil temperature	●	
Horn	●	
Reversing buzzer	●	
Air-filter with jam sensor	●	
Emergency power off	●	
OBD		○
Front working light		○
Rear working light		○
Warning lamp		○
Mast		
Standard wide view duplex mast	●	
Standard forks	●	
Standard fork carriage	●	
Standard load back rest	●	
Mast speed limiting valve	●	
Load safety valve	●	
Mast down buffer device	●	
Mast up buffer device	●	
Side roller	●	
Duplex wide view free-lift mast		○
Triplex wide view free-lift mast		○
Special forks		○
Wider fork carriage		○
Widerload back rest		○
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		○