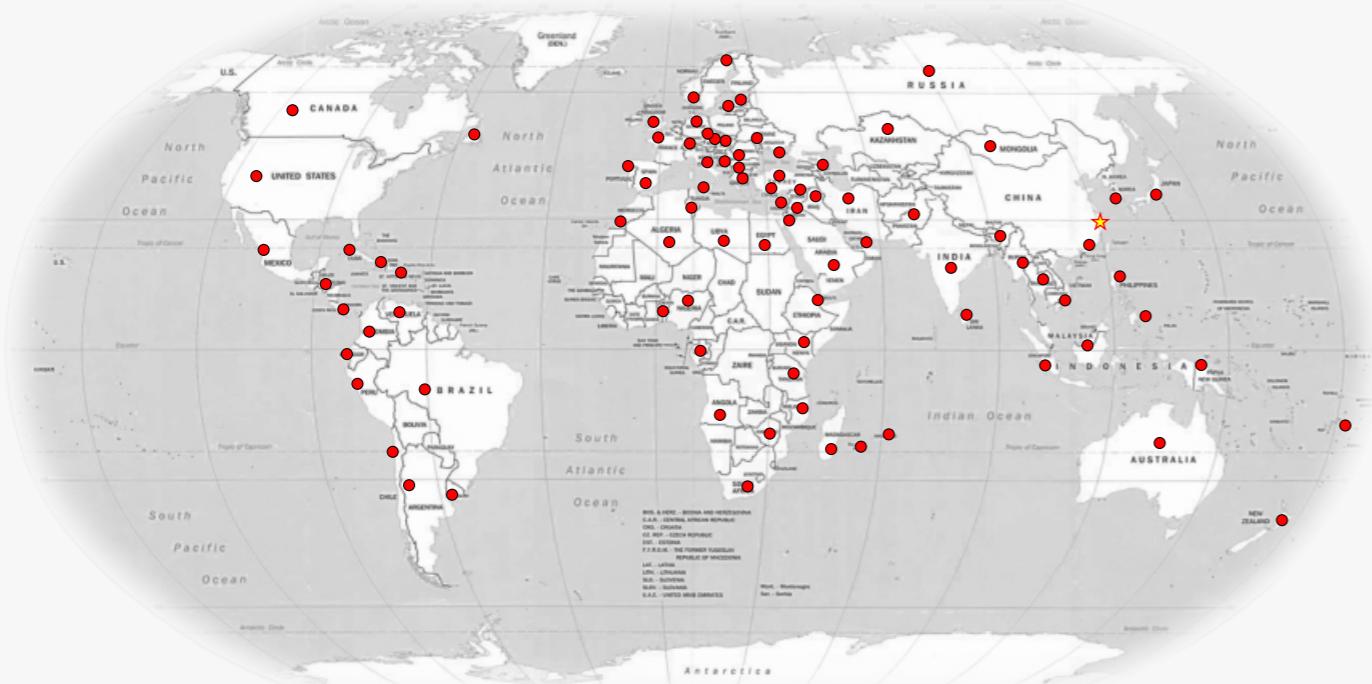


GLOBAL SALES NETWORK



XF Series

1.0 / 1.5 / 1.8 / 2.0 / 2.5 / 3.0 / 3.5 T
Diesel / Gasoline / LPG

HC
HANGCHA



CE CERTIFICATE



ISO14001: 2004



ISO9001: 2008

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HANGCHA GROUP CO., LTD.



Comfortable operation

- ① 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.

- ② 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.

- ③ The developed front lifting cylinders with smaller outer diameter give the operator superior forward visibility.

The double front lifting cylinders provide better forward visibility.



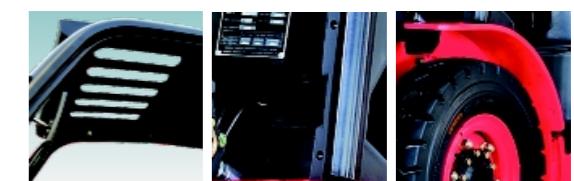
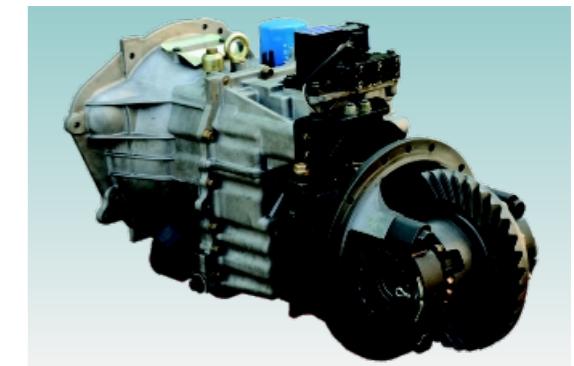
Reliability

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

The new aluminum alloy transmission with full floating structure features excellent heat dissipation capability, more and thicker disc meet the most demanding applications.

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.

- ④ 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.



Productivity

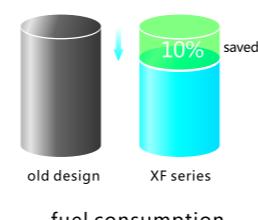
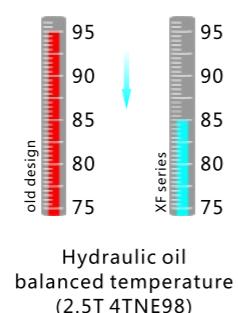
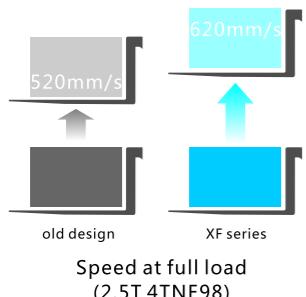


Dynamic load sensing hydraulic steering system, Efficiency lighting system, lower fuel consumption, combine to provide increased productivity and reduced operating costs.

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.

By optimizing transmission design, the power train provides higher efficiency. The fuel consumption is reduced by 10%.



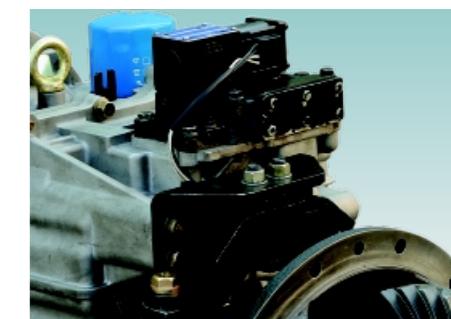
Comfortable operation

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.

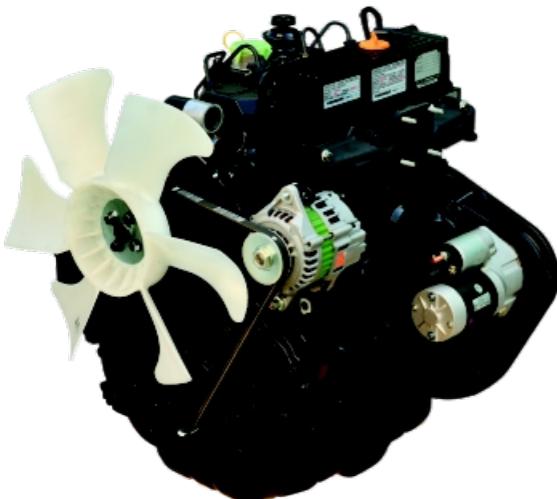
The enlarged capacity of optimized exhaust muffler, the intake muffler and the noise shield technologies provide significantly lower noise levels.



- 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.



Environmental Friendliness



A lineup of powerful and clean engines and environment friendly materials help to reduce the output of undesirable substances over the lifetime of the truck, while creating a cleaner work environment.

Each model employs a specially developed engine for the optimum balance of power and superior environmental performance. All engines are in compliance with EU stage-III control regulation.

The environment friendly materials, such as non-asbestos brake shoe and new type sealing gasket, are adopted entirely to pursue environmental safety.

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



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.



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.



Easy maintenance

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

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.



Standards

Transmission	Steering	Chassis	Control	Hydraulic
Suspension transmission Oil filter Dipstick Oil cooler Non-asbestos bakes	Full hydraulic power steering Smaller diameter steering wheel Adjuster of steering wheel	Skidproof 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

Truck	Electronics	Mast
Traction device Hand grip Standard seat Standard overhead guard Waterproof cover on the guard Back view mirror Pneumatic tyres Toolbox	Big capacity aluminum radiator Whirlwind air cleaner Safety filter High-efficient intake muffler High-efficient exhaust muffl Upright exhaust pipe Neutual switch Hour meter Fuel gauge Water temperature gauge heat ind cator-Pre Charging indicator Engine fuel pressure warning Transmission oil pressure warning Horn Reversing uzzer Power off	High-efficient front lights High-efficient LED rear lights Service-free start battery Combination controller LCD display Neutual switch Hour meter Fuel gauge Water temperature gauge heat ind cator-Pre Charging indicator Engine fuel pressure warning Transmission oil pressure warning Horn Reversing uzzer Power off

Options

Truck	Transmission	Power	Hydraulic	Electronics	Mast
Cabin	2-D wheel	Duel fuel LPG system	Auxiliary hydraulic valve	OBD	Duplex wide view free-lift mast
Cabin heater	Wet brake system	Big capacity copper radiator	Electro-hydraulic proportional control system	Front working light	Triplex wide view free-lift mast
Front window	Upright exhaust system	Middle-positioned exhaust system	Return oil filter	Rear working light	Triplex wide view 4-cylinder free-lift mast
Super elastic tyre	Extinguisher	Air pre-cleaner	Net cover of radiator	Warning lamp	Special forks
Non-mark tyre(white/green)	Cover of tilt cylinder	Sparkle arrester	Sparkle arrester	Oil-water seperator warning	Wider fork carriage
Suspension seat	Heightening overhead guard	Purified exhaust system	Purified exhaust system		Wider load back rest
Extintisher	Reversing assist grip	Swivel LPG bottle support	Swivel LPG bottle support		
Cover of tilt cylinder	Special given color	Downward LPG bottle support	Downward LPG bottle support		
Heightening overhead guard	Seat with sensor system	Fan protector	Fan protector		
Reversing assist grip	Boot for tilt cylinder				
Special given color	Counter weight net				
Seat with sensor system					
Boot for tilt cylinder					
Counter weight net					

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 extensiner Load release device Carton clamp Push-pull device Bucket Hook Lengthened fork
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XF series 1.0-2.0t forklift specification:

General		HANGCHA GROUP CO., LTD																					
1	Manufacturer	CPCD10	CPQD10	CPCD15	CPYD15	CPQD15	CPYD15	CPQYD15	CPCD18	CPYD18	CPQD18	CPYD18	CPQYD18	CPCD20	CPYD20	CPQD20	CPYD20	CPQYD20	CPCD20	CPYD20	CPQD20	CPYD20	CPQYD20
2	Basic model	XW32F/B/M	XW21F/B/M	XW32F/B/M	XW51F/B/M	XW21F/B/M	XW32F/B/M	XW51F/B/M	XW32F/B/M	XW51F/B/M	XW21F/B/M	XW33F/B/M	XW52F/B/M	XW22F/B/M	XW32F	XW51F	XW21F						
3	Type	Diesel	Gasoline	Diesel	LPG	Gasoline	LPG	DUAL FUEL	Diesel	LPG	Gasoline	LPG	DUAL FUEL	Diesel	LPG	Gasoline	LPG	DUAL FUEL	Diesel	LPG	Gasoline	LPG	DUAL FUEL
4	Power type																						
5	Rated Capacity	kg	1000		1500		1750										2000						
6	Load center	mm	500		500		500										500						
Characteristics & Dimensions	7	Lifting height	mm	3000		3000		3000									3000						
	8	Free lift height	mm	155		155		155									140						
	9	Fork size L × W × T	mm	920×100×35		920×100×35		920×100×35									1070×122×40						
	10	Mast tilt angle F/R (°)		6/12		6/12		6/12									6/12						
	11	Fork overhang(wheel center to fork face)	mm	405		405		405									465						
	12	Rear overhang	mm	375		405		430									415						
	13	length to face of fork	mm	2255		2285		2310									2530						
	14	Overall dimensions Overall width	mm	1080		1080		1080									1155						
	15	Mast lowered height	mm	1995		1995		1995									2035						
	16	Mast extended height	mm	3955		3955		3955									4045						
	17	Overhead guard height	mm	2125 (2205*)		2125(2205*)		2125(2205*)									2135(2215*)						
	18	Turning radius(outside)	mm	1965		1990		2015									2180						
	19	Min. right angle stacking aisle width (Add load length and clearance)	mm	2370		2395		2420									2645						
Performance	20	Travel (No load)	km/h	19/19.3/19	18/18/18	19/19.3/19	18/18/18	18/18/18	19/19.3/19	18/18/18	18/18/18	18/18.6/17.9	19/19.4/18.7	19/19.4/18.7	19.4	18.2	18.2						
	21	Speed Lifting(Full load)	mm/s	580	510	580	510	580	510	510	510	620	560	560	600	490	490						
	22	Lowering speed(full load)	mm/s	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	
	23	Max. Drawbar Pull (Full load)	N	14600/14400/14100	14800/14600/14300	14600/14400/14100	14800/14600/14300	14800/14600/14300	14600/14400/14100	14800/14600/14300	14800/14600/14300	19800/19400/19500	18700/18300/18400	18700/18300/18400	14300	14500	14500						
	24	Max. gradeability (Full load)※	%	40/39/38	41/40/39	33/33/32	34/33/33	34/33/33	30/30/29	31/30/30	31/30/30	35/34/34	33/32/32	33/32/32	24	25	25						
Chassis	25	Tyres Front	mm	6.50-10-10PR		6.50-10-10PR		6.50-10-10PR									7.00-12-12PR						
	26	Rear	mm	5.00-8-10PR		5.00-8-10PR		5.00-8-10PR									6.00-9-10PR						
	27	Tread Front	mm	900		900		900									965						
	28	Rear	mm	920		920		920									973						
Weight	29	Wheelbase	mm	1475		1475		1475									1650						
	30	Ground clearance Lowest	mm	115		115		115									115						
	31	Wheelbase center	mm	140		140		140									150						
	32	Service wieght	kg	2510		2650		2760									3405						
Power & transmission	33	Weight Distribution with Full load	Front/Rear	3055/455		3660/490		3995/520									4705/700						
	34	with Out load	Front/Rear	1260/1250		1240/1410		1225/1540									1610/1795						
	35	Battery Voltage/Capacity (20HR)	V/Ah	12/60		12/60		12/60									12/90	12/60	12/60	12/90	12/60	12/60	
	36	Model		4TNE92	K21	4TNE92	K21LPG	K21	4TNE92	K21LPG	K21	4TNE98	K25LPG	K25	4TNE92	K21LPG	K21						
Engine	37	Manufacturer		YANMAR	GCT(NISSAN)	YANMAR	GCT(NISSAN)	GCT(NISSAN)	YANMAR	GCT(NISSAN)	GCT(NISSAN)	YANMAR	GCT(NISSAN)	GCT(NISSAN)	YANMAR	GCT(NISSAN)	GCT(NISSAN)						
	38	rated output kW/r/min		32.8/2450	31.5/2300	32.8/2450	29/2250	31.5/2300	32.8/2450	29/2250	31.5/2300	42.1/2300	35/2400	38/2400	32.8/2450	29/2250	31.5/2300						
	39	Rated torque N·m/r/min		142/1600	144/1600	142/1600	140/1600	144/1600	142/1600	140/1600	144/1600	186/1700	170/1600	185/1600	142/1600	140/1600	144/1600						
	40	No. of cylinder		4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
Transmission	41	Bore × stroke	mm	92×100	89×83	92×100	89×83	89×83	92×100	89×83	89×83	98×110	89×100	89×100	92×100	89×83	89×83						
	42	Emission STD		StagellIIA/Tier4		StagellIIA/Tier4		StagellIIA/Tier4									StagellIIA/Tier4						
	43	Displacement mL		2659	2065	2659	2065	2065	2659	2065	2065	3319	2488	2488	2659	2065	2065						
	44	Fuel tank capacity L		50	50	50	28	50	28	50	50	60	40	60	40	60	40	60	40	60	40	60	
45	46	Transmission manufacturer		HANGCHA/OKAMURA/MS		HANGCHA/OKAMURA/MS		HANGCHA/OKAMURA/MS									HANGCHA/OKAMURA/MS						
	47	Type Stage FWD/RVS																					

XF series 2.5-3.5t forklift specification:

General		HANGCHA GROUP CO., LTD																				
1	Manufacturer		CPCD25	CPYD25	CPQD25	CPYD25	CPQYD25	CPCD25	CPYD25	CPQD25	CPYD25	CPQYD25	CPCD30	CPYD30	CPQD30	CPYD30	CPQYD30	CPCD35	CPYD35	CPQD35	CPYD35	CPQYD35
2	Basic model		XW33F/B/M	XW52F/B/M	XW22F/B/M	XW32F	XW51F	XW21F	XW33	XW33F/B/M	XW52F/B/M	XW22F/B/M	XW33F/B/M	XW52F/B/M	XW22F/B/M	XW33F/B/M	XW52F/B/M	XW22F/B/M	XW33F/B/M	XW52F/B/M	XW22F/B/M	
3	Type	Diesel	LPG	Gasoline	LPG	DUAL FUEL	Diesel	LPG	Gasoline	LPG	DUAL FUEL	Diesel	Diesel	LPG	Gasoline	LPG	DUAL FUEL	Diesel	LPG	Gasoline	LPG	DUAL FUEL
4	Power type																					
5	Rated Capacity	kg				2500								3000							3500	
6	Load center	mm				500								500							500	
7	Lifting height	mm				3000								3000							3000	
8	Free lift height	mm				140								145							145	
9	Fork size	L×W×T	mm			1070×122×40								1070×122×45							1070×122×50	
10	Mast tilt angle	F/R	(°)			6/12								6/12							6/12	
11	Fork overhang(wheel center to fork face)	mm				465								480							485	
12	Rear overhang	mm				490								550							615	
13		length to face of fork	mm			2605								2730							2800	
14		Overall width	mm			1155								1225							1225	
15		Mast lowered height	mm			2035								2050							2165	
16		Mast extended height	mm			4045								4145							4145	
17		Overhead guard height	mm			2135(2215*)								2150(2230*)							2150(2230*)	
18	Turning radius(outside)	mm				2245								2355							2415	
19	Min. right angle stacking aisle width (Add load length and clearance)	mm				2710								2835							2900	
20	Travel (No load)	km/h	18.2/18.6/17.9	19/19.4/18.7	19/19.4/18.7	19.4	18.2	18.2	18.5	17.2/17.6/17.6	17.9/18.4/18.3	17.9/18.4/18.3	17.2/17.6/17.6	17.9/18.4/18.3	17.2/17.6/17.6	17.9/18.4/18.3	17.9/18.4/18.3	17.9/18.4/18.3	17.9/18.4/18.3	17.9/18.4/18.3	17.9/18.4/18.3	
21	Speed	mm/s	620	560	560	600	490	490	540	490	450	450	450	430	385	385						
22	Lifting(Full load)	mm/s	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	
23	Max. Drawbar Pull (Full load)	N	19800/19400/19500	18700/18300/18400	18700/18300/18400	14300	14500	14500	25000	21000/20500/19900	19800/19300/18700	19800/19300/18700	21000/20500/19900	19800/19300/18700	21000/20500/19900	19800/19300/18700	19800/19300/18700	19800/19300/18700	19800/19300/18700	19800/19300/18700		
24	Max. gradeability(Full load)※	%	30/29/29	28/27/27	28/27/27	21	21	21	30	27/26/25	25/24/23	25/24/23	24/23/22	22/22/21	22/22/21	22/22/21	22/22/21	22/22/21	22/22/21	22/22/21		
25	Tyres	Front	mm			7.00-12-12PR								28×9-15-12PR							28×9-15-12PR	
26		Rear	mm			6.00-9-10PR								6.50-10-10PR							6.50-10-10PR	
27	Tread	Front	mm			965								1005							1005	
28		Rear	mm			973								975							975	
29	Wheelbase	mm				1650								1700							1700	
30	Ground clearance	Lowest	mm			115								1300							1300	
31	Wheelbase center					150								165							165	
32	Service wieght	kg				3765								4350							4350	
33	Weight Distribution	with Full load	Front/Rear			5475/790								6450/900							7255/950	
34		with Out load	Front/Rear			1560/2205								1750/2600							1720/2985	
35	Battery	Voltage/Capacity (20HR)	V/Ah	12/90	12/60	12/60	12/90	12/60	12/60	12/90	12/60	12/60	12/90	12/60	12/60	12/60	12/60	12/60	12/60	12/60		
36		Model		4TNE98	K25LPG	K25	4TNE92	K21LPG	K21	4JG2PE	4TNE98	K25LPG	K25	4TNE98	K25LPG	K25	4TNE98	K25LPG	K25	4TNE98	K25LPG	
37	Manufacturer			YANMAR	GCT(NISSAN)	GCT(NISSAN)	YANMAR	GCT(NISSAN)	GCT(NISSAN)	ISUZU	YANMAR	GCT(NISSAN)	GCT(NISSAN)	YANMAR	GCT(NISSAN)	GCT(NISSAN)	YANMAR	GCT(NISSAN)	GCT(NISSAN)	YANMAR	GCT(NISSAN)	
38	rated output	kW/r/min	44.3/2300	35/2400	38/2400	32.8/2450	29/2250	31.5/2300	46/2450	44.3/2300	35/2400	38/2400	44.3/2300	35/2400	38/2400	44.3/2300	35/2400	38/2400	44.3/2300	35/2400	38/2400	
39	Rated torque	N·m/r/min	196/1700	170/1600	185/1600	142/1600	140/1600	144/1600	186/1700	196/1700	170/1600	185/1600	196/1700	170/1600	185/1600	196/1700	170/1600	185/1600	196/1700	170/1600	185/1600	
40	No. of cylinder			4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
41	Bore×stroke	mm	98×110	89×100	89×100	92×100	89×83	89×83	95.4×107	98×110	89×100	89×100	98×110	89×100	89×100	98×110	89×100	89×100	98×110	89×100	89×100	
42	Emission STD			StageIIIA/Tier3			StagellIIA/Tier4							Tier2	StagellIIA/Tier3						StagellIIA/Tier3	
43	Displacement	mL	3319	2488	2488	2659	2065	2065	3059	3319	2488	2488	3319	2488	2488	3319	2488	2488	2488	2488	2488	
44	Fuel tank capacity	L	60	40	60	40	60	60	40	60	40	60	70	70	40	70	40	70	70	40	70	40
45	manufacturer					HANGCHA/OKAMURA/MS								HANGCHA/OKAMURA/MS							HANGCHA/OKAMURA/MS	
46	Transmission	Type					Powershift															