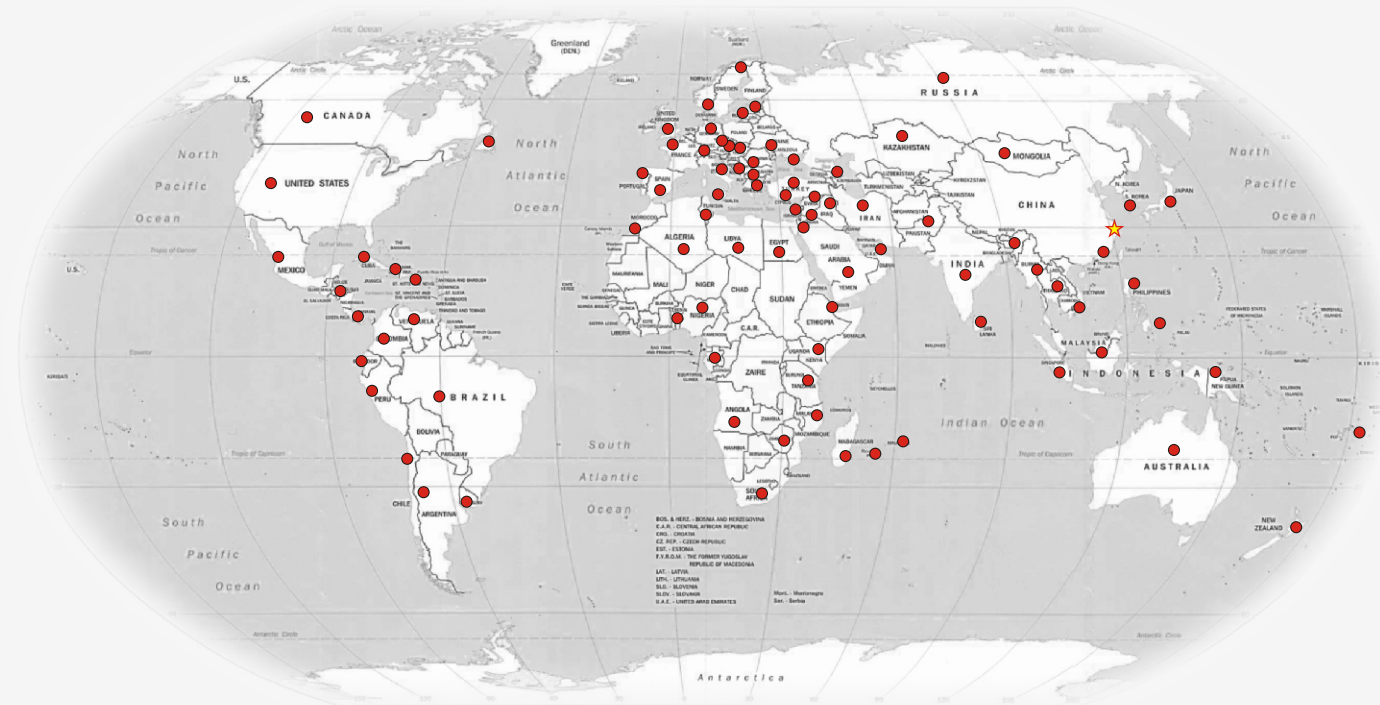


G_{LOBAL} SALES NETWORK



R Series 2.0/2.5T Diesel



CE CERTIFICATE



ISO14001: 2004



ISO9001: 2008

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HANGCHA GROUP CO., LTD.

simple. Easy: **SERVICE**
simple, comprehensive: **PANEL**
strong, wide view: **MASTS**
so much footroom: **DRIVER ROOM**

INTRODUCTION

The new generation R series forklift is combined with durability and ergonomics, providing productivity unmatched by other forklifts and the comfort for hours of tireless operation. Add friendliness to the environment, simple servicing, efficiency on the job, high standards of safety---it's the perfect tool for the most demanding application.

EFFICIENCY

Thanks to the long wheelbase design, the longitudinal stability of whole truck is much better, the hoisting capacity at same lift height are enhanced by an average of 100kg compared with former truck. At the same time, it prolongs work time of rear wheel as the reduced rear axle's load.

The travel speed of truck has been raised, for example, the 2-2.5t type comes to 20km/h.

Increasing the hard proportion of hydraulic pipe, adopting right angle connector or straight through connector, that reduce the pressure loss of pipeline, and raise the lifting speed of mast, the speed is increased by an average of 10% compared with former truck.

Turning radius and width of right angle stacking aisle are decreased through reducing the dimensions of whole truck, that raise the efficiency of storehouse.



SERVICING

Easy opened engine cover and one-touch removal of the floorboard get you right to service operation, and reduces down-time.

The reasonable arrangement of fuse and installation of instrument, enable the replacing for fuse and maintenance for instrument more easy.

ENVIRONMENT FRIENDLY

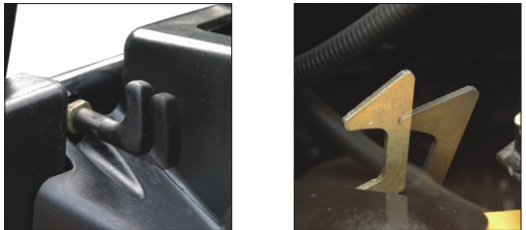
The environment friendly engines all meet related emission control regulation. The noise emission also comes up to EU standard.

The Metal hood and molding sound insulation matches environmental protection demands.

SAFE

A throttling device is set in pipe system, the mast won't result in failing control of mast even some pipes broke.

By using a built-in hood lock device, the safe level of the truck has been raised.



For more than 30 years, **HANGCHA GROUP CO., LTD.** Has played a leading role in the manufacture and production of Chinese forklift industry. We constantly strive to develop and incorporate the latest advances in forklift design and technology to ensure that our products provide an optimum level of performance, all the time. Our new generation R series of forklifts truly exemplifies this commitment to excellence.

- The clearance between the steering axle and support rod can be adjusted, to improve the adaptability for ground.
- The pin of the tilt cylinder adopts a build-in grease fitting, which enables the greas fitting more dependable.
- The high performance specific tires for forklift trucks increase the work life of tires much more.

clean, reliable: **HYDRAULICS**
progressive: **ENGINES**
cool, smooth: **TRANSMISSESSON**

APPEARANCE

The latest appearance design method was used to create the R series fluent and aesthetic out-line, that matches the latest appearance trend.

The large engineering plastic covering enables the whole truck looks friendly and natural.

TRANSMISSION & ENGINE

The transmission can be chosen among OKAMURA、NISSAN and HC(made in china with the Japanese technique), with advanced structure and dependable function. Among them, the OKAMURA transmission adopts advanced float type structure, which can achieve a flexible connection between engine and frame, the vibrations of transmission to the frame is reduced. The engine can be chosen among the TD27、C240、4JG2、4TNV94L diesel engine, with great power, economical fuel consumption and dependable functions.

OPERATION

Adopted advanced ergonomic technology optimizes the design of control system, improves the comfortable of operation much more.

Adopted advanced vibration-reduction technology designs each part's vibration reduction, reduces the whole truck vibration. Among them, the hood is designed to full floating type, and vibration reduction device for steering axle enables the operation more comfortable.



The torque converter models adopt electronic-hydraulic forward-reverse control technology, meaning less effort and less total time used during this often-performed function.

Adopted recently developed redirector decreases the steering wheel force to 6~8N only ,that reduce 50% compared with former truck.

The grease fittings and bushes added around the shaft of control mechanism decreases the force of pedal, that are reduced 30% compared with former truck.

COOLING SYSTEM

Newly adopted combined type aluminum radiator improves the radiator cooling performance greatly.

Advanced heat dissipation technology improves heat dissipation channel, that enhances the truck heat dissipation capability further, the water temperature is reduced 15% compared with former truck.

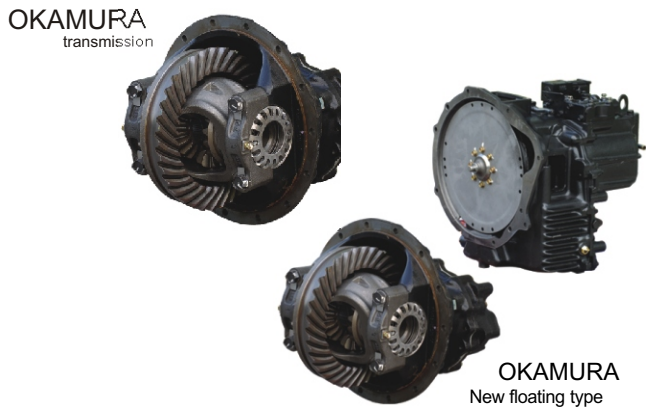
CYLINDER

Oil seal rings used for tilting cylinder、lifting cylinder and turning cylinder all adopt the first class international product, the sealing performance has been proven through ten of thousands fatigue test.

The soft landing system for lifting cylinder decreases the level of noise and shock when the mast lowered to termination phase.

BRAKES

The 2-2.5t forklifts all adopt the new type drum brake. waterproof slot on the brake drum and framework oil seal on the axle tube avoid water or oil entering the brake drum, enable the dependability of brake to raise consumedly.



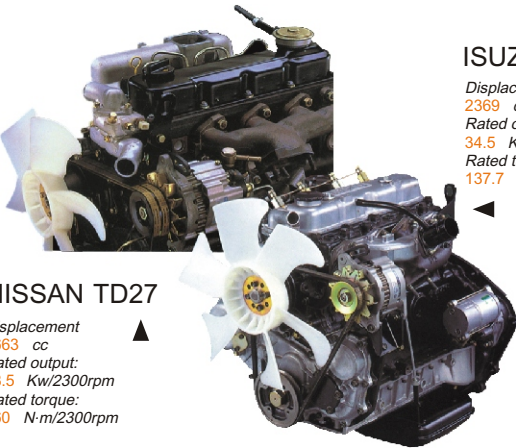
OKAMURA 2-3t T / M is Floating Types, The only one in China. Floating types are designed to reduce the transmission of vibrations to the chassis in small and mid-sized (1 to 5 tons) forklift trucks, thereby reducing operator fatigue and improving riding comfort. Specially-shortened design is ideal for this floating-type installation. Compact design offers same dimensions as conventional integrated models. May be coupled to the differential axles. Making installation, removal, and maintenance easy.



ISUZU 4JG2 PE-01
Displacement
3059 cc
Rated output:
44.9 Kw/2450rpm
Rated torque:
186.3 N·m/1700rpm



YANMAR 4TNV94L
Displacement
3054 cc
Rated output:
43 Kw/2500rpm
Rated torque:
205 N·m/1000rpm



NISSAN TD27
Displacement
2663 cc
Rated output:
38.5 Kw/2300rpm
Rated torque:
160 N·m/2300rpm

ISUZU C240
Displacement
2369 cc
Rated output:
34.5 Kw/2500rpm
Rated torque:
137.7 N·m/1800rpm

XINCHAI A498BT1

Displacement
3168 cc
Rated output:
36.8 Kw/2400rpm
Rated torque:
186 N·m/1700rpm



Options

- 2.0-5.0m duplex mast
- 2.5-4.0m full free duplex mast
- 4.3-6.5m triplex mast
- Special carriage and backrest
- Other dimension forks
- Dual drive wheel with fender
- Solid tyre
- Non-marking tyre(white、green)
- Cabin
- Heater and air conditioner
- Fire extinguisher
- Semi-suspension seat or full-suspension seat
- Dual air cleaner or special air cleaner
- Rear working light
- Customer painting
- Auxiliary hydraulic valve modules
- High-mounted exhaust system
- Middle-mounted exhaust system
- Spark arrester
- Purified exhaust system
- Radiator screen
- Sideshifter
- Integrated sideshifter
- Other attachment

R series 2.0-2.5t Diesel forklift specification:

General	1 Manufacturer		HANGCHA GROUP CO.,LTD.												HANGCHA GROUP CO.,LTD.												
	2 Basic model		CPCD20N												CPCD25N												
	3 Type		RW6	RW6B	RW10	RW10B	RW13	RW15A	RW27	RW32	RW33	RW33B	RG2	RG5	RW6	RW6B	RW10	RW10B	RW13	RW15A	RW27	RW32	RW33	RW33B	RG2	RG5	
Characteristics & Dimensions	4 Power type		Diesel		Diesel		Diesel		Diesel		Diesel		Diesel		Diesel		Diesel		Diesel		Diesel		Diesel		Diesel		
	5 Rated capacity		Kg	2000		2000		2000		2000		2000		2000		2500		2500		2500		2500		2500		2500	
	6 Load center		mm	500		500		500		500		500		500		500		500		500		500		500		500	
	7 Lift height		mm	3000		3000		3000		3000		3000		3000		3000		3000		3000		3000		3000		3000	
	8 Free lift height		mm	150		150		150		150		150		150		150		150		150		150		150		150	
	9 Fork size		L×W×T	mm 1070×122×40		1070×122×40		1070×122×40		1070×122×40		1070×122×40		1070×122×40		1070×122×40		1070×122×40		1070×122×40		1070×122×40		1070×122×45		1070×122×40	
	10 Mast tilt range		F / R	deg 6 / 12		6 / 12		6 / 12		6 / 12		6 / 12		6 / 12		6 / 12		6 / 12		6 / 12		6 / 12		6 / 12		6 / 12	
	11 Fork overhang(Wheel center to fork face)		mm	475		475		475		475		475		475		475		475		475		475		475		475	
	12 Rear overhang		mm	405		405		405		405		480		405		480		480		480		480		480		480	
	Overall dimensions	13 Length to face of fork		mm	2530		2530		2530		2530		2530		2530		2605		2605		2605		2605		2605		2605
14 Overall width		mm	1155		1155		1155		1155		1155		1155		1155		1155		1155		1155		1155		1155		
15 Mast lowered height		mm	1985		1985		1985		1985		1985		1985		1985		1985		1985		1985		1985		1985		
16 Mast extended height		mm	4045		4045		4045		4045		4045		4045		4045		4045		4045		4045		4045		4045		
17* Overhead guard height		mm	2140(2200*)		2140(2200*)		2140(2200*)		2140(2200*)		2140(2200*)		2140(2200*)		2140(2200*)		2140		2140		2140		2140		2140		
18 Turning radius(outside)		mm	2175		2175		2175		2175		2175		2175		2235		2235		2235		2235		2175		2230		
19 Min. right angle stacking aisle width (Add load length and clearance)		mm	2650		2650		2650		2650		2650		2650		2710		2710		2710		2710		2650		2710		
Performance	20 Speed		Km / h	20.5		20.5		20		18		19.5		20		22		20.5		20		18		19.5		20	
	21 Lifting (Full load)		mm/sec	510		410		510		500		450		500		500		580		470		580		580		540	
	22 Lowering (Full load)		mm/sec	500		500		500		500		500		500		500		500		500		500		500		500	
23 Max.Drawbar Pull (Full load)		N	25000		17000		22700		23100		22600		14500		18500		19700		18700		18000		25000		17000		
24 Max.Gradeability (Full load)		%	25		25		25		25		25		20		25		15		25		20		20		25		
Chassis	25 Tyres		Front	mm 7.00-12-12PR		7.00-12-12PR		7.00-12-12PR		7.00-12-12PR		7.00-12-12PR		7.00-12-12PR		7.00-12-12PR		7.00-12-12PR		7.00-12-12PR		7.00-12-12PR		7.00-12-12PR		7.00-12-12PR	
	26 Rear		mm	6.00-9-10PR		6.00-9-10PR		6.00-9-10PR		6.00-9-10PR		6.00-9-10PR		6.00-9-10PR		6.00-9-10PR		6.00-9-10PR		6.00-9-10PR		6.00-9-10PR		6.00-9-10PR		6.00-9-10PR	
	27 Tread		Front	mm 965		965		965		965		965		965		965		965		965		965		965		965	
	28 Rear		mm	970.5		970.5		970.5		970.5		970.5		970.5		970.5		970.5		970.5		970.5		970.5		970.5	
29 Wheelbase		mm	1650		1650		1650		1650		1650		1650		1650		1650		1650		1650		1650		1650		
Weight	30 Ground clearance		Lowest	mm 105		105		105		105		105		105		105		105		105		105		105		105	
	31 Wheelbase center		mm	150		150		150		150		150		150		150		150		150		150		150		150	
	32 Self weight		Kg	3440		3440		3440		3440		3440		3440		3765		3765		3760		3440		3440		3765	
33 Weight		Full load	Front / Rear		4815 / 625		4815 / 625		4815 / 625		4815 / 625		4815 / 625		5530 / 735		5530 / 735		5530 / 735		4815 / 625		4815 / 625		5530 / 735		
34 Distribution		No load	Front / Rear		1640 / 1800		1640 / 1800		1640 / 1800		1640 / 1800		1640 / 1800		1560 / 2205		1560 / 2205		1560 / 2250		1560 / 1800		1640 / 1800		1560 / 2205		
Power & transmission	35 Battery		Voltage/Capacity(20HR)	12 / 100		12 / 100		12 / 100		12 / 100		12 / 100		12 / 100		12 / 100		12 / 100		12 / 100		12 / 100		12 / 100		12 / 100	
	36 Model			4TNV94L		C240PKJ - 30		4JG2 PE-01		TD27		A498BT1		4TNE92-HRJ		4TNE98-BQFLC		4TNE98-BQFLC		C490BPG		A490BPG		4TNV94L		C240PKJ - 30	
	37 Manufacture		V / AH	NISSAN		YANMAR		ISUZU		NISSAN		XINCHAI		YANMAR		YANMAR		XINCHAI		YANMAR		YANMAR		XINCHAI		XINCHAI	
	38 Rated output / r.p.m.		kw	43 / 2500		34.5 / 2500		44.9 / 2450		38.5 / 2300		36.8 / 2400		32.8 / 2450		44.3 / 2300		44.3 / 2300		40 / 2650		37 / 2650		43 / 2500		34.5 / 2500	
	39 Rated torque / r.p.m.		N·m	205 / 1000		137.7 / 1800		186.3 / 1700		160 / 2300		186 / 1700		149.4 / 1600		206 / 1700		206 / 1700		162/1800-2000		148 / 1900		205 / 1000		137.7 / 1800	
	40 No. of cylinder			4		4		4		4		4		4		4		4		4		4		4		4	
	41 Bore×Stroke		mm	94 × 110		86 ×102		95.4 × 107		96 × 92		98 ×105		92 ×100		98 ×110		98 ×110		90 ×105		90 ×100		94 × 110		86 ×102	
	42 Emission STD.			Stage II / Tier 2		Stage IIIA		Stage II		E-MARK III		Stage IIIA Tier 4 Interim		Stage IIIA / Tier 3		Stage IIIA / Tier 3		Stage IIIA		Stage II		E-MARK III		Stage IIIA Tier 4 Interim		Stage IIIA/Tier 3	
	43 Displacement		cc	3054		2369		3059		2663		2659		3319		3319		2670		2540		3059		3168		2659	
	44 Fuel tank capacity		L	60		60		60		60		60		60		60		60		60		60		60		60	
Transmissions	45 Manufacture			CHINA		OKAMURA		CHINA		OKAMURA		CHINA		NISSAN		CHINA		OKAMURA		CHINA		OKAMURA		CHINA		CHINA	
	46 Type			Powershift		Powershift		Powershift		Powershift		Powershift		Powershift		Powershift		Powershift		Powershift		Powershift		Powershift		Powershift	
	47 Stage		FWD / RVS	1 / 1		1 / 1		1 / 1		1 / 1		1 / 1		1 / 1		1 / 1		1 / 1		1 / 1		1 / 1		1 / 1		1 / 1	
48 Operating pressure		For attachments	Mpa	17.5		17.5		17.5		17.5		17.5		17.5		17.5		17.5		17.5		17.5		17.5		17.5	