

GLOBAL SALES NETWORK



R Series 2.0/2.5t Diesel



CE CERTIFICATE



ISO14001: 2004



ISO9001: 2008

HANGCHA GROUP CO., LTD.
(Zhejiang Hangcha Imp. & Exp. Co., Ltd.)

www.hcforlift.com

Add: 398 Shi Qiao Road, Hangzhou Zhejiang province, China (310022)
Factory site: No. 88, Donghuan Rd., Economic Development Zone Lin'an, Zhejiang, China (311305)
Tel: +86-571-88926755
Fax: +86-571-88926789 88132890
E-mail: sales@hcforlift.com

HANGCHA GROUP CO., LTD. Reserves the right to make any changes without notice concerning 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.

2012 VERSION 1/COPYRIGHT 2012/03

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

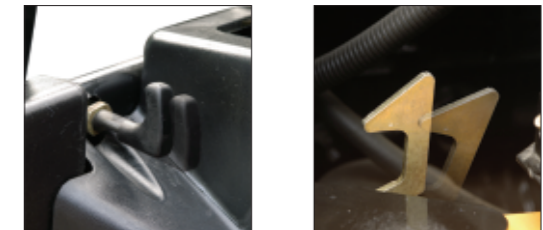
The environment friendly engines all meet related emission control regulation. The noise emission also comes up to EU standard.

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 grease fitting more dependable.
- The high performance specific tires for forklift trucks increase the work life of tires much more.

durable: **HYDRAULICS**
 clean, reliable: **ENGINES**
 progressive: **BRAKES**
 cool, smooth: **TRANSMISSION**

APPEARANCE

The latest appearance design method was used to create the R series fluent and aesthetic outline, 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.

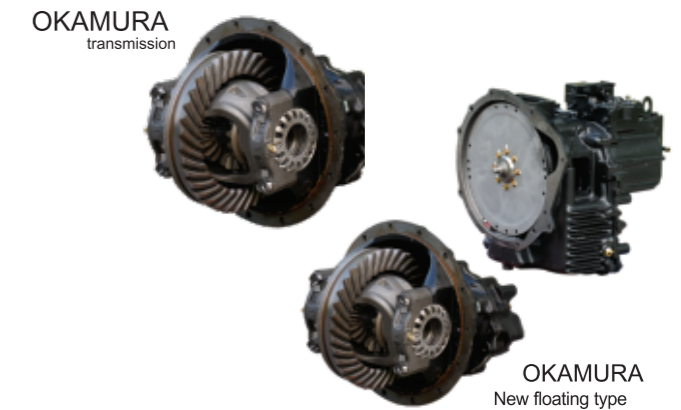
CYLINDER

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.



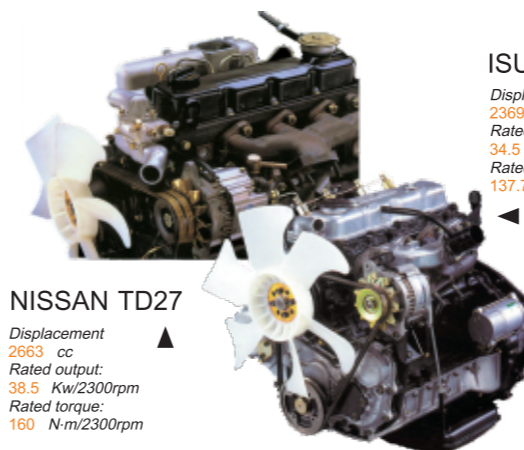
OKAMURA 2-3t T / M is Floating Types, The only one in China. Floating types are designed to reduce the transmission of vibrations to the chassis in small and midsized (1 to 5 tons) forlift trucks, thereby reducing operator fatigue and improving riding comfort . Specially-shortened design is ideal for 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



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

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

XINCHAI A498BT1
 Displacement
 3168 cc
 Rated output:
 36.8 Kw/2400rpm
 Rated torque:
 186 N-m/1700rpm



Options

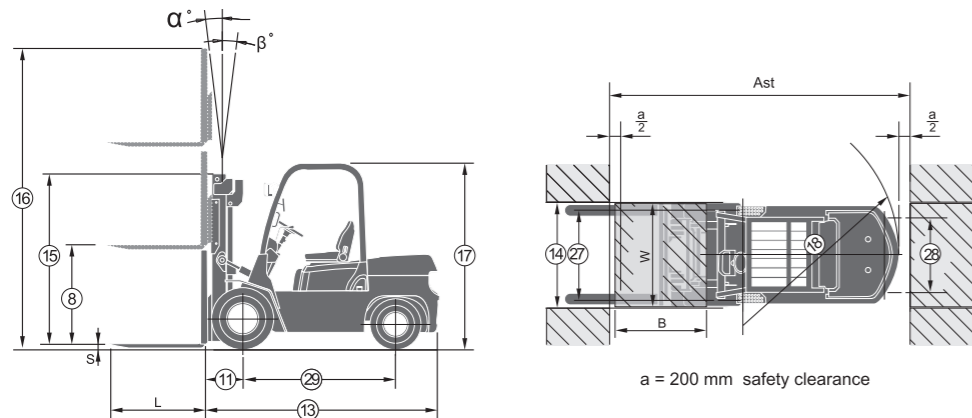
- 2.0-5.0m duplex mast
- 2.5-4.0m full free duplex mast
- 4.3-6.5m triplex mast
- Special carriage and backrest
- Other dimension forks
- Dual drive wheel with fender
- Solid tyre
- Non-marking tyre(white, green)
- Cabin
- Heater and air conditioner
- Fire extinguisher
- Semi-suspension seat or full-suspension 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:

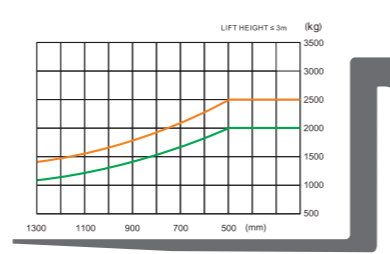
1		HANGCHA GROUP CO.,LTD.														HANGCHA GROUP CO.,LTD.																													
2		CPCD20N														CPCD25N																													
3		RW6	RW6B	RW10	RW10B	RW13	RW15A	RW27	RW32	RW33	RW33B	RG2	RG5	RW6	RW6B	RW10	RW10B	RW13	RW15A	RW27	RW32	RW33	RW33B	RG2	RG5																				
General	4	Power type	Diesel		Diesel		Diesel		Diesel		Diesel		Diesel		Diesel		Diesel		Diesel		Diesel		Diesel		Diesel																				
	5	Rated capacity	2000		2000		2000		2000		2000		2000		2500		2500		2500		2500		2500		2500		2500																		
	6	Load center	500		500		500		500		500		500		500		500		500		500		500		500		500																		
	7	Lift height	3000		3000		3000		3000		3000		3000		3000		3000		3000		3000		3000		3000		3000		3000																
	8	Free lift height	150		150		150		150		150		150		150		150		150		150		150		150		150		150																
	9	Fork size	L×W×T		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		1070×122×40		1070×122×40																
	10	Mast tilt range	F / R		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																
	11	Fork overhang(Wheel center to fork face)	mm		475		475		475		475		475		475		475		475		475		475		475		475		475																
	12	Rear overhang	mm		405		405		405		405		480		480		480		480		480		480		480		480		480																
	13	Overall dimensions	Length to face of fork	mm		2530		2530		2530		2530		2530		2605		2605		2605		2605		2605		2605		2605		2605															
	14		Overall width	mm		1155		1155		1155		1155		1155		1155		1155		1155		1155		1155		1155		1155		1155															
	15		Most lowered height	mm		1985		1985		1985		1985		1985		1985		1985		1985		1985		1985		1985		1985		1985															
	16		Most extended height	mm		4045		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(2200*)		2140(2200*)		2140(2200*)		2140(2200*)		2140(2200*)		2140(2200*)																
	18	Turning radius(outside)	mm		2175		2175		2175		2175		2175		2175		2235		2235		2235		2235		2175		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		2650		2710																
	Performance	20	Speed	Travel (No load)	km/h		20.5		20.5		20		18		19.5		20		20		22		20.5		20.5		20.5		20.5																
		21	Lifting (Full load)	mm/sec	510		410		510		500		450		500		500		580		470		580		470		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		22700		23100		22600		14500		18500		19700		18700		18000		
24	Max.Gradeability (Full load)	%		25		25		25		25		25		25		20		25		20		25		25		15		25		25		20		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		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		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		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		970.5		970.5		970.5											
29	Wheelbase	mm		1650		1650		1650		1650		1650		1650		1650		1650		1650		1650		1650		1650		1650		1650		1650		1650											
30	Ground clearance	Lowest	mm		105		105		105		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		150		150		150												
32	Self weight	kg		3440		3440		3440		3440		3440		3440		3440		3765		3765		3765		3765		3765		3765		3765		3765													
Weight	33	Weight	Full load	Front / Rear		4815 / 625		4815 / 625		4815 / 625		4815 / 625		4815 / 625		5530 / 735		5530 / 735		5530 / 735		5530 / 735		4815 / 625		4815 / 625		5530 / 735		5530 / 735															
	34	Distribution	No load	Front / Rear		1640 / 1800		1640 / 1800		1640 / 1800		1640 / 1800		1640 / 1800		1560 / 2205		1560 / 2205		1560 / 2205		1560 / 2205		1640 / 1800		1640 / 1800		1560 / 2205		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		12 / 100		12 / 100		12 / 100													
	36	Engine	Model	4TNV94L		C240PKJ - 30		4JG2 PE-01		TD27		A498BT1		4TNE92-HRJ		4TNE98-BOFLC		4TNE98-BOFLC		C490BPG		A490BPG		4TNV94L		C240PKJ - 30		4JG2 PE-01		TD27		A498BT1		4TNE92-HRJ		4TNE98-BOFLC		4TNE98-BOFLC		C490BPG		A490BPG			
	37		Manufacture	V/Ah		YANMAR		ISUZU		NISSAN		XINCHAI		YANMAR		YANMAR		XINCHAI		XINCHAI		YANMAR		ISUZU		ISUZU		NISSAN		XINCHAI		YANMAR		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		40 / 2650		37 / 2650		43 / 2500		34.5 / 2500		44.9 / 2450		38.5 / 2300		36.8 / 2400		32.8 / 2450		44.3 / 2300		40 / 2650		37 / 2650					
	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		186.3 / 1700		160 / 2300		186 / 1700		149.4 / 1600		206 / 1700		206 / 1700		162/1800-2000		148 / 1900	
	40		No. of cylinder	mm		4		4		4		4		4		4		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		95.4 × 107		96 × 92		98 × 105		92 × 100		98 × 110		98 × 110		90 × 105		90 × 100	
	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 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 / Tier 3		Stage IIIA / Tier 3		Stage IIIA / Tier 3		Stage IIIA / Tier 3		Stage IIIA / Tier 3					
	43		Displacement	cc		3054		2369		3059		2663		3168		2659		3319		3319		2670		2540		3054		2369		3059		2663		3168		2659		3319		3319		2670		2540	
	44		Fuel tank capacity	L		60		60		60		60		60		60		60		60		60		60		60		60		60		60		60		60		60		60					
	45		Transmissions	Manufacture	CHINA		OKAMURA		CHINA		OKAMURA		CHINA		NISSAN		CHINA		CHINA		CHINA		OKAMURA		CHINA		CHINA		CHINA		CHINA		CHINA		CHINA		CHINA		CHINA						
	46			Type	Powershift		Powershift		Powershift		Powershift		Powershift		Powershift		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		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		17.5		17.5		17.5		17.5		17.5					

Note: * With suspension seat or cabin.
 1. Special lifting height available (2-stage mast: 2.5m, 2.7m, 3.0m, 3.3m, 3.6m, 4m, 4.5m. 3-stage mast: 4.3m, 4.5m, 4.8m, 5m, 5.5m, 6m) 2. Attachment available.
 3. The specifications in the table are for standard models only. For further information please contact us. 4. Specifications are subject to change without notice.

DIMENSIONS



LOAD CHART



2.0 / 2.5t R series mast: (pneumatic)

Type	Model	Max. fork height	Overall height				Free lift		Front Overhang	Tilt range		Capacity			
			Lowered	Extended		Without backrest	With backrest								