

R Series

3.0 / 3.5 T
Diesel



OKAMURA
New floating type

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.

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
- Colored tyre(white, green)
- Cabin
- Heater and air condition
- 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
- Anti-fire spark exhaust device
- Diesel exhaust das purifier
- Radiator screen
- Sideshifter
- Integrated sideshifter
- Other attachment



ISO14001: 2004



ISO9001: 2000



CE CERTIFICATE



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ZHEJIANG HANGCHA ENGINEERING MACHINERY CO.,LTD.

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

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 applications.

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 and H20, H25 gasoline 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.

HEAT DISSIPATION

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 1-3.5t 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.

NISSAN TD27

Displacement
2663 cc
 Rated output:
44 Kw/2500rpm
 Rated torque:
172 N-m/1600rpm

ISUZU C240

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

YANMAR 4TNV94L

Displacement
3054 cc
 Rated output:
43 Kw/2500rpm
 Rated torque:
205 N-m/1000rpm

XINCHAI A498BT1

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

CUMMINS B3.3

Displacement
3300 cc
 Rated output:
48 Kw/2600rpm
 Rated torque:
214 N-m/1600rpm



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

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.

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

Dual air spring supporting hood and one-touch removal of the floorboard get you right to service operations ,and reduces down-time.

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

CLEAN

The environment friendly engines all meet EU stage-II 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.



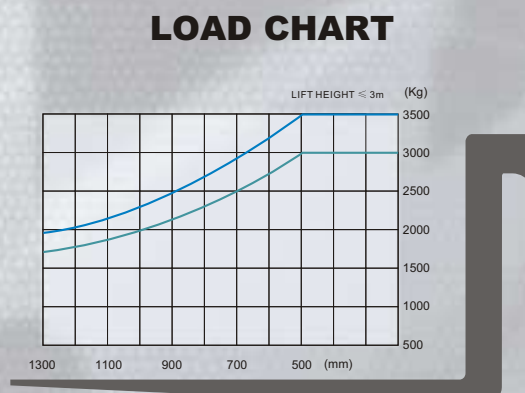
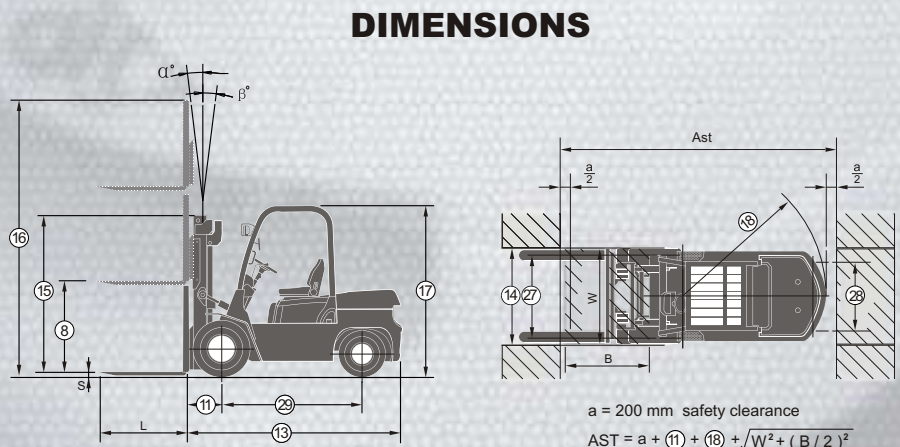
For more than 30 years, **Zhejiang Hangcha Engineering Machinery CO., LTD.** Has played a leading role in the manufacture and production of Chinese forklift industry . We constantly strive to develop and incorporate the latest advances in forklift design and technology to ensure that our products provide 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.

R series 3.0-3.5t Diesel forklift specification:

General			CPCD30N																	CPCD35N										
			RW1	RW1B	RW3	RW6	RW6B	RW9	RW9B	RW10	RW10B	RW13	RW15A	RW27	RW30	RW32	RW33	RW33B	RG5	RW1	RW1B	RW6	RW6B	RW13	RW15A	RW27	RW30	RW33	RW33B	RG5
1	Manufacture																													
2	Basic model																													
3	Type																													
4	Power type		Diesel																											
5	Rated capacity		Kg																											
6	Load center		mm																											
7	Lift height		mm																											
8	Free lift height		mm																											
9	Fork size		L×W×T mm																											
10	Mast tilt range		F / R deg																											
11	Fork overhang(Wheel center to fork face)		mm																											
12	Rear overhang		mm																											
13-17	Overall dimensions		Length to face of fork		mm																									
			Overall width		mm																									
			Mast lowered height		mm																									
			Mast extended height		mm																									
			Overhead guard height		mm																									
18	Turning radius(outside)		mm																											
19	Min. right angle stacking aisle width (Add load length and clearance)		mm																											
20-24	Speed		Travel (No load)		Km / h																									
			Lifting (Full load)		mm/sec																									
			Lowering (Full load)		mm/sec																									
			Max.Drawbar Pull (Full load)		N																									
24	Max.Gradeability (Full load)		%																											
25-28	Tyres		Front		mm																									
			Rear		mm																									
	Tread		Front		mm																									
			Rear		mm																									
29	Wheelbase		mm																											
30-31	Ground clearance		Lowest		mm																									
			Wheelbase center		mm																									
32	Self weight		Kg																											
33-34	Weight Distribution		Full load		mm																									
			No load		mm																									
35-45	Battery		Voltage/Capacity(20HR)		mm																									
	Engine		Model		mm																									
			Manufacture		mm																									
			Rated output / r.p.m.		mm																									
			Rated torque / r.p.m.		mm																									
			No. of cylinder		mm																									
			Bore×Stroke		mm																									
			Emission STD.		mm																									
			Displacement		mm																									
			Fuel tank capacity		mm																									
			Manufacture		mm																									
46-47	Transmissions		Type		mm																									
			Stage		mm																									
48	Operating pressure		For attachments		Mpa																									

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 specification in the table are for standard models only. For further information please contact us. 4. Specification are subject to change without notice.



3.0 ~ 3.5t R series mast: (pneumatic)

Type	Model	Max. Fork height	Overall height								Free lift				Front Overhang		Capacity			
			Lowered				Extended				Without backrest		With backrest		3t	3.5t	Load capacity at 500 mm			
			Without backrest		With backrest		Without backrest		With backrest		Single tire		Double tire							
			3t	3.5t	3t	3.5t	3t	3.5t	3t	3.5t	3t	3.5t	3t	3.5t	3t	3.5t	3t	3.5t	3t	3.5t
Wide view mast	R30 / 35M250	2500	1760	1910	3165	3310	3630	3630	155	155	155	155	480	485	6	12	3000	3500	3000	3500
	R30 / 35M270	2700	1860	2010	3365	3510	3830	3830	155	155	155	155	480	485	6	12	3000	3500	3000	3500
	R30 / 35M300	3000	2010	2160	3665	3810	4130	4130	155	155	155	155	480	485	6	12	3000	3500	3000	3500
	R30 / 35M330	3300	2160	2310	3965	4110	4430	4430	155	155	155	155	480	485	6	12	3000	3500	3000	3500
	R30 / 35M350	3500	2260	2410	4165	4310	4630	4630	155	155	155	155	480	485	6	12	3000	3500	3000	3500
	R30 / 35M360	3600	2370	2460	4265	4410	4730	4730	155	155	155	155	480	485	6	12	3000	3500	3000	3500
	R30 / 35M400	4000	2620	2710	4665	4810	5130	5130	155	155	155	155	480	485	6	12	2850	3250	3000	3500
	R30 / 35M430	4300	2770	2860	4965	5110	5430	5430	155	155	155	155	480	485	6	6	2700	3000	2900	3400
	R30 / 35M450	4500	2870	2960	5165	5310	5630	5630	155	155	155	155	480	485	6	6	2550	2850	2850	3350
	R30 / 35M480	4800	3020	3110	5465	5610	5930	5930	155	155	155	155	480	485	6	6	2250	2450	2550	2950
Wide view full free 2-stage mast	N30 / 35U250	2500	1865	1975	3235	3370	3635	3640	1130	1115	730	845	475	475	6	12	3000	3500	3000	3500
	N30 / 35U270	2700	1965	2075	3435	3570	3835	3840	1230	1215	830	945	475	475	6	12	3000	3500	3000	3500
	N30 / 35U300	3000	2190	2190	3760	3860	4140	4130	1435	1330	1060	1060	475	475	6	12	3000	3500	3000	3500
	N30 / 35U330	3300	2225	2375	4045	4170	4445	4440	1490	1515	1090	1245	475	475	6	12	3000	3500	3000	3500
	N30 / 35U360	3600	2375	2540	4345	4470	4745	4740	1640	1670	1240	1400	475	475	6	12	3000	3500	3000	3500
	N30 / 35U400	4000	2575	2740	4745	4870	5145	5140	1840	1870	1440	1600	475	475	6	12	2850	3250	3000	3500
	N30 / 35N430	4300	2090	2205	5050	5105	5445	5440	1355	1395	960	1060	490	498	6	6	2550	2850	2850	3350
	N30 / 35N450	4500	2160	2260	5300	5305	5695	5640	1425	1465	1030	1130	490	498	6	6	2400	2700	2700	3200
	N30 / 35N480	4800	2260	2354	5550	5605	5945	5940	1525	1565	1130	1230	490	498	6	6	2250	2450	2550	2950
	N30 / 35N500	5000	2326	2420	5750	5805	6145	6140	1590	1630	1196	1295	490	498	6	6	2100	2300	2400	2800
Wide view full free 3-stage mast	N30 / 35N550	5500	2490	2605	6250	6305	6645	6640	1755	1795	1360	1460	490	498	3	6	1650	1800	2250	2550
	N30 / 35N600	6000	2656	2770	6750	6805	7145	7140	1920	1960	1525	1625	490	498	3	6	1200	1300	2100	2300

With sideshifter minus 150Kg, with integral sideshifter minus 100Kg.