

R Series

1.0 / 1.5 / 1.8 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 gas purifier
- LPG swing-down bracket
- Radiator screen
- Sideshifter
- Integrated sideshifter
- Other attachment
- LPG fuel system (single, dual)



CE CERTIFICATE



ISO14001:2004



ISO9001:2000



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浙江杭叉工程机械股份有限公司
ZHEJIANG HANGCHA ENGINEERING MACHINERY CO.,LTD.

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 falling 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.

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.



ISUZU C240

Displacement
2369 cc
Rated output:
34.9 Kw/2800rpm
Rated torque:
139 N.m/1800rpm

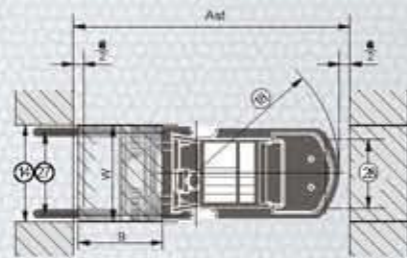
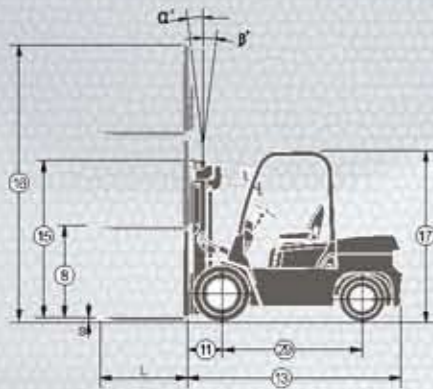


R series 1.0-1.8t forklift specification:

General		CPCD 10N					CPCD 15N					CPCD 18N						
1	Manufacture	CPCD 10N					CPCD 15N					CPCD 18N						
2	Basic model	CPCD 10N					CPCD 15N					CPCD 18N						
3	Type	RW3	RW9	RW10	RW32	RG26	RW3	RW9	RW10	RW32	RG26	RW3	RW9	RW10	RW32	RG26		
4	Power type	Diesel					Diesel					Diesel						
5	Rated capacity	Kg					Kg					Kg						
6	Load center	mm					mm					mm						
7	Lift height	mm					mm					mm						
8	Free lift height	mm					mm					mm						
9	Fork size	LXWXT mm					LXWXT mm					LXWXT mm						
10	Mast tilt range	F / R deg					F / R deg					F / R deg						
11	Fork overhang(Wheel center to fork face)	mm					mm					mm						
12	Rear overhang	mm					mm					mm						
13	Overall dimensions	Length to face of fork	mm				mm				mm							
14		Overall width	mm				mm				mm							
15		Max lowered height	mm				mm				mm							
16		Max extended height	mm				mm				mm							
17		Overhead guard height	mm				mm				mm							
18	Turning radius(outside)	mm					mm					mm						
19	Min. right angle stacking aisle width (Add load length and clearance)	mm					mm					mm						
20	Speed	Travel (No load)	Km / h				Km / h				Km / h							
21		Lifting (Full load)	mm/sec				mm/sec				mm/sec							
22		Lowering (Full load)	mm/sec				mm/sec				mm/sec							
23	Max Drawbar Pull (Full load)	N	22000	20500	20500	15900	19500	22000	20500	20500	15900	19500	22000	20500	20500	15900	19500	
24	Max Gradeability (Full load)	%	20				20				20							
25	Tyres	Front	mm				mm				mm							
26		Rear	mm				mm				mm							
27	Tread	Front	mm				mm				mm							
28		Rear	mm				mm				mm							
29	Wheelbase	mm					mm					mm						
30	Ground clearance	Lowest	mm				mm				mm							
31		Wheelbase center	mm				mm				mm							
32	Self weight	Kg					Kg					Kg						
33	Weight Distribution	Full load	mm				mm				mm							
34		No load	mm				mm				mm							
35	Battery	Voltage/Capacity(20HR)					Voltage/Capacity(20HR)					Voltage/Capacity(20HR)						
36	Engine	Model	A2300	C240PKJ-20	C240PKJ-30	4TNE92-HRJ	NB485BPBG	A2300	C240PKJ-20	C240PKJ-30	4TNE92-HRJ	NB485BPBG	A2300	C240PKJ-20	C240PKJ-30	4TNE92-HRJ	NB485BPBG	
37		Manufacture	V / AH	CUMMINS	ISUZU	ISUZU	YANMAR	XINCHAI	CUMMINS	ISUZU	YANMAR	XINCHAI	CUMMINS	ISUZU	YANMAR	XINCHAI	CUMMINS	ISUZU
38		Rated output / r.p.m.	kw	35 / 2800	34.5 / 2500	34.5 / 2500	32.8 / 2450	30 / 2600	35 / 2600	34.5 / 2500	34.5 / 2500	32.8 / 2450	30 / 2600	35 / 2600	34.5 / 2500	34.5 / 2500	32.8 / 2450	30 / 2600
39		Rated torque / r.p.m.	N·m	150 / 1800	139 / 1800	137.7 / 1800	149.4 / 1800	131 / 1800	150 / 1800	139 / 1800	137.7 / 1800	149.4 / 1800	131 / 1800	150 / 1800	139 / 1800	137.7 / 1800	149.4 / 1800	131 / 1800
40		No. of cylinder		4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
41		Bore X Stroke	mm	88 X 94	86 X 102	86 X 102	82 X 100	85 X 100	88 X 94	86 X 102	86 X 102	82 X 100	85 X 100	88 X 94	86 X 102	86 X 102	82 X 100	85 X 100
42		Emission STD		Stage IIIA / Tier 4 Interm	Stage II	Stage IIIA	Stage IIIA / Tier 4 Interm		Stage IIIA / Tier 4 Interm	Stage II	Stage IIIA	Stage IIIA / Tier 4 Interm		Stage IIIA / Tier 4 Interm	Stage II	Stage IIIA	Stage IIIA / Tier 4 Interm	
43		Displacement	cc	2300	2369	2369	2270		2300	2369	2369	2270		2300	2369	2369	2270	
44		Fuel tank capacity	L	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
45		Transmissions	Manufacture	CHINA				CHINA				CHINA						
46	Type		Powershift				Powershift				Powershift							
47	Stage	1 / 1					1 / 1					1 / 1						
48	Operating pressure	For attachments Mpa					For attachments Mpa					For attachments Mpa						

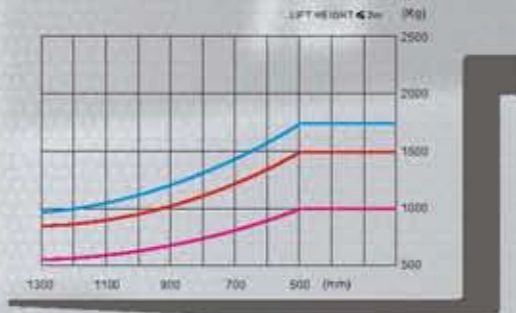
1. Special lifting height available (2-stage mast: 2.5m, 2.7m, 3.0m, 3.3m, 3.6m, 4m, 4.5m. 3-stage mast: 4.3m, 4.5m, 4.8m, 5m, 5.5m, 6m) 2. Attachment available.
3. The specification in the table are for standard models only. For further information please contact us. 4. Specification are subject to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

DIMENSIONS



a = 200 mm safety clearance
AST = a + (11) + (18) + √W² + (B / 2)²

LOAD CHART



1.0 ~ 1.8t R series mast: (pneumatic)

Type	Model	Max. fork height	Overall height				Free lift		Front Overhang		Tilt range		Capacity					
			Lowered	Extended		Without backrest	With backrest	1/1.5t	1.75t	FWD	BWD	Load capacity at 500 mm						
				Without backrest	With backrest							Single tire			Double tire			
mm	mm	mm	mm	mm	mm	mm	mm	Deg	Deg	1t	1.5t	1.75t	1t	1.5t	1.75t			
Wide view mast	R15 / 18M200	2900	1495	2585	2965	155	155	405	408	6	12	1000	1500	1750	1000	1500	1750	
	R15 / 18M250	2500	1745	3085	3455	155	155	405	408	6	12	1000	1500	1750	1000	1500	1750	
	R15 / 18M270	2700	1845	3285	3655	155	155	405	408	6	12	1000	1500	1750	1000	1500	1750	
	R15 / 18M300	3000	1985	3585	3955	155	155	405	408	6	12	1000	1500	1750	1000	1500	1750	
	R15 / 18M330	3300	2145	3885	4255	155	155	405	408	6	12	1000	1500	1750	1000	1500	1750	
	R15 / 18M350	3500	2245	4085	4455	155	155	405	408	6	12	1000	1500	1750	1000	1500	1750	
	R15 / 18M360	3600	2345	4185	4555	155	155	405	408	6	12	1000	1500	1750	1000	1500	1750	
	R15 / 18M400	4000	2595	4585	4955	155	155	405	408	6	12	950	1400	1650	1000	1500	1750	
Wide view full free 2-stage mast	R15 / 18M430	4300	2745	4885	5255	155	155	405	408	6	8	900	1300	1550	950	1400	1850	
	R15 / 18M450	4500	2845	5085	5455	155	155	405	408	6	8	850	1250	1450	900	1350	1550	
	N15 / 18U250	2500	1760	3105	3455	1095	815	428	431	6	12	1000	1500	1750	1000	1500	1750	
	N15 / 18U270	2700	1860	3305	3655	1195	915	428	431	6	12	1000	1500	1750	1000	1500	1750	
	N15 / 18U300	3000	2010	3605	3955	1395	1055	428	431	6	12	1000	1500	1750	1000	1500	1750	
	N15 / 18U330	3300	2160	3905	4255	1545	1215	428	431	6	12	1000	1500	1750	1000	1500	1750	
	N15 / 18U360	3600	2310	4205	4555	1695	1365	428	431	6	12	1000	1500	1750	1000	1500	1750	
	N15 / 18U400	4000	2560	4605	4955	1865	1615	428	431	6	12	950	1400	1650	1000	1500	1750	
Wide view full free 3-stage mast	N15 / 18M430	4300	2110	5070	5255	1350	1185	445	448	6	6	850	1250	1450	900	1350	1550	
	N15 / 18M450	4500	2210	5130	5485	1510	1175	445	448	6	6	800	1200	1350	850	1300	1450	
	N15 / 18M480	4800	2235	5445	5755	1800	1290	445	448	6	6	750	1100	1250	800	1200	1350	
	N15 / 18M500	5000	2285	5805	5955	1890	1340	445	448	6	6	700	1050	1150	750	1150	1250	
	N15 / 18M550	5500	2450	6120	6455	1850	1515	445	448	3	6	/	/	/	600	950	1050	
	N15 / 18M600	6000	2685	6695	6955	2000	1740	445	448	3	6	/	/	/	450	750	850	

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