

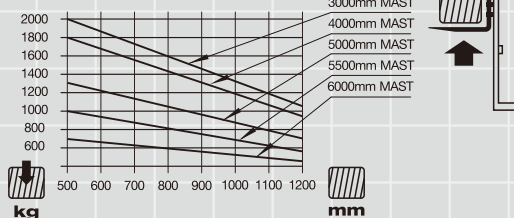


SPECIFICATION

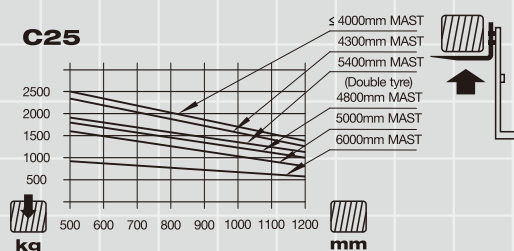
**DIESEL FORKLIFT TRUCK
GASOLINE/LPG FORKLIFT**

2.0-4.0ton

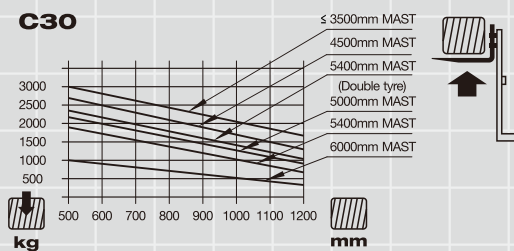
C20



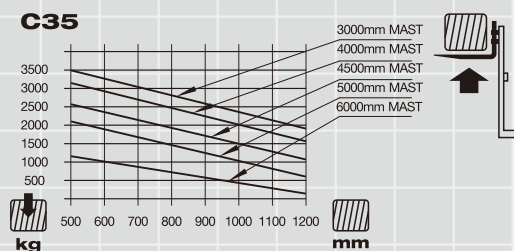
C25



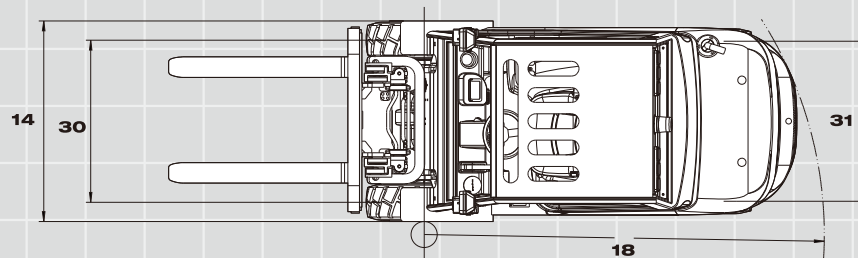
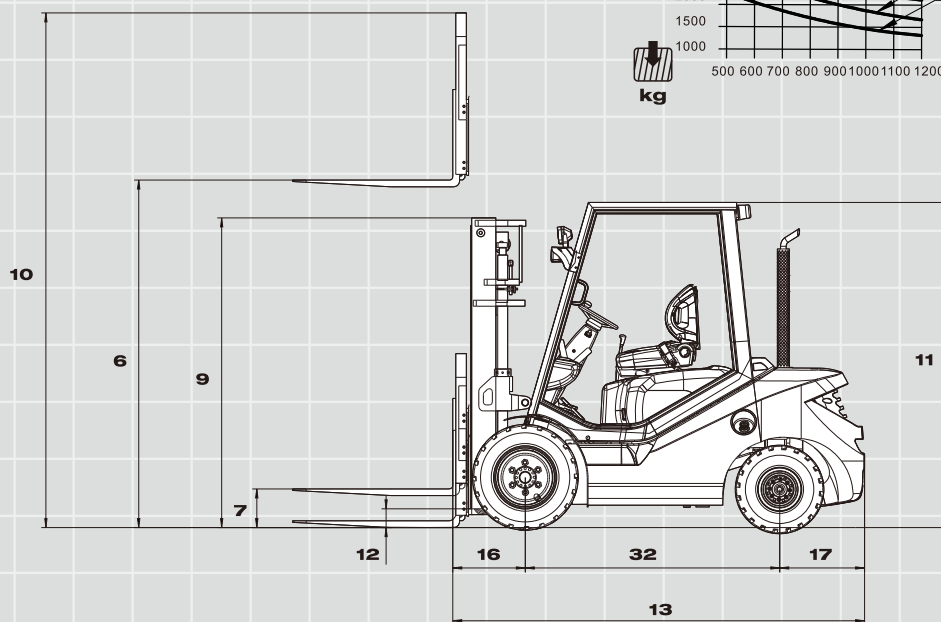
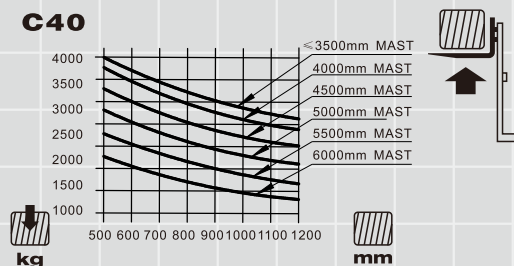
C30



C35



C40





GENERAL	1	Manufacturer		RY	RY	RY	RY	RY	RY	RY	RY	RY	RY	RY	RY	RY	RY	RY			
	2	Model		C20J	C25J	C30J	C35D	C20F	C25F	C30F	C20E	C25E	C30E	C35E	C40 E	C20HG (C20H)	C25HG (C25H)	C30HG (C30H)	C35HG (C35H)		
	3	Power Type		Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Gasoline/LPG	Gasoline/LPG				
	4	Rated Load Capacity	kg	2000	2500	3000	3500	2000	2500	3000	2000	2500	3000	3500	4000	2000	2500	3000	3500		
	5	Load Centre	mm	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500		
CHARACTERISTIC & DIMENSION	6	Rated Lift Height	mm	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000		
	7	Free Lift Height	mm	140	140	145	150	140	140	145	140	140	145	150	150	140	140	145	150		
	8	Mast Tilt Angle (F/R, α° / β°)	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°	6°/12°	6°/12°	6°/12°	6°/12°		
	9	Mast Lowered Height	mm	2045	2045	2060	2060	2045	2045	2060	2045	2045	2060	2060	2070	2045	2045	2060	2060		
	10	Mast Extended Height (With Backrest)	mm	4145	4145	4160	4160	4145	4145	4160	4145	4145	4160	4160	4170	4145	4145	4160	4160		
	11	Overhead Guard Height	mm	2180	2180	2192	2192	2180	2180	2192	2180	2180	2192	2192	2200	2180	2180	2192	2192		
	12	Ground Clearance (Bottom of Mast)	mm	130	130	145	145	130	130	145	130	130	145	145	145	130	130	145	145		
	13	Length to Face of Fork (Without Fork)	mm	2625	2625	2716	2780	2625	2625	2716	2625	2625	2716	2780	2968	2625	2625	2716	2780		
	14	Overall Width	mm	1150	1150	1225	1225	1150	1150	1225	1150	1150	1225	1225	1414	1150	1150	1225	1225		
	15	Fork Size (L×W×T)	mm	1070×125×40	1070×125×40	1070×125×45	1070×125×40	1070×125×45	1070×125×40	1070×125×40	1070×125×45	1070×125×40	1070×125×45	1070×125×50	1070×125×40	1070×125×45					
	16	Fork Overhang (Wheel Center to Fork Face)	mm	473	473	478	478	473	473	478	473	473	478	478	493	473	473	478	478		
	17	Rear Overhang	mm	508	508	578	642	508	508	578	508	508	578	642	586	508	508	578	642		
	18	Turning Radius (Outside)	mm	2315	2315	2420	2490	2315	2315	2420	2315	2315	2420	2490	2670	2315	2315	2420	2490		
	19	Working Aisle With Pallet(Ast)*, 1000x1200 Crossway	mm	4010	4010	4120	4190	4010	4010	4120	4010	4010	4120	4190	4550	4010	4010	4120	4190		
PERFORMANCE	20	Travel Speed (No Load)	km/h	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20		
	21	Travel Speed (Full Load)	km/h	19	19	18.5	18.5	19	19	18.5	19	19	18.5	18.5	18	19	19	18.5	18.5		
	22	Lifting Speed (Full Load)	mm/sec	510	510	430	400	510	510	410	510	510	430	400	360	490	490	390	360		
	23	Lowering Speed (Full Load)	mm/sec	450	450	450	450	450	450	450	450	450	450	450	425	450	450	450	450		
	24	Max.Drawbar Pull (Full Load)	KN	17(14.5)	17(14.5)	16(15.7)	24(19.5)	17(13.7)	17(13.7)	18.5(14.8)	17(13.5)	17(13.5)	16(15.7)	24(19.5)	17/15	22(18)	22(18)	22(18)	22(18)		
	25	Max.Gradeability (Full Load)	%	20	20	20	20	20	20	20	20	20	20	20	18	20	20	20	18		
	26	Service Brake (Operation/Control)		Foot/Powershift				Foot/Powershift				Foot/Powershift				Foot/Powershift					
	27	Parking Brake (Operation/Control)		Hand/Mechanical				Hand/Mechanical				Hand/Mechanical				Hand/Mechanical					
CHASSIS	28	Tyre (Front x 2)	mm	7.00-12-12PR		28×9-15-12PR		7.00-12-12PR		28×9-15-12PR		7.00-12-12PR		28×9-15-12PR		250-15-16PR		7.00-12-12PR		28×9-15-12PR	
	29	Tyre (Rear x 2)	mm	6.00-9-10PR		6.50-10-10PR		6.00-9-10PR		6.50-10-10PR		6.00-9-10PR		6.50-10-10PR		6.50-10-10PR		6.00-9-10PR		6.50-10-10PR	
	30	Front Tread	mm	970	970	1000	1000	970	970	1000	970	970	1000	1000	1160	970	970	1000	1000		
	31	Rear Tread	mm	980	980	980	980	980	980	980	980	980	980	980	980	980	980	980	980	980	
	32	Wheelbase	mm	1650	1650	1700	1700	1650	1650	1700	1650	1650	1700	1700	1900	1650	1650	1700	1700		
	33	Total Weight	kg	3450	3620	4310	4750	3450	3620	4310	3450	3620	4310	4750	5170	3450	3620	4310	4750		
WEIGHT	34	Front Axle Weight Distribution (Full Load)	kg	4856	5372	6490	7320	4856	5372	6490	4856	5372	6490	7320	8120	4856	5372	6490	7320		
	35	Rear Axle Weight Distribution (Full Load)	kg	594	748	820	930	594	748	820	594	748	820	930	1050	594	748	820	930		
	36	Front Axle Weight Distribution (No Load)	kg	1507	1492	1764	2040	1507	1492	1764	1507	1492	1764	2040	2120	1507	1492	1764	2040		
	37	Rear Axle Weight Distribution (No Load)	kg	1943	2128	2546	2710	1943	2128	2546	1943	2128	2546	2710	3050	1943	2128	2546	2710		
	POWER & TRANSMISSION	38	Battery	V/Ah	12/90	12/90	12/90	12/90	12/90	12/90	12/90	12/90	12/90	12/90	12/90	12/90	12/60	12/60	12/60	12/60	
39		Engine Model		C490BPG (Eu III)		A498 (Eu III)	C240PKJ30 (Eu III)				S4S(Eu III)				K25	K25	K25	K25			
40		Engine Manufacturer		XINCHAI		XINCHAI	ISUZU				MITSUBISHI				NISSAN						
41		Rated Output / r.p.m.	kw	37/2650		45/2550	34.5/2500				41.8/2300 & 34.4/2250				44.2/2500						
42		Rated Torque / r.p.m.	N·m	148/1800-1900		195 /1600-1800	139/1800				182/1800 & 165/1700				186.2/1600						
43		No.of Cylinder		4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4		
44		Bore x Stroke	mm	90×100	90×100	90×100	98×110	86×102	86×102	86×102	94×120	94×120	94×120	94×120	94×120	92×93	92×93	92×93	92×93		
45		Displacement	cc	2540	2540	2540	3168	2368	2368	2368	3331	3331	3331	3331	3331	2472	2472	2472	2472		
46		Fuel Tank Capacity	L	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50		
47		Transmission Type		Powershift		Powershift	Powershift		Powershift	Powershift		Powershift	Powershift		Powershift	Powershift		Powershift			
48		Transmission Stage (FWD/RVS)		1/1(2/2)	1/1(2/2)	1/1(2/2)	1/1(2/2)	1/1(2/2)	1/1(2/2)	1/1(2/2)	1/1(2/2)	1/1(2/2)	1/1(2/2)	1/1(2/2)	1/1(2/2)	1/1(2/2)	1/1(2/2)	1/1(2/2)	1/1(2/2)		
49	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			

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MAST TYPE	MAST NAME	MAX. FORK HEIGHT (mm)	LOAD CAPACITY(LOAD CENTRE 500mm)(kg)									
			C20	C20 (Double Tyre)	C25	C25 (Double Tyre)	C30	C30 (Double Tyre)	C35	C35 (Double Tyre)	C40	C40 (Double Tyre)
2-Stage Wide View Mast	M300	3000	2000		2500		3000		3500		4000	
	M330	3300	2000		2500		3000		3500		4000	
	M350	3500	2000		2500		3000		3500		4000	
	M400	4000	2000		2450		2950		3250		3750	4000
	M450	4500	1800	*1900	2000	*2400	2600	*2900	2900	*3000	3300	3600
	M500	5000	1300	*1700	1600	*2100	2200	*2550	2400	*2800	2800	3300
	M550	5500	1100	*1500	1350	*1700	2000	*2400	2200	*2600	2200	2600
	M600	6000	950	*1300	1050	*1500	1500	*2000	1600	*2400	1700	2400
2-Stage Full Free Wide View Mast	FM300	3000	2000		2500		3000		3500		4000	
	FM330	3300	2000		2500		3000		3500		4000	
	FM350	3500	2000		2500		3000		3500		4000	
	FM370	3700	2000		2500		3000		3500		4000	
	FM400	4000	2000		2500		3000		3250	*3500	3700	4000
3-Stage Full Free Wide View Mast	TFM430	4300	1850	*1900	2200	*2400	2800	*2900	3000	*3350	3300	3700
	TFM450	4500	1700	*1800	2000	*2300	2600	*2800	2800	*3200	3000	3500
	TFM470	4700	1600	*1750	1900	*2200	2400	*2700	2500	*3000	2700	3700
	TFM500	5000	1400	*1600	1500	*2000	2100	*2400	2300	*2800	2500	3100
	TFM550	5500	1100	*1500	1200	*1800	1650	*2250	1800	*2550	2000	2500
	TFM600	6000	800	*1400	850	*1600	1200	*2100	1300	*2300	1500	2300

MAST TYPE	MAST NAME	OVERALL HEIGHT(mm)						TILT ANGLE (SINGLE)	TILT ANGLE (DOUBLE)			
		LOWERED	EXTENDED		LOWERED	EXTENDED				LOWERED	EXTENDED	
			WITHOUT/WITH BACKREST			WITHOUT/WITH BACKREST					WITHOUT/WITH BACKREST	
			2.0t/2.5t			3.0t/3.5t					4.0t	
2-Stage Wide View Mast	M300	2045	3665 / 4145		2060	3680 / 4160		2110	3730/4210		6-12	
	M330	2195	3965 / 4445		2210	3980 / 4460		2260	4030/4510		6-12	
	M350	2295	4165 / 4645		2310	4180 / 4660		2360	4230/4710		6-12	
	M400	2595	4665 / 5145		2610	4680 / 5160		2660	4730/5210		6-6	
	M450	2840	5165 / 5645		2860	5180 / 5660		2910	5230/5710		6-6	
	M500	3145	5665 / 6145		3160	5680 / 6160		3210	5730/6210		6-6	
	M550	3395	6165 / 6645		3410	6180 / 6660		3460	6230/6710		3-6	
	M600	3645	6665 / 7145		3660	6680 / 7160		3710	6730/7210		3-6	
2-Stage Full Free Wide View Mast	FM300	2045	3675 / 4160		2060	3690 / 4175		2110	3740/4225		6-12	
	FM330	2195	3975 / 4460		2210	3990 / 4475		2260	4040/4525		6-12	
	FM350	2295	4175 / 4660		2310	4190 / 4675		2360	4240/4725		6-12	
	FM370	2395	4375 / 4860		2410	4390 / 4875		2460	4440/4925		6-6	
	FM400	2595	4675 / 5160		2610	4690 / 5175		2660	4740/5225		6-6	
3-Stage Full Free Wide View Mast	TFM430	2010	5030 / 5510		2025	5045 / 5525		2075	5095/5575		6-6	*6-6
	TFM450	2120	5180 / 5660		2135	5195 / 5675		2185	5245/5725		6-6	*6-6
	TFM470	2160	5380 / 5860		2175	5395 / 5875		2225	5445/5925		6-6	*6-6
	TFM500	2260	5680 / 6160		2275	5695 / 6175		2325	5745/6225		6-6	*6-6
	TFM550	2440	6080 / 6560		2455	6095 / 6575		2505	6145/6625		3-6	*3-6
	TFM600	2660	6680 / 7160		2675	6695 / 7172		2725	6745/7220		3-6	*3-6

MAST TYPE	MAST NAME	FREE LIFT(mm)				TOTAL WEIGHT (kg)				
		WITH/WITHOUT BACKREST	WITH/WITHOUT BACKREST	WITH/WITHOUT BACKREST	WITH/WITHOUT BACKREST	C20	C25	C30	C35	C40
		2.0t/2.5t	3.0t	3.5t	4.0t					
2-Stage Wide View Mast	M300	140 / 140	145 / 145	150 / 150	150 / 150	3450	3620	4310	4750	5170
	M330	140 / 140	145 / 145	150 / 150	150 / 150	3475	3645	4330	4770	5190
	M350	140 / 140	145 / 145	150 / 150	150 / 150	3490	3660	4345	4790	5210
	M400	140 / 140	145 / 145	150 / 150	150 / 150	3530	3705	4410	4840	5260
	M450	140 / 140	145 / 145	150 / 150	150 / 150	3570	3760	4460	4880	5300
	M500	140 / 140	145 / 145	150 / 150	150 / 150	3610	3800	4510	4920	5340
	M550	140 / 140	145 / 145	150 / 150	150 / 150	3650	3850	4560	4960	5380
	M600	140 / 140	145 / 145	150 / 150	150 / 150	3690	3900	4600	5000	5420
2-Stage Full Free Wide View Mast	FM300	1465 / 930	1425 / 945	1425 / 945	1425 / 945	3490	3635	4335	4780	5200
	FM330	1615 / 1080	1575 / 1095	1575 / 1095	1575 / 1095	3515	3655	4355	4800	5220
	FM350	1715 / 1180	1675 / 1195	1675 / 1195	1675 / 1195	3530	3670	4380	4820	5240
	FM370	1815 / 1285	1775 / 1295	1775 / 1295	1775 / 1295	3545	3690	4405	4840	5260
	FM400	2065 / 1535	1975 / 1495	1975 / 1495	1975 / 1495	3570	3725	4440	4870	5290
3-Stage Full Free Wide View Mast	TFM430	1440 / 1040	1445 / 940	1450 / 945	1450 / 945	3590	3890	4460	4860	5280
	TFM450	1500 / 1090	1525 / 995	1530 / 1000	1530 / 1000	3600	3910	4480	4880	5300
	TFM470	1550 / 1140	1575 / 1045	1580 / 1050	1580 / 1050	3630	3930	4490	4950	5370
	TFM500	1650 / 1240	1675 / 1145	1680 / 1150	1680 / 1150	3670	3980	4555	5020	5440
	TFM550	1850 / 1440	1855 / 1345	1860 / 1350	1860 / 1350	3710	4020	4600	5070	5490
	TFM600	2050 / 1640	2040 / 1545	2045 / 1550	2045 / 1550	3750	4065	4650	5120	5540

Notice: 1. With side shifter, load capacity subtract 200Kg.
2. * (Asterisk) is for double front wheels model.

COMFORT & ERGONOMICS

Smaller Steering Wheel

With 60mm less in diameter of the steering wheel, RY forklift dramatically improves the operation vision; it's easy to operate and reduce the operator's arm and shoulder's workload. The easy handling steering wheel column with tilt adjustment helps to provide the ideal operating position and improve the performance a lot.

Ergonomic Designed Operation Handler

According to the ergonomic theory, RY forklift works out the best moment arm of force, to have the operation handler in the best position. This can provide the operator with the best comfort of operation and also increase the better visibility.

Excellent Visibility

- Newly designed backrest and fork carriage with excelled fork tip visibility.
- Newly designed overhead guard with wide upward visibility.
- Super wide view mast with hidden hose design dramatically improves the front and lifting visibility, ensuring the safety of operation.
- The side angle designed counter weight clearly views the surroundings.

Low Vibration & Noise

Full suspension chassis and engine technology is completely applied to RY forklift. Divide-body design of chassis with rubber mounting between the unitary overhead guard and chassis, full floating damping device of engine, turning bridge connected flexibly and full-curve acoustic absorption, totally reduce the vibration and noise by 30% compared to conventional forklifts. With this design, RY forklift can benefit in protecting the operator and improve the operation comfort entirely.

Enlarged Operation Space

Taking ergonomic design into fully consideration, RY forklift enlarges the foot operation space by 25% compared to conventional forklifts to provide operators with a surprisingly comfortable way to get through each working minute.

Multifunctional LCD Display Meter

The large and easy-to-see Multifunctional LCD display meter can have the operator check on all operational status at a glance. The key components and connectors have been protected to meet rain-proof and dust-proof level.

Smoke Purification Device (Option)

With optional smoke purification device, RY forklift can dramatically purify the harmful gas into harmless carbon dioxide and water vapor, reduce a lot harm to human beings and environment.

Removable Wide View Cabin (Option)

Because of the new shaped tube material applied to the overhead guard, the cabin can be removable easily. With full glass cabin and less plastic design, the operator can wide view all surroundings easily.

HIGH EFFICIENCY & PRODUCTIVITY

Faster Lifting & Lowering Speed

Considering safety and energy-saving, RY forklift attaches close attention to the development of hydraulic system, and increases lifting and lowering speed to ensure the productivity.

Precisely Steering

The new axle provides wider steering angles to 85 degree to present a superior smart turning radius of RY forklift, and plus the compact design, RY forklift can navigate the narrow and congested space.

Higher Acceleration Ability

20% higher acceleration ability, surprisingly shortens the working time at the same working distance and dramatically improves the working efficiency.

New Brake System

New brake system and compounding braking assembly applied to RY forklift to increase the braking effect and safety, and enhance the productivity.

SAFETY OPERATION

Low Truck Gravity

According to the Gravity Balance Principle, low gravity design is applied to RY forklift to ensure the stable and safe operations.

Integral Heavy Duty Chassis

An integral heavy duty chassis provides the driver with 20% more protection from falling loads.

System of Active Stability

With the SAS, the wheel and tyre can be provided from swerving up and down according to the working condition to stay stability.

Mast Intelligent Buffering System

With intelligently declining buffer sensor on the two ends of the cylinder, the falling speed of the fork slows down automatically before it is 10cm from the ground, and the lifting speed to the top also slows down to avoid quick hit on the top, it super increases the safety of the goods and forklifts.

Mast Self-locking Device (Option)

For conventional forklifts, when mast extended and forklift powered off, the operator can still lower the mast. For RY forklift, with optional mast self-locking device, the forklift will be locked and lifting & lowering can not be operated in order to avoid from some unexpected accidents.

Mast Tilt-controlled Device (Option)

With mast tilt-controlled device, RY forklift can decelerate as the lifting height increases when the tilt angle over 3m. Thus, it can prevent the cargo from falling when lifting and avoid unexpected loss and accidents.

Parking Brake Warning Buzzer (Option)

An automatic-style parking brake ensures of the convenience and safety. The warning buzzer will sound when the operator leaves the seat without parking the forklift.

Operator Presense Security System (Option)

With operator presense security system, RY forklift can have the forklift stop moving forward when the operator leaves the seat which ensure the safety of goods and people around at emergency situation.

SUPERIOR & ECONOMIC SERVICEABILITY

Newly Designed Engine Cover Structure

With stronger and high intensity spring, the newly designed engine cover can be open at 75 degree to provide super wide space for inspection and service.

Easy Service and Maintenance Design

The bolt mounted foot step cover can be easily taken off to do inspection and service.

Unique Design of Radiator Assembly

Unique design of the radiator assembly, the counter weight is not necessary to be dismantled when replacing new radiator.

Reliable Hydraulic System

With reliable hydraulic design and components, the hydraulic components are with high durability which can lower the cost in repair and replacement.

Central Integrated Electric System

The central integrated design of the electric system enables the service to be easier and faster.

RELIABLE RY FORKLIFT

Reliable Forklift Quality

With the international testing standard, more reliable supplier chain, higher quality control to ensure the stability and quality of forklifts.

Perfect After Sales Service System

With perfect after sales service and I-NET system, RY forklift can analyze each forklift issue easier, faster and more accurate.

Comprehensive Parts Supply System

Parts supply system complied with multi-functional parts warehouse and I-NET system, RY forklift can provide clients with different type spare parts in time and accuracy.

Experienced Technical Support Team

There are very experienced technical support team in RY forklift to provide professional training to clients from different country.

GASOLINE/LPG FORKLIFT

The single fuel(Gasoline) and dual fuel (Gasoline & LPG) with USA brand Impco convertor are available in RY forklift range. RY Gasoline/LPG forklift is also equipped with branded engine, quality components, professional quality control system to extend the service life and also provide clients with extremely comfort and productivity.

Compared to conventional forklifts, RY Gasoline & LPG forklift has a super wide rear view for greater reversing safety by lowering the position of the LPG tank.

RY Gasoline/LPG forklift can be easily installed and removed in one minute. This ergonomic designed gas bracket is standard in each Gasoline/LPG forklift.

Ternary Purification Device(option)

The accelerant and harmful gas in this device can take place the chemical reaction. This device is usually used in the Gasoline and LPG forklifts. RY forklift adopts multiple purification and filter system, which can purify exhaust more effectively and minimize the harm to human beings and environment.

STANDARD EQUIPMENT

Drivability

Suspension Chassis
Adjustable Steering Wheel
Cup Holder
Luxurious Floor Mat
Large Floorboard
Luxurious Accelerator and Brake Pedal

Safety

Multi-Functional Combined Switch
Multi-Functional Safe Seat
Mast Intelligent Buffering System
Reverse Alarm Light
Front Combined Lamp
Rear Combined Lamp
Rearview Mirror
Buzzer
Electric Horn

Productivity

Large Volume Water Tank
Large Exhaust Window
Hour Meter
Charging Indication
Pre-heat Indication
Oil Pressure Indication
Fuel Guage
Water Temperature Guage
2-Stage 3m Wide View Mast
Bar Type Forks
Load Backrest
Overhead Guard
Pneumatic Tyres
2nd Valve and Pipe

NOK Seals
RY Label
Integral Covering
Engine Cover Lock
Air Filter
Tool Box
Operation Manual
Maintenance Manual
Spare Parts Manual
Inspection Certificate

OPTIONAL EQUIPMENT

Mast Variations

2-Stage Full Free Wide View Mast
3-Stage Full Free Wide View Mast

Valve & Pipe

3rd Valve & Pipe
4th Valve & Pipe

Attachment

Cascade Side Shift
Integrative Side Shift
Special Attachments

Tyres

Solid Tyres
No-marking Solid Tyres
Double Front Pneumatic Tyres
Double Front Solid Tyres
Double Front No-marking Solid Tyres
Solid Tyres with Holes

Efficiency and Stability System

Finger Tip Control System
Widen Backrest
Widen Carriage and Backrest

Safety System

Mast Locking System
Mast Top Limited System
Seat Sensor
Seat Belt Alarming Device
Hand Brake Alarming Device
Engine Flameout Device
Fork Extension
Extended Fork
Double Air Filter
Rear Head Light

Cabin
Heater
Air Conditioner
Wind Screen
Fire Extinguisher
Suspension Seat
Engine Fan Cover
Extra Water Tank
Sound-proof Cover
Vertical Exhaust
Floating Transmission
Partical Soot Filter



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