





Anhui Royal Forklift CO., LTD.

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Comfort & Ergonomics

Smaller Steering Wheel
Excellent Visibility
Low Vibration & Noise
Enlarged Operation Space
Multifunctional LCD Display Meter
Smoke Purification Device (Option)
Removable Wide View Cabin (Option)
Ergonomic Designed Operation Handler

Safety Operation

Low Truck Gravity
Integral Heavy Duty Chassis
System of Active Stability
Mast Intelligent Buffering System
Mast Self-locking Device (Option)
Mast Tilt-controlled Device (Option)
Parking Brake Warning Buzzer (Option)
Operator Presense Security System (Option)

High Efficiency & Productivity

Faster Lifting & Lowering Speed Precisely Steering Higher Acceleration Ability New Brake System

Superior & Economic Serviceability

Newly Designed Engine Cover Structure Easy Service and Maintenance Design Unique Design of Radiator Assembly Reliable Hydraulic System Central Integrated Electric System

Reliable RY Forklift

Reliable Forklift Quality
Perfect After Sales Service System
Comprehensive Parts Supply System
Experienced Technical Support Team



COMFORT & ERGONOMICS

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 hiden 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 mouting 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.



48 Suspension

Compared with conventional forklifts, suspension cab design can lower 30% vibration during driving.

9 PowertrainSuspension

Powertrain suspension structure limits the vibration from operation system it can significantly reduce driver's fatigue.

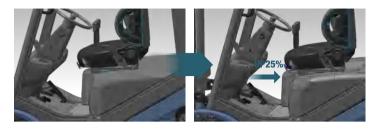
Smaller Steering Wheel

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.



COMFORT & ERGONOMICS

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 The large and easy-to-see Display Meter Multifunctional LCD display



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.

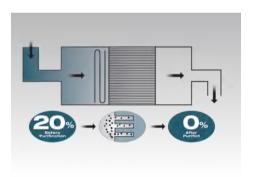
Smoke Purification Device (Option)

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 hydrualic 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 conjested space.



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.



Higher Acceleration Ability

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



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 loades. RY forklift chassis is 15% heavier than conventional forklifts to ensure more stability and safety.

System of Active Stability

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



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 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.

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SAFETY OPERATION

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 unnecessary loss and accidents.



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 ensuring the safety of goods and people around at emergency situation.



Parking Brake Warning Buzzer (Option)

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



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.

Unique Design of Radiator Assembly



Unique design of the radiator assembly, the counter weight is not need to be dismantled when replacing new radiator. It is easy to maintain and replace the radiator.

Reliable Hydraulic System



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

Easy Service & Maintenance Design

The bolt mounted foot step cover can be easily taken off to do inspection and service. This design increases the space of maintenance and lowers the maintenance cost to the least.



Central Integrated Electric System

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



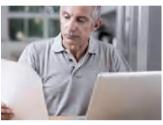
RELIABLE RY FORKLIFT

Reliable Forklift Quality



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

Comprehensive Parts Supply System



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

Experienced Support Team



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

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





GASOLINE/LPG FORKLIFT TECHNOLOGY ADVANTAGE



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.

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 provides clients with extremely comport and productivity.

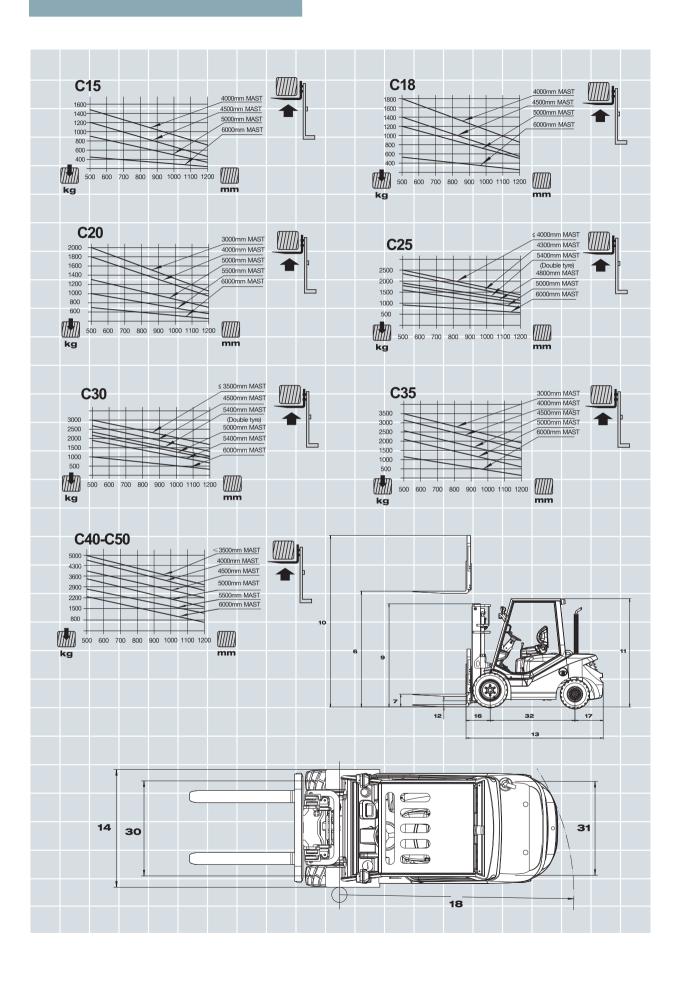


Ternary Purification Device (option)

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 adopt multiple purification and filter system, which can purify exhaust more effectively and minimize the harm to human beings and environment. It can transform toxic and harmful gas into harmless carbon dioxide and water vapor, therewith reaches environmental protection purpose.

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RY FORKLIFT



	1	Manufacturer		RY	RY	RY	RY	RY	RY	RY	RY	RY	RY	RY	RY	RY	RY	RY	RY	RY	RY	RY
ر ا												- 111								C15/18NG		C30/35HG
A A	2	Model		C15F	C18F	C20J	C25J	C30J	C35D	C20F	C25F	C30F	C20E	C25E	C30E	C35E	C40E	C45E	C50E	(C15/18N)	(C20/25H)	(C30/35H)
ENERAL	3	Power Type		Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel		iasoline/LPC	
35	4	Rated Load Capacity	kg	1500	1800	2000	2500	3000	3500	2000	2500	3000	2000	2500	3000	3500	4000	4500	5000		2000/2500	3500
DIMENSION	5	Load Centre	mm	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
	6	Rated Lift Height	mm	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000
	7	Free Lift Height	mm	135	135	140	140	145	150	140	140	145	140	140	145	150	150	135	135	135	140	145/150
	8	Mast Tilt Angle (F/R, α° / β°)				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°/10°	6°/12°	6°/12°
	9	Mast Lowered Height	mm				2045	2060	2060	2045	2045	2060	2045	2045	2060	2060	2070	2260		2040	2045	2060
		3		2040	2040	2045													2260			
	10	Mast Extended Height (With Backrest)	mm	3984	3984	4145	4145	4160	4160	4145	4145	4160	4145	4145	4160	4160	4170	4266	4266	3984	4145	4160
8	11	Overhead Guard Height	mm	2134	2134	2180	2180	2192	2192	2180	2180	2192	2180	2180	2192	2192	2200	2370	2370	2134	2180	2192
O	12	Ground Clearance (Bottom of Mast)	mm	120	120	130	130	145	145	130	130	145	130	130	145	145	145	170	170	120	130	145
ST	13	Length to Face of Fork (Without Fork)	mm	2286	2337	2625	2625	2716	2780	2625	2625	2716	2625	2625	2716	2780	2968	3068	3068	2866/2337	2625	2716/2780
ER	14	Overall Width	mm		1120	1150	1150	1225	1225	1150	1150	1225	1150	1150	1225	1225	1414	1485	1485	1120	1150	1225
RACT		Fork Size (L×W×T)	mm	920x1			125×40		×125×45	1070×1		1070×125×45	1070×1			125×45	1070×125×50			920x100x35	1070×125×40	1070×125×45
ARA		Fork Overhang (Wheel Center to Fork Face)	mm	421	421	473	473	478	478	473	473	478	473	473	478	478	493	578	578	421	473	478
CHA	17	Rear Overhang	mm	465	516	508	508	578	642	508	508	578	508	508	578	642	586	590	590	465/516	508	578/642
	18	Turning Radius (Outside)	mm	2078	2113	2315	2315	2420	2490	2315	2315	2420	2315	2315	2420	2490	2670	2790	2790	2078/2113	2315	2420/2490
	19	Working Aisle With Pallet(Ast)*, 1000x1200 Crossway	mm	3740	3740	4010	4010	4120	4190	4010	4010	4120	4010	4010	4120	4190	4550	4770	4770	3740	4010	4120/4190
	20	Travel Speed (No Load)	km/h	14.5	14.5	20	20	20	20	20	20	20	20	20	20	20	20	20	20	14.5	20	20
ш	21	Travel Speed (Full Load)	km/h	13.5	13.5	19	19	18.5	18.5	19	19	18.5	19	19	18.5	18.5	18	19	19	13.5	19	18.5
S	22	Lifting Speed (Full Load)	mm /sec	500	500	510	510	430	400	510	510	410	510	510	430	400	360	450	450	500	490	390/360
ORMANC	23	Lowering Speed (Full Load)	mm /sec	450	450	450	450	450	450	450	450	450	450	450	450	450	425	480	480	450	450	450
	24	Max.Drawbar Pull (Full Load)	KN	22(18)	22(18)	 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)	17(14.5)	17(14.5)	17(15)	22(18)	22(18)
ER	25	Max.Gradeability (Full Load)	%	20	20	20	20	20	20	20	20	20	20	20	20	20	15	20	20	20	20	20/18
T	26	Service Brake (Operation/Control)				Foot/P	owershif	t		Fc	ot/Powe	rshift		Foot/Po	wershift		Foot/	Powers	hift	Fo	ot/Powersl	hift
	27	Parking Brake (Operation/Control) Hand/Mechanica					al	al Hand/Mechanical				Hand/Mechanical Hand/					Mechar	Mechanical Hand/Mechanical			nical	
	28	Tyre (Front x 2)	mm	6.50-10	0-10PR	7.00-12	2-12PR	28×9-1	15-12PR	7.00-12	-12PR	28×9-15-16PR	7.00-1	2-12PR	28×9-1	15-12PR	250-15-16PR	300-15	-18PR	6.50-10-10PR	7.00-12-12PR	28×9-15-12PR
SiS	29	Tyre (Rear x 2)	mm	5.00-8	-10PR	6.00-9	9-10PR	6.50-1	0-10PR	6.00-9	-10PR	6.50-10-10PR	6.00-9	9-10PR	6.50-1	0-10PR	6.50-10-10PR	7.0-12	-12PR	5.00-8-10PR	6.00-9-10PR	6.50-10-10PR
ASS	30	Front Tread	mm	890	890	970	970	1000	1000	970	970	1000	970	970	1000	1000	1160	1180	1180	890	970	1000
F	31	Rear Tread	mm	920	920	980	980	980	980	980	980	980	980	980	980	980	980	1190	1190	920	980	980
	32	Wheelbase	mm	1400	1400	1650	1650	1700	1700	1650	1650	1700	1650	1650	1700	1700	1900	2000	2000	1400	1650	1700
	33	Total Weight	kg	2590	2820	3450	3620	4310	4750	3450	3620	4310	3450	3620	4310	4750	5170	6800	7100	2590/2820	3450/3620	4310/4750
토	34	Front Axle Weight Distribution (Full Load)	kg	3557	3950	4856	5372	6490	7320	4856	5372	6490	4856	5372	6490	7320	8120	9750	10500	3557/3950	4856/5372	6490/7320
효	35	Rear Axle Weight Distribution (Full Load)	kg	535	650	594	748	820	930	594	748	820	594	748	820	930	1050	1550	1600	535/650	594/748	820/930
×	36	Front Axle Weight Distribution (No Load)	kg	1070	1170	1507	1492	1764	2040	1507	1492	1764	1507	1492	1764	2040	2120	2710	2680	1070/1170	1507/1492	1764/2040
	37	Rear Axle Weight Distributi on (No Load)	kg	1522	1632	1943	2128	2546	2710	1943	2128	2546	1943	2128	2546	2710	3050	4090	4420	1522/1632	1943/2128	2546/2710
	38	Battery	V/Ah	12/60	12/60	12/90	12/90	12/90	12/90	12/90	12/90	12/90	12/90	12/90	12/90	12/90	12/90	24/90	24/90	12/60	12/60	12/60
_	39	Engine Model		AK- C24	10PKJ-30	C49	90BPG (I	EuⅢ)	A498 (Eu III)	C2	240PKJ30	0 (Eu III)		S	4S(Eu III)			Se	SS	K21	K25	K25
NO.	40	Engine Manufacturer		ISL	ISUZU XINCHA 34.3/2500 37/2650			AI .	XINCHAI	ISUZU			MITSUBISHI					MITSUBISH			NISSAN	
SS	41	Rated Output / r.p.m.	kw	34.3/				ס	45/2550	34.5/2500			4	1.8/2300			57/2200		31.2/2500	1.2/2500 44.2/2500		
=	42	Rated Torque / r.p.m.	N·m	137.7	/1800	14	8/1800-	1900	195 /1600-1800		139/18	800		18	82/1800		176/1800	285/130	00-1500	143.7/1800	186.2	2/1600
1	43	No.of Cylinder		4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
ANSN		Bore x Stroke	mm	86X102	86X102	90×100	90×100	90×100	98×110	86×102	86×102	86×102	94×120	94×120	94×120	94×120	94×120	108×125	108×125	89X83	92×93	92×93
TRANSMISSION	44	Dole X Sticke						05.40	2160	2368	2368	2368	3331	3331	3331	3331	3331	4578	4578	2065	0.470	2472
ø	44 45	Displacement	СС	2369	2369	2540	2540	2540	3168	2000	2000	2000				000.	3331	4370	4570	2005	2472	2472
ø	_		cc	2369 38	2369 38	2540 50	2540 50	50	50	50	50	50	50	50	50	50	60	90	90	38	50	50
ø	45	Displacement			38	50		50			50			50			60		90	38		
	45 46	Displacement Fuel Tank Capacity		38	38 ershift	50 Powe	50	50 Pow	50 ershift	50	50	50	50	50 rshift		50	60 nift	90	90	38	50	
ø	45 46 47	Displacement Fuel Tank Capacity Transmission Type Transmission Stage (FWD/RVS)		38 Powe	38 ershift 1/1	50 Powe	50 ershift	50 Pow	50 ershift	50 Powe	50 rshift	50 Powershift	50 Power	50 rshift	50	50 Powersh	60 nift	90 Powe	90 ershift	38	50 Powershift	50

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