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SAFER BY DESIGN

CAPACITY 2.0T-5.0T
2WD/4WD FORKLIFT



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THE BEST ROYAL QUALITY

With the belief of "technology innovating, structure promoting, products quality and service improving", take professionalization, internationalization and green environmental protection as standards, to build Royal into the most respectable forklift brand. Royal has focused on improving the comfort and safety for the rough terrain forklift, with less vibration lower noise level, more safety and more attention to the detail and design for the driver. With new outline design, new technology applied, and it provides more operating comfort, more reliable, and more intelligent options, that can meet various application demands.

FEATURED EQUIPMENT

Tilting cab for easy access to the engine and components.

Ergonomic joystick that controls the movements of the mast and the transmission.

Steering wheel with adjustable height and reach, for optimum operator comfort and safety.

Display screen to access machine information and onboard diagnostics.

Differential lock on front and rear axles.

Sensor to prevent the machine from being used without following the minimum safety procedures.



2WD/4WD

ADVANTAGES:

1 Strong performance

With pro off-road chassis and differential lock, these forklifts provide better grip and stability on uneven, loose, or slippery surfaces.

2 Versatility

These forklifts are ideal for rough terrain like construction sites, farms, and lumberyards.

3 Improved Operator Comfort

Our models come with enclosed, climate-controlled cabins (option) and advanced suspension systems to ensure that operators remain comfortable and safe while working in rough conditions.



- **LED Lights**
Energy Savings, Long Life . LED Lights offer long life and low energy consumption.



- **Cowl-mounted Hydraulic Levers**
Provide easy-to reach, easy-to-use control of mast operations.



- **Car Type Hand Brake**
Hand parking brake device with button greatly reduces fatigue in operation, lighter and safer.



- **OPS**
Operator presence security system.



- **Greater Rear View**
Design for better rear view



570mm/s
Lifting speed with load



- **Forward Visibility**
Optimal mast width and hose lay-behind ensure a clear view through the mast.



- **Multifunctional LCD Display**
Better design, convenient and quick to get the data of the truck.



520mm/s
lowering speed



45%
Maximum gradeability with load



25km/h max



- **Suspension Pedals**
Provide extra foot space helps significantly reduce the driver's fatigue and vibration from the transmission, increase operation comfort



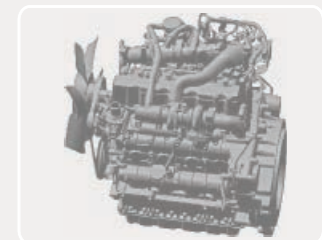
- **Large Foot Operation Space**
The foot operation space be enlarged by 20% to provide operator with comfortable feeling.



- **High Fuel Capacity**
Up to 95L (5T model) diesel capacity to meet the needs of long and rough terrain working conditions.



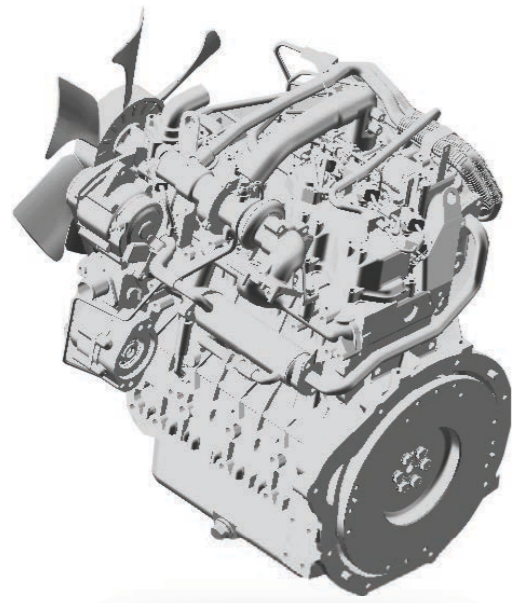
- **2WD/4WD switch**
Adapt to different conditions at any time.



- **Imported Engine**
Mitsubishi, Kubota, etc., a variety of brands are available. Up to Euro V/ Tier-4 emission standards.

POWERFUL / EFFICIENT / RELIABLE

"Royal 2.0-5.0t rough terrain with 2WD/4WD. It adopts Mitsubishi and Deutz engine, which is powerful and reliable, easy to maintain; It can adapt to the rugged roads in the stonemarket, timber market, construction sites, etc., as well as the wet and slippery roads in rain and snow. The ground clearance is maximum 375mm, it offers greater maneuverability and keeps the truck moving even if on the roughest road surface, and yet we keep a very low center of gravity, by using distributed weight in the forklift to keep it at excellent stability.



STAGE V & TIER 4F

With Royal you can meet all Stage V/Tier 4f emissions standards which provides customer demands for value, innovation and performance. The technologies include common rail fuel systems, diesel oxidation catalysts (DOC) and diesel particulate filters (DPF). Designed and optimised to every engine model, our forklift truck maximises efficiency and reliability

Exceptional all terrain capability

Large diameter front wheels with good load distribution on both axles with central differential locking system. Available in a wheel drive and 4 wheel drive.

EXCEPTIO



- Drive Model **4 x 4**
- Very tight turning radius **3.02 m**
- Mast reclines up to **15°**
- Lifting height up to **7 m**
- Max. Gradeability **45%**
- Maximum capacity **5 Ton**
- Low profile model (total height) **1990 mm**
- Fuel tank capacity max **95 L**

EFFICIENT, RELIABLE SOLUTIONS FOR YOUR DEMANDS

The experience of versatile handling

Already widely acclaimed for its unmatched performance the 4WD is suited to any kind of handling: in narrow alleys, it proves outstandingly manoeuvrable due to its short turning radius for storage at a height, it can be fitted with up to 7-metre masts it has a hydraulic differential lock as standard which allows it to travel through difficult areas.



Newly-developed LCD instrument has more comprehensive functions and more stable performance and entirely displays the full truck state, fault code and other important information, which can make the operator more intuitively and conveniently have a better knowledge of truck state and make the maintenance conveniently.

Reason: choose Four-wheel Drive Rough Terrain forklift



RELIABILITY:

A four-wheel drive rough terrain forklift is designed for the most challenging environments. Built base on full new off-road chassis and designed to operate in various environments, it ensures high durability even in harsh conditions such as mud, gravel, rocky, and uneven surfaces. The reinforced frame and protected chassis resist damage from obstacles, reducing downtime and repairs, making it a reliable choice for tough job sites.



PRODUCTIVITY:

With powerful engines and advanced hydraulic systems, Royal rough terrain forklifts can handle heavy loads over long distances quickly and efficiently. The four-wheel drive feature allows for excellent traction on uneven or loose surfaces, ensuring that work can continue without delay, regardless of the terrain. This results in less time lost due to weather or site conditions and a significant boost in overall productivity.



ENVIRONMENTAL FRIENDLINESS:

Royal rough terrain forklifts are equipped with advanced engines that comply with strict emissions standards (top to EU-V or TIER-4). Features like high fuel efficiency, low noise emissions, and double filter options reduce the environmental impact.

A RELIABLE PRODUCTIVE

Footspace enlarges by 25%, making the operator more relaxed.
Suspension Design System 1: Suspension foot brake, makes operation more easily and comfortably.
Suspension Design System 2: Suspension safeguard, reduces vibration caused by the forklift body Energy Savings,
Long Life LED Lights offer long life and low energy consumption. Internal cylinder design for dust-proof and avoid potential damage



MANEUVERABILITY

The ground clearance is maximum 375mm, it offers greater maneuverability and keeps the truck moving even if on the roughest road surface, and yet we keep a very low center of gravity, by using distributed weight in the forklift to keep it at excellent stability.



SMALLER STEERING WHEEL

The driver operates the steering wheel – which is also adjustable – with their left hand. It is small, easy to handle and enables quick and easy maneuvering. Thanks to its decentralized positioning, the shoulder movements of the left arm are also reduced to a minimum, which helps to relieve arm fatigue for drivers.



SUSPENSION PEDALS

The extra foot space is provided to reduce operator fatigue significantly, non-slip step makes getting in and out easy and safe. The new designed steering wheel new brake system and the easy-to-operate levers provide total handling operation.



FULL FLOATING SAFEGUARD

The large assist grip, lowstep make getting on and off more smooth. This can help reduce the operator's fatigue. The foot operation space been enlarged by 20% to provide operator with comfortable feeling. Adjustable seat with adjustable small-diameter steering wheel, with the theory of ergonomic. It can provide the operator with the best comfort of operation and also increase the better visibility.



LCD DISPLAY

Fuel level, warning lights, operating hours and more: The standard display provides a quick overview of all the important information. It is convenient for the operator to understand and view the real time status of the forklift in time. At the same time, the operator can use the camera (optional) to expand the field of vision and see the situation in front of the goods, so as to meet the needs of safer operation.

FULL FLEXIBILITY FOR ALL REQUIREMENTS



EVERY DELIVERY IS A TRUST. ROYAL ALWAYS WITH YOU!

ROYAL CAN BRING YOU MORE VALUE!

Royal has introduced a brand-new intelligent manufacturing production process, ensuring that the performance, testing, and manufacturing costs of every equipment are optimized. Royal continuously optimizes and improves its products, ensuring that they are of superior quality, more reliable, and more cost-effective!



COST SAVING

By introducing automotive production processes, fully intelligent and customized manufacturing flows, more refined production techniques, we can achieve cost savings, improve the utilization rate of raw materials, optimize supply chain management, enhance production efficiency, reduce production costs, and maintain competitiveness.



MORE SAFER

With its advanced ergonomic design, Royal forklifts provide a high level of driving comfort and intuitive operational sequences, enhancing work efficiency and reducing downtime for drivers, ensuring smoother operations and safer movements every time.



MORE SUPPORTS

Royal has very strict production process for its own products. At the same time, its performance testing is far higher than the standard of industry certification test, which is recognized by customers from more than 100 countries and regions around the world. In addition, Royal's professional R&D team and after-sales team, as well as the four global market branches, are always online to solve your problems.

TECHNICAL DATA

		ROYAL FORKLIFT (SUZHOU) CO.,LTD.						
1.01		Manufacturer						
General	1.02	Model	T20-2	T25-2	T30-2	T35-2	T50-2	
	1.03	Power type	Diesel	Diesel	Diesel	Diesel	Diesel	
	1.04	Drive Type	4x2	4x2	4x2	4x2	4x2	
	1.05	Rated capacity	Kg	2000	2500	3000	3500	5000
	1.06	Load centre	mm	500	500	500	500	600
	Characteristic&Dimension	2.01	Lifting height	mm	3000	3000	3000	3000
2.02		Free lift	mm	140	140	150	150	260
2.03		Fork size	LxWxT mm	1220x125x40	1220x125x40	1220x125x50	1220x125x50	1220x150x60
2.04		Fork regulating range (Min./Max.)	mm	16/1580	16/1580	16/1580	16/1580	16/2000
2.05		Mast tilt angle (F/R)	Deg	10/12°	10/12°	10/12°	10/12°	15°/15°
2.06		Front overhang	mm	586	586	606	606	732
2.07		Rear overhang	mm	540	540	540	540	740
2.08		Min.ground clearance(drive steering axle)	mm	217	217	217	217	324
2.09		Min.ground clearance(chassis)	mm	285	285	285	285	370
2.10		Min.ground clearance(mast)	mm	270	270	270	270	385
2.11		Length to face of fork(without fork)	mm	3010	3010	3010	3010	3665
2.12		Overall width	mm	1600	1600	1600	1600	2105
2.13		Mast lowered height	mm	2220	2220	2270	2270	2685
2.14		Mast extended height (with backrest)	mm	4280	4280	4330	4330	4534
2.15		Overhead guard height	mm	2275	2275	2275	2275	2575
2.16		Height from seat surface to overhead guard inner side	mm	960	960	960	960	1003
2.17		Turning radius	mm	2785	2785	2785	2785	3550
2.18		Min. right angle stacking aisle width	mm	4810	4810	4810	4810	/
Performance	3.01	Travel Speed (Laden/Unladen)	Km/h	18/20	18/20	22/22	22/22	25/25
	3.02	Lifting Speed	mm/s	570	570	450	450	450
	3.03	Lowering Speed	mm/s	445	445	500	500	520
	3.04	Max. Drawbar pull	KN	17	17	17	17	77
	3.05	Max. Gradeability	%	16	16	16	16	39
Tyre	4.01	Front Tyre		14-17.5-14PR	14-17.5-14PR	14-17.5-14PR	14-17.5-14PR	445-65-22.5PR
	4.02	Rear Tyre		10.0-75-15.3	10.0-75-15.3	10.0-75-15.3	10.0-75-15.3	12.5/80-18
	4.03	Front Tread	mm	1250.5	1250.5	1250.5	1250.5	1660
	4.04	Rear Tread	mm	1205	1205	1205	1205	1760
	4.05	Wheelbase	mm	1880	1880	1880	1880	2150
SW	5.01	Self weight	kg	5050	5100	5200	5200	9050
Combustion engine	6.01	Engine manufacturer		Kubota	Kubota	Kubota	Kubota	Kubota
	6.02	Engine model						
Transmission	7.01	Battery (Voltage/Capacity)	V/Ah	12/90	12/90	12/90	12/90	24/90
	7.02	Fuel tank capacity	L	58	58	58	58	120
	7.03	Transmission Type		Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic
	7.04	Transmission (F/R)		1/1	1/1	1/1	1/1	2/1
	7.05	Operating pressure	Mpa	17.5	17.5	17.5	17.5	19.5

General	1.01	Manufacturer	ROYAL FORKLIFT (SUZHOU) CO.,LTD.					
	1.02	Model	T20-4	T25-4	T30-4	T35-4	T50-4	
	1.03	Power type	Diesel	Diesel	Diesel	Diesel	Diesel	
	1.04	Drive Type	4x4	4x4	4x4	4x4	4x4	
	1.05	Rated capacity	Kg	2000	2500	3000	3500	5000
	1.06	Load centre	mm	500	500	500	500	600
Characteristic&Dimension	2.01	Lifting height	mm	3000	3000	3000	3000	3000
	2.02	Free lift	mm	140	140	150	150	260
	2.03	Fork size	LxWxT mm	1220x125x40	1220x125x40	1220x125x50	1220x125x50	1220x150x60
	2.04	Fork regulating range (Min./Max.)	mm	16/1580	16/1580	16/1580	16/1580	16/2000
	2.05	Mast tilt angle (F/R)	Deg	10/12°	10/12°	10/12°	10/12°	15°/15°
	2.06	Front overhang	mm	586	586	606	606	732
	2.07	Rear overhang	mm	540	540	540	540	740
	2.08	Min.ground clearance(drive steering axle)	mm	225	225	225	225	324
	2.09	Min.ground clearance(chassis)	mm	255	255	255	255	370
	2.10	Min.ground clearance(mast)	mm	270	270	270	270	385
	2.11	Length to face of fork(without fork)	mm	3010	3010	3010	3010	3665
	2.12	Overall width	mm	1600	1600	1600	1600	2105
	2.13	Mast lowered height	mm	2225	2225	2275	2275	2685
	2.14	Mast extended height (with backrest)	mm	4285	4285	4335	4335	4534
	2.15	Overhead guard height	mm	2280	2280	2280	2280	2575
	2.16	Height from seat surface to overhead guard inner side	mm	960	960	960	960	1003
	2.17	Turning radius	mm	3020	3020	3020	3020	4150
	2.18	Min. right angle stacking aisle width	mm	4810	4810	4810	4810	4810
Performance	3.01	Travel Speed (Laden/Unladen)	Km/h	22/22	22/22	20/20	20/20	25/25
	3.02	Lifting Speed	mm/s	570	570	450	450	450
	3.03	Lowering Speed	mm/s	445	445	500	500	520
	3.04	Max. Drawbar pull	KN	17	17	17	17	85
	3.05	Max. Gradeability	%	45	45	45	45	45
Tyre	4.01	Front Tyre		14-17.5-14PR	14-17.5-14PR	14-17.5-14PR	14-17.5-14PR	445-65-22.5PR
	4.02	Rear Tyre		10.0-75-15.3	10.0-75-15.3	10.0-75-15.3	10.0-75-15.3	12.5/80-18
	4.03	Front Tread	mm	1250	1250	1250	1250	1660
	4.04	Rear Tread	mm	1190	1190	1190	1190	1760
	4.05	Wheelbase	mm	1880	1880	1880	1880	2150
Sw	5.01	Self weight	kg	5200	5250	5500	5600	9050
Combustion engine	6.01	Engine manufacturer		Kubota	Kubota	Kubota	Kubota	Kubota
	6.02	Engine model						
Transmission	7.01	Battery (Voltage/Capacity)	V/Ah	12/90	12/90	12/90	12/90	24/90
	7.02	Fuel tank capacity	L	62	62	62	62	95
	7.03	Transmission Type		Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic
	7.04	Transmission (F/R)		2/1	2/1	2/1	2/1	2/1
	7.05	Operating pressure	Mpa	17.5	17.5	17.5	17.5	19.5

WIDE VIEW MAST	Mast model	Max. lifting height (mm)	Load capacity(load center 500mm)				Mast overall height (fork to the ground)			Service weight				Mast tilting angle (°)α/β
			2t	2.5t	3t	3.5t	2-2.5t	3t	3.5t	2t	2.5t	3t	3.5t	
	M200	2000	2000	2500	3000	3500	1650	1700	1750	4810	4830	4920	4970	10/12
	M250	2500	2000	2500	3000	3500	1900	1950	2000	4940	4960	5050	5100	10/12
	M300	3000	2000	2500	3000	3500	2150	2200	2250	4990	5010	5100	5150	10/12
	M330	3300	2000	2500	3000	3500	2300	2350	2400	5020	5040	5130	5180	10/12
	M350	3500	2000	2500	3000	3500	2450	2450	2500	5040	5060	5150	5200	10/12
	M370	3700	2000	2500	3000	3500	2500	2550	2600	5050	5070	5160	5210	10/12
	M400	4000	2000	2500	2900	3500	2700	2750	2800	5130	5150	5240	5290	10/12
	M425	4250	1950	2200	2900	3400	2825	2875	2925	5150	5170	5260	5310	10/12
M450	4500	1850	2000	2850	3350	2950	3000	3050	5180	5200	5290	5340	10/12	
M500	5000	1500	1800	2600	3100	3200	3250	3300	5230	5250	5340	5390	6/6	
M550	5500	1350	1450	2400	2900	3500	3550	3600	5270	5290	5380	5430	6/6	
M600	6000	1200	1300	2000	2500	3750	3800	3850	5320	5340	5430	5480	6/6	

WIDE VIEW FULL FREE 2-STAGE MAST	Mast model	Max. lifting height (mm)	Load capacity(load center 500mm)				Mast overall height (fork to the ground)			Free lifting height(with backrest)(mm)			Service weight (kg)				Mast tilting angle (°)α/β
			2t	2.5t	3t	3.5t	2-2.5t	3t	3.5t	2-2.5t	3t	3.5t	2t	2.5t	3t	3.5t	
	ZM200	2000	2000	2500	3000	3500	1650	1700	1750	500	340	443	3350	4880	4970	5020	10/12
	ZM250	2500	2000	2500	3000	3500	1900	1950	2000	750	590	693	3410	5010	5100	5150	10/12
	ZM300	3000	2000	2500	3000	3500	2150	2200	2250	1000	840	943	3480	5060	5150	5200	10/12
	ZM330	3300	2000	2500	3000	3500	2300	2350	2400	1150	990	1093	3520	5090	5180	5230	10/12
	ZM350	3500	2000	2500	3000	3500	2400	2450	2500	1250	1090	1193	3550	5110	5200	5250	10/12
	ZM370	3700	2000	2500	3000	3500	2500	2550	2600	1350	1190	1293	3570	5120	5210	5260	10/12
	ZM400	4000	2000	2350	2900	3500	2700	2750	2800	1550	1390	1493	3660	5200	5290	5340	10/12
	ZM425	4250	1950	2000	2900	3500	2825	2875	2925	1675	1515	1618	3700	5220	5310	5360	10/12
ZM450	4500	1600	1800	2850	3400	2950	3000	3050	1800	1640	1743	3730	5250	5340	5390	10/12	
ZM500	5000	1500	1700	2600	3100	3200	3250	3300	2050	1890	1993	3800	5300	5390	5440	6/6	
ZM550	5500	1300	1400	2400	2900	3500	3550	3600	2350	2190	2293	3910	5340	5430	5480	6/6	
ZM600	6000	1100	1200	2000	2500	3750	3800	3850	3500	2440	2543	3980	5390	5480	5530	6/6	

WIDE VIEW FULL
FREE 3-STAGE MAST

Mast model	Max. lifting height (mm)	Load capacity(load center 500mm)				Mast overall height (fork to the ground) (mm)		Free lifting height (with backrest)(mm)			Service weight (kg)				Mast tilting angle (°)α/β
		2t	2.5t	3t	3.5t	2-2.5t	3-3.5t	2-2.5t	3t	3.5t	2t	2.5t	3t	3.5t	
ZSM360	3600	2000	2400	2800	3300	1950	2000	800	640	640	5060	5090	5180	5230	10/12
ZSM400	4000	1900	2400	2800	3300	2100	2150	950	790	790	5080	5110	5200	5250	10/12
ZSM435	4350	1900	2300	2800	3300	2200	2250	1050	890	890	5120	5150	5240	5290	10/12
ZSM450	4500	1850	2150	2700	3200	2250	2300	1100	940	940	5130	5160	5250	5300	10/12
ZSM470	4700	1750	1900	2500	3000	2315	2360	1165	1000	1000	5150	5180	5270	5320	10/12
ZSM480	4800	1750	1900	2500	3000	2360	2400	1210	1040	1040	5160	5190	5280	5330	10/12
ZSM500	5000	1600	1800	2400	2900	2450	2500	1300	1140	1140	5190	5220	5310	5360	6/6
ZSM540	5400	1300	1500	2100	2900	2550	2600	1400	1240	1240	5220	5250	5340	5390	6/6
ZSM600	6000	1000	1150	1750	2250	2750	2800	1600	1440	1440	5320	5350	5440	5490	6/6

