



HEAVY DUTY FORKLIFT SERIES

FD160C 16 TON FORKLIFT



**SOCMA POWER
LIFT YOUR BUSINESS**

RS Machinery & Engineering Pte. Ltd

Website: www.rsmech.org

FD160C HEAVY-DUTY FORKLIFT



DRIVING AXLE

Kessler Drive Axle: Equipped with a Kessler drive axle, the forklift boasts exceptional load-bearing capacity and stability, even when handling maximum loads. The Kessler axle's high durability and reinforced structure are designed to withstand the stress of continuous heavy-duty operations, ensuring reliable traction and performance on various terrains. This advanced drive axle complements the forklift's powertrain, offering smoother operation, enhanced stability, and reduced wear over time.

TRANSMISSION

ZF Transmission: The integration of a ZF transmission offers smooth and precise gear shifts, enhancing the forklift's maneuverability and control. Known for their efficiency and durability, ZF transmissions provide optimal power delivery, reducing fuel consumption and minimizing drivetrain wear and tear. This ensures a longer operational life and contributes to lower overall maintenance costs.



LIFTING COMPONENTS

- ◆ Reinforced design of special mine carriage and mast; through Finite Element Analysis(FEA), it has the ability to resist and high- intensity operations.
- ◆ Standard equipped with a widened duplex mast, which enhances the torsion resistance of the mast, and has a wide field of vision; double speed limit valve oil circuit (the mast is lowered with a speed limit valve to reduce the impact of the hydraulic system), which is more safe.
- ◆ Optional with duplex and triplex free lifting mast. Standard with hydraulic heavy-duty side shift fork positioner.
- ◆ The forks are interchangeable and can be replaced quickly; Standard with Cascade brand forks , which are stronger, more wear- resistant, and can double their service time.



POWER SYSTEM

Cummins QSB6.7-C170 Engine: The forklift is powered by a Cummins QSB6.7-C170 diesel engine, renowned for its high torque, fuel efficiency, and low emissions. This robust engine supplies the necessary power to tackle demanding tasks across various terrains, while its durable construction guarantees long-term, dependable performance with reduced maintenance requirements.

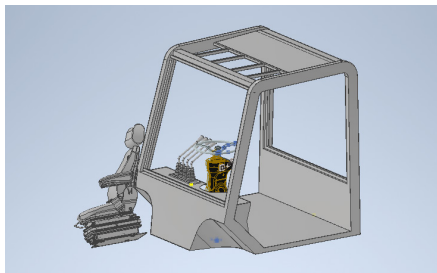


HYDRAULIC SYSTEM

Double pumps merge, steering priority hydraulic system. The system has small flow, low power consumption, reliable performance and excellent operating performance.

The hydraulic system is equipped with oil return radiator and back pressure protection device to ensure the heat balance of the whole machine.

The single-handle joystick control valve and electronically controlled variable speed control valve, make operation of the whole machine lighter and more flexible. Highlight the characteristics of high-quality material handling products.



CAB

- ◆ The luxurious wide-view cab is equipped with a sunroof, which has low noise and good sealing, which is convenient for the driver to observe all around.
- ◆ The steering wheel is adjustable, small and dexterous, which enlarge the space for driver's leg; Supplemented by luxury airline seats to bring comfortable and flexible operation experience.
- ◆ Equipped with air-conditioner and heater; new LCD instrument (above 18 tons, optional for small tonnage) CAN integration, the engine and vehicle related parameters are integrated, high-end and beautiful appearance.
- ◆ Tilting cab for easy access to th interior of the vehicle for maintenance
- ◆ Standard equipped with the reversing display screen; Weight scale is optional
- ◆ **Overhead guard&Conventional lever(TCM type) is optional**

Standard Specification:

Wide view duplex mast, Closed cabin with AC, Joystick control, Full hydraulic power steering, Side-shifting fork positioner, Standard forks, Pneumatic tires, Adjustable Steering Column, Reverse Monitor, Suspension seat, LED lights, Fire extinguisher, Toolbox

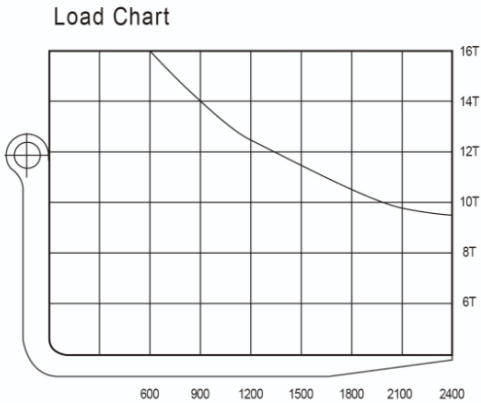
Options:

Overhead guard, Hydraulic control lever,3-8m duplex or triplex full free mast, Special carriage and backrest, Solid tires, Aviation OPS seat, Automatic fire extinguisher for the engine cabin, Automatic lubrication system, Dual air cleaner or special air cleaner, Other dimension forks, 360 Camera,GPS,Customized painting

Attachment:

Fork extension, Coil ram, Crane Jib, Double-Boom spreader, Pipe stabilizer, Tire clamp, Container Hoisting Attachment etc.

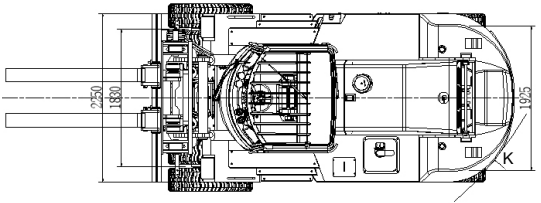
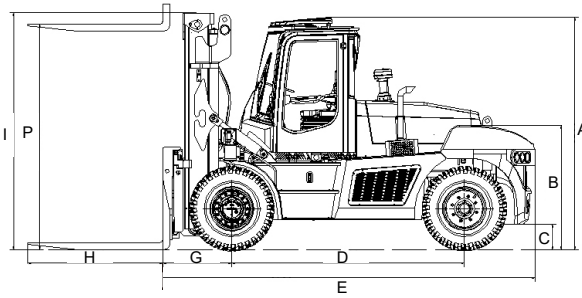
2 stages Wide view mast VM					
Mast Model	Lifting capacity @ 600mm Lo-ad center	Max. lift-ing height	Mast height		Tilt angle fwd-bwd
	kg	mm	fork lowered	Forklift with backrest	deg
VM300	16000	3000	3150	4650	6/12
VM330	16000	3300	3300	4950	6/12
VM350	16000	3600	3400	5150	6/12
VM380	16000	3800	3550	5450	6/12
VM400	16000	4000	3650	5650	6/12
VM450	16000	4500	3900	6150	6/12
VM500	14000	5000	4150	6650	6/12
VM550	12000	5500	4400	7150	4.5/9
VM600	10000	6000	4650	7650	4.5/9



TECHNICAL PARAMETER

Items		Uint	FD160C
Features	Rated Load	(t)	16
	Load center	(mm)	600
	Wheelbase	(mm)	3100
	Weight	kg	19300
Chassis	D Tyre Specs:Front	-	11.00-20-18PR
	Tyre Specs:Rear	-	11.00-20-18PR
	Tyres Qty,fronVrear(X-drive wheels)	-	4\2
	Wheel tread:Front	(mm)	1730
	Wheel tread:Rear	(mm)	1925
	Transmission	-	ZF WG161
Dimension	Drive axle	-	Kessler D81PL478-NLB
	Mast/carriage tilt angle(front/rear)	(°)	6\12
	I Mast height fork lowered	(mm)	3400
	P Mast lifting height	(mm)	3600
	Q Mast height forklift with backrest	(mm)	5150
	A Height to head guard(height to cab)	(mm)	3100
	F Overall length (without forks)	(mm)	4970
	E Fork front vertical surface to the rear end of the vehicle	(mm)	4970
	L Overall width	(mm)	2500
	Fork dimension	(mm)	(1800-2440) X180X90
	Fork carriage width	(mm)	2430
	C Mast min ground clearance(with load)	(mm)	225
	Wheelbase center min ground clearance(with load)	(mm)	380
	K Min.Turning radius	(mm)	4900
	Travel speed(with load/without load)	km/h	23/26
	Max.lifting speed(with load/without load)	mm/s	205/255
	Max. Lowering speed (with load/without load)	mm/s	435/285
	Traction	kN	90
	Gradeablty(with load/without load)	%	20/22
Performance	Driving brake	-	Wet brake
	Engine	Brand	Cummins
		Model	QSB6.7-C170
		Rated Power	kw/rpm
		Rated torque	n-m/rpm
		Number Of Cylinder	-
		Displacement	L
		Fuel tank Capacity	L
Others	Transmission gears(Front/rear)	-	3/3
	Attachments working pressure	MPa	16
	Attachments using oil amount	L/min	40

Note: The above data are subject to change without prior notice



Optional attachment



Side Shifting Fork Positioner(standard configuration)

It also has fork distance adjustment and side shifting functions to improve operating efficiency.



Coil Ram

Suitable for coiled goods such as steel coils and wire rods



Double-Boom Spreader

Used for lifting heavy box goods



Tire clamp

Used for the installation and removal of tires for large mining vehicles.



Fork Extension

Effectively extend the fork, suitable for handling larger-shaped goods



Crane Jib

Lifting cargo safely and efficiently



Pipe Stabiliser

Easy to handle large diameter steel pipes



Container hoisting attachment

Used for stacking and transferring 20-40ft empty or loaded containers.



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