



HEAVY DUTY FORKLIFT SERIES

HNF160S 16 TON FORKLIFT



**SOCMA POWER
LIFT YOUR BUSINESS**

FUJIAN SOUTHCHINA HEAVY MACHINERY MANUFACTURE CO., LTD

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HNF160S HEAVY-DUTY FORKLIFT



DRIVING AXLE

The front axle adopts a heavy-duty forklift drive axle. The axle housing, wheel hub and bearing are enlarged in size. The spiral bevel gear and wheel side planetary gear reduce speed and increase the torque. The steel type axle housing support, ensure the large load capacity and long service life.

Using non-spoke pressure plate rim, the wheel hub has a stronger bearing capacity and is convenient for maintenance and disassembly.

The rear axle adopts a horizontal hydraulic cylinder steering mechanism. The steering axle has a compact structure and a steering angle is up to 70.5, which is beneficial to reduce steering resistance, reduce tire wear, and improve driving comfort.

German Kessler driving axle is optional.



TRANSMISSION

- ◆ standard equipped with domestic famous brand planetary transmission, automatic shift transmission can change gears very smoothly, reliable, safe, and easy to maintain.
- ◆ It adopts double-turbo hydraulic torque converter, stepless speed change, single lever control speed change system, which makes the operation easier.
- ◆ Equipped With A Neutral Start Device, The Whole Machine Starts More Safety.
- ◆ Optional With Electric Transmission, Electric Control Valve, German ZF Transmission, And Power Shift Fixed Axis Hydraulic Transmission For Forklifts.

LIFTING COMPONENTS

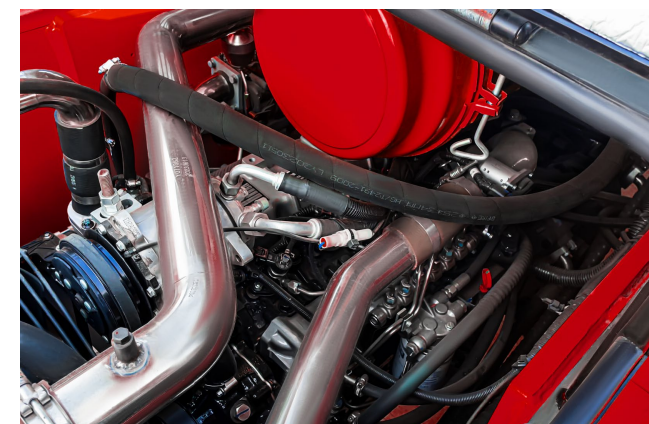
- ◆ Reinforced design of special mine carriage and mast; through Finite Element Analysis(FEA), it has the ability to resist and high- intensity operations.
- ◆ Standard equipped with a widened duplex mast, which enhances the torsion resistance of the mast, and has a wide field of vision; double speed 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

Equipped well-known turbocharged engine: strong horsepower, large torque reserve, low fuel consumption, high reliability; easy access to accessories.

Optional with Weichai, Cummins, Yuchai, Volvo, and other brands.



HYDRAULIC SYSTEM

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

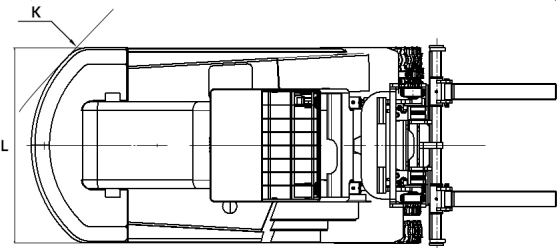
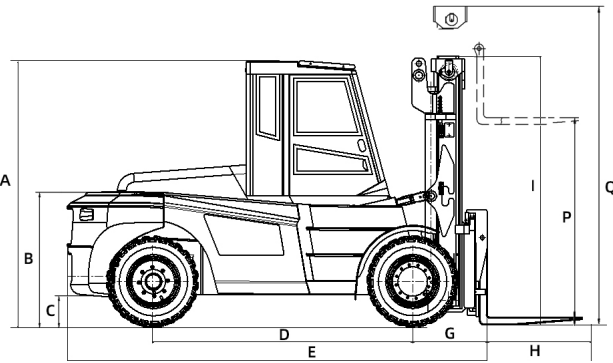
The hydraulic system is equipped with oil return radiator and back pressure protection device to ensure the heat balance of the whole machine.

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.
- ◆ Optional tilting cab (12-18 tons) for easy access to the interior of the vehicle for maintenance.
- ◆ All series forklifts are equipped with a reversing display screen; weight counter can be installed based on customer requirements.



TECHNICAL PARAMETER

Items		Uint	HNF-160S
Features	Rated Load	(t)	16
	Load center	(mm)	600
	D Wheelbase	(mm)	3300
	Weight	kg	19500
Chassis	Tyre Specs:Front		12.00-20-18PR
	Tyre Specs:Rear		11.00-20-18PR
	Tyres Qty,fronVrear(X-drive wheels)		4\2
	Wheel tread:Front	(mm)	1740
	Wheel tread:Rear	(mm)	2013
Dimension	Mast/carriage tilt angle(front/rear)	(°)	6\12
	I Mast height(fork lowering)	(mm)	3140
	P Mast lifting height	(mm)	3000
	Q Max.lifting height	(mm)	4640
	Height to head guard(height to cab)	(mm)	3040
	F Overall length(with forks)	(mm)	6355
	E Fork front vertical surface to the rear end of the vehicle	(mm)	5155
	L Overall width	(mm)	2400
	Fork dimension	(mm)	1200X180X90
	Fork carriage width	(mm)	2200
	Mast min ground clearance(with load)	(mm)	225
	Wheelbase center min ground clearance(with load)	(mm)	350
	K Min.Turning radius	(mm)	5800
	Travel speed(with load/without load)	km/h	23/26
	Max.lifting speed(with load/without load)	mm/s	205/255
Performance	Max. Lowering speed (with load/without load)	mm/s	435/285
	Traction	kN	90
	Gradeability(with load/without load)	%	20/22
	Driving brake		Hydraulic clamp disc
Engine	Engine brand/model	Optional one	Yuchai engine YC6J150-T301
		Optional two	Dongfeng Cummins
		Optional three	Dongfeng Cummins QSB4.5-C130 (EU III)
	Cylinder No.		
Others	Transmission gears(Front/rear)		2\2
	Attachments working pressure	MPa	16
	Attachments using oil amount	L/min	40

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



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