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FORKLIFT SERIES

SOCMA POWER

LIFT YOUR BUSINESS



12-16 TON 15-18 TON 20-25 TON
28-32 TON 35-50 TON



CHINA • FUJIAN
FUJIAN SOUTHCHINA HEAVY MACHINERY MANUFACTURE CO.,LTD



Fujian Southchina Heavy Machinery Manufacture Co., Ltd. dedicates to the R & D of material handling equipment, construction machineries and new energy construction & port machineries such as heavy-duty forklift, crane forklift, telehandler, electric excavator, electric wheel loader, extended range electric wheel loader, electric heavy-duty forklift, etc. and furnace-tending vehicle & furnace-charging vehicle which is customized for use in the metal smelting industry.



• THE MISSION OF SOCMA

The mission of SOCMA is dedicating to provide the most rugged and durable, high cost-effectiveness, high return rate material handling equipment, construction machinery products and services to our clients.

• THE VISION OF SOCMA

The vision of SOCMA is to let SOCMA become the respectable international brand from China.

• THE CORE VALUE OF SOCMA

Customer Oriented. Staffs foremost insist on self-criticism and introspection. SOCMA is growing up always.



COMPANY PROFILE

ADVANTAGES OF SOCMA HEAVY DUTY FORKLIFTS

01 Driving Alex

1.1 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 ensures the large load capacity and long service life.

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

1.3 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.

1.4 German Kessler driving axle is optional.

02 Transmission

2.1 Standard equipped with domestic famous brand planetary transmission, automatic shift transmission can change gears very smoothly, reliable, safe, and easy to maintain.

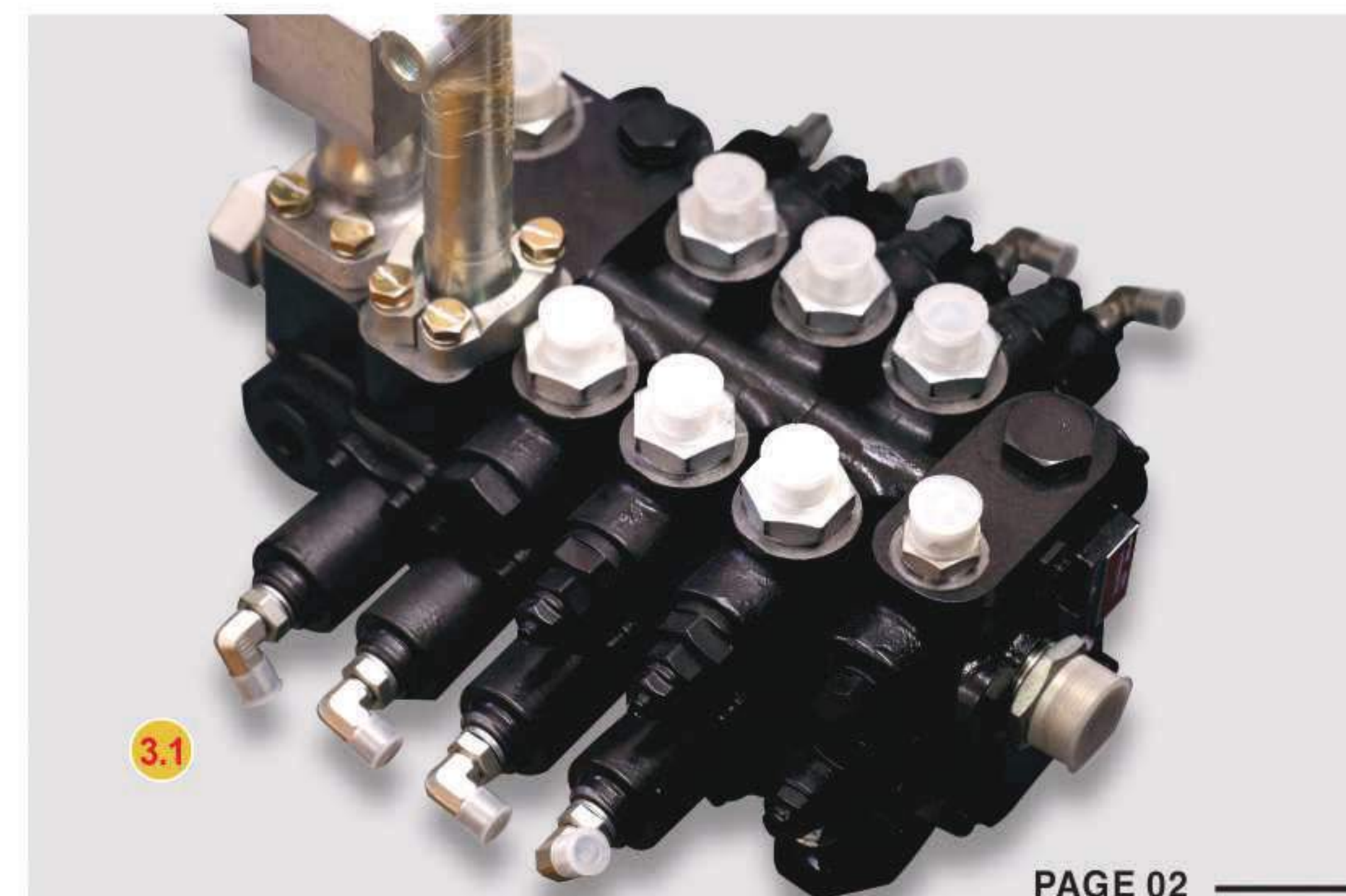
2.2 It adopts double-turbo hydraulic torque converter, stepless speed change, single lever control speed change system, which makes the operation easier.

2.3 Equipped with a neutral start device, the whole machine starts more safely.

2.4 Optional with electric transmission, electric control valve, German ZF transmission, and power shift fixed axis hydraulic transmission for forklifts.

03 Hydraulic System

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



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

3.3 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.

3.4 Full hydraulic load sensing steering system, the rear steering axle has small turning radius, and the steering is light and dexterous.

04 Chassis System

4.1 The long wheelbase, box-shaped double-beam frame can provide good rigidity and strength to ensure the high reliability of the forklift chassis.

4.2 The main structure is subjected to Finite Element Analysis (FEA) (fatigue and strength analysis) to ensure that there is still enough safety margin under severe working conditions; the workmanship is exquisite and firm. Effectively cooperate with axles and transmission to ensure the lateral and longitudinal stability and energy saving of the entire vehicle operation process.

05 Power System

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

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

06 Cooling System

6.1 Engine large-capacity radiator with sufficient heat dissipation capacity.

6.2 Transmission oil and hydraulic oil radiators are equipped independently, to improve system stability.



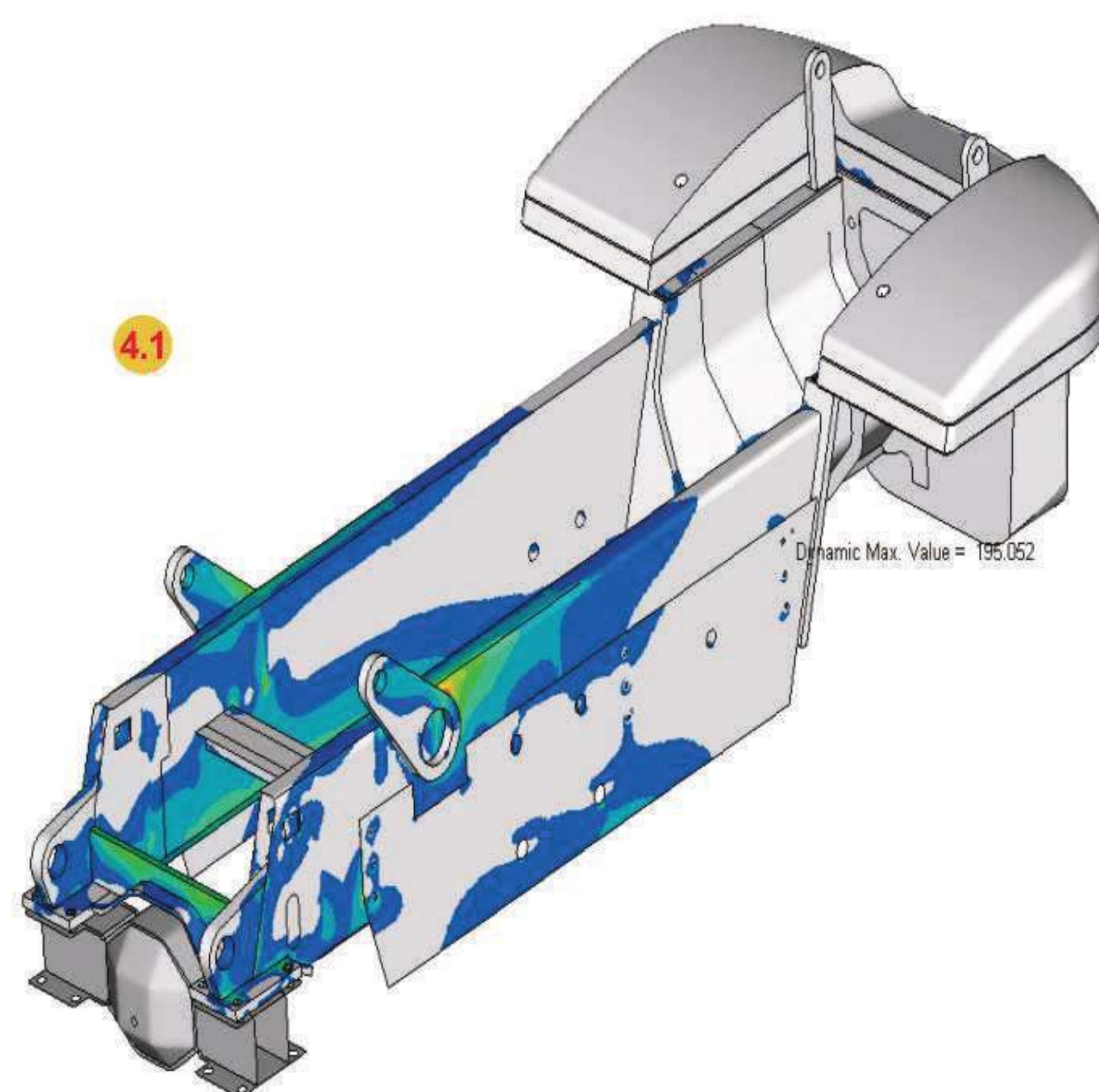
3.3



5.1



6.1



4.1

07 Lifting Components

7.1 Reinforced design of special mine carriage and mast; through Finite Element Analysis (FEA), it has the ability to resist and high-intensity operations.

7.2 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.

7.3 Optional with duplex and triplex free lifting mast. Standard with hydraulic heavy-duty side shift fork positioner.

7.4 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.



7.2

08 Cab

8.1 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.

8.2 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.

8.3 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.

8.4 Optional tilting cab (12-18 tons) for easy access to the interior of the vehicle for maintenance.

8.5 All series forklifts are equipped with a reversing display screen; weight counter can be installed based on customer requirements.

8.6 It adopts domestic high-quality electrical components, maintenance-free storage battery, and the wire adopts anti-flame retardant materials, which is reliable and durable.



8.1

09 Braking System

9.1 Choose 4 sets of heavy-duty caliper disc brakes: thickened brake discs, fast heat dissipation, good high temperature resistance under high load, stable braking effect; simple structure and convenient adjustment

9.2 Rear air storage tank, 18 times brake air pressure booster ratio, light brake weight.

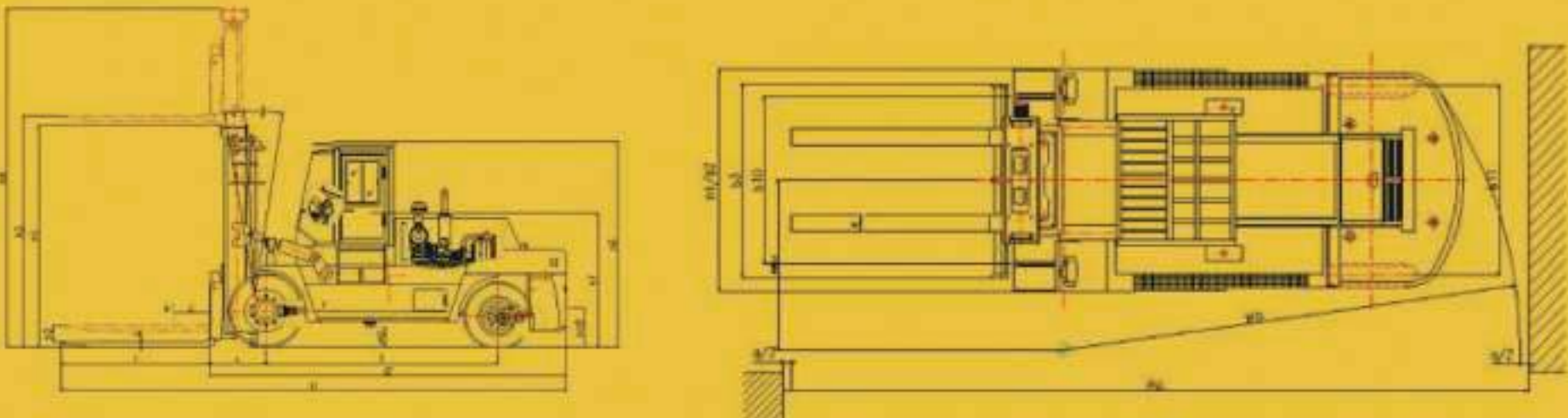


8.6



HNF 12-16TON

Technical data



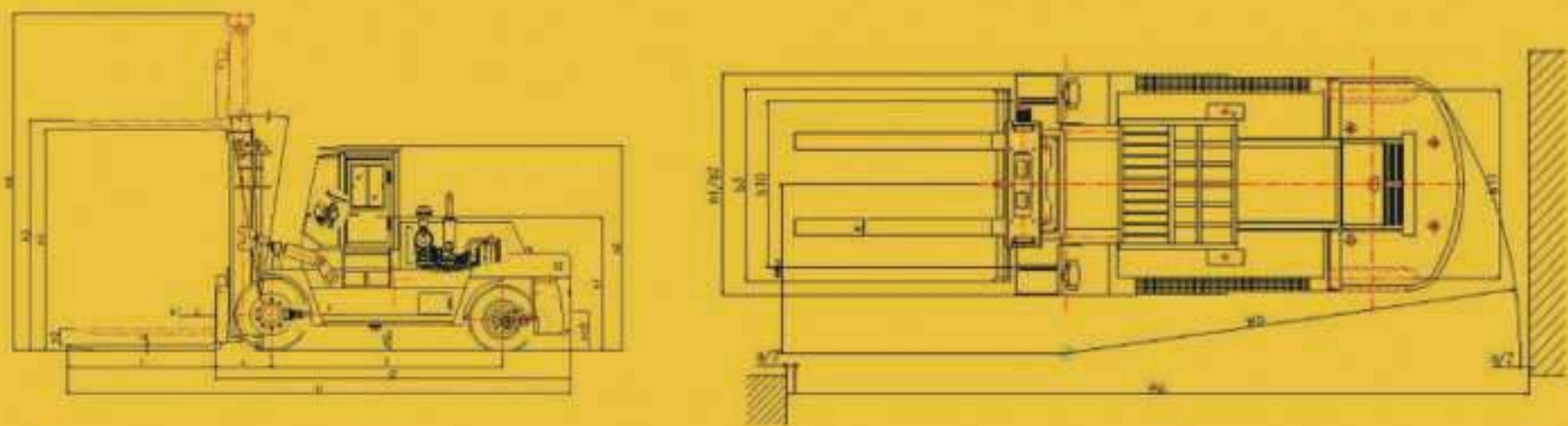
Item	Configuration	Unit	Design details			
			HNF-120	HNF-135	HNF-150S	HNF-160S
Features	Rated Load-Q	t	12	13.5	15	16
	Load center-c	mm	600	600	600	600
	Wheelbase-y	mm	3000	3000	3300	3300
Weight	Weight	kg	18000	19000	19500	19800
Chassis	Tyre Specs.:Front		10.00-20-16PR	11.00-20-18PR	12.00-20-16PR	12.00-20-18PR
	Tyre Specs.:Rear		10.00-20-16PR	11.00-20-18PR	11.00-20-16PR	11.00-20-18PR
	Tyres Qty,front/rear (X-drive wheels)		4\2	4\2	4\2	4\2
	Wheel tread:Front -b10	mm	1650	1677	1740	1740
	Wheel tread:Rear -b11	mm	1970	2013	2013	2013
Dimension	Mast/carriage tilt angle(front/rear)	Degree (°)	6\12	6\12	6\12	6\12
	Mast height (fork lowering)-h1	mm	3100	3100	3140	3140
	Mast lifting height-h3	mm	3000	3000	3000	3000
	Free Lift Height					
	Max.lifting height -h4	mm	4600	4600	4640	4640
	Height to head guard (height to cab)-h6	mm	3000	3000	3040	3040
	Overall height (with forks)-l1	mm	6055	6055	6355	6355
	Fork front vertical surface to the rear end of the vehicle-l2	mm	4855	4855	5155	5155
	Overall width -b1/b2	mm	2250	2250	2400	2400
	Fork dimension-s/e	mm	1200 X180 X90	1200 X180 X90	1200 X180 X90	1200* 180* 90

Item	Configuration	Unit	Design details			
			HNF-120	HNF-135	HNF-150	HNF-160
Dimension	Fork carriage width -b3	mm	2200	2200	2200	2200
	Mast min ground clearance(with load) m1	mm	225	225	225	225
	Wheelbase center min ground clearance (with load)-m2	mm	350	350	350	350
	Min.Turning radius Wa	mm	4450	4450	4750	4750
	Travel speed(with load/without load)	km/h	23/26	23/26	23/26	23/26
Performance	Max.lifting speed(with load/without load)	mm/s	220/270	220/270	205/255	205/255
	Max.Lowering speed (with load/without load)	mm/s	450/300	450/300	435/285	435/285
	Traction	kN	90	90	90	90
	Gradeability (with load /without load)	%	20/22	20/22	20/22	20/22
	Driving brake		Hydraulic clamp disc	Hydraulic clamp disc	Hydraulic clamp disc	Hydraulic clamp disc
Engine	Engine brand /model	Optional one	Yuchai engine	Yuchai engine	Yuchai engine	Yuchai engine
			"YC6J150-T3016.494L 110KW 2200rpm"	"YC6J150-T3016.494L 110KW 2200rpm"	"YC6J150-T3016.494L 110KW 2200rpm"	YC6J150-T3016.494L 110KW 2200r/min
		Optional two	Dongfeng Cummins	Dongfeng Cummins	Dongfeng Cummins	Dongfeng Cummins
			"QSB4.5-C1304.5L 97KW 2200rpm"	"QSB4.5-C1304.5L 97KW 2200rpm"	"QSB4.5-C1304.5L 97KW 2200rpm"	QSB4.5-C1304.5L 97KW 2200r/min
		Cylinder No.	6\4	6\4	6\4	6\4
Others	Transmission gears(Front/rear)		2\2	2\2	2\2	2\2
	Attachments working pressure	Mpa	16	16	16	16
	Attachments using oil amount	l/min	40	40	40	40

15-18TON➤
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HNF 15-18TON
Technical data



Item	Configuration	Unit	Design details		
			HNF-150	HNF-160	HNF-180
Features	Rated Load-Q	t	15	16	18
	Load center-c	mm	900	900	900
	Wheelbase-y	mm	3800	3800	3800
Weight	Weight	kg	24000	25000	25500
Chassis	Tyre Specs.:Front		12.00-24-18PR	12.00-24-18PR	12.00-24-18PR
	Tyre Specs.:Rear		12.00-20-18PR	12.00-20-18PR	12.00-20-18PR
	Tyres Qty,front/rear (X-drive wheels)		4\2	4\2	4\2
	Wheel tread: Front-b10	mm	2060	2060	2060
	Wheel tread: Rear-b11	mm	2330	2330	2330
Dimension	Mast/carriage tilt angle(front/rear)	Degree (°)	6\12	6\12	6\12
	Mast height (fork lowering)-h1	mm	3625	3625	3675
	Mast lifting height-h3	mm	3500	3500	3500
	Free Lift Height				
	Max.lifting height -h4	mm	5375	5375	5375
	Height to head guard (height to cab)-h6	mm	3365	3365	3365
	Overall height (with forks)-l1	mm	7640	7640	7640
	Fork front vertical surface to the rear end of the vehicle-l2	mm	5840	5840	5840
	Overall width-b1/b2	mm	2750	2750	2750
	Fork dimension-s/e	mm	1800X220X100	1800X220X100	1800X220X100

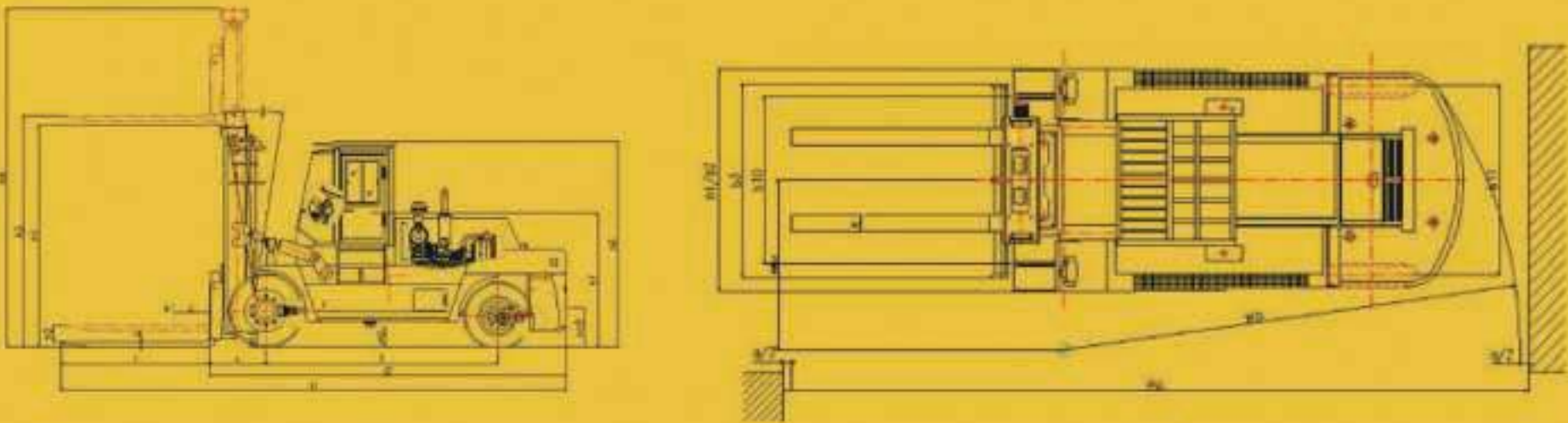
Item	Configuration	Unit	Design details		
			HNF-150	HNF-160	HNF-180
Dimension	Fork carriage width-b3	mm	2700	2700	2700
	Mast min ground clearance (with load)-m1	mm	265	265	265
	Wheelbase center min ground clearance (with load)-m2	mm	325	325	325
	Min.Turning radius-Wq	mm	5800	5800	5800
	Travel speed(with load/without load)	km/h	26/30	26/30	26/30
Performance	Max.lifting speed (with load/without load)	mm/s	250/260	250/260	250/260
	Max.Lowering speed (with load/without load)	mm/s	430/330	430/330	430/330
	Traction	kN	150	150	150
	Gradeability (with load /without load)	%	20/22	20/21	20/21
	Driving brake		Hydraulic clamp disc	Hydraulic clamp disc	Hydraulic clamp disc
Engine	Engine brand /model	Optional one	Yuchai engine	Yuchai engine	Yuchai engine
			"YC6J175-T3026.494L 129KW 2200rpm"	"YC6J175-T3026.494L 129KW 2200rpm"	"YC6J175-T3026.494L 129KW 2200rpm"
	Optional two	Dongfeng Cummins	Dongfeng Cummins	Dongfeng Cummins	Dongfeng Cummins
			"QSB6.7-C1906.7L 142KW 2200rpm"	"QSB6.7-C1906.7L 142KW 2200rpm"	"QSB6.7-C1906.7L 142KW 2200rpm"
	Cylinder No.	6	6	6	6
Others	Transmission gears (Front/rear)		2\1	2\1	2\1
	Attachments working pressure	Mpa	16	16	16
	Attachments using oil amount	l/min	60	60	60

20-25TON➤

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HNF 20-25TON
Technical data



Item	Configuration	Unit	Design details		
			HNF-200	HNF-220	HNF-250
Features	Rated Load-Q	t	20	22	25
	Load center-c	mm	1250	1250	1250
	Wheelbase-y	mm	4000	4000	4400
Weight	Weight	kg	32500	33500	35000
Chassis	Tyre Specs.:Front		14.00-24-28PR	14.00-24-28PR	14.00-24-28PR
	Tyre Specs.:Rear		14.00-24-28PR	14.00-24-28PR	14.00-24-28PR
	Tyres Qty,front/rear (X-drive wheels)		4\2	4\2	4\2
	Wheel tread: Front-b10	mm	2200	2200	2200
	Wheel tread: Rear-b11	mm	2390	2390	2390
Dimension	Mast/carriage tilt angle(front/rear)	Degree (°)	6\12	6\12	6\12
	Mast height (fork lowering)-h1	mm	3860	3860	3860
	Mast lifting height-h3	mm	3500	3500	3500
	Free Lift Height				
	Max.lifting height-h4	mm	5610	5610	5610
	Height to head guard (height to cab)-h6	mm	3510	3510	3510
	Overall height (with forks)-l1	mm	8340	8340	9190
	Fork front vertical surface to the rear end of the vehiclel2	mm	6345	6345	6745
	Overall width-b1/b2	mm	3050	3050	3050
	Fork dimension-s/e	mm	2000 X260 X100	2000 X260 X100	

Item	Configuration	Unit	Design details		
			HNF-200	HNF-220	HNF-250
Dimension	Fork carriage width-b3	mm	3050	3050	3050
	Mast min ground clearance(with load) -m1	mm	300	300	300
	Wheelbase center min ground clearance (with load)-m2	mm	420	420	420
	Min.Turning radius -Wa	mm	6250	6250	6700
	Travel speed (with load/without load)	km/h	26/30	26/30	25/29
Performance	Max.lifting speed (with load/without load)	mm/s	260/270	260/270	260/270
	Max.Lowering speed (with load/without load)	mm/s	310/260	310/260	315/260
	Traction	kN	170	170	170
	Gradeability (with load /without load)	%	20/22	20/22	20/21
	Driving brake		Hydraulic clamp disc	Hydraulic clamp disc	Hydraulic clamp disc
Engine	Engine brand /model	Optional one	Weichai engine	Weichai engine	Weichai engine
			"WP10G220E" 3439.726L 162KW 2000rpm"	"WP10G220E" 3439.726L 162KW 2000rpm"	"WP10G220E" 3439.726L 162KW 2000rpm"
		Optional two	Dongfeng Cummins	Dongfeng Cummins	Dongfeng Cummins
			"QSC8.3 -C2158.3L 160KW 2200rpm"	"QSC8.3 -C2158.3L 160KW 2200rpm"	"QSC8.3 -C2408.3L 179KW 2200rpm"
		Cylinder No.	6	6	6
Others	Transmission gears(Front/rear)		2\1	2\1	2\1
	Attachments working pressure	Mpa	18	18	18
	Attachments using oil amount	l/min	80	80	80

28-32TON➤

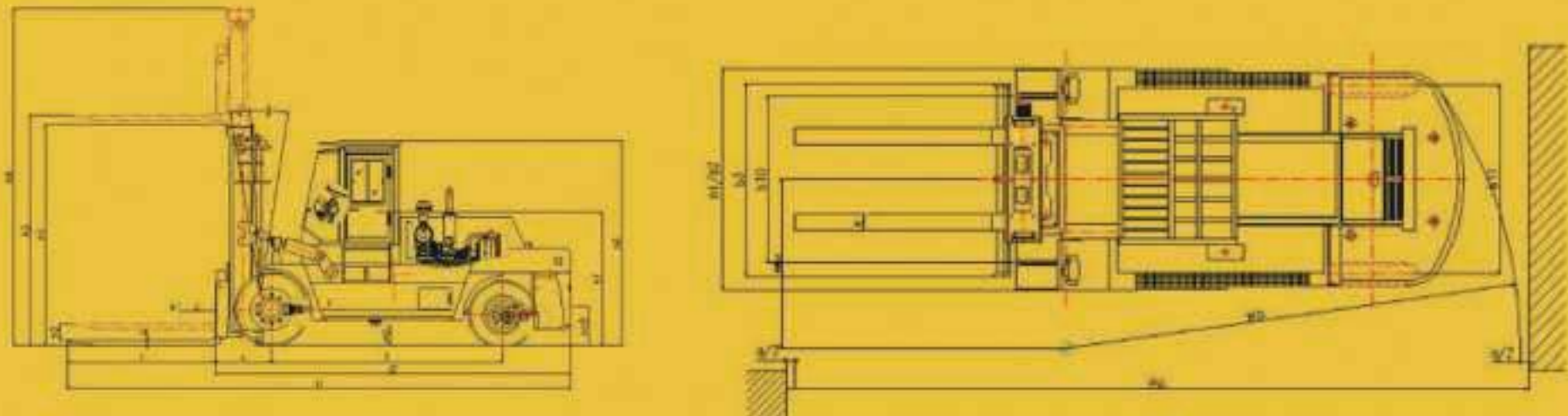
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HNF 28-32TON

Technical data



Item	Configuration	Unit	Design details			
			HNF-280	HNF-300	HNF-300H	HNF-320
Features	Rated Load-Q	t	28	30	30	32
	Load center-c	mm	1250	1250	1250	1250
	Wheelbase-y	mm	4800	4800	4800	4800
Weight	Weight	kg	39000	40000	45000	41000
Chassis	Tyre Specs.:Front		14.00-24-32PR	14.00-24-32PR	16.00-25-32PR	14.00-24-32PR
	Tyre Specs.:Rear		14.00-24-32PR	14.00-24-32PR	16.00-25-32PR	14.00-24-32PR
	Tyres Qty,front/rear (X-drive wheels)		4\2	4\2	4\2	4\2
	Wheel tread: Front-b10	mm	2420	2420	2800	2420
	Wheel tread: Rear-b11	mm	2390	2390	2450	2390
	Mast/carriage tilt angle(front/rear)	Degree (°)	6\12	6\12	3\4	6\12
Dimension	Mast height (fork lowering)h1	mm	3950	3950	6460	3950
	Mast lifting height -h3	mm	3500	3500	8100	3500
	Free Lift Height					
	Max.lifting height -h4	mm	5700	5700	10520	5700
	Height to head guard (height to cab)-h6	mm	3800	3800	4750	3800
	Overall height (with forks)-l1	mm	9590	9590	9590	9590
	Fork front vertical surface to the rear end of the vehicle-l2	mm	7150	7150	7500	7150
	Overall width-b1/b2	mm	3200	3200	3800	3200
	Fork dimension-s/e	mm	2440X320X110	2440X320X110	2440X320X110	2440X320X110

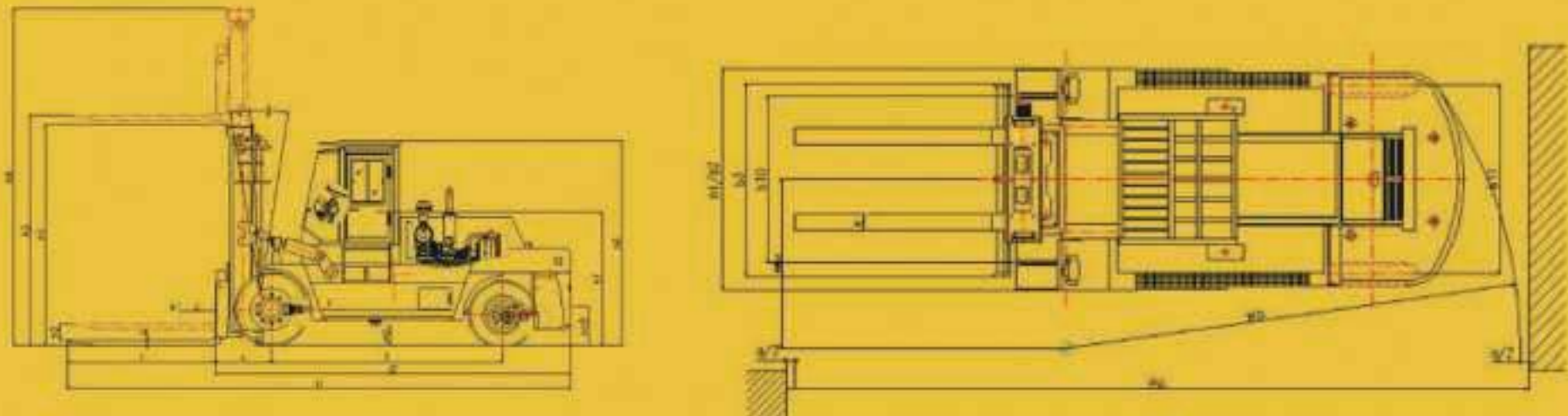
Item	Configuration	Unit	Design details			
			HNF-280	HNF-300	HNF-300H	HNF-320
Dimension	Fork carriage width-b3	mm	3100	3100	3100	3100
	Mast min ground clearance (with load)-m1	mm	350	350	400	350
	Wheelbase center min ground clearance (with load)-m2	mm	410	410	460	410
	Min.Turning radius -Wa	mm	7260	7260	7260	7260
	Travel speed(with load/without load)	km/h	24/28	24/28	25/28	24/28
Performance	Max.lifting speed(with load/without load)	mm/s	260/280	260/280	260/280	260/280
	Max.Lowering speed (with load/without load)	mm/s	250/180	250/180	250/180	250/180
	Traction	kN	220	220	220	220
	Gradeability (with load /without load)	%	20/21	20/21	20/20	20/21
	Driving brake		Hydraulic clamp disc	Hydraulic clamp disc	Hydraulic clamp disc	Hydraulic clamp disc
	Engine brand /model	Optional one	Weichai engine	Weichai engine	Weichai engine	Weichai engine
		"W010G240E 3419.726L 178KW 2200rpm"	"W010G240E 3419.726L 178KW 2200rpm"	"W010G240E 3419.726L 178KW 2200rpm"	"W010G240E 3419.726L 178KW 2200rpm"	
		Optional two	Dongfeng Cummins	Dongfeng Cummins	Dongfeng Cummins	Dongfeng Cummins
		"QSC8.3 -C2608.3L 194KW 2200rpm"	"QSC8.3 -C2608.3L 194KW 2200rpm"	"QSC8.3 -C2608.3L 194KW 2200rpm"	"QSC8.3 -C2608.3L 194KW 2200rpm"	
		Cylinder No.	6	6	6	6
Others	Transmission gears(Front/rear)		2\1	2\1	2\1	2\1
	Attachments working pressure	Mpa	18	18	18	18
	Attachments using oil amount	l/min	80	80	80	80

35-50TON➤

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HNF 35-50TON
Technical data



Item	Configuration	Unit	Design details				
			HNF-350	HNF-360	HNF-400	HNF-450	HNF-500
Features	Rated Load -Q	t	35	36	40	45	50
	Load center -c	mm	1250	1250	1200	1200	1200
	Wheelbase-y	mm	4800	4800	5000	5500	6000
Weight	Weight	kg	43000	43500	51000	53000	60000
Chassis	Tyre Specs.: Front		16.00-25-32PR	16.00-25-32PR	18.00-25-40PR	18.00-25-40PR	18.00-25-40PR
	Tyre Specs.: Rear		16.00-25-32PR	16.00-25-32PR	18.00-25-40PR	18.00-25-40PR	18.00-25-40PR
	Tyres Qty./front/rear (X-drive wheels)		4\2	4\2	4\2	4\2	4\2
	Wheel tread: Front-b10	mm	2400	2400	3030	3030	3030
	Wheel tread: Rear	b11 (mm)	2450	2450	2786	2786	2786
Dimension	Mast/carriage tilt angle(front/rear)	Degree (°)	6\12	6\12	5\10	5\10	5\10
	Mast height (fork lowering)-h1	mm	4010	4010	4625	4625	5050
	Mast lifting height-h3	mm	3500	3500	4000	4000	4000
	Free Lift Height						
	Max.lifting height-h4	mm	5760	6760	6560	6560	6975
	Height to head guard(height to cab)-h6	mm	3860	3860	3900	3900	3900
	Overall height (with forks)-l1	mm	9700	9700	10100	10600	11200
	Fork front vertical surface to the rear end of the vehicle-l2	mm	7150	7150	8000	8500	9000
	Overall width -b1/b2	mm	3320	3320	4160	4160	4160
	Fork dimension s/e	mm	2440 X340 X125	2440 X340 X125	2400 X300 X135	2400 X300 X135	2400 X300 X150

Item	Configuration	Unit	Design details				
			HNF-350	HNF-360	HNF-400	HNF-450	HNF-500
Dimension	Fork carriage width-b3	mm	3100	3100	3400	3400	3400
	Mast min ground clearance (with load)-m1	mm	400	400	300	300	300
	Wheelbase center min ground clearance (with load)m2	mm	460	460	460	460	460
	Min.Turning radius -Wq	mm	7260	7260	8000	8000	8500
Performance	Travel speed (with load/ without load)	km/h	25/28	25/28	22/25	22/25	22/24
	Max.lifting speed (with load /without load)	mm/s	260/280	260/280	200/250	200/250	150/200
	Max.Lowering speed(with load /without load)	mm/s	250/180	250/180	430/330	430/330	400/300
	Traction	kN	220	220	250	250	250
	Gradeability (with load /without load)	%	20/20	20/20	25	25	25
	Driving brake		Hydraulic clamp disc	Oil-cooled multiple wet disc"	Oil-cooled multiple wet disc"	"Oil-cooled multiple wet disc"	"Oil-cooled multiple wet disc"
	Engine brand /model	Optional one	Weichai engine	Weichai engine	Weichai engine	Weichai engine	Weichai engine
			"WO10G240E 3419.726L 178KW 2200rpm"	WP12G340 (250kW国III)	WP12G340 (250kW国III)	WP12G340 (250kW国III)	WP12G340 (250kW国III)
		Optional two	Dongfeng Cummins	Xi'an Cummins	Xi'an Cummins	Xi'an Cummins	Xi'an Cummins
			"QSC8.3-C 2608.3L 194KW 2200rpm"	QSM11 250kW	QSM11 250kW	QSM11 250kW	QSM11 250kW
	Others	Cylinder No.	6	6	6	6	6
		Transmission gears (Front/rear)	2\1	2/1	"Torque convertor"	"Torque convertor"	"Torque convertor"
		Attachments working pressure	Mpa	18			
		Attachments using oil amount	l/min	80			