



Zhejiang Maximal Imp& Emp Co.Ltd

Address: Room 1408, East Building, Zancheng Center, No.9 Feiyunjiang Road, Shangcheng District, Hangzhou,-China

Tel:0086-571-28815951 0086-571-28001566 0086-571-28979901

info@max-mhe.com (For sales) parts@max-mhe.com (For spare pars)

Website: www.max-mhe.com

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Heavy Duty Forklift







Maximal introduces heavy capacity forklifts

Maximal heavy duty forklift trucks, available in 16.0 capacity ratings, are designed to handle heavy loads in the toughest environments. From the robust wide view mast to the world class components including CUMMINS engines, KESSLER drive axle, ZF transmission and related accessories these trucks are designed to meet and exceed your application requirements.

These trucks are designed with modern ergonomics that allow the operator to be more productive in demanding conditions. Operator comfort was a key issue in the design of the all weather spacious cab including fully adjustable safety seat, tilt steering column and the 360 degree view through the panoramic windows.

Maximal engineers have developed a proven design to tackle the most demanding customer applications.

Intelligent by Design

The incorporation of a CAN-Bus system allows for a seamless connection of the vehicle Control Module (VMC) and Engine Control Module (ECM). This allows immediate exchange and accessibility to all data. Additional benefits include a significant reduction in wiring as well as increased functionality over conventional systems. The CAN-Bus system also delivers excellent reliability and full diagnosis capabilities, simplifying the servicing of the truck.

Improved Fuel Economy

Minimize Tier 3 requirements

Program to Lower Rated Speeds to offset fuel consumption Alternate Governor and Torque settings

Maintain fuel economy with HPCR ECM system compared to mechanical system









World Class Efficient ZF Transmission

ZF transmission from Germany in Maximal compact16.0-32t /35,200- 70,000 LB capacity heavy duty forklift trucks ZF transmissions offer these features:

- Fully reversible power shift control
- 3 forward and 3 reverse speeds
- Positive speed engagement
- Reduction of operating costs
- Lower operating noise
- Customer orientated serviceability
- Applicable for electronic driveline management and inching

Lower Maintenance Drive Axle & Brakes

German KESSLER drive Axle provides excellent lateral stability and long-term durability. Full floating axle shafts and hub planetary final drives reduce axle windup to deliver higher torque to the drive wheels allowing greater tractive effort and performance.

Multi-plate wet disc braking system supplied by American MICO Corp. offers more effective and reliable braking.







Superior visibility

The Cab also contributes to providing the driver with panoramic 360 Degree visibility, featuring:

- Large curved front window, fitted with tinted safety glass provides better visibility.
- Curved rear window with one-piece glass.
- Minimum use of steel parts, providing the maximum possible glazed area.
- Wide-view rear view mirrors are mounted inside the cab stay cleaner and are protected from damage.
- The dash and display panel is mounted to the right hand side of the driver, so visibility through the windshield is unobstructed.
- Excellent rearwards visibility is enhanced with the sloping design of the hood and counterweight.
- A clear view to the front load and surrounding area is optimized through the Maximal wide view mast.

Maintenance Intervals Doubled and Efficient Diagnostic program

- Cummins Tier 3 Scheduled Maintenance 500 hours/6 month intervals for charge air cooled; same schedule for coolant changes; Dual Stage fuel filtration to improve particle separation, filter life and protect vital fuel system components.
- Equipped as standard with either a manual or power hydraulic tilting cab, to ensure easy access to major components for inspection and service.
- Low side steps and large grab handles, providing operators safe and easy access to the operators cab.
 Technicians can use side steps for daily inspections and maintenance.
- Uniform placement of electrical and hydraulic tubing and hoses
- Centralized diagnostics in the operator cab
- "CAN bus" receptacle in the operator cab, for engine, transmission, hydraulics and instruments monitor panel.
- LCD display with diagnostics for engine, transmission and electrical systems to quickly identify service needs.
- Standard oil-immersed (wet) multi-plate disk brakes are virtually maintenance free.

Power & Performance

Maximal compact 16.0-32t / 35,200-70,000 LB capacity fork—lift range is available with Cummins Diesel engine meeting a world standard Tier 3 emissions legislation: compact 16t / 35,200 LB capacity forklift Cummins QSB6.7 diesel engine features: 6-cylinder in-line, 6.7 liter displace

Charger air cooling w/waste gate controlled turbocharger. Max. 129kw(173Hp) output at 2200rpm, offering extra durability for long periods of peak performance. Smooth torque of 800 Nm at 1400rpm provides excellent acceleration for maximum power.

16-20t / 35,200-44,000 LB capacity forklift Cummins QSB 6.7 diesel engine features:6-cylinder in-line, 6.7 liter displacement Charge-air cooling w/waste gate controlled turbocharger.

Max 142 kW(192 Hp) output at 2300 rpm,offering extra durability for long periods of peak performance. Smooth torque of 930 Nm at 1500 rpm provides excellent acceleration for maximum power.

25-32t / 55,000-70,000 LB capacity forklift Cummins QSC 8.3 diesel engine features:6-cylinder in-line , 8.3 liter displacement Charge-air cooling w/ waste gate controlled turbocharger.

Max 176 kW (238 Hp) output at 2300 rpm,offering extra durability for long periods of peak performance.Smooth torque of 1085 Nm at 1500 rpm provides excellent acceleration for maximum power.

Green & Clean

Euro III / EPA: Diesel engines that incorporate Japanese and American advanced engine technologies feature excellent environmental performance and conform to the world latest EPA Tier3 and EU Stage IIIA emission regulations.

Optional Equipment

- Specific masts 3M/118" MFH to 6M/240" MFH Simplex mast
 Side shift/Fork position carriages with shaft type forks
- Solid / Pneumatic size tires
- Air conditioning
- Rear camera surveillance system
- Special RAL colors
- Various attachments
- >Contact your MAXIMAL dealer in your area for additional details.



Heavy duty forklift 16.0~32ton

Engine protection system, sensing low oil pressure and high coolant temperature monitors the engine performance and shuts down the engine prior to a possible failure. An override function for emergency situations is a standard feature.

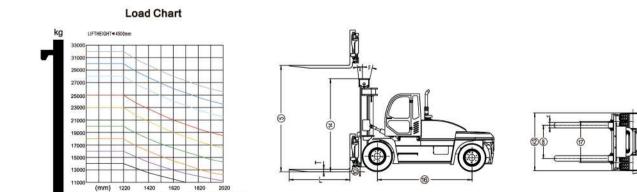
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CUMMINS QSB 6.7 / CUMMINS QSC 8.3

Heavy duty forklift 16.0~32ton
05/06

1		Mod	el		FD160T-MWK3-2	FD180T-MWK3-2	FD250T-MWM3	FD280T-MWT3	FD300T-MWT3	FD320T-MWT3
2		Power Type			Diesel	Diesel	Diesel	Diesel	Diesel	Diesel
3		Rated Ca	10.000	kg	16000	18000	25000	28000	30000	32000
4		Load Ce		mm	1220	1220	1220	1220	1220	1220
5		Lift Height			4000	4000	4000	4000	4000	4000
6	Mast tilt	Mast tilt angle F/R		Deg	6°/12°	6°/12°	6°/12°	6°/12°	6°/12°	6°/12°
7			L×W×T	mm	2440×250×105	2440×250×110	2440×300×110	2440×300×110	2440×320×110	2440×320×110
8	Fork	,	Regulating range	mm	910-2240	910-2240	1040-2660	1500-3120	1500-3120	1500-3120
9	01.4004		Max.side shifter	mm	660(±330)	660(±330)	810(±405)	810(±405)	810(±405)	810(±405)
10	Fr	ont overhang (Wheel o	center to fork face)	mm	1060	1060	1200	1260	1260	1260
11		Rear Overha	ng	mm	1000	1000	1100	1260	1260	1260
12		Ground clearance (B	Sottom of mast)	mm	220	220	300	300	300	300
13			Overall length(include forks)	mm	8300	8300	9240	9740	9740	9740
14	1	1	Overall width	mm	2535	2535	3020	3420	3420	3420
15	Overall dim	ensions	Driver's cab	mm	3280	3280	3580	3800	3800	3800
16	1		Overall height Mast		3915	3915	4255	4390	4390	4390
17		Min.turning rad	lius(outside)	mm	5300	5300	6100	6800	6800	6800
18	12	Front			12.00-24-20PR	12.00-24-20PR	14.00-24-28PR	16.00-25-32PR	16.00-25-32PR	16.00-25-36PR
19	Tyre	s	Rear		12.00-20-20PR	12.00-20-20PR	14.00-24-28PR	16.00-25-32PR	16.00-25-32PR	16.00-25-36PR
20	Tread		Front	mm	1850	1850	2200	2490	2490	2490
21			Rear		2120	2120	2300	2470	2470	2470
22		Wheelbas	se	mm	3800	3800	4500	4800	4800	4800
23			Travel(Unladen)	km/h	30	30	28	26	26	26
24	Spee	ed Lifting(Laden)		mm/s	320	320	300	270	270	260
25	1		Lowering (Laden)	mm/s	380	380	330	310	310	310
26		Max. Drawbar	pull(Laden)	KN	125	125	160	250	250	250
27		Max. Gradeab	ility(Laden)	%	25	25	25	20	20	20
28		Selfwe	eight	kg	25800	26300	36400	41500	42000	42800
29		Laden R	Front Axle	kg	38400	41600	56940	63700	66750	70300
30	Majabi Biatabutia		Rear Axle	kg	3400	2700	4460	5300	5750	5700
31	Weight Distribution		Front Axle	kg	12800	12800	18500	21000	21000	21500
32	1	Unladen	Rear Axle	kg	13000	13500	17900	20000	21500	22500
33	Batte	ry	Voltage/Capacity	V/Ah	***************************************	2×12/120	2×12/120		2×12/120	
34		· · · · · · · · · · · · · · · · · · ·	Model			QSB6.7-C190	QSC8.3-C240		QSC8.3-C260	
35	1 [Manufacturer			Cummins	Cummins		Cummins	
36	1 [Rated output/r.p.m.		kw	142/2300		176/2200	194/2200		
37	Engine		Rated torque/r.p.m.	N·m		930/1500	1085/1500		1180/1500	
38			No.of cylinder			6	6	6		
39] [Bore x Stroke	mm	107×124		117×135		117×135	
40] [Displacement L Fuel tank capacity L		L	6.7		8.3	8.3		
41				L	150		250	250		
42		Manufacturer			ZF		ZF	ZF		
43	Transmission		Туре		3WG171		3WG211	3WG211		
44		Stage	F/R		3/3		3/3	3/3		
45			manufacturer			Chinese Huachen	KESSLER		KESSLER	
46	Drive axle		service brake			Wet Multi-disk Brake	Vet Multi-disk Brake	Wet Multi-disk Brake		
47			parking brake		Caliper disc brake		Caliper disc brake	Caliper disc brake		
48		Operating pressure (For	attachments)	Mpa		19	21		21	

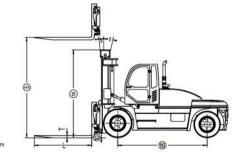


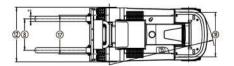


M series Compact 16t diesel forklift

1	Mo	odel		FD160T-MXWS3-2		
2	94800	r Type		Diesel		
3	Rated Capacity			16000		
4	Load Centre			600		
5	Lift Height			4000		
6	Mast tilt angle	Front/rear	Deg	6°/12°		
7	Fork Dimension		1	1500×200×90		
8	Fork Regula			840-2150		
9	Contraction of the Asset	ifter Range	mm	630(±315)		
		ice (Bottom of mast)	mm	250		
11	AND A TAKE A TILL PARTY OF A	include forks)	mm	6850		
12		ll width	mm	2430		
13		Driver's cabin	mm	3190		
14	Overall height	Mast	mm	3870		
15	Min.turni	ng radius	mm	5100		
16	and chooses.	lbase	mm	3500		
17	Front	Tread	mm	1743		
18	Rear	Tread	mm	2050		
19	Front	Tyre		12.00-20-20PR		
20		Tyre		12.00-20-20PR		
21		Travel(Unladen)	km/h	26		
22	Speed	Lifting(Laden)	mm/sec	350		
23		Lowering (Laden)	mm/sec	380		
24	Max. Draw	bar pull(Laden)	KN	100		
25	Max. Grad	eability(Laden)	%	22		
26	Sel	fweight	kg	21500		
27		Model		QSB6.7-C173		
28		Manufacturer		Cummins		
29		Rated output/r.p.m.	kw	129/2200		
30	Facino	Rated torque/r.p.m.	N·m	799/1400		
31	Engine	No.of cylinder Bore x Stroke		6		
32				107×124		
33		Displacement	L	6.7		
34	Fuel tank capacity		L	140		
35	Manufacturer			ZF		
36	Transmission	Model		3WG171		
37		Stage Front/rear		3/3		
38	38 Battery Voltage/Capacity			2x12/120		
39	Operating pressure	ng pressure(For attachments) Mpa 19				

Load Chart 15000 15000 14000 13000 12000 11000 9000 8000





M series Compact 16t mast

Model		Ove				Capacity (Kg)				
	Max.Fork	Height	(mm)	Tilt angle	load center at 600mm	load center	at 1220mm		Self Weight (Kg	1)
Model	Height (mm)	FD160TX	FD160T/ FD180T	(F/R)	FD160TX	FD160T	FD180T	FD160TX	FD160T	FD180T
M350	3500	3620	3665	6°/12°	16000	16000	18000	21365	25680	26180
M400	4000	3870	3915	6°/12°	16000	16000	18000	21500	25800	26300
M450	4500	4120	4165	6°/12°	16000	16000	18000	21635	26210	26710
M500	5000	4420	4465	6°/6°	15000	15000	16500	21955	26330	26830
M550	5500	4670	4715	3°/6°	14000	14000	15000	22050	26450	26950
M600	6000	4970	5015	3°/6°	13000	13000	14000	22175	26570	27070

FD250-320T Mast

Model	Max.Fork Height (mm)	Overall Height (mm)		Tilt	Capacity (Kg) load capacity at 1220mm				Self Weight (Kg)			
		FD250T	FD280T/ FD300T/ FD320T	angle (F/R)	FD250T	FD280T	FD300T	FD320T	FD250T	FD280T	FD300T	FD320T
M350	3500	4005	4140	6°/12°	25000	28000	30000	32000	36215	40800	42300	43800
M400	4000	4255	4390	6°/12°	25000	28000	30000	32000	36400	41000	42500	44000
M450	4500	4505	4640	6°/12°	25000	28000	30000	32000	36900	41600	43100	44600
M500	5000	4805	4940	6°/6°	23000	26500	28500	30500	37090	41850	43350	44850
M550	5500	5055	5190	6°/6°	21500	25500	27500	29500	37280	42065	43565	45065
M600	6000	5355	5490	3°/6°	20000	24000	26000	28000	37470	42300	43800	45300



Heavy duty forklift 16.0~32ton

07/08





2005 Dec	Zhejiang Maximal Forklift Co., Ltd was officially established.
2006 Oct	M series forklifts displayed at the 100th Canton fair.
2007 Nov	Maximal phase I project of the new factory finished.
2008 Jan Nov	Structure of electric forklift was further optimized. Maximal was appointed by the General Logistics Department of the People's Liberation Army(PLA) to be supplier for Military Equipment.
2009 Mar May	4.0T&5.0T and 8.0-10.0T diesel forklift were launched to enrich M Series. Maximal started to prepare the R&D of 16.0-18.0T diesel forklift.
2010 Nov Dec	The first 4.5T electric forklift and 25.0T heavy duty forklift were displayed on Shanghai CeMAT. Maximal and Military Transportation University reached
2012	Maximal was honored as "state-level high-tech enterprise".
2013 May July	Maximal 2WD 2.5/3.5T Rough Terrain forklift was launched to the market. Maximal Empty Container Handler was officially developed.
2014 Jun Aug Dec	Maximal electric stackers & pallet trucks were put into market. Maximal 2WD Rough Terrain forklift were extended to 4.0/5.0T. Maximal phase II project was finished.
2015 May	Maximal 3.5T 4WD Rough Terrain forklift was successfully developed. First Reach Stacker successfully was sold in domestic market.
2016 July Oct	Maximal won the Chinese well-known trademark. 1.8-3.5T C. 4WD Hydraulic rough terrain forklift was successfully launched.
2018 July June	3.5-4.5T Sider-loader forklift was lanuched; Electric forklift with lithium battery started to be developed; 1.6-2.5T A series Reach truck was lanuched. Hyster-Yale and Maximal officially completed its acquisition, Maximal began a new start.

