



Maximal Forklift (Zhejiang) Co., Ltd

For sales

info@maxforklift.com

parts@maxforklift.com

For spare parts

Address No.1, jinxin Road, Lushan Industrial area, Fuyang, Zhejiang China Tel 0086-571-28001570

0086-571-28935028

0086-571-28979902

Fax 0086-571-28001569

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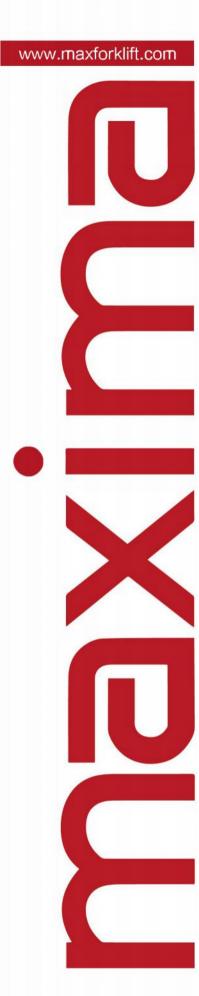
If any doubt, please contact us.







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.

03/04

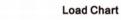


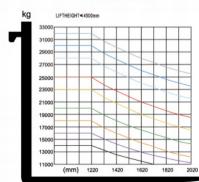
CUMMINS QSB 6.7 / CUMMINS QSC 8.3

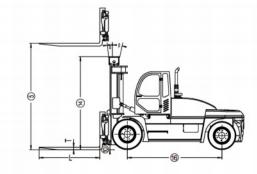
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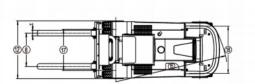
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1		Mo	del			FD160T-MWK3-2	FD180T-MWK3-2	FD250T-MWM3	FD280T-MWT3	FD300T-MWT3	FD320T-MWT3		
2		Power	Туре			Diesel	Diesel	Diesel	Diesel	Diesel	Diesel		
3		Rated C	apacity		kg	16000	18000	25000	28000	30000	32000		
4		Load (Centre		mm	1220	1220	1220	1220	1220	1220		
5		Lift H	eight		mm	4000	4000	4000	4000 4000 4		4000		
6	Mast tilt a	ngle		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			ting range	mm	910-2240	910-2240	1040-2660	1500-3120	1500-3120	1500-3120		
9		Max.side shifter		ide shifter	mm	660(±330) 660(±330)		810(±405)	810(±405) 810(±405)		810(±405)		
10	Fro	Front overhang (Wheel center to fork face)			mm	1060	1060	1200	1260	1260 1260 1			
11		Rear Overh	ang		mm	1000	1000	1100	1260	1260	1260		
12		Ground clearance (Bottom of mast)		mm	220	220	300	300	300	300		
13			Overall lengt	h(include forks)	mm	8300	8300	9240	9740	9740	9740		
14			Over	all width	mm	2535	2535	3020	3420	3420	3420		
15	Overall dime	Overall dimensions		Driver's cab	mm	3280	3280	3580	3800	3800	3800		
16			Overall height	Mast	mm	3915	3915	4255	4390	4390	4390		
17		Min.turning ra	idius(outside)		mm	5300	5300	6100	6800	6800	6800		
18	Tyres		F	ront		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	Tyres		F	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	Toront		Front		mm	1850	1850	2200	2490	2490	2490		
21	Tread		Rear		mm	2120	2120	2300	2470	2470	2470		
22		Wheelbase		mm	3800	3800	4500	4800	4800	4800			
23		Travel(Unladen)		km/h	30	30	28	26	26	26			
24			Lifting	g(Laden)	mm/s	320	320	300	270	270	260		
25			Loweri	ng (Laden)	mm/s	380	380	330	310	310	310		
26		Max. Drawbar pull(Laden)		KN	125	125	160	250	250	250			
27		Max. Gradeability(Laden)		%	25	25	25	20	20	20			
28		Selfw	veight		kg	25800	26300	36400	41500	42000	42800		
29		Front Axle		Axle	kg	38400	41600	56940	63700	66750	70300		
30	Welek Bletcher	Laden		l Re	Rear	Axle	kg	3400	2700	4460	5300	5750	5700
31	Weight Distribution -		Front	Axle	kg	12800	12800	18500	21000	21000	21500		
32		Unladen	Rear	Axle	kg	13000	13500	17900	20000	21500	22500		
33	Batter	у	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			Manufacturer				Cummins	Cummins	Cummins				
36			Rated output/r.p.m.		kw		142/2300	176/2200		194/2200			
37	Fasin		Rated torque/r.p.m.		N·m		930/1500	1085/1500		1180/1500			
38	Engine		No.of cylinder				6	6		6			
39			Bore x Stroke		mm		107×124	117×135		117×135			
40			Displacement		L		6.7	8.3		8.3			
41			Fuel tank capacity		L		150	250		250			
42			Manufacturer				ZF	ZF		ZF			
43	Transmission		Туре				3WG171	3WG211		3WG211			
44		Stage	Ī	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/E					19	21	Caliper disc brake 21				







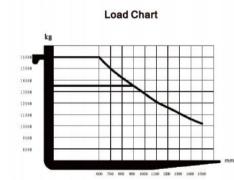


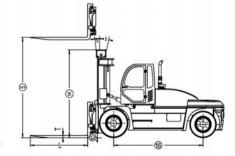




M series Compact 16t diesel forklift

2		odel		FD160T-MXWS3-2
	Powe	r Type		Diesel
3	Rated 0	Capacity	kg	16000
4		Load Centre		600
5	Lift H	leight	mm	4000
6	Mast tilt angle	Front/rear	Deg	6°/12°
7	Fork Dimensi	on (L×W×T)		1500×200×90
8	Fork Regula	ating Range		840-2150
9	Max.sidesh	nifter Range	mm	630(±315)
	Min.Ground clearar	nce (Bottom of mast)	mm	250
11	Overall length(include forks)	mm	6850
12	Overa	II width	mm	2430
13	0	Driver's cabin	mm	3190
14	Overall height	Mast	mm	3870
15	Min.turni	ing radius	mm	5100
16	Whee	elbase	mm	3500
17	Front	Front Tread		1743
18	Rear	Rear Tread		2050
19	Front Tyre			12.00-20-20PR
20	Rear	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	leability(Laden)	%	22
26	Sel	If weight	kg	21500
27		Model		QSB6.7-C173
28		Manufacturer		Cummins
29		Rated output/r.p.m.	kw	129/2200
30	Factor	Rated torque/r.p.m.	N·m	799/1400
31	Engine	No.of cylinder		6
32		Bore x Stroke	mm	107×124
33		Displacement	L	6.7
34		Fuel tank capacity	L	140
35		Manufacturer		ZF
36	Transmission	Model		3WG171
37	GW 950 W 900 W	Stage Front/rear		3/3
38	Battery Volta	ge/Capacity	V/Ah	2x12/120
39	Operating pressure	(For attachments)	Мра	19







M series Compact 16t mast

Model Heig		Ove				Capacity (Kg)				
	Max.Fork	Height	(mm)	Tilt angle	load center at 600mm	load center	at 1220mm	Self Weight (Kg)		
	(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 Heigh	Max.Fork	Overall He	ight (mm)	Tilt		Capacit load capacit	y (Kg) y at 1220mm			Self We	eight (Kg)	
	Height (mm)	FD250T	FD280T/ FD300T/ FD320T	angle (F/R)	FD250T	FD280T	FD300T	FD320T	FD250T	FD280T	FD300T	FD3201
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 Zho	ejiang Maximal Forklift Co., Ltd was officially established.
2006 Oct M	series forklifts displayed at the 100th Canton fair.
2007 Nov Ma	aximal phase I project of the new factory finished.
2008 Nov. Ma	ructure of electric forklift was further optimized. aximal was appointed by the General Logistics Department of the ople's Liberation Army(PLA) to be supplier for Military Equipment.
2009	DT&5.0T and 8.0-10.0T diesel forklift were launched to enrich M Series. aximal started to prepare the R&D of 16.0-18.0T diesel forklift.
2010	e first 4.5T electric forklift and 25.0T heavy duty forklift were displayed on Shanghai CeMAT.
2012 Ma	aximal was honored as "state-level high-tech enterprise".
2013	aximal 2WD 2.5/3.5T Rough Terrain forklift was launched to the market.
2014 Aug Ma	aximal electric stackers & pallet trucks were put into market. aximal 2WD Rough Terrain forklift were extended to 4.0/5.0T. aximal phase II project was finished.
	aximal 3.5T 4WD Rough Terrain forklift was successfully developed. st Reach Stacker successfully was sold in domestic market.
2016	aximal won the Chinese well-known trademark. 3-3.5T C. 4WD Hydraulic rough terrain forklift was successfully launched.
2018 June Hy	5-4.5T Sider-loader forklift was lanuched; Electric forklift with lithium battery arted to be developed; 1.6-2.5T A series Reach truck was lanuched. yster-Yale and Maximal offcially completed its acquisition, aximal began a new start.