

Zhejiang Maximal Forklift Co.,Ltd.

Address

No.1,Jinxin Road,Lushan Industrial area,Fuyang,Zhejiang China

Tel 0086 571 28037691 / 28935028 / 28935029 / 28001566

Fax 0086 571 28001569

Email info@maxforklift.com

For service
service@maxforklift.com

For spare parts
parts@maxforklift.com

Website www.maxforklift.com



All rights reserved.
Any doubt,please contact us.

We work for maximal

BUILT FOR ROUGH TERRAIN

Maximal Rough Terrain Forklift

2.5ton/3.5ton

4.0ton/5.0ton



We work for maximal



Highlighted features:

Maximal 2.5T to 5.0T Rough Terrain Forklift is built with an emphasis on performance, reliability and high tech design.

Compact size, with rounded body design, allows better forward, side & rear visibility for the operator.

Short wheelbase provides tight turning radius to maneuver in congested or limited space operating areas.

Specifically designed for the construction, mining, forestry, lumber & building industry, these forklift trucks have high under clearance, tremendous mobility and stability on rough terrain with or without load.

Rugged designed one piece frame is robotic welded for maximum rigidity, superior quality and long term endurance to meet the most demanding operating conditions.

Key words:

Widely accepted, reliable diesel Yanmar 4TNE98(EU III)

& Perkins 1104C-44T engines

Two-wheel drive system

Superior full floating safeguard

Productive transmission with 100% differential lock

Maximum mast tilt angle F/R 15°/15°

Special wide view mast

High ground clearance

We work for maximal

Maximal Rough Terrain Forklift Introduction

Power: Quality Components, Excellent Power & Reliable Performance.

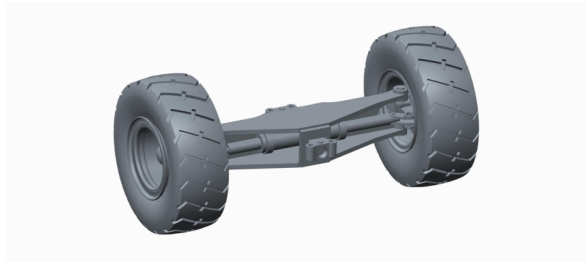
Two-Wheel Drive System

Maximal rough terrain forklift is a tough, compact forklift with a two-wheel drive system. The forklift is based on conventional forklift, but built for rough terrain performance.



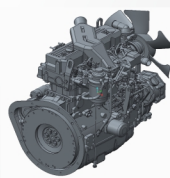
Steer Axle

Oscillating steer axle allows either wheel to step over obstacles keeping the machine and load level. Floation drive & steer tires provide excellent traction and stability. The steering angle is from 43.6° to 70° with very small turning radius.



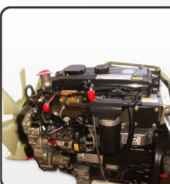
Engine

Yanmar 4TNE98(EU III) & Perkins 1104C-44T diesel engines are world renowned for superior performance, economy and longevity. Timed glow plug cold start in cold climate allows faster warm up and fuel savings.



YANMAR

Type:WE3
Model:4TNE98(EuIII/EPAIII)
Rated output:42.1kw/2300rpm
Rated torque:186-206N·m/1700rpm
No. of cylinder:4
Bore×Stroke:98×110mm
Displacement:3.318L

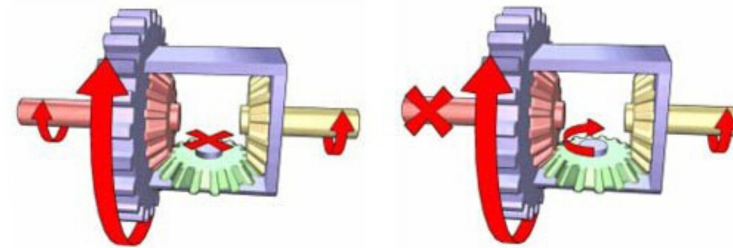


PERKINS

Type:WP
Model:1104C-44T
Rated output:41.5kw/2200rpm
Rated torque:413N.m/1350rpm
No. of cylinder:4
Bore×Stroke:105×127mm
Displacement:4.4L

Transmission With 100% Differential Lock

Power shift transmission with torque converter features two (2) pedal inching and brake control and full reversal allowing faster cycle times. The 100% differential lock is specifically designed for rough terrain and features automatic differential lock providing ultimate traction during inclement weather conditions and rough operating surfaces.



[differential lock does not work in the condition of going straight]

[differential lock does work in the condition of turning]

Appearance: Clear, Concise & Modern Design

Maximal rough terrain forklift design has adopted the streamline design of the Maximal A Series forklifts.



Floating System: Less Vibration & Greater Comfort

Maximal rough terrain forklift adopts a floating R.O.P system. Maximal's engineers have adapted the latest ergonomics for operator convenience. A superior full floating operator cabin is installed with rubber damping instead of the traditional rigid design. This greatly reduces machine vibration and offers a smoother ride over rough terrain and reduces operator fatigue. Travel & hydraulic controls are positioned forward for most ergonomic natural operation. Fully adjustable tilt steering wheel and fully suspension seat with seat belt accommodates all size operators.



Maneuverability: High Ground Clearance

Body Min. Ground Clearance:
2.5T & 3.5T — 270mm
4.0T & 5.0T — 320mm

High ground clearance offers greater maneuverability and keeps the machine moving in the roughest of applications.



Tyres: High Quality & Durable

Maximal rough terrain forklift front tyres are a special heavy truck tyre with a wide footprint giving it greater stability and lift capacity in rough work environments.



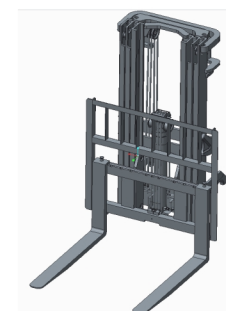
Mast: Wide View & Durable

Frame Width:	Mast Tilt Angle F/R:
2.5T — 1557.5mm	2.5T & 3.5T reaches to 10°/12°
3.5T — 1600.5mm	
4.0T — 2067 mm	4.0T & 5.0T reaches to 15°/15°
5.0T — 2067 mm	

Wide-view mast provides excellent through-the-mast visibility improving the work efficiency and allowing safe operation of the forklift. I beam rails and heavy tie bar construction reduce twisting while handling long, lateral loads on rough surface applications. Sealed bearing load rollers and are externally adjustable to compensate for long term wear.

Side thrust rollers on top & bottom of all rails and carriage side thrust rollers reduce mast roller maintenance and replacements.

A clear view to the forks and surrounding area is optimized through the Maximal wide view mast. Excellent rearwards visibility is enhanced with the sloping rear counterweight and fenders. The dash and LED monitor panel is mounted low and in line of sight for operator convenience.

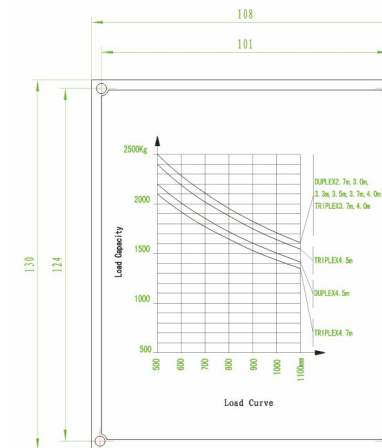


2.5T & 3.5T rough terrain forklift

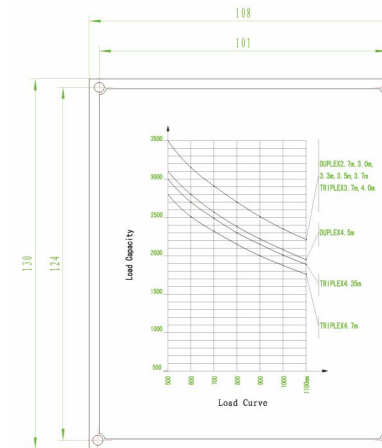
Rough terrain diesel forklift													
General	1	Model		FD25T-CWE3	FD35T-CWE3								
	2	Power type		Diesel									
	3	Rated capacity	Kg	2500	3500								
	4	Load centre	mm	500									
Characteristic&Dimension	5	Lift height		3000									
	6	Free lift height		160	165								
	7	Fork size	L×W×T	1100x122x40	1220x122x40								
	8	Fork regulating range	Min./Max.	250-1160									
	9	Mast tilt angle	F/R	10°/12°									
	10	Front overhang		586	601								
	11	Rear overhang		520									
	12	Min. ground clearance		270									
	Overall dimensions	13	Length to face of fork (without fork)		2946	2956							
		14	Overall width		1557.5	1600.5							
		15	Mast lowered height		2265	2330							
		16	Mast extended height (with backrest)		4175	4305							
		17	Overhead guard height		2256.5	2276							
		18	Turning radius(outside)		2783								
	19	Min. right angle stacking aisle width(add load length and clearance)		4795	4805								
	Performance	20	Speed	Travel(Unladen/Laden)	20/18	22/22							
		21		Lifting(Unladen/Laden)	600/570	480/450							
		22		Lowering(Unladen/Laden)	420/445	400/500							
		23	Max. Drawbar pull(Laden/unladen)		KN	17							
24	Max. Gradeability(Loaden)		%	20	16								
Tyre	25	Tyre	Front	12-16.5-14PR	14-17.5-14PR								
			Rear	27×10-12-12PR	27×10-12-12PR								
	26	Tread	Front	1250.5									
			Rear	1205									
	27	Tyre pressure	Front	680	680								
Rear			650	650									
28	Seat to ceiling inside height		1010										
29	Wheelbase		1880										
Weight	30		Self weight	kg	4465	5180							
	31-34	Laden	Front Axle	kg	5990	7725							
			Rear Axle	kg	975	955							
		Unladen	Front Axle	kg	1785	2070							
Rear Axle			kg	2680	3110								
Power& Transmission	35		Battery	Voltage/Capacity	V/Ah	12/90	12/90						
	36-43	Engine	36		Model	4TNE98-BQFLC							
			37		Manufacture	YANMAR							
			38		Rated output/r.p.m.	Kw	42.1/2300						
			39		Rated torque/r.p.m.	N.m	186-206/1700						
			40		No. of cylinder	4							
			41		Bore×Stroke	mm	98×110						
	42		Displacement	L	3.318								
	43		Fuel tank capacity	L	55								
	44-46	Transmission	44		Manufacture	China							
45			Type	YQXD30-XH	YQXD40MKS-XH								
46			Stage	F/R	1/1								
47	Operating pressure(For attachments)		Mpa	20									
48	Min. right angle stacking aisle width		mm	2615									

2.5T & 3.5T rough terrain forklift mast

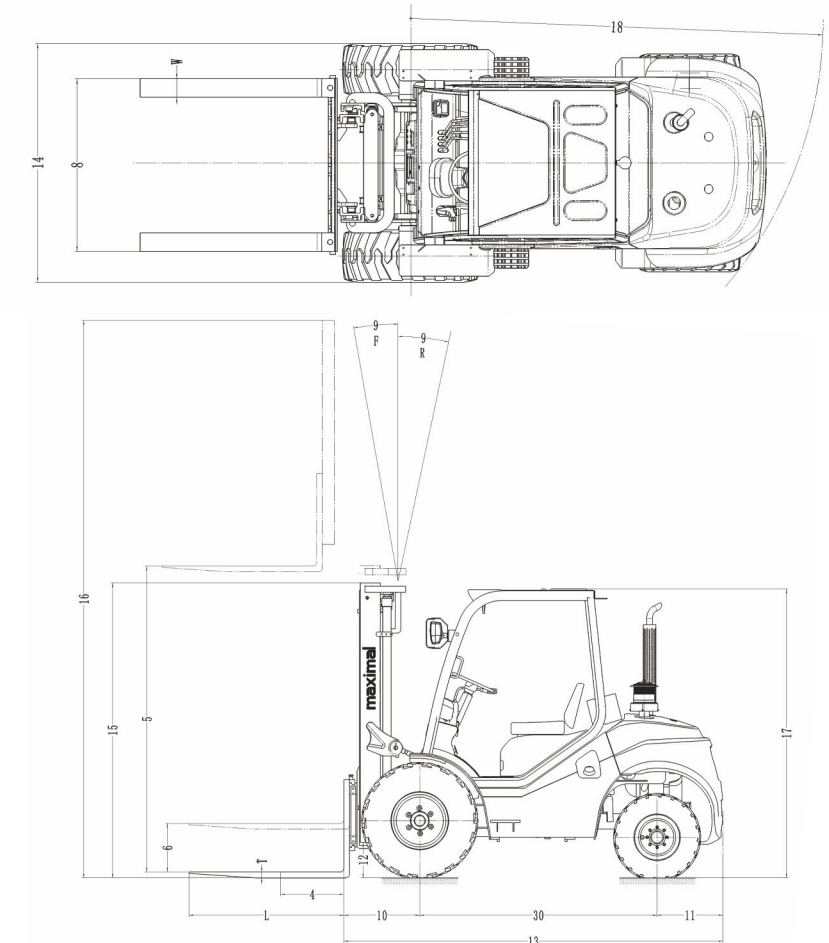
Type	Model	Max. fork height	Overall height		Free lift				Front Overhang		Tilt range		Capacity			
			Lowered		With backrest		Without backrest		2.5t	3.5t	FWD	BWD	capacity at max. height			
			2.5t	3.5t	2.5t	3.5t	2.5t	3.5t					Without side shift carriage		With side shift carriage	
			mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	Deg	Deg	kg	kg
Wide view mast 2-stage mast	M270	2700	2085	2180	160	165	160	165	585	600	10	12	2500	3500	2500	3200
	M300	3000	2235	2330	160	165	160	165	585	600	10	12	2500	3500	2500	3200
	M330	3300	2385	2480	160	165	160	165	585	600	10	12	2500	3500	2500	3200
	M350	3500	2485	2580	160	165	160	165	585	600	10	12	2500	3500	2500	3200
	M370	3700	2585	2680	160	165	160	165	585	600	10	12	2500	3500	2500	3200
	M400	4000	2785	2880	160	165	160	165	585	600	10	12	2500	3400	2500	3100
Full free 3-stage mast	M450	4500	3035	3130	160	165	160	165	585	600	10	12	2200	3100	2100	2900
	TFM370	3700	1990	2115	798	790	1243	1246	590	620	10	12	2500	3500	2400	3100
	TFM400	4000	2080	2205	888	890	1333	1336	590	620	10	12	2500	3400	2400	3100
	TFM435	4350	2205	2330	1013	1015	1458	1461	590	620	10	12	2400	3000	2200	2900
	TFM470	4700	2320	2445	1128	1130	1573	1576	590	620	10	12	2100	2800	1900	2500
	TFM500	5000	2455	2580	1263	1265	1708	1710	590	620	6	6	1900	2600	1600	2300
TFM550	5500	2620	2745	1428	1430	1873	1875	590	620	6	6	1500	2300	1200	2100	
TFM600	6000	2805	2930	1613	1615	2058	2060	590	620	6	6	1200	1900	800	1600	



2.5T Load Chart



3.5T Load Chart



4.0T & 5.0T rough terrain forklift

Rough terrain diesel forklift													
General	1	Model		FD40T-C2WP3	FD50T-C2WP3								
	2	Power type		Diesel									
	3	Rated capacity	Kg	4000	5000								
	4	Load centre	mm	600									
Characteristic&Dimension	5	Lift height	mm	3000									
	6	Free lift height	mm	145	145								
	7	Fork size	L×W×T	1220x150x50	1220x150x50								
	8	Fork regulating range	Min./Max.	300-1954	300-1954								
	9	Mast tilt angle	F/R	15°/15°									
	10	Front overhang	mm	732	732								
	11	Rear overhang	mm	764									
	12	Min. ground clearance		320									
	Overall dimensions	13	Length to face of fork (without fork)	mm	3622	3622							
		14	Overall length(with fork)	mm	4837	4837							
		15	Mast lowered height	mm	2565	2565							
		16	Mast extended height (with backrest)	mm	4170	4170							
		17	Overhead guard height	mm	2545	2545							
		18	Min. turning radius	mm	3540	3540							
Performance	19	Speed	Travel(Unladen/Laden)	Km/h	22/21								
	20		Lifting(Unladen/Laden)	mm/s	570/500								
	21		Lowering(Unladen/Laden)	mm/s	400/500								
	22	Max. Drawbar pull(Laden/unladen)	KN	50	50								
	23	Max. Gradeability(Loaden)	%	30	30								
Pressure	24	Laden lifting(normal/max)	Mpa	15. 6/19	15. 6/19								
	25	Unladen lifting(normal/max)	Mpa	2. 6/19	2. 6/19								
Tyre	26	Tyre	Front	445-65-22.5PR/1175	445-65-22.5PR/1175								
			Rear	12.5/80-18/958	12.5/80-18/958								
	27	Tread	Front	mm	1620								
			Rear	mm	1720								
28	Tyre pressure	Front	Kpa	550									
		Rear	Kpa	370									
29	Seat to ceiling inside height	mm	≥1050	≥1050									
30	Wheelbase	mm	2125										
Weight	31	Self weight	kg	7960	8450								
	32-35	Weight Distribution	Laden	Front Axle	kg	10350	11700						
				Rear Axle	kg	1600	1750						
			Unladen	Front Axle	kg	3320	3550						
				Rear Axle	kg	4630	4900						
Power&Transmission	36	Battery	Voltage/Capacity	V/Ah	24/160	24/160							
	37-44	Engine	Model	1104C-44T									
			Manufacture	PERKINS									
			Rated output/r.p.m.	Kw	74.5/2300								
			Rated torque/r.p.m.	N.m	415/1350								
			No. of cylinder	4									
			Bore×Stroke	mm	105×127								
	43	Displacement	L	4.4									
	44	Fuel tank capacity	L	127									
	45-47	Transmission	Manufacture	China									
Type			YQXD45VIPM										
Stage			F/R	2/1									
48	Operating pressure(For attachments)	Mpa	16	19									

4.0T & 5.0T rough terrain forklift mast

Type	Model	Max. fork height	Overall height		Free lift				Front Overhang		Tilt range		Capacity			
			Lowered		With backrest		Without backrest		4.0t	5.0t	FWD	BWD	capacity at max. height			
			4.0t	5.0t	4.0t	5.0t	4.0t	5.0t					Without side shift carriage		With side shift carriage	
			mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	Deg	Deg	kg	kg
Wide view mast 2-stage mast	M300	3000	2565	2565	145	145	145	145	727	732	15	15	4000	5000	3600	4700
	M330	3300	2715	2715	145	145	145	145	727	732	15	15	4000	5000	3600	4700
	M350	3500	2815	2815	145	145	145	145	727	732	15	15	4000	5000	3600	4700
	M370	3700	2915	2915	145	145	145	145	727	732	15	15	4000	5000	3600	4700
	M400	4000	3115	3115	145	145	145	145	727	732	15	15	4000	5000	3600	4700
	M450	4500	3365	3365	145	145	145	145	727	732	15	15	3600	4500	3240	4050
Full free 3-stage mast	TFM400	4000	2560	2560	1000	1000	1350	1350	760	765	15	15	4000	5000	3600	4500
	TFM435	4350	2685	2685	1125	1125	1475	1475	760	765	15	15	3600	4500	3240	4050
	TFM450	4500	2736	2736	1176	1176	1526	1526	760	765	15	15	3200	4000	2880	3600
	TFM470	4700	2802	2802	1242	1242	1592	1592	760	765	15	15	2950	3700	2680	3350
	TFM500	5000	2935	2935	1375	1375	1725	1725	760	765	10	15	2640	3300	2360	2950
	TFM540	5400	3060	3060	1500	1500	1850	1850	760	765	10	15	1920	2400	1720	2150
TFM600	6000	3300	3300	1740	1740	2090	2090	760	765	10	15	1600	2000	1400	1800	

