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BUILT FOR ROUGH TERRAIN

Maximal Rough Terrain Forklift
2.5ton / 3.5ton



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**FOUR-WHEEL DRIVE SYSTEM
ROUGH TERRAIN FORKLIFT
IS COMING SOON!**

Highlighted features:

Maximal 2.5T and 3.5T 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) engine
Two-wheel drive system
Superior full floating safeguard
Productive transmission with differential lock
Maximum mast tilt angle F/R 10°/12°
Special wide view mast
High ground clearance



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.



Engine

Maximal 2.5T and 3.5T rough terrain forklifts adopt Yanmar 4TNE98(EU III) diesel engine. It is world renowned for superior performance, economy and longevity. Timed glow plug cold start in cold climates allows faster warm up and fuel savings. Yanmar engine conforms to all world environmental EPA standards.



YANMAR

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

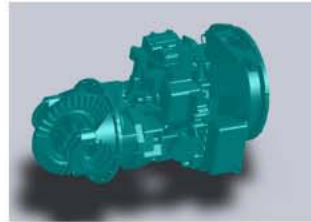
Steer Axle

Oscillating steer axle allows either wheel to step over obstacles keeping the machine and load level. Floatation drive & steer tires provide excellent traction and stability. The steering angle is from 54° to 78° with very small turning radius.



Transmission with Differential Lock

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



Appearance: Clear, Concise & Modern Design

Maximal rough terrain forklift design has adopted the streamline design of the Maximal A Series forklifts. The appearance is clear and concise with a very modern forklift design.



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

2.5T rough terrain forklift body min. ground clearance is 250mm; 3.5T rough terrain forklift body min. ground clearance is 284.5mm; 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.

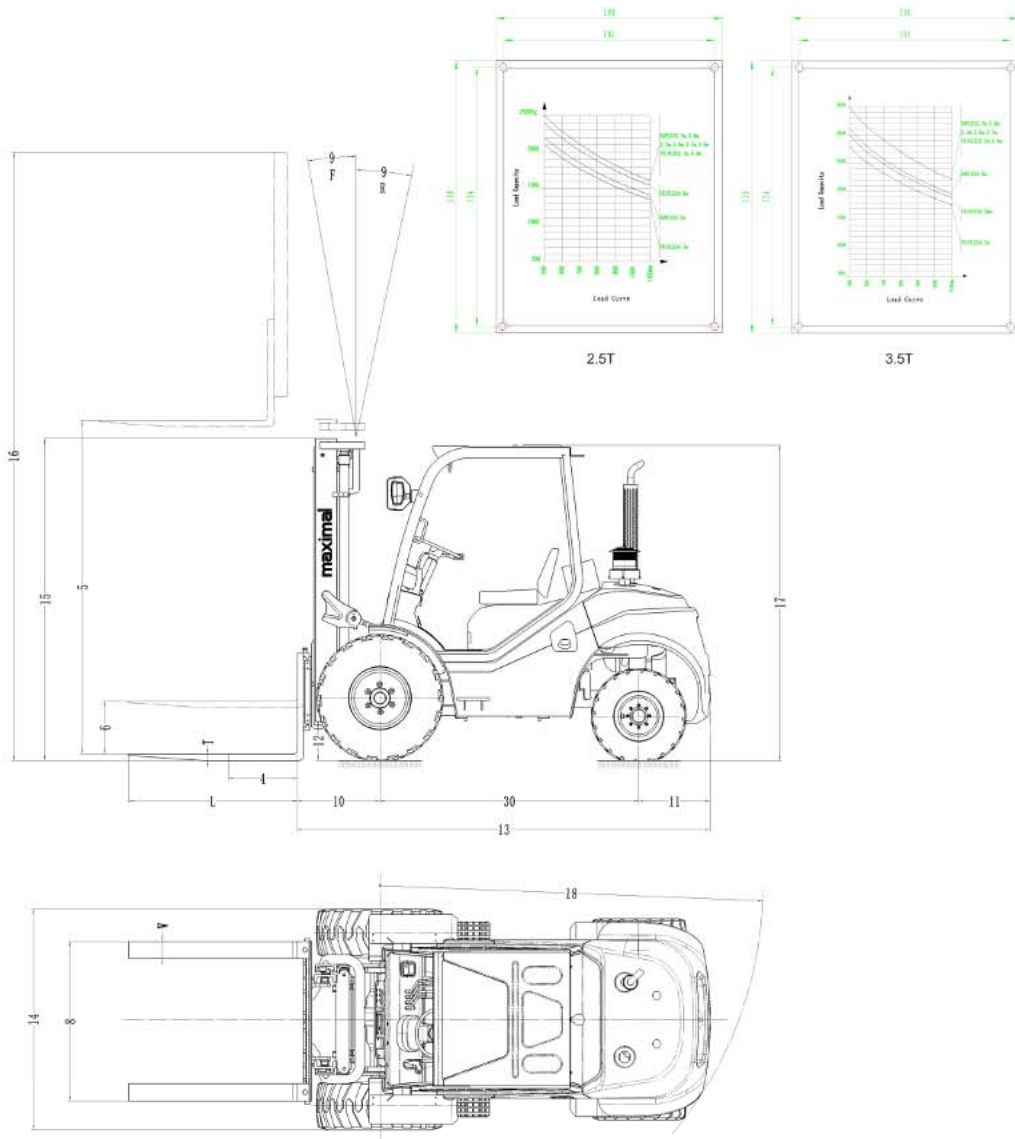


Mast: Wide View & Durable.

2.5T rough terrain forklift mast width is 1557.5mm; 3.5T rough terrain forklift mast width is 1600.5mm; Maximum mast tilt angle F/R reaches to 10°/12°; 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.



Load Chart



Specification

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	mm 3000	
	6	Free lift height	mm 160 165	
	7	Fork size	L×W×T mm 1100x122x40 1220x122x40	
	8	Fork regulating range	Min./Max. mm 250-1160	
	9	Mast tilt angle	F/R Deg 10°/12°	
	10	Front overhang	mm 586 601	
	11	Rear overhang	mm 520	
	12	Min. ground clearance	mm 270	
	Overall dimensions	14	Length to face of fork (without fork)	mm 2946 2956
		15	Overall width	mm 1557.5 1600.5
		16	Mast lowered height	mm 2265 2330
		17	Mast extended height (with backrest)	mm 4175 4305
		18	Overhead guard height	mm 2256.5 2276
		19	Turning radius(outside)	mm 2783
		20	Min. right angle stacking aisle width (add load length and clearance)	mm 4795 4805
		Performance	21	Speed
22			Lifting(Unladen/Laden) mm/s 600/570 480/450	
23			Lowering(Unladen/Laden) mm/s 420/445 400/500	
24	Max. Drawbar pull(Laden/unladen)		KN 17000	
25	Max. Gradeability(Loaden)		% 20 16	
Tyre	26	Tyre	Front	12-16.5-14PR 14-17.5-14PR
			Rear	27×10-12-12PR 27×10-12-12PR
	27	Tread	Front	mm 1250.5
			Rear	mm 1205
	28	Tyre pressure	Front	bar 680 680
Rear			bar 650 650	
29	Seat to ceiling inside height	mm 1010		
30	Wheelbase	mm 1880		
Weight	31		Self weight	kg 4465 5180
	32-35	Laden	Front Axle	kg 5990 7725
			Rear Axle	kg 975 955
		Unladen	Front Axle	kg 1785 2070
			Rear Axle	kg 2680 3110
36	Battery	V/Ah	12/90 12/90	
Power&Transmission	37		Model	4TNE98-BQFLC
	38		Manufacture	YANMAR
	39		Rated output/r.p.m.	Kw 42.1/2300
	40		Rated torque/r.p.m.	N.m 186-206/1700
	41		No. of cylinder	4
	42		Bore×Stroke	mm 98×110
	43		Displacement	L 3.318
	44		Fuel tank capacity	L 55
	45		Manufacture	China
	46	Transmission	Type	YQXD30-XH YQXD40MKS-XH
Stage			F/R 1/1	
45	Operating pressure(For attachments)	Mpa 20		
49	Min. right angle stacking aisle width	mm 2615		