

maxim

A Series 2.5-3.5t Internal Combustion Forklift



A series 2.5-3.5t IC Forklift



UNITED MOTOR WORKS (SIAM) PCL

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Corporate Brochure



Maximal Company Introduction



Established in Feb. 2006, Maximal Forklift (zhejiang) Co., Ltd, is located in Lushan Industry Area with convenient transportation. Maximal specializes in material handling equipment designing and manufacturing.

Maximal Company total floor area is 133,334㎡, investment RMB420 million, factory designed production capacity is 30000 units per year.

Currently Maximal employs 500 staffs, with more than 230 professional and technical personnel, more than 70 Technical R&D personnel. Maximal gained 7 national invention patents, more than 70 utility model and appearance patents.

Maximal owns advanced parts processing center, robot welding equipments, parts automatic hoist conveyor lines, coating lines, assembly lines, forklifts performance test lines, parts test-bed and ERP information management system.

Maximal current product range covers 4 series, including 1.5-ton compact industrial forklift, 1.8-5.0-ton rough terrain forklift, 13.5-32.0-ton heavy duty forklift & Port machinery and warehouse equipment.

Maximal forklifts received strong public recognition for their modern and striking appearance, high production quality, safety standard and low cost of operation.

At present, Maximal products sales have covered all provinces in domestic market, exported to over 100 countries and areas. Maximal takes "technology innovation, promoting products structure, improving product quality and service" as the belief, takes internationalization, professionalization and green environmental protection as mission, to build Maximal into the most respectable forklift brand.

Current products consist of:

M series:

- 1.5-3.2T/3000-64,000LB capacity diesel forklifts.
- 1.5-7T/3000-14,000LB capacity gasoline/LPG forklifts.
- 4-5T/8000-10,000LB capacity 4-wheel electric forklifts.
- 1.6-2T/3200-4000LB capacity 3-wheel electric forklifts.
- 0.7-1.5T/1400-3000LB capacity VNA truck.
- 1.6T/3200LB capacity Rear drive 3-wheel electric forklifts.
- 2.5T/4000-5000LB capacity dual-drive 4-wheel electric forklifts.
- 2.5T/4000-5000LB capacity cushion tyre forklifts.
- 1.3-3T/2600-6000LB capacity Omni-Directional electric forklifts.

A series:

- 2.5-3.5T/4000-7000LB capacity diesel and gasoline/LPG forklifts.

- 1.5-3.5T/3000-7000LB capacity 4-wheel electric forklifts.

- 1.6-2.5T/3200-5000LB capacity electric reach truck.

Rough Terrain:

- 1.8-3.5T/3600-7000LB capacity compact 4WD rough terrain forklifts.
- 2.5-3.5T/5000-7000LB capacity 4WD rough terrain forklifts.
- 1.8-5.0T/3600-10,000LB capacity 2WD rough terrain forklifts.

Port Machinery:

- 9T/18,000LB capacity empty container handler.
- 45T/90,000LB capacity reach stacker.

Side Loader Forklift:

- 3.5T-4.5T/7000-9900LB capacity side loader forklifts.

A series introduction

Maximal's New "A" Series Forklift is engineering for the driver. Maximal engineers have focused on improving the comfort and safety for new A series forklifts, with lower noise levels, less vibration, more safety, and every small detail carefully designed prepared for the driver.

Classification of After-sales Service

Classification of After-sales Service classifies customer claims into 3 classes, Warranty 1(W1), Warranty 2(W2), Warranty 3(W3). Different claim class has different after-sales procedures which aims to increase service quality.



Classification of After-sales Service



24-hour fast reply on trucks and parts claims

① Comfort

- Maximal special display with 3.5" LCD
- Wider foot room & Suspension foot brake.
- Dual suspension system
- New hand parking brake device with button greatly reduces fatigue in operation.
- Small diameter steering wheel with new adjustor

② Safety & Stability

- Wide view mast
- High strength safe guard/cabin
- Muffler & Engine protective system
- Lower centre of gravity

③ Easily maintenance

- Bigger checking & repair space
- Compact wire distribution
- New type oil tank cap

④ Reliability & Exchangeability

- Triplex plate overhead guard
- Exchangeable components

⑤ Energy saving & Environmental protection

- New noise isolation material
- Powerful steering system with lower fuel consumption
- Environmentally-aware design

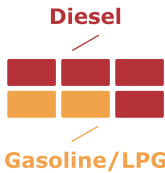


A SERIES 2.5-3.5t diesel forklift

General	1	Model				FD25T-AWE5	FD30T-AWE5	FD35T-AWE5	
	2	Optional Type				A2WV3/A2W(9)3/W(18)3			
	3	Power Type				Diesel			
	4	Rated Capacity			kg	2500	3000	3500	
	5	Load Centre			mm	500	500	500	
Characteristic&Dimension	6	Lift Height			mm	3000	3000	3000	
	7	Mast tilt angle	F/R		Deg	6/12	6/12	6/12	
	8	Fork	L×W×T		mm	1070×122×40	1070×125×45	1070×130×50	
	9		Regulating range		mm	250-1000	250-1060	260-1060	
	10	Front Overhang			mm	475	490	501	
	11	Rear Overhang			mm	544	543	623	
	12	Min. ground clearance (Bottom of mast)		Unladen	mm	130	155	155	
	Laden			mm	120	145	145		
	14	Min. ground clearance (Bottom of frame)		Unladen	mm	125	145	145	
	Laden			mm	115	130	130		
	16	Overall demensions	Overall length (without forks)		mm	2620	2704	2804	
	17		Overall width		mm	1150	1210	1210	
	18		Overall height	Overhead guard height	mm	2180	2205	2205	
	19			Mast	mm	2010	2075	2150	
	20			Mast extended height	mm	3990	4100	4100	
	21	Min. turning radius			mm	2230	2450	2520	
	22	Wheelbase			mm	1600	1700	1700	
	23	Traction pin height from the ground			mm	250	480	480	
	24	Lowered seat to overall guard inside height			mm	1100	1100	1100	
	25	Tyre pressure		Front	MPa	0.86	0.97	0.97	
	Rear			MPa	0.86	0.79	0.79		
	27	Tread		Front	mm	970	1000	1000	
	28			Rear	mm	980	980	980	
	29	Tire center height from the ground		Unladen	Front	mm	320	345	345
	Rear				mm	250	260	260	
	30			Laden	Front	mm	310	330	330
	31				Rear	mm	265	280	280
Performance	33	Speed		Travel (Unladen/Laden)	km/h	18/17.5	19/18	19/18	
	34			Lifting(Unladen/Laden)	mm/sec	640/610	550/520	430/410	
	35			Lowering(Unladen/Laden)	mm/sec	420/380	400/380	400/380	
	36	Max.Drawbar pull (Unladen/Laden)			KN	15/17	15/17	15/17	
	37	Max.Gradeability (Unladen/Laden)			%	20	20	20	
		Ramp parking brake			%	15	15	15	
	38	Braking distance			m	≤6	≤6	≤6	
39	System pressure			MPa	20	20	20		
Weight	40	Self weight			kg	3590	4300	4680	
	41	Weight Distribution		Laden	Front	kg	5320	6495	7275
	Rear				kg	770	805	905	
	42			Unladen	Front	kg	1630	1800	1950
	43				Rear	kg	1960	2500	2730

A SERIES 2.5-3.5t Gasoline/LPG forklifk

General	1	Model				FGL25T-AWA3	FGL30T-AWA3	FGL35T-AWA3	
	2	Optional Type				A2W(1)3/WH3/W(L2)3			
	3	Power Type				Gasoline/LPG			
	4	Rated Capacity			kg	2500	3000	3500	
	5	Load Centre			mm	500	500	500	
Characteristic&Dimension	6	Lift Height			mm	3000	3000	3000	
	7	MastTilt Angle	F/R	Deg	6/12	6/12	6/12		
	8	Fork	L×W×T		mm	1070×122×40	1070×125×45	1070×130×50	
	9		Regulating range		mm	250-1000	250-1060	260-1060	
	10	Front Overhang			mm	475	490	501	
	11	Rear Overhang			mm	544	543	623	
	12	Min. ground clearance (Bottom of mast)		Unladen	mm	130	155	155	
	Laden			mm	120	145	145		
	14	Min. ground clearance (Bottom of frame)		Unladen	mm	125	145	145	
	Laden			mm	115	130	130		
	16	Overall demensions	Overall length (without forks)		mm	2620	2704	2804	
	17		Overall width		mm	1150	1210	1210	
	18		Overall height	Overhead guard height	mm	2180	2205	2205	
	19			Mast	mm	2010	2075	2150	
	20			Mast extended height	mm	3990	4100	4100	
	21	Min. turning radius			mm	2230	2450	2520	
	22	Wheelbase			mm	1600	1700	1700	
	23	Traction pin height from the ground			mm	250	480	480	
	24	Lowered seat to overall guard inside height			mm	1100	1100	1100	
	25	Tyre pressure		Front	MPa	0.86	0.97	0.97	
	26			Rear	MPa	0.86	0.79	0.79	
	27	Tread		Front	mm	970	1000	1000	
	28			Rear	mm	980	980	980	
	29	Tire center height from the ground		Unladen	Front	mm	320	345	345
	Rear				mm	250	260	260	
	31			Laden	Front	mm	310	330	330
	32				Rear	mm	265	280	280
Performance	33	Speed		Travel (Unladen/Laden)	km/h	18/17.5	19/18	19/18	
	34			Lifting(Unladen/Laden)	mm/sec	550/530	450/425	350/335	
	35			Lowering(Unladen/Laden)	mm/sec	380/420	400/380	400/380	
	36	Max.Drawbar pull (Unladen/Laden)			KN	15/17	15/17	15/17	
	37	Max.Gradeability (Unladen/Laden)			%	20	20	18	
		Ramp parking brake			%	15	15	15	
	38	Braking distance			m	≤6	≤6	≤6	
Weight	39	System pressure			MPa	20	20	20	
	40	Self weight			kg	3590	4300	4680	
	41	Weight Distribution		Laden	Front	kg	5320	6495	7275
	Rear				kg	770	805	905	
	43			Unladen	Front	kg	1630	1800	1950
	Rear				kg	1960	2500	2730	



MITSUBISHI

Type: AWW5/WV3
Model: S4S (EuIII/EPAIII)
Rated output: 35.3kw/2250rpm
Rated torque: 177N·m/1700rpm
No. of cylinder: 4
Bore × Stroke: 94 × 120mm
Displacement: 3.331L



YANMAR

Type: AWE5
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



DACHAI

Type: AGK5
Model: 498
(Chinese DEUTZ)
Rated output: 45kw/2500 rpm
Rated torque: 190 N · m / 1800 rpm
No. of cylinder: 4
Bore × Stroke: 98 × 105 mm
Displacement: 3.168 L



PSI

Type: WG3
Model: PSI2.4L
Rated output: 44/2500 kw/rpm
Rated torque: 175/1500 Nm/rpm
No. of cylinder: 4
Bore × Stroke: 86.5 × 100mm
Displacement: 2.35L



GCT

Type: AWA5
Model: K25
Rated output: 37.4kw/2300rpm
Rated torque: 171.2N·m/1600rpm
No. of cylinder: 4
Bore × Stroke: 89 × 100mm
Displacement: 2.488L



DACHAI

Type: AGI2i5
Model: CA498-05T3(EuIII)
Rated output: 36.9kw/2500rpm
Rated torque: 190N·m/1800rpm
No. of cylinder: 4
Bore × Stroke: 98 × 105mm
Displacement: 3.168L



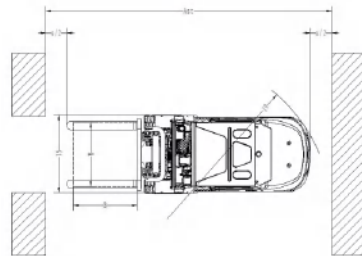
LS

Type: W18i3
Model: L4CRV (EuV+Tier4)
Max output: 63kw / 2300 rpm
Max torque: 234 N·m / 1600 rpm
No. of cylinder: 4
Bore × Stroke: 88 × 103mm
Displacement: 2.505 L



Hyundai

Type: W1L2i3
Model: HMC2.4L L4KB
Max output: 65PS/2,500rpm
Max torque: 18.5kg·m/1,600rpm
No. of cylinder: 4
Bore × Stroke: 88 × 97mm
Displacement: 2.369 L



A SERIES 2.5t mast:

Type	Model	Max. fork height	Overall height			Free lift		Front Overhang	Tilt range		Capacity	
			Lowered	Extended		Without backrest	with backrest		FWD	BWD	load capacity at 500mm	
				Without backrest	With backrest						Single tyre	Double tyre
				2.5t	2.5t			2.5t			2.5t	2.5t
		mm	mm	mm	mm	mm	mm	mm	Deg	Deg	kg	kg
2-stage mast	M330	3300	2160	3875	4290	160	160	465	6	12	2500	—
	M350	3500	2260	4075	4490	160	160	465	6	12	2500	—
	M370	3700	2360	4275	4690	160	160	465	6	6	2500	—
	M400	4000	2560	4575	4990	160	160	465	6	6	2500	—
	M450	4500	2810	5075	5490	160	160	465	6	6	2100	2400
	M500	5000	3060	5575	5990	160	160	465	6	6	1600	1900
	M550	5500	3360	6075	6490	160	160	465	3	6	1200	1700
	M600	6000	3610	6575	6990	160	160	465	3	6	900	1400
Full free 2-stage mast	FM300	3000	2010	3590	3990	1420	1020	480	6	12	2500	—
	FM330	3300	2160	3890	4290	1570	1170	480	6	12	2500	—
	FM350	3500	2260	4090	4490	1670	1270	480	6	6	2500	—
Full free 3-stage mast	TFM435	4350	2010	4867	5340	1390	1020	485	6	6	2200	2400
	TFM450	4500	2060	5017	5490	1440	1070	485	6	6	2000	2300
	TFM480	4800	2160	5317	5790	1540	1170	485	6	6	1700	2000
	TFM500	5000	2260	5517	5990	1640	1270	485	6	6	1500	1800
	TFM540	5400	2385	5917	6390	1765	1395	485	3	6	1200	1600
	TFM600	6000	2610	6517	6990	1990	1620	485	3	6	800	1300
	TFM650	6500	2825	7000	7490	2200	1830	485	3	6	500	1000

A SERIES 3-3.5t mast:

Type	Model	Max. fork height	Overall height								Free lift				Front Overhang		Tilt range		Capacity			
			Lowered		Extended				Without backrest		with backrest		load capacity at 500mm									
					Without backrest		With backrest						Without backrest		with backrest		Single tyre		Double tyre			
			3t	3.5t	3t	3.5t	3t	3.5t	3t	3.5t	3t	3.5t	3t	3.5t	3t	3.5t	Deg	Deg	3t	3.5t	3t	3.5t
		mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	Deg	Deg	kg	kg	kg	kg	
2-stage mast	M200	2000	1575	1650	2640	2700	3100	3100	165	170	165	170	485	505	6	12	3000	3500	—	—		
	M250	2500	1825	1900	3140	3200	3600	3600	165	170	165	170	485	505	6	12	3000	3500	—	—		
	M300	3000	2075	2150	3640	3700	4100	4100	165	170	165	170	485	505	6	12	3000	3500	—	—		
	M330	3300	2225	2300	3940	4000	4400	4400	165	170	165	170	485	505	6	12	3000	3500	—	—		
	M350	3500	2325	2400	4140	4200	4600	4600	165	170	165	170	485	505	6	12	3000	3500	—	—		
	M370	3700	2425	2500	4340	4400	4800	4800	165	170	165	170	485	505	6	6	3000	3500	—	—		
	M400	4000	2625	2700	4640	4700	5100	5100	165	170	165	170	485	505	6	6	3000	3300	—	3500		
	M425	4250	2750	2825	4890	4950	5350	5350	165	170	165	170	485	505	6	6	2850	3200	3000	3500		
	M450	4500	2875	2950	5140	5200	5600	5600	165	170	165	170	485	505	6	6	2600	2900	2800	3100		
	M500	5000	3125	3200	5640	5700	6100	6100	165	170	165	170	485	505	6	6	2100	2400	2400	2750		
Full free 2-stage mast	M550	5500	3425	3500	6140	6200	6600	6600	165	170	165	170	485	505	3	6	1700	1800	2200	2400		
	M600	6000	3675	3750	6640	6700	7100	7100	165	170	165	170	485	505	3	6	1300	1400	2000	2200		
	FM250	2500	1825	1900	3150	3180	3600	3600	1175	1220	725	800	495	515	6	12	3000	3500	—	—		
	FM300	3000	2075	2150	3650	3680	4100	4100	1425	1470	975	1050	495	515	6	12	3000	3500	—	—		
	FM330	3300	2225	2300	3950	3980	4400	4400	1575	1620	1125	1200	495	515	6	12	3000	3500	—	—		
	FM350	3500	2325	2400	4150	4180	4600	4600	1675	1720	1225	1300	495	515	6	6	3000	3500	—	—		
Full free 3-stage mast	FM370	3700	2425	2500	4350	4380	4800	4800	1775	1820	1325	1400	495	515	6	6	3000	3500	—	—		
	FM400	4000	2625	2700	4650	4680	5100	5100	1975	2020	1525	1600	495	515	6	6	3000	3300	—	3500		
	TFM435	4350	2075	2150	4950	4990	5450	5450	1475	1510	975	1050	505	520	6	6	2800	3100	2900	3350		
	TFM450	4500	2125	2200	5100	5140	5600	5600	1525	1560	1025	1100	505	520	6	6	2500	2800	2700	3000		
	TFM480	4800	2225	2300	5400	5440	5900	5900	1625	1660	1125	1200	505	520	6	6	2250	2500	2450	2750		
	TFM500	5000	2325	2400	5600	5640	6100	6100	1725	1760	1225	1300	505	520	6	6	2100	2300	2300	2600		
	TFM540	5400	2450	2525	6000	6040	6500	6500	1850	1885	1350	1425	505	520	3	6	1650	1800	2100	2300		
TFM600	6000	2675	2750	6600	6640	7100	7100	2075	2110	1575	1650	505	520	3	6	1200	1300	1900	2100			
TFM650	6500	2890	2965	7100	7100	7600	7600	2260	2290	1790	2865	505	520	3	6	700	800	1300	1500			

