



MATERIAL HANDLING EQUIPMENT



**Sales & Rentals of Quality Material
Handling Equipment**

YOU DRIVE, WE STRIVE

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M Series 4.5- Compact 12ton IC Forklift



lift-force

We are a customer centric forklift company and pride ourselves in delivering High performance material handling solutions to companies in a very cost-effective manner.

Our solutions are backed by more than 17 years' experience & insights of our team and associates. This enables us to provide equipment that has been tailored to South African operating environment.

Our machines are, reliable, efficient, safe, environmentally friendly and cost effective.

We have a very strong “Can Do” culture in our team to serve customers which deservedly backs our performance claim of “You Drive, We strive”

M series introduction

The M series is the first generation forklifts, designed by the MAXIMAL engineering team. A world class design is featured as advanced technologies and superior componentry produced by competitive vendors over the world. The finished appearance with safety color design has attracted an audience in local and the world markets.

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.



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Ergonomic design



High quality



Safety operation



M Series 1.5-ton compact 4-wheel forklift

01/02



M SERIES 4.5-compact 5.0t diesel forklift

General	1	Model		FD45T-M1 WI3	FD50T-M1 WI3
	2	Type		Diesel	
	3	Optional type		W(1)3/G(10)3	
	4	Rated capacity		4500	5000
Characteristic&Dimension	5	Load centre		500	500
	6	Lift height		3000	3000
	7	Free lift height		150	155
	8	Fork size	L×W×T	1070×150×50	1070×150×55
	9	Fork regulating range	Min./Max.	300/1380	300/1380
	10	Mast tilt angle	F/R	6/12	6/12
	11	Front overhang		590	595
	12	Rear overhang		585	625
	13	Min. ground clearance(Bottom of mast)		175	175
	14	Overall dimensions	Length to face of fork (without fork)	3260	3310
	15		Overall width	1490	1490
	16		Mast lowered height	2265	2265
	17		Mast extended height(with backrest)	4230	4230
Performance	18	Overhead guard height		2265	2265
	19	Turning radius(outside)		2920	2960
	20	Min. right angle stacking aisle width (add load length and clearance)		2600	2630
	21	Speed	Travel(Unladen)	25	25
	22		Lifting(Laden)	515	515
Tyre	23		Lowering(Laden)	400	400
	24	Max. Drawbar pull(Laden)		23	23
	25	Max. Gradeability(Laden)		20	18
	26	Tyre	Front	300-15-18PR	
	27		Rear	7.00-12-12PR	
Weight	28	Tread	Front	1190	
	29		Rear	1130	
	30	Wheelbase		2100	
	31	Fuel tank capacity		120	
	32	Self weight		6500	6720
Power&Transmission	33	Weight Distribution	Laden	Front Axle	10320
	34			Rear Axle	1400
	35		Unladen	Front Axle	2960
	36			Rear Axle	3760
	37		Voltage/Capacity		2×12/60
	38		Manufacture		China
	39	Transmission	Type		Powershift
	40		Stage	F/R	2/1
	41	Operating pressure(For attachments)		MPa	19

M SERIES 4.5-compact 5.0t LPG forklift

General	1	Model		FL45T-M1 WE3	FL50T-M1 WE3
	2	Type		LPG	
	3	Optional type		/	
	4	Rated capacity		4500	5000
Characteristic&Dimension	5	Load centre		500	
	6	Lift height		3000	
	7	Free lift height		150	
	8	Fork size	L×W×T	1070×150×50	1070×150×55
	9	Fork regulating range	Min./Max.	300/1380	
	10	Mast tilt angle	F/R	6/12	
	11	Front overhang		590	595
	12	Rear overhang		585	625
	13	Min. ground clearance(Bottom of mast)		175	
	14	Overall dimensions	Length to face of fork (without fork)	3260	3310
	15		Overall width	1490	
	16		Mast lowered height	2265	
	17		Mast extended height(with backrest)	4230	
Performance	18	Overhead guard height		2265	
	19	Turning radius(outside)		2920	2960
	20	Min. right angle aisle width (add load length and clearance)		2600	2630
	21	Speed	Travel(Unladen)	22	
	22		Lifting(Laden)	440	
Tyre	23		Lowering(Laden)	400	
	24	Max. Drawbar pull(Laden)		23	
	25	Max. Gradeability(Laden)		18	15
	26	Tyre	Front	300-15-18PR	
	27		Rear	7.00-12-12PR	
Weight	28	Tread	Front	1190	
	29		Rear	1130	
	30	Wheelbase		2100	
	31	Self weight		6500	6720
	32	Weight Distribution	Laden	Front Axle	10320
Power&Transmission	33			Rear Axle	1400
	34		Unladen	Front Axle	2960
	35			Rear Axle	3760
	36		Voltage/Capacity		12/60
	37		Manufacture		China
	38	Transmission	Type		Powershift
	39		Stage	F/R	1/1
	40	Operating pressure(For attachments)		MPa	19



MITSUBISHI

Type: W13
Model: S6S(Eu III)
Rated output: 52kw/2450rpm
Rated torque: 250 N · m / 1600rpm
No. of cylinder:6
Bore × Stroke:94 × 120mm
Displacement:4.996L



DEUTZ

Type: W (1) 3
Model: TD2.9 L4 (Eu IV)
Rated output: 55.4kw/2600rpm
Rated torque: 260 N.m / 1800rpm
No. of cylinder: 4
Bore × Stroke: 92 × 101mm
Displacement: 2.9L



QUANCHAI

Type: G(10)3
Model: 4C5-82U32
Rated output: 60kw/2200rpm
Rated torque: 330 N.m / 1800rpm
No. of cylinder: 4
Bore × Stroke: 98 × 115mm
Displacement: 3.12L



PSI

Type: WE3
Model: PSI4.3L
Rated output: 63kw/2000rpm
Rated torque: 298 N.m / 1200rpm
No. of cylinder: 6
Bore × Stroke: 101.6 × 88.39mm
Displacement: 4.3L

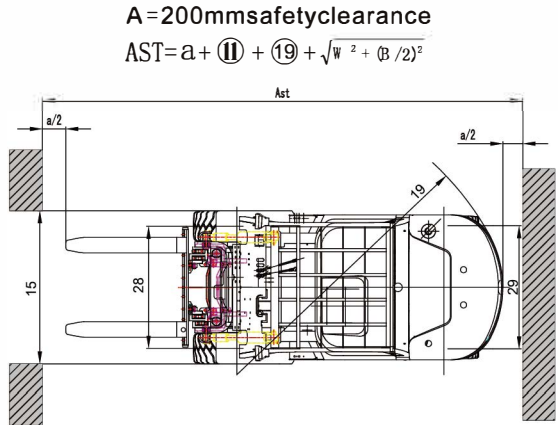
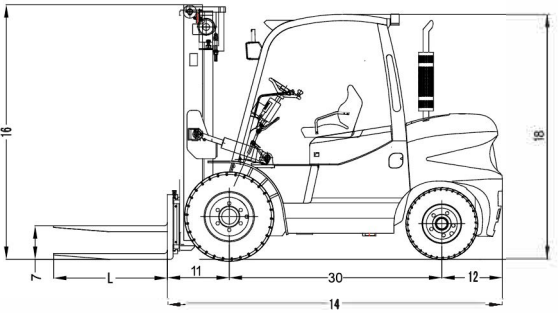
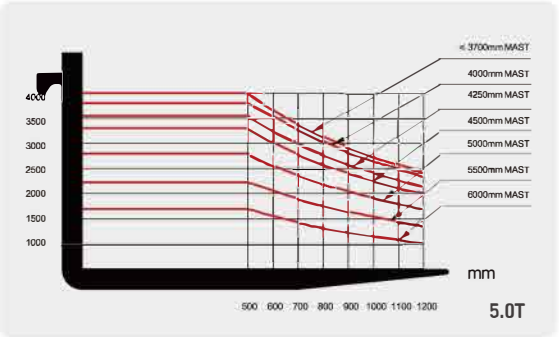
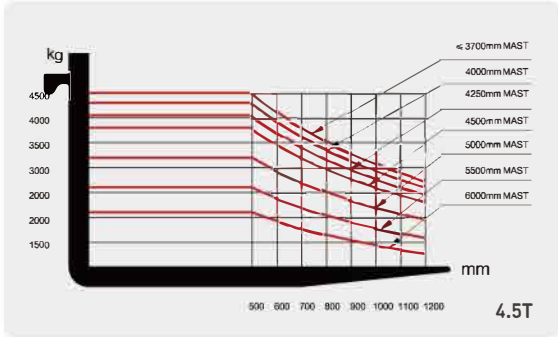
Diesel



LPG

M SERIES

4.5-compact 5.0t 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						Single tyre					
			4.5t	compact5t	4.5t	compact5t	4.5t	compact5t	4.5t	5t	4.5t	5t	4.5t	compact5t	Deg	Deg	4.5t	compact5t
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	Deg	Deg	kg	kg	
2-stage mast	M330	3300	2415	2415	4130	4130	4520	4520	150	155	150	155	590	595	6	12	4500	5000
	M350	3500	2515	2515	4330	4330	4720	4720	150	155	150	155	590	595	6	12	4500	5000
	M370	3700	2615	2615	4530	4530	4920	4920	150	155	150	155	590	595	6	12	4500	5000
	M400	4000	2815	2815	4830	4830	5220	5220	150	155	150	155	590	595	6	6	4300	4800
	M450	4500	3065	3065	5330	5330	5720	5720	150	155	150	155	590	595	6	6	3800	4200
	M500	5000	3315	3315	5830	5830	6220	6220	150	155	150	155	590	595	6	6	3200	3600
	M550	5500	3615	3615	6330	6330	6720	6720	150	155	150	155	590	595	3	6	2600	2950
Full free 2-stage mast	M600	6000	3865	3865	6830	6830	7220	7220	150	155	150	155	590	595	3	6	2100	2400
	FM300	3000	2385	2385	3840	3840	4220	4220	1545		1165		600	605	6	12	4500	5000
	FM330	3300	2535	2535	4140	4140	4520	4520	1695		1315		600	605	6	12	4500	5000
	FM350	3500	2635	2635	4340	4340	4720	4720	1795		1415		600	605	6	12	4500	5000
Full free 3-stage mast	TFM392	3920	2240	2240	4760	4760	5140	5140	1400		1020		630	635	6	6	4000	4500
	TFM435	4350	2385	2385	5190	5190	5570	5570	1545		1165		630	635	6	6	3800	4200
	TFM450	4500	2436	2436	5340	5340	5720	5720	1595		1216		630	635	6	6	3700	4100
	TFM480	4800	2535	2535	5640	5640	6020	6020	1695		1315		630	635	6	6	3400	3800
	TFM500	5000	2635	2635	5840	5840	6220	6220	1795		1415		630	635	6	6	3100	3500
	TFM540	5400	2760	2760	6240	6240	6620	6620	1920		1540		630	635	3	6	2500	2850
	TFM600	6000	3000	3000	6840	6840	7220	7220	2160		1780		630	635	3	6	2000	2300
	TFM650	6500	3215	3215	7340	7340	7720	7720	2375		1995		630	635	3	6	1500	1700





M SERIES 5.0-7.0t diesel forklift

General	1	Model		FD50T-M WJ3	FD70T-M WJ3
	2	Type		Diesel	
	3	Optional type		WL3/WY3/WF3/G(4)3	
	4	Rated capacity		kg	50007000
Characteristic&Dimension	5	Load centre		mm	600600
	6	Lift height		mm	30003000
	7	Free lift height		mm	195205
	8	Fork size	L×W×T	mm	1220×150×551220×150×65
	9	Fork regulating range	Min./Max.	mm	300/1845300/1845
	10	Mast tilt angle	F/R	Deg	6°/12°6°/12°
	11	Front overhang		mm	580590
	12	Rear overhang		mm	600740
	13	Min. ground clearance(Bottom of mast)		mm	200200
	14	Overall dimensions	Length to face of fork (without fork)	mm	34403580
	15		Overall width	mm	19951995
	16		Mast lowered height	mm	25002625
	17		Mast extended height(with backrest)	mm	43704370
	18	Overhead guard height		mm	24352435
Performance	19	Turning radius(outside)		mm	32503370
	20	Min. right angle stacking aisle width (add load length and clearance)		mm	29603040
	21	Speed	Travel(Laden/Unladen)	km/h	24/2624/26
	22		Lifting(Laden/Unladen)	mm/s	400/420380/400
	23		Lowering(Laden)	mm/s	500500
Tyre	24	Max. Drawbar pull(Laden)		KN	5349
	25	Max. Gradeability(Laden)		%	1517
	26	Tyre	Front		8.25-15-14PR8.25-15-14PR
	27		Rear		8.25-15-14PR8.25-15-14PR
	28	Tread	Front	mm	14701470
Weight	29		Rear	mm	17001700
	30	Wheelbase		mm	22502250
	31	Self weight		kg	80809450
	32	Weight Distribution	LadenFront Axle	kg	1125014150
	33		Rear Axle	kg	18302300
	34		UnladenFront Axle	kg	36404250
	35		Rear Axle	kg	44405200
Power&Transmission	36	BatteryVoltage/Capacity		V/Ah	2×12/80
	37	Manufacture			China
	38	TransmissionType			Powershift
	39	Stage	F/R		2/2
	40	Operating pressure(For attachments)		MPa	19.5

M SERIES 5.0-7.0t LPG forklift

General	1	Model		FL50T-M WE3	FL70T-M WE3
	2	Type		LPG	
	3	Optional type		/	
	4	Rated capacity		5000	7000
Characteristic&Dimension	5	Load centre		kg	600600
	6	Lift height		mm	30003000
	7	Free lift height		mm	195205
	8	Fork size	L×W×T	mm	1220×150×551220×150×65
	9	Fork regulating range	Min./Max.	mm	300/1845300/1845
	10	Mast tilt angle	F/R	Deg	6°/12°6°/12°
	11	Front overhang		mm	580590
	12	Rear overhang		mm	600740
	13	Min. ground clearance(Bottom of mast)		mm	200200
	14	Overall dimensions	Length to face of fork (without fork)	mm	34403580
	15		Overall width	mm	19951995
	16		Mast lowered height	mm	25002625
	17		Mast extended height(with backrest)	mm	43704370
	18	Overhead guard height		mm	24352435
Performance	19	Turning radius(outside)		mm	32503370
	20	Min. right angle aisle width (add load length and clearance)		mm	29603040
	21	Speed	Travel(Laden/Unladen)	km/h	19/2019/20
	22		Lifting(Laden/Unladen)	mm/s	400/420380/400
	23		Lowering(Laden)	mm/s	500500
Tyre	24	Max. Drawbar pull(Laden)		KN	5352
	25	Max. Gradeability(Laden)		%	1515
	26	Tyre	Front		8.25-15-14PR8.25-15-14PR
	27		Rear		8.25-15-14PR8.25-15-14PR
	28	Tread	Front	mm	14701470
Weight	29		Rear	mm	17001700
	30	Wheelbase		mm	22502250
	31	Self weight		kg	80809450
	32	Weight Distribution	LadenFront	kg	1125014150
	33		Rear	kg	18302300
	34		UnladenFront	kg	36404250
	35		Rear	kg	44405200
Power&Transmission	36	BatteryVoltage/Capacity		V/Ah	2×12/60
	37	Manufacture			China
	38	TransmissionType			Hyd
	39	Stage	F/R		2/2
	40	Operating pressure(For attachments)		MPa	19.5





MITSUBISHI

Type: WJ3
Model: S6S-T(EuIIIA)
Rated output: 63.9kw/
2300kw/rpm
Rated torque: 293N·m/1700rpm
No. of cylinder:6
Bore × Stroke:94 × 120mm
Displacement:4.996L



DEUTZ

Type: WY3
Model: TCD3.6L4 (Eu IV)
Rated output: 55.4kw/2300rpm
Rated torque: 390 N · m/
1300rpm
No. of cylinder: 4
Bore × Stroke: 98x120mm
Displacement: 6.494L



ISUZU

Type: WF3
Model: 6BG1QC
Rated output: 82kw/2000rpm
Rated torque: 416N.m/
1400-1600rpm
No. of cylinder: 6
Bore × Stroke: 105x125mm
Displacement: 6.494L



CHAOCHAI

Type: G(4)3
Model: CY6BG332
Rated output: 85kw/2200rpm
Rated torque: 450N.m/
1400-1800rpm
No. of cylinder: 6
Bore × Stroke: 102x118mm
Displacement: 5.785L



CUMMINS

Type: WL3
Model: QSB4.5(EuIIIA)
Rated output: 90.9kw/2200rpm
Rated torque: 488 N.m /
1500rpm
No. of cylinder: 4
Bore × Stroke: 107 × 124mm
Displacement: 4.5L



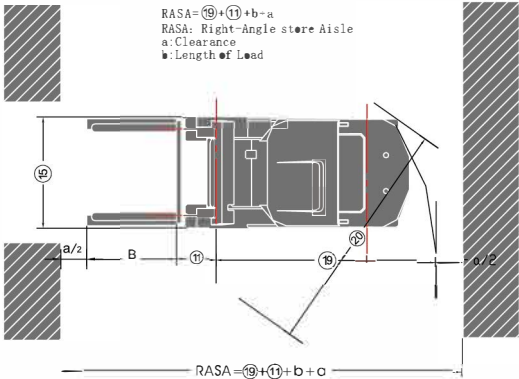
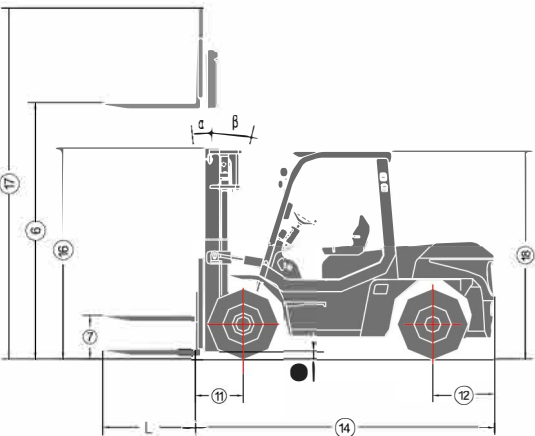
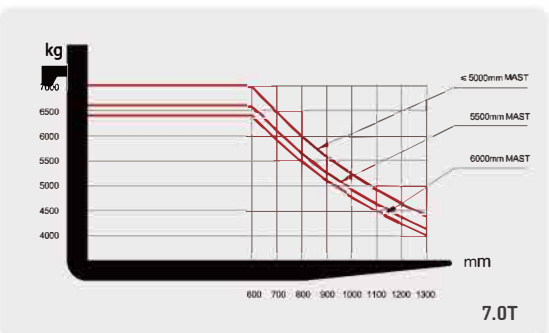
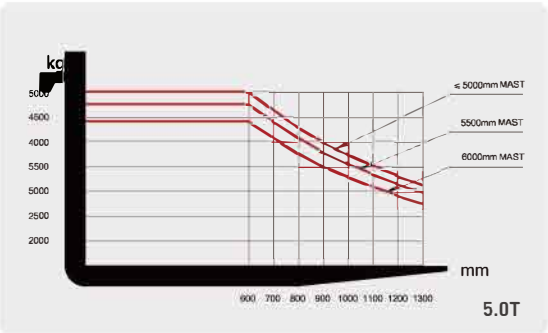
PSI

Type: WE3
Model: PSI4.3L
Rated output: 63kw/2000rpm
Rated torque: 298 N.m /
1200rpm
No. of cylinder: 6
Bore × Stroke: 101.6 × 88.39mm
Displacement: 4.3L

Diesel



LPG



M SERIES 5.0-7.0t 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 600mm	
					Without backrest		With backrest						Double tyre						
			5t	7t	5t	7t	5t	7t	5t	7t	5t	7t	5t	7t	5t	7t	5t	7t	5t-7t
		mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	Deg	Deg		kg	kg	
2-stage mast	M350	3500	2750	2875	4400	4500	4870	4870	195	205	195	205	580	590	6	12	5000	7000	
	M400	4000	3050	3175	4900	5000	5370	5370	195	205	195	205	580	590	6	12	5000	7000	
	M450	4500	3300	3425	5400	5500	5870	5870	195	205	195	205	580	590	6	12	5000	7000	
	M500	5000	3550	3675	5900	6000	6370	6370	195	205	195	205	580	590	6	6	5000	7000	
	M550	5500	3850	3975	6400	6500	6870	6870	195	205	195	205	580	590	3	6	4750	6600	
	M600	6000	4100	4225	6900	7000	7370	7370	195	205	195	205	580	590	3	6	4400	6400	
Full free 2-stage mast	FM300	3000		2625		4050		4370		1575		1255		587	597	6	12	5000	7000
	FM330	3300		2775		4350		4670		1725		1405		587	597	6	12	5000	7000
	FM350	3500		2875		4550		4870		1825		1500		587	597	6	12	5000	7000
Full free 3-stage mast	FM400	4000		3175		5050		5370		2125		1800		587	597	6	12	5000	7000
	TFM435	4350		2630		5350		5720		1630		1260		625	635	6	6	4500	6200
	TFM480	4800		2780		5800		6170		1780		1410		625	635	6	6	4500	6200
	TFM500	5000		2880		6000		6370		1880		1510		625	635	3	6	4500	6200
	TFM540	5400		3005		6400		6770		2005		1630		625	635	3	6	4400	6000
	TFM600	6000		3305		7000		7370		2305		1930		625	635	3	6	4200	5500
	TFM650	6500		3530		7500		7870		2530		2155		625	635	6	3	3900	5100





M SERIES 8.0-compact 12t diesel forklift

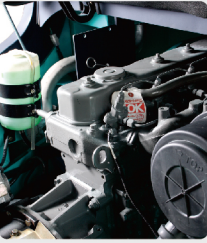
General	1	Model			FD80T-M	FD100T-M	FD120T-MX	
	2	Type			Diesel			
	3	Optional type			WF3/WL3/G(4)3		WQ3	
	4	Rated capacity			8000	10000	12000	
Characteristic&Dimension	5	Load centre		kg	600	600	600	
	6	Lift height		mm	3000	3000	3000	
	7	Free lift height			210	210	210	
	8	Fork size	L×W×T	mm	1220×175×80	1220×175×80	1220×175×83	
	9	Fork regulating range	Min./Max.	mm	340/1970	435/2100	435/2115	
	10	Mast tilt angle	F/R	Deg	6°/12°	6°/12°	6°/12°	
	11	Front overhang		mm	718	718	820	
	12	Rear overhang		mm	740	740	790	
	13	Min. ground clearance(Bottom of mast)		mm	250	250	275	
	14		Length to face of fork (without fork)	mm	4260	4260	4610	
	15	Overall dimensions	Overall width	mm	2248	2248	2250	
	16		Mast lowered height	mm	2850	2850	3015	
	17		Mast extended height(with backrest)	mm	4230	4230	4470	
	18		Overhead guard height	mm	2563	2563	2630	
	19	Turning radius(outside)		mm	3700	3900	4200	
	Performance	20	Min.right angle aisle width (add load length and clearance)		mm	3540	3540	3850
		21	Speed	Travel(Unladen)	km/h	26/28	26/28	23/26
		22		Lifting(Laden)	mm/s	310	310	340
		23		Lowering(Laden)	mm/s	400	400	360
24		Max. Drawbar pull(Laden/unladen)		KN	58	58	58	
Tyre	25	Max. Gradeability(Laden)		%	20	20	23	
	26	Tyre	Front		9.00-20-14PR	9.00-20-14PR	10.00-20-18PR	
	27		Rear		9.00-20-14PR	9.00-20-14PR	10.00-20-18PR	
	28	Tread	Front	mm	1600	1600	1640	
	29		Rear	mm	1700	1700	1880	
Weight	30	Wheelbase		mm	2800	2800	3000	
	31	Self weight		kg	11520	12830	15750	
	32	Weight Distribution	Laden	Front Axle	kg	17200	20380	25080
	33			Rear Axle	kg	2320	2220	2670
	34		Unladen	Front Axle	kg	5100	5700	7400
	35			Rear Axle	kg	6420	6900	8350
Power&Transmission	36	Battery	Voltage/Capacity		V/Ah	2×12/80	2×12/80	2×12/80
	37	Transmission	Manufacture			China	China	China
	38		Type			Powershift	Powershift	Powershift
	39		Stage	F/R		2/2	2/2	2/2
	40	Operating pressure(For attachments)		MPa	19.5	19.5	21	

M SERIES 8.0-10.0t mast

Type	Model	Max. fork height	Overall height				Free lift				Front Overhang		Tilt range		Capacity	
			Lowered		Extended		Without backrest		with backrest						load capacity at 600mm	
											Without backrest		With backrest			
			8t	10t	Without backrest	With backrest	8t	10t	8t	10t	8t	10t	Deg	Deg	8t	10t
		mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	Deg	Deg	kg	kg	
2-stage mast	M350	3500	3100	3100	4730	—	210	210	—	—	718	718	6	12	8000	10000
	M400	4000	3400	3400	5230	—	210	210	—	—	718	718	6	12	8000	10000
	M500	5000	3900	3900	6230	—	210	210	—	—	718	718	6	6	7750	10000
	M550	5500	4200	4200	6730	—	210	210	—	—	718	718	3	6	7400	9000
	M600	6000	4450	4450	7230	—	210	210	—	—	718	718	3	6	7000	8000
Full free 3-stage mast	TFM450	4500	2900	2900	5780	—	1540	1540	—	—	783	783	6	12	7400	9300
	TFM480	4800	3000	3000	6080	—	1640	1640	—	—	783	783	6	6	6900	8700
	TFM500	5000	3100	3100	6280	—	1740	1740	—	—	783	783	6	6	6750	8700
	TFM540	5400	3225	3225	6680	—	1865	1865	—	—	783	783	3	6	6400	8000
	TFM600	6000	3525	3525	7280	—	2165	2165	—	—	783	783	3	6	6000	7000

M SERIES compact 12t mast

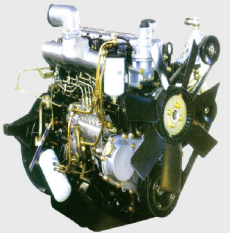
Type	Model	Max. fork height	Overall height			Free lift		Front Overhang	Tilt range		Capacity
			Lowered	Extended		Without backrest	with backrest		FWD	BWD	load capacity at 600mm
				X12t	Without backrest						With backrest
			X12t	X12t	X12t	X12t	X12t	Deg	Deg	X12t	
		mm	mm	mm	mm	mm	mm	mm	Deg	Deg	kg
2-stage mast	M350	3500	3265	4970	—	213	—	820	6	12	12000
	M400	4000	3565	5470	—	213	—	820	6	12	12000
	M450	4500	3815	5970	—	213	—	820	6	12	12000
	M500	5000	4065	6470	—	213	—	820	6	6	11500
	M550	5500	4365	6970	—	213	—	820	3	6	10500
	M600	6000	4615	7470	—	213	—	820	3	6	9500
Full free 2-stage mast	TFM450	4500	3065	6010	—	1540	—	873	6	12	11500
	TFM480	4800	3165	6310	—	1640	—	873	6	6	10500
	TFM500	5000	3265	6510	—	1740	—	873	6	6	10500
	TFM540	5400	3405	6910	—	1865	—	873	3	6	10000
	TFM600	6000	3675	7510	—	2165	—	873	3	6	9000



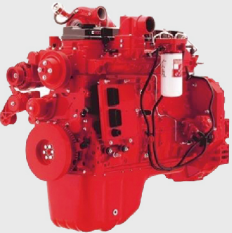
ISUZU
Type: WF3
Model: 6BG1QC
Rated output: 82kw/2000rpm
Rated torque: 416N.m/
1400-1600rpm
No. of cylinder: 6
Bore × Stroke: 105x125mm
Displacement: 6.494L



CUMMINS
Type: WL3
Model: QSB4.5-C110(EuIIIA)
Rated output: 80.9kw/2200rpm
Rated torque: 488 N.m /
1500rpm
No. of cylinder: 4
Bore × Stroke: 107 × 124mm
Displacement: 4.5L



CHAOCHAI
Type: G(4)3
Model: CY6BG332-38
Rated output: 85kw/2200rpm
Rated torque: 450N.m/
1400-1800rpm
No. of cylinder: 6
Bore × Stroke: 102x118mm
Displacement: 5.785L



CUMMINS
Type: WQ3
Model: QSB4.5-C130(EuIIIA)
Rated output: 97kw/2200rpm
Rated torque: 622 N.m/
1500rpm
No. of cylinder: 4
Bore × Stroke: 107 × 124mm
Displacement: 4.5L

