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M SERIES ROUGH TERRAIN FORKLIFT
FD18T/FD25T/FD35T/FD50T

Load Capacity 1,800KG/2,500KG/3,500KG/5,500KG





Maximal Rough Terrain Forklift Introduction



2WD

Strong flexibility
in rough terrain

100% differential lock.

Oil-immersed Braking and
Auto parking greatly extended
service life improve working
efficiency.

4WD

Superior performance
in extreme conditions





Maximal Rough Terrain Forklift Introduction

Engine

World renowned brands engine for superior performance.

mitsubishi S4S

Rated output 35.3kw/2250rpm >

Rated torque 182N.m/1800rpm >



YANMAR 4TNE98

Rated output 42.1 kw/2300rpm >

Rated torque 196.3Nm/1700rpm >



ISUZU 6BG1QC

Rated output 82kw/2000rpm >

Rated torque 416N.m/1400-1600rpm >



MITSUBISHI D04EG

Rated output 36kw/2250rpm >

Rated torque 177N.m/1800rpm >



KU BOTA v2403(EuV+Tier4)

Rated output 43.2kw/2600rpm >

Rated torque 198N.m/1500rpm >



KU BOTA WG3800(EuV)

Rated output 54.6kw/2400rpm >

Rated torque GAS 246.8N.m/1500rpm >



KU BOTA V2607 (EUV)

Rated output 48kw/2400rpm >

Rated torque 225N.m/1500rpm >



Floating System

A superior full floating overhead guard 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.



Fully Sealed Oil-Bath Protection Wet Brakes (4WD)

Brake components operate submerged in oil, shielding them from mud, dust, and water. This eliminates performance fade caused by contamination meanwhile extending service life.



High Quality Tyres

Industrial tyres with a wide footprint giving it greater stability and lift capacity in rough work environments.



High Ground Clearance

Offer greater maneuverability and keep the machine moving in in roughest of applications.



Auto Parking Brake (4WD)

The system automatically engages the brake when the vehicle stops, preventing rollback on slopes. streamlining loading/unloading and short waiting processes to enhance overall workflow

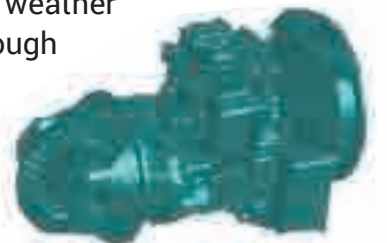
Upward Steering Cylinder (4WD)

Lay the steering cylinder upward to make the turning radius smaller and rear wheel steering angle bigger.



100% Differential Lock (2WD)

Power shift transmission with jaw type 100% differential lock provides ultimate traction during inclement weather conditions and rough operating surfaces.





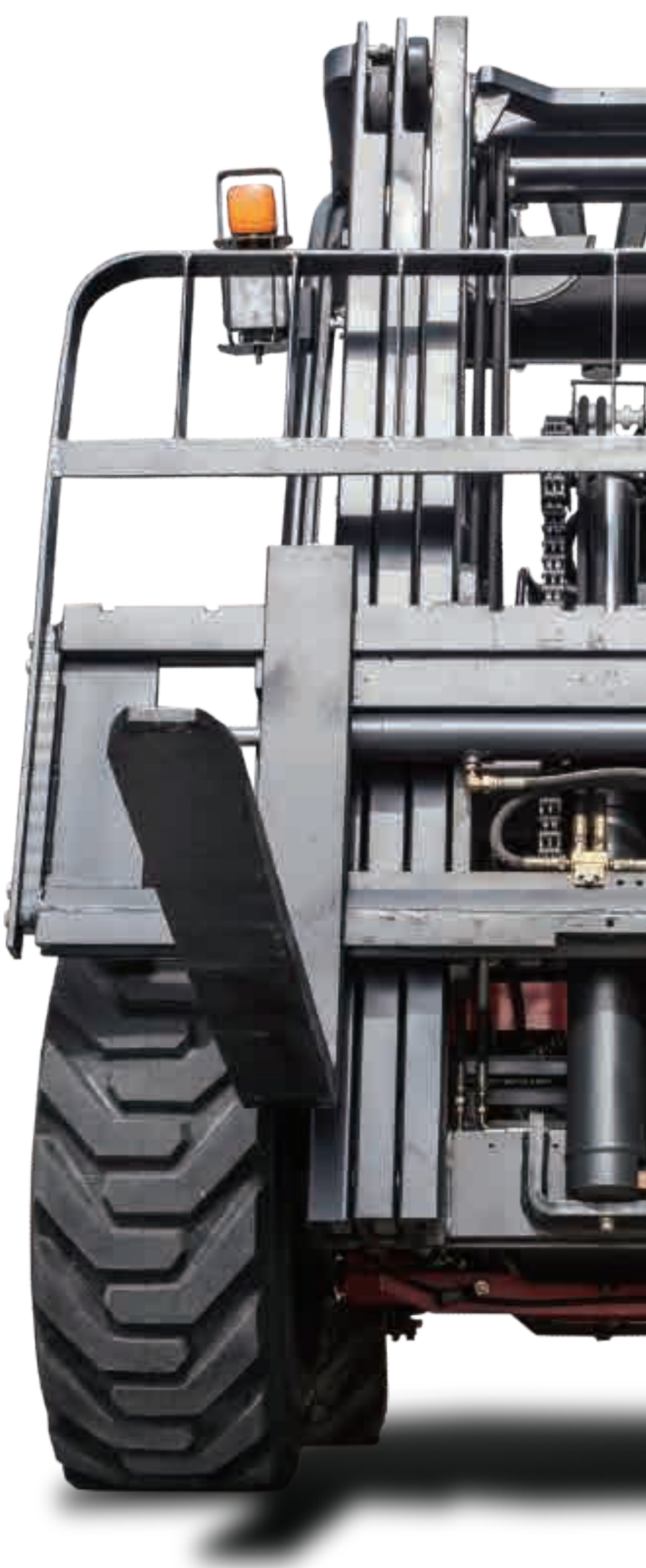
Our Solution,Your Decision

Body

2WD				4WD			
YES ● /NO ●	1.8T	2.5T	3.5T	5T	1.8T	2.5T	3.5T
Floated Overhead Guard	●				●		
4WD-2WD Rocker Switch	—				●		
Industrial Tyres(F/R)	● / ●	● / ●	● / ●	● / ●	● / ●	● / ●	● / ●
Suspension Pedal	●				●		
Truck Width(mm)	1450	1557.5	1600	2067	1450	1450	1600
Loaded into 20GP Container	●	●	●	●	●	●	●
External Type Steering Cylinder	●				●		
With Prefilter	●				●		
LED Lights	Standard				Standard		
Safety Start System*	Standard				Standard		
Suspension Seat	Option				Option		
OPS system	Option				Option		
Wet Brake Axle&Auto-Parking	●				Option		
Engine	YANMAR 4TNE98/MITSUBISHI S4S		YANMAR 4TNE98	ISUZU 6BG1QC	YANMAR 4TNE98 /MITSUBISHI S4S /MITSUBISHI D04EG		
Gradeability	20%	20%	16%	30%	80%/60%	50%	45%
Gradient	11.3°	11.3°	9°	16.7°	38.6°/31°	26.5°	24.2°
Min.Turning Radius(mm)	2840	2870	2870	3550	3120	3120	3120
Transmission Model	Hydraulic				Hydraulic		
Differential Lock Type	Jaw Type Differential Lock				Limited Slip Differential Lock		
Differential Ratio	100%				45%		

Performance

Safety Start System*The truck can't start if any below:1-operator leaves the seat,2-seatbelt unfastened,3-hand brake released,4-not in N positon.



Forklift Specification

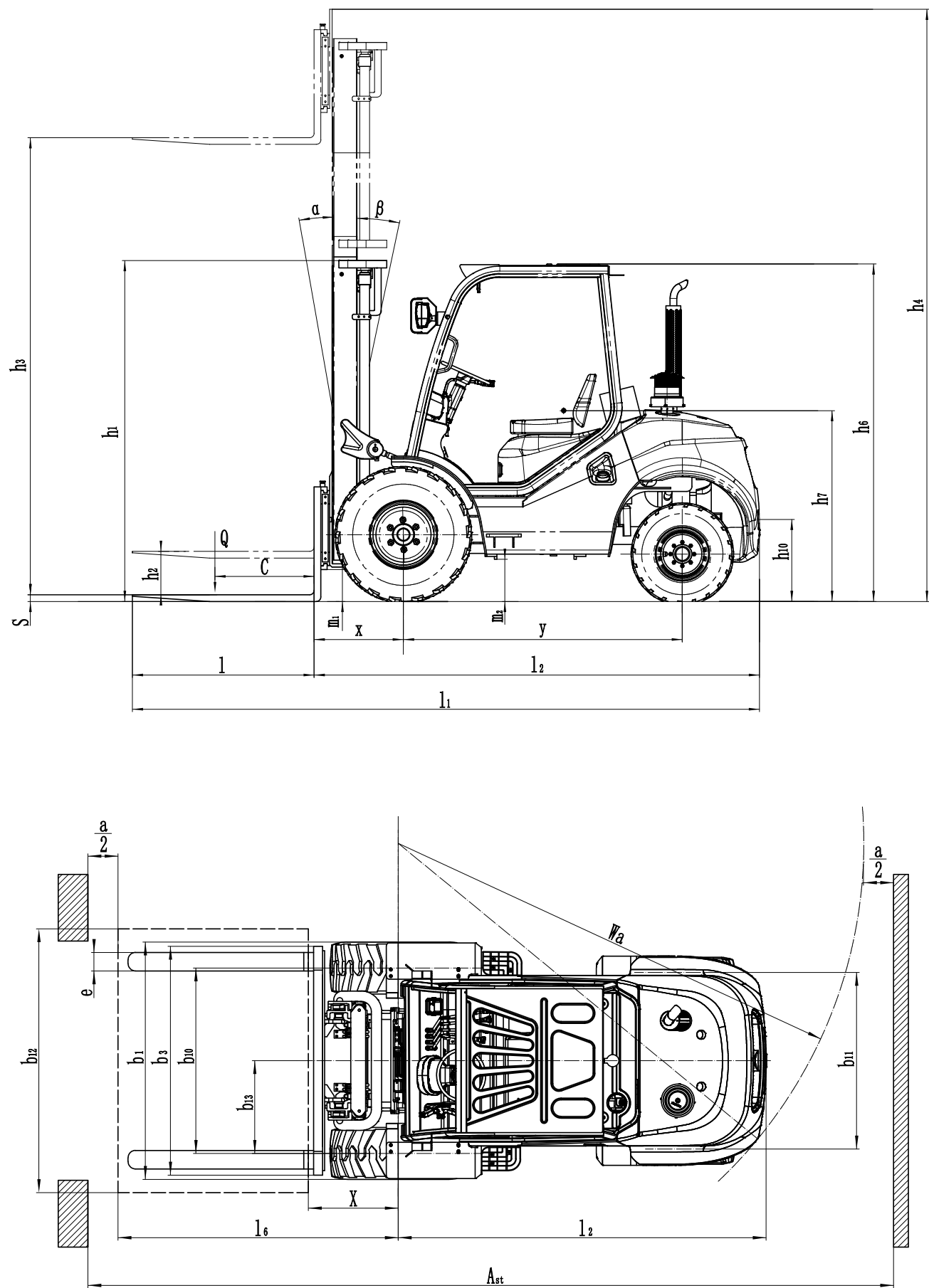
2WD 1.8T/2.5T/3.5T/5.0T

Distinguishing mark	1.1	Manufacturer		HYM	HYM	HYM	HYM	HYM	HYM	HYM	HYM	HYM	HYM	HYM	
	1.2	Manufacturer's type designation		FD18T-C2WE3	FD18T-C2WV3	FD18T-C2W(14)3	FD25T-C2WE3	FD25T-C2WV3	FD25T-C2W(14)3	FD35T-C2WE3	FD35T-C2WV3	FD35T-C2W(14)3	FD50T-C2W(3)3	FD50T-C2WF3	FD50T-C2W(13B)3
	1.3	Drive:		DIESEL	DIESEL	DIESEL	DIESEL	DIESEL	DIESEL	DIESEL	DIESEL	DIESEL	DIESEL	DIESEL	DIESEL
	1.4	Operator type:		SEAT	SEAT	SEAT	SEAT	SEAT	SEAT	SEAT	SEAT	SEAT	SEAT	SEAT	SEAT
	1.5	Rated capacity/rated load	Q (kg)	1800	1800	1800	2500	2500	2500	3500	3500	3500	5000	5000	5000
	1.6	Load centre distance	c (mm)	500	500	500	500	500	500	500	500	500	600	600	600
	1.8	Load distance, centre of drive axle to fork	x (mm)	509	509	509	585	585	585	600	600	600	732	732	732
	1.9	Wheelbase	y (mm)	1880	1880	1880	1880	1880	1880	1880	1880	1880	2125	2125	2125
	Weight	2.1	Service weight	kg	3845	3845	3890	4465	4465	4510	5180	5180	5225	8450	8450
2.2		Axle loading, laden front/rear	kg	4968/677	4968/677	5007/683	6129/836	6129/836	6169/841	7638/1042	7638/1042	7678/1047	12105/1345	12105/1345	12105/1345
2.3		Axle loading, unladen front/rear	kg	1538/2307	1538/2307	1556/2334	1785/2680	1785/2680	1804/2706	2070/3110	2070/3110	2090/3135	3800/4650	3800/4650	3800/4650
Tyres, chassis	3.1	Tyres: Solid rubber, superelastic, pneumatic, polyurethane		pneumatic	pneumatic	pneumatic	pneumatic	pneumatic	pneumatic	pneumatic	pneumatic	pneumatic	pneumatic	pneumatic	pneumatic
	3.2	Tyre size, front		12-16.5-12PR	12-16.5-12PR	12-16.5-12PR	12-16.5-12PR	12-16.5-12PR	12-16.5-12PR	14-17.5-14PR	14-17.5-14PR	14-17.5-14PR	445/65-22.5-18PR	445/65-22.5-18PR	445/65-22.5-18PR
	3.3	Tyre size, rear		27X10.5-15-14PR	27X10.5-15-14PR	27X10.5-15-14PR	27X10.5-15-14PR	27X10.5-15-14PR	27X10.5-15-14PR	27X10.5-15-14PR	27X10.5-15-14PR	27X10.5-15-14PR	12.5/80-18-12PR	12.5/80-18-12PR	12.5/80-18-12PR
	3.5	wheels, number front/rear		2x2	2x2	2x2	2x2	2x2	2x2	2x2	2x2	2x2	2x2	2x2	2x2
	3.6	Tread, front	b10 (mm)	1125	1125	1125	1250	1250	1250	1250	1250	1250	1620	1620	1620
	3.7	Tread, rear	b11 (mm)	1185	1185	1185	1205	1205	1205	1205	1205	1205	1720	1720	1720
	Dimensions	4.1	Tilt of mast/fork carriage, forward /backward	α /β (°)	10/12	10/12	10/12	10/12	10/12	10/12	10/12	10/12	10/12	15/15	15/15
4.2		Height, mast lowered	h1 (mm)	2148	2148	2148	2235	2235	2235	2330	2330	2330	2565	2565	2565
4.3		Free lift	h2 (mm)	105	105	105	160	160	160	165	165	165	145	145	145
4.4		Lift	h3 (mm)	3000	3000	3000	3000	3000	300	3000	3000	300	3000	3000	3000
4.5		Height, mast extended	h4 (mm)	4170	4170	4170	4180	4180	4180	4305	4305	4305	4515	4515	4515
4.7		Height of overhead guard(cabin)	h6 (mm)	2256	2256	2256	2256	2256	2256	2276	2276	2276	2545	2545	2545
4.8		Seat height/stand height	h7 (mm)	1270	1270	1270	1270	1270	1270	1290	1290	1290	1530	1530	1530
4.12		Towing coupling height	h10 (mm)	385	385	385	385	385	385	385	385	385	430	430	430
4.19		Overall length	l1 (mm)	3980	3980	3980	4060	4060	4060	4071	4071	4071	4837	4837	4837
4.20		Length to face of forks	l2 (mm)	2910	2910	2910	2990	2990	2990	3001	3001	3001	3617	3617	3617
4.21		Overall width	b1 (mm)	1440	1440	1440	1557	1557	1557	1600	1600	1600	2067	2067	2067
4.22		Fork dimensions ISO2331	s/e/l (mm)	35/100/1070	35/100/1070	35/100/1070	40/122/1070	40/122/1070	40/122/1070	45/122/1070	45/122/1070	45/122/1070	55/150/1220	55/150/1220	55/150/1220
4.23		Fork carriage ISO 2328. Class/type, A/B		ISO 2	ISO 2	ISO 2	ISO 2	ISO 2	ISO 2	ISO 3	ISO 3	ISO 3	ISO 4	ISO 4	ISO 4
4.24		Fork carriage width	b3 (mm)	1350	1350	1350	1200	1200	1200	1200	1200	1200	2000	2000	2000
4.31		Ground clearance, laden, below mast	m1 (mm)	250	250	250	250	250	250	250	250	250	290	290	290
4.32		Ground clearance, centre of wheelbase	m2 (mm)	235	235	235	235	235	235	265	265	265	360	360	360
4.33		Load dimension b 12*/6 crossways	b12 × l6 (mm)	1000*1200	1000*1200	1000*1200	1000*1200	1000*1200	1000*1200	1000*1200	1000*1200	1000*1200	1000*1200	1000*1200	1000*1200
4.34		Aisle width with predetermined load dimensions	Ast (mm)	4579	4579	4579	4655	4655	4655	4670	4670	4670	5482	5482	5482
4.34.1		Aisle width with pallets 1000mm x 1200mm crossways	Ast (mm)	4579	4579	4579	4655	4655	4655	4670	4670	4670	5482	5482	5482
4.34.2		Aisle width with pallets 800mm x 1200mm lengthways	Ast (mm)	4779	4779	4779	4855	4855	4855	4870	4870	4870	5682	5682	5682
4.35	Turning radius	Wa (mm)	2870	2870	2870	2870	2870	2870	2870	2870	2870	3550	3550	3550	
Performance data	4.36	Internal turning radius	b13	1087	1087	1087	1126	1126	1126	1126	1126	1126	1515	1515	1515
	5.1	Travel speed, laden/unladen	km/h	20/20	18/19	21/21	20/20	18/19	20/21	21/21	18/19	20/21	19/20	21/21	21/21
	5.1.1	Travel speed, laden/unladen, backwards	km/h	19/19	18/19	21/21	19/20	18/19	20/21	20/21	18/19	20/21	17/17	17/17	17/17
	5.2	Lifting speed, laden/unladen	mm/s	610/630	590/610	610/630	570/600	480/510	540/570	485/510	385/415	430/460	450/480	430/460	425/500
	5.3	Lowering speed laden/unladen	mm/s	450/480	450/480	450/480	450/410	450/410	450/410	450/410	450/410	450/410	450/410	450/410	450/410
	5.6	Max. drawbar pull laden/unladen	N	15000/15000	14000/14000	17000/17000	17000/17000	14000/14000	18000/18000	16000/16000	14000/14000	17000/17000	30000/30000	42000/42000	33000/33000
	5.7	Gradeability, laden/unladen	%	28/40	25/35	30/35	22/37	18/30	20/35	16/28	14/25	17/30	20/30	35/35	20/30
	5.9	Acceleration time, laden/unladen	sec	with load:4.67 without load:4.04	with load:5.06 without load:4.15	with load:4.46 without load:3.64	with load:4.96 without load:4.24	with load:5.35 without load:4.35	with load:4.75 without load:3.84	with load:5.37 without load:4.58	with load:5.76 without load:4.73	with load:5.12 without load:4.19	with load:5.6(S1) / 5.3(S2) without load:5.1(S1) / 4.8 (S2)	with load:5.27(S1) / 5.04(S2) without load:4.7(S1) / 4.39(S2)	with load:4.8(S1) / 4.3(S2) without load:4.7(S1) / 4.01SS2)
	5.10	Service brake		Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic
	Combustion-engine	7.1	Engine manufacturer/type		Yanmar 4TNE98-BQFLC	Mitsubishi S4S-455	Kubota V2607	Yanmar 4TNE98-BQFLC	Mitsubishi S4S-455	Kubota V2607	Yanmar 4TNE98-BQFLC	Mitsubishi S4S-455	Kubota V2607	DEUTZ TCD3.6T	ISUZU 6BG1
7.2		Engine power according to DIN ISO 1585	Kw	42.1	35.5	48	42.1	35.5	48	42.1	35.5	48	55.4	82.4	55.4
7.3		Rated speed	min-1	2300	2300	2400	2300	2300	2400	2300	2300	2400	2300	2000	2200
7.4		Number of cylinders/displacement	(-)/(cm3)	4/3.319	4/3.331	4/2.615	4/3.319	4/3.331	4/2.615	4/3.319	4/3.331	4/2.615	4/3.621	6/6.494	4/3.769
7.5		Fuel consumption according to VDI cycle	l/h or kg/h	4.52kg/h	3.12kg/h	4.51kg/h	4.52	3.12kg/h	4.51kg/h	6.12kg/h	4.08kg/h	5.64kg/h	7.8kg/h	8.6kg/h	6.2kg/h
7.6		Turnover output	t/h	212	201	214	223	212	225	262	254	268	333	460	350
7.7		Energy consumption at turnover output	l/h or kg/h	5.8kg/h	4.6kg/h	5.8kg/h	6.1kg/h	4.9kg/h	5.1kg/h	6.6kg/h	5.8kg/h	5.64kg/h	8.04kg/h	9.5kg/h	8.2kg/h
7.8		Generator	A	40	50	60	40	50	60	40	50	60	55	25	100
7.9		Vehicle electrical system voltage	V	12	12	12	12	12	12	12	12	12	24	24	12
7.10		Battery voltage/nominal capacity	(V)/(Ah)	12/90	12/90	12/93	12/90	12/90	12/93	12/90	12/90	12/93	24/180	24/180	12/120
Additional data	8.1	Type of drive unit		Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic
	10.1	Operating pressure for attachments	bar	140	140	140	140	140	140	140	140	140	150	150	150
	10.2	Oil volume for attachments	l/min	70	60	70	70	70	70	70	70	70	120	120	120
	10.4	Fuel tank capacity	L	55	55	55	55	55	55	55	55	55	80	80	80
	10.7	Sound pressure level at the driver's seat	dB (A)	85.2	84.8	84.3	85.2	84.8	84.3	85.2	84.8	84.3	88	88	84.3
	10.7.1	Sound power level during the workcycle	dB (A)	97.8	101.4	99.2	97.8	101.4	99.2	97.8	101.4	99.2	104	99	98.9
	10.8	Towing coupling, type DIN 15170		PIN	PIN	PIN	PIN	PIN	PIN	PIN	PIN	PIN	PIN	PIN	PIN

Forklift Specification

4WD 1.8T/2.5T/3.5T

Distinguishing mark	1.1	Manufacturer		HYM	HYM	HYM	HYM	HYM	HYM	HYM	HYM	HYM	HYM	HYM	HYM	HYM	HYM	HYM	
	1.2	Manufacturer's type designation		FD18T-C4WE3	FD18T-C4WV3	FD18T-C4W(6)3	FD18T-C4W(9A)3	FD18T-C4W(14A)3	FD25T-C4WE3	FD25T-C4WV3	FD25T-C4W(6)3	FD25T-C4W(9A)3	FD25T-C4W(14A)3	FD35T-C4WE3	FD35T-C4WV3	FD35T-C4W(6)3	FD35T-C4W(9A)3	FD35T-C4W(14A)3	
	1.3	Drive:		DIESEL	DIESEL	DIESEL	DIESEL	DIESEL	DIESEL	DIESEL	DIESEL	DIESEL	DIESEL	DIESEL	DIESEL	DIESEL	DIESEL	DIESEL	
	1.4	Operator type:		SEAT	SEAT	SEAT	SEAT	SEAT	SEAT	SEAT	SEAT	SEAT	SEAT	SEAT	SEAT	SEAT	SEAT	SEAT	
	1.5	Rated capacity/rated load	Q (kg)	1800	1800	1800	1800	1800	2500	2500	2500	2500	2500	3500	3500	3500	3500	3500	
	1.6	Load centre distance	c (mm)	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	
	1.8	Load distance, centre of drive axle to fork	x (mm)	509	509	509	509	509	585	585	585	585	585	600	600	600	600	600	
	1.9	Wheelbase	y (mm)	1880	1880	1880	1880	1880	1880	1880	1880	1880	1880	1880	1880	1880	1880	1880	
	2.1	Service weight	kg	4255	4255	4255	4255	4290	4830	4830	4830	4830	4870	5550	5550	5550	5550	5590	
2.2	Axle loading, laden front/rear	kg	5268	5268/787	5268/787	5268/787	5298/792	6377/953	6377/953	6377/953	6377/953	6412/958	7873/1177	7873/1177	7873/1177	7873/1177	7908/1182		
2.3	Axle loading, unladen front/rear	kg	1915/2340	1915/2340	1915/2340	1915/2340	1930/2360	2173/2657	2173/2657	2173/2657	2173/2657	2192/2678	2498/3052	2498/3052	2498/3052	2498/3052	2515/3075		
Tyres, chassis	3.1	Tyres: Solid rubber, superelastic, pneumatic, polyurethane		pneumatic	pneumatic	pneumatic	pneumatic	pneumatic	pneumatic	pneumatic	pneumatic	pneumatic	pneumatic	pneumatic	pneumatic	pneumatic	pneumatic	pneumatic	
	3.2	Tyre size, front		12-16.5-12PR	12-16.5-12PR	12-16.5-12PR	12-16.5-12PR	12-16.5-12PR	12-16.5-12PR	12-16.5-12PR	12-16.5-12PR	12-16.5-12PR	14-17.5-14PR	14-17.5-14PR	14-17.5-14PR	14-17.5-14PR	14-17.5-14PR	14-17.5-14PR	
	3.3	Tyre size, rear		10.0/75-15.3-12PR	10.0/75-15.3-12PR	10.0/75-15.3-12PR	10.0/75-15.3-12PR	10.0/75-15.3-12PR	10.0/75-15.3-12PR	10.0/75-15.3-12PR	10.0/75-15.3-12PR	10.0/75-15.3-12PR	10.0/75-15.3-12PR	10.0/75-15.3-12PR	10.0/75-15.3-12PR	10.0/75-15.3-12PR	10.0/75-15.3-12PR	10.0/75-15.3-12PR	
	3.5	wheels, number front/rear		2x2	2x2	2x2	2x2	2x2	2x2	2x2	2x2	2x2	2x2	2x2	2x2	2x2	2x2	2x2	
	3.6	Tread, front	b10 (mm)	1123	1123	1123	1123	1123	1123	1123	1123	1123	1123	1250	1250	1250	1250	1250	
	3.7	Tread, rear	b11 (mm)	1190	1190	1190	1190	1190	1190	1190	1190	1190	1190	1190	1190	1190	1190	1190	
	Dimensions	4.1	Tilt of mast/fork carriage, forward /backward	α /β (°)	10/12	10/12	10/12	10/12	10/12	10/12	10/12	10/12	10/12	10/12	10/12	10/12	10/12	10/12	10/12
4.2		Height, mast lowered	h1 (mm)	2148	2148	2148	2148	2148	2235	2235	2235	2235	2235	2330	2330	2330	2330	2330	
4.3		Free lift	h2 (mm)	105	105	105	105	105	160	160	160	160	160	165	165	165	165	165	
4.4		Lift	h3 (mm)	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	
4.5		Height, mast extended	h4 (mm)	4170	4170	4170	4170	4170	4180	4180	4180	4180	4180	4305	4305	4305	4305	4305	
4.7		Height of overhead guard(cabin)	h6 (mm)	2256	2256	2256	2256	2256	2256	2256	2256	2256	2256	2280	2280	2280	2280	2280	
4.8		Seat height/stand height	h7 (mm)	1270	1270	1270	1270	1270	1270	1270	1270	1270	1270	1300	1300	1300	1300	1300	
4.12		Towing coupling height	h10 (mm)	415	415	415	415	415	415	415	415	415	415	440	440	440	440	440	
4.19		Overall length	l1 (mm)	4060	4060	4060	4060	4060	4196	4196	4196	4196	4196	4211	4211	4211	4211	4211	
4.20		Length to face of forks	l2 (mm)	2990	2990	2990	2990	2990	3126	3126	3126	3126	3126	3141	3141	3141	3141	3141	
4.21		Overall width	b1 (mm)	1450	1450	1450	1450	1450	1450	1450	1450	1450	1450	1600	1600	1600	1600	1600	
4.22		Fork dimensions ISO2331	s/e/l (mm)	35/100/1070	35/100/1070	35/100/1070	35/100/1070	35/100/1070	40/122/1070	40/122/1070	40/122/1070	40/122/1070	40/122/1070	45/122/1070	45/122/1070	45/122/1070	45/122/1070	45/122/1070	
4.23		Fork carriage ISO 2328. Class/type, A/B		ISO 2	ISO 2	ISO 2	ISO 2	ISO 2	ISO 2	ISO 2	ISO 2	ISO 2	ISO 2	ISO 3	ISO 3	ISO 3	ISO 3	ISO 3	
4.24		Fork carriage width	b3 (mm)	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1500	1500	1500	1500	1500	
4.31		Ground clearance, laden, below mast	m1 (mm)	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	
4.32		Ground clearance, centre of wheelbase	m2 (mm)	215	215	215	215	215	215	215	215	215	215	235	235	235	235	235	
4.33		Load dimension b 12*/6 crossways	b12 × l6 (mm)	1000*1200	1000*1200	1000*1200	1000*1200	1000*1200	1000*1200	1000*1200	1000*1200	1000*1200	1000*1200	1000*1200	1000*1200	1000*1200	1000*1200	1000*1200	
4.34		Aisle width with predetermined load dimensions	Ast (mm)	4849	4849	4849	4849	4849	4925	4925	4925	4925	4925	4940	4940	4940	4940	4940	
4.34.1		Aisle width with pallets 1000mm x 1200mm crossways	Ast (mm)	4849	4849	4849	4849	4849	4925	4925	4925	4925	4925	4940	4940	4940	4940	4940	
4.34.2		Aisle width with pallets 800mm x 1200mm lengthways	Ast (mm)	5049	5049	5049	5049	5049	5125	5125	5125	5125	5125	5140	5140	5140	5140	5140	
4.35		Turning radius	Wa (mm)	3140	3140	3140	3140	3140	3140	3140	3140	3140	3140	3140	3140	3140	3140	3140	
4.36		Internal turning radius	b13	1439	1439	1439	1439	1439	1458	1458	1458	1458	1458	1466	1466	1466	1466	1466	
Performance data		5.1	Travel speed, laden/unladen	km/h	18/18	17/18	17/18	19/19	19/19	18/18	17/18	17/18	19/19	18/19	19/19	17/18	17/18	19/19	18/19
	5.1.1	Travel speed, laden/unladen, backwards	km/h	9/9	9/9	9/9	9/9	9/9	9/9	9/9	9/9	9/9	9/9	9/9	9/9	9/9	9/9	9/9	
	5.2	Lifting speed, laden/unladen	mm/s	610/630	590/610	590/610	610/630	610/630	570/600	480/510	480/510	550/580	550/580	485/510	385/415	385/415	430/460	430/460	
	5.3	Lowering speed laden/unladen	mm/s	450/480	450/480	450/480	450/480	450/480	450/410	450/410	450/410	450/410	450/410	450/410	450/410	450/410	450/410	450/410	
	5.6	Max. drawbar pull laden/unladen	N	35000/25000	31000/27000	32000/24000	35000/35000	35000/35000	35000/29000	31000/27000	31000/27000	35000/35000	35000/35000	35000/35000	31000/31000	31000/31000	35000/35000	35000/35000	
	5.7	Gradeability, laden/unladen	%	50/60	50/60	45/55	45/55	50/55	50/60	48/60	40/50	40/50	45/55	45/55	30/45	30/45	42/42	48/48	
	5.9	Acceleration time, laden/unladen	sec	with load:7.4(S1) / 5.32(S2) without load:7.2(S1) / 5.04(S2)	with load:7.71(S1) / 5.40(S2) without load:7.42(S1) / 4.76(S2)	with load:7.86(S1) / 5.53(S2) without load:7.63(S1) / 5.63(S2)	with load:7.40(S1) / 5.14(S2) without load:7.20(S1) / 4.23(S2)	with load:7.08(S1) / 4.85(S2) without load:5.97(S1) / 4.52(S2)	with load:7.62(S1) / 5.56(S2) without load:7.6(S1) / 5.23(S2)	with load:7.90(S1) / 5.62(S2) without load:7.61(S1) / 4.97(S2)	with load:8.03(S1) / 5.75(S2) without load:7.83(S1) / 5.87(S2)	with load:7.61(S1) / 5.35(S2) without load:7.40(S1) / 4.47(S2)	with load:7.29(S1) / 5.02(S2) without load:7.18(S1) / 4.71(S2)	with load:7.40(S1) / 5.77(S2) without load:7.09(S1) / 5.43(S2)	with load:8.13(S1) / 5.85(S2) without load:7.95(S1) / 4.92(S2)	with load:8.21(S1) / 5.95(S2) without load:8.03(S1) / 5.07(S2)	with load:7.81(S1) / 5.55(S2) without load:7.38(S1) / 4.67(S2)	with load:7.49(S1) / 5.22(S2) without load:7.38(S1) / 4.91(S2)	
	5.10	Service brake		Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	
	Combustion-engine	7.1	Engine manufacturer/type		Yanmar 4TNE98-BQFLC	Mitsubishi S4S-455	Mitsubishi D04EG	Kubota V2403	Kubota V2607	Yanmar 4TNE98-BQFLC	Mitsubishi S4S-455	Mitsubishi D04EG	Kubota V 2403	Kubota V 2607	Yanmar 4TNE98-BQFLC	Mitsubishi S4S-455	Mitsubishi D04EG	Kubota V2403	Kubota V2607
		7.2	Engine power according to DIN ISO 1585	Kw	42.1	35.5	35.5	43.2	48	42.1	35.5	35.5	43.2	48	42.1	35.5	35.5	43.2	48
7.3		Rated speed	min-1	2300	2300	2300	2400	2400	2300	2300	2250	2400	2400	2300	2250	2300	2400	2400	
7.4		Number of cylinders/displacement	(-)/(cm3)	4/3.319	4/3.331	4/3.331	4/2.434	4/2.615	4/3.319	4/3.331	4/3.331	4/2.434	4/2.615	4/3.319	4/3.331	4/3.331	4/2.434	4/2.615	
7.5		Fuel consumption according to VDI cycle	l/h or kg/h	4.93kg/h	4.21kg/h	4.12kg/h	4.20kg/h	2.71kg/h	5.16kg/h	4.30kg/h	4.23kg/h	4.36kg/h	2.9kg/h	6.36kg/h	4.30kg/h	4.38kg/h	4.86kg/h	3.3kg/h	
7.6		Turnover output	t/h	180	205	202	204	228	195	228	221	226	240	252	228	230	236	262.5	
7.7		Energy consumption at turnover output	l/h or kg/h	6.2kg/h	4.59kg/h	4.41kg/h	4.11kg/h	4.68kg/h	6.7kg/h	4.59kg/h	4.41kg/h	4.2kg/h	4.9kg/h	7.5kg/h	4.59kg/h	4.62kg/h	4.7kg/h	5.5kg/h	
7.8		Generator	A	40	50	50	60	60	50	50	50	60	40	50	50	60	60	60	
7.9		Vehicle electrical system voltage	V	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	
7.10		Battery voltage/nominal capacity	(V)/(Ah)	12/90	12/90	12/90	12/93	12/93	12/90	12/90	12/90	12/90	12/93	12/93	12/90	12/90	12/90	12/93	12/93
Additional data	8.1	Type of drive unit		Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	
	10.1	Operating pressure for attachments	bar	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	
	10.2	Oil volume for attachments	l/min	70	60	60	70	70	70	70	70	70	70	70	70	70	70	70	
	10.4	Fuel tank capacity	L	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	
	10.7	Sound pressure level at the driver's seat	dB (A)	87	85	87.6	84.3	85.9	87	85.4	87.6	84.3	85.9	87	85.4	87.6	84.3	85.9	
	10.7.1	Sound power level during the workcycle	dB (A)	99.8	102	98.4	83	100	99.8	102	98.4	83	100	99.8	102	98.4	83	100	
	10.8	Towing coupling, type DIN 15170		PIN	PIN	PIN	PIN	PIN	PIN	PIN	PIN	PIN	PIN	PIN	PIN	PIN	PIN	PIN	



1.8T 2WD/4WD Mast

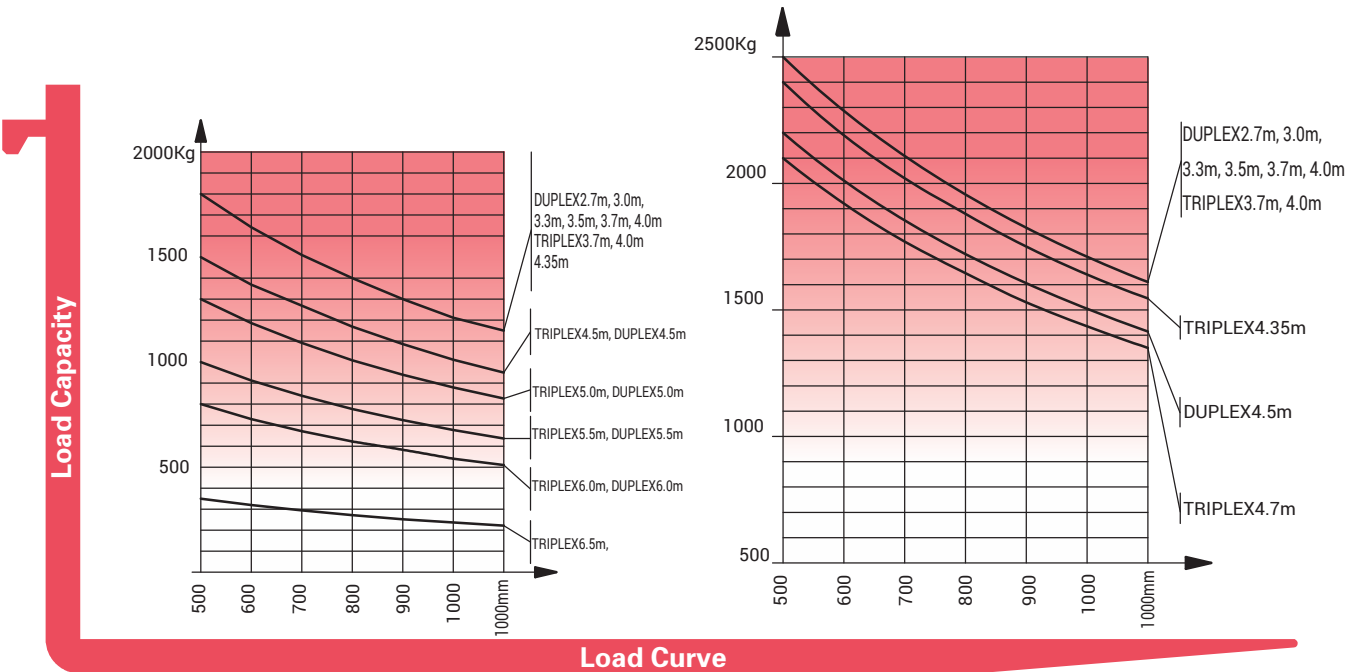
		Lifting height on fork (mm)	Overall height mast lowered (mm)	Free lift on forks (mm)		Overall extended height (mm)		Front overhang (mm)	Mast tilting angle front/rear (°)	Capacity at max.Height(pneumatic tyre) (kg)				Capacity at max.Height(solid tyre) (kg)			
				With bracket	Without bracket	With bracket	Without bracket			Load center 500mm		Load center 600mm		Load center 500mm		Load center 600mm	
										Without side shift carriage	With side shift carriage	Without side shift carriage	With side shift carriage	Without side shift carriage	With side shift carriage	Without side shift carriage	With side shift carriage
Duplex Total Visibility	2.70m	2700	1998	105	105	3875	3465	509	10/12	1800	1800	1640	1640	1800	1800	1640	1640
	3.00m	3000	2148	105	105	4175	3765	509	10/12	1800	1800	1640	1640	1800	1800	1640	1640
	3.30m	3300	2298	105	105	4475	4065	509	10/12	1800	1800	1640	1640	1800	1800	1640	1640
	3.50m	3500	2398	105	105	4675	4265	509	10/12	1800	1800	1640	1640	1800	1800	1640	1640
	3.70m	3700	2498	105	105	4875	4465	509	10/12	1800	1800	1640	1640	1800	1800	1640	1640
	4.00m	4000	2698	105	105	5175	4765	509	10/12	1800	1800	1640	1640	1800	1800	1640	1640
	4.5m	4500	2948	105	105	5675	5265	509	10/12	1500	1400	1360	1230	1550	1450	1410	1280
	5m	5000	3198	105	105	6175	5765	509	6/6	1300	1200	1200	1100	1350	1250	1250	1150
	5.5m	5500	3498	105	105	6675	6265	509	6/6	1000	900	900	800	1050	950	950	850
	6m	6000	3748	105	105	7175	6765	509	6/6	800	700	730	630	850	750	780	680
Free Lifting Triplex	3.60m	3600	1908	725	1105	4775	4395	550	10/12	1800	1800	1640	1640	1800	1800	1640	1640
	4.00m	4000	2033	850	1230	5175	4795	550	10/12	1800	1800	1640	1640	1800	1800	1640	1640
	4.35m	4350	2158	980	1360	5525	5145	550	10/12	1800	1700	1640	1540	1800	1750	1640	1590
	4.50m	4500	2208	1030	1410	5675	5295	550	10/12	1500	1400	1360	1270	1550	1450	1410	1320
	4.80m	4800	2308	1130	1510	5975	5595	550	10/12	1400	1300	1270	1200	1450	1350	1320	1250
	5m	5000	2408	1230	1610	6175	5795	550	6/6	1300	1200	1200	1100	1350	1250	1250	1150
	5.5m	5500	2573	1390	1770	6675	6295	550	6/6	1000	900	900	800	1050	950	950	850
	6m	6000	2758	1580	1960	7175	6795	550	6/6	800	700	730	630	850	750	780	680
	6.5m	6500	2973	1790	2180	7675	7295	550	6/6	350	250	300	200	400	300	350	250

2.5-3.5T 2WD mast

		Type	Lifting height on fork(mm)	Overall height mast lowered (mm)	Free lift on forks (mm)		Overall extended height (mm)		Front overhang (mm)	Mast tilting angle front/ rear (°)	Load center 500mm			
					With bracket	Without bracket	With bracket	Without bracket			Capacity at max. Height(pneumatic tyre)(kg)		Capacity at max.Height(solid tyre)(kg)	
											Without side shift carriage	With side shift carriage	Without side shift carriage	With side shift carriage
Duplex Total Visibility	2.70m	2.5T	2700	2085	160	160	3880	3590	585	10/12	2500	2500	2500	2500
		3.5T		2180	165	165	4005	3625	600	10/12	3500	3400	3500	3500
	3.00m	2.5T	3000	2235	160	160	4180	3890	585	10/12	2500	2500	2500	2500
		3.5T		2330	165	165	4305	3925	600	10/12	3500	3400	3500	3500
	3.30m	2.5T	3300	2385	160	160	4480	4190	585	10/12	2500	2500	2500	2500
		3.5T		2480	165	165	4605	4225	600	10/12	3500	3400	3500	3500
	3.50m	2.5T	3500	2485	160	160	4680	4390	585	10/12	2500	2500	2500	2500
		3.5T		2580	165	165	4805	4425	600	10/12	3500	3400	3500	3500
	3.70m	2.5T	3700	2585	160	160	4880	4590	585	10/12	2500	2500	2500	2500
		3.5T		2680	165	165	5005	4625	600	10/12	3500	3400	3500	3500
	4.00m	2.5T	4000	2785	160	160	5180	4890	585	10/12	2500	2500	2500	2500
		3.5T		2880	165	165	5305	4925	600	10/12	3500	3400	3500	3500
	4.5m	2.5T	4500	3035	160	160	5680	5390	585	10/12	2200	2100	2300	2200
		3.5T		3130	165	165	5805	5425	600	10/12	3100	2900	3200	3000
	3.70m	2.5T	3700	1990	798	1243	4880	4435	590	10/12	2500	2400	2500	2500
		3.5T		2115	790	1246	5005	4560	620	10/12	3500	3400	3500	3500
Free Lifting Triplex	4.00m	2.5T	4000	2080	888	1333	5180	4735	590	10/12	2500	2400	2500	2500
		3.5T		2205	890	1336	5305	4860	620	10/12	3500	3400	3500	3500
	4.35m	2.5T	4350	2205	1013	1458	5530	5085	590	10/12	2400	2300	2500	2400
		3.5T		2330	1015	1461	5655	5210	620	10/12	3000	2900	3100	3000
	4.70m	2.5T	4700	2320	1128	1573	5880	5435	590	10/12	2100	2000	2200	2100
		3.5T		2445	1130	1576	5905	5460	620	10/12	2500	2400	2600	2500
	5m	2.5T	5000	2455	1263	1708	6180	5735	590	6/6	1900	1800	2000	1900
		3.5T		2580	1265	1710	6205	5760	620	6/6	2400	2300	2500	2400
	5.5m	2.5T	5500	2620	1428	1873	6680	6235	590	6/6	1500	1400	1600	1500
		3.5T		2745	1430	1875	6705	6260	620	6/6	2200	2100	2300	2200
	6m	2.5T	6000	2805	1613	2058	7180	6735	590	6/6	1200	1100	1300	1200
		3.5T		2930	1615	2060	7205	6760	620	6/6	1300	1200	1400	1300

2.5-3.5T 4WD mast

		Type	Lifting height on fork(mm)	Overall height mast lowered (mm)	Free lift on forks (mm)		Overall extended height (mm)		Front overhang (mm)	(Mast tilting angle front/rear (°))	Load center 500mm			
					With bracket	Without bracket	With bracket	Without bracket			Capacity at max. Height(pneumatic tyre)(kg)		Capacity at max.Height(solid tyre)(kg)	
											Without side shift carriage	With side shift carriage	Without side shift carriage	With side shift carriage
Duplex total visibility	2.70m	2.5T	2700	2085	160	160	3880	3590	585	10/12	2500	2500	2500	2500
		3.5T		2180	165	165	4005	3625	600	10/12	3500	3400	3500	3500
	3.00m	2.5T	3000	2235	160	160	4180	3890	585	10/12	2500	2500	2500	2500
		3.5T		2330	165	165	4305	3925	600	10/12	3500	3400	3500	3500
	3.30m	2.5T	3300	2385	160	160	4480	4190	585	10/12	2500	2500	2500	2500
		3.5T		2480	165	165	4605	4225	600	10/12	3500	3400	3500	3500
	3.50m	2.5T	3500	2485	160	160	4680	4390	585	10/12	2500	2500	2500	2500
		3.5T		2580	165	165	4805	4425	600	10/12	3500	3400	3500	3500
	3.70m	2.5T	3700	2585	160	160	4880	4590	585	10/12	2500	2500	2500	2500
		3.5T		2680	165	165	5005	4625	600	10/12	3500	3400	3500	3500
	4.00m	2.5T	4000	2785	160	160	5180	4890	585	10/12	2500	2500	2500	2500
		3.5T		2880	165	165	5305	4925	600	10/12	3500	3400	3500	3500
4.5m	2.5T	4500	3035	160	160	5680	5390	585	10/12	2200	2100	2300	2200	
	3.5T		3130	165	165	5805	5425	600	10/12	3100	2900	3200	3000	
Free lifting triplex	3.70m	2.5T	3700	1990	798	1243	4880	4435	590	10/12	2500	2400	2500	2500
		3.5T		2115	790	1246	5005	4560	620	10/12	3500	3400	3500	3500
	4.00m	2.5T	4000	2080	888	1333	5180	4735	590	10/12	2500	2400	2500	2500
		3.5T		2205	890	1336	5305	4860	620	10/12	3500	3400	3500	3500
	4.35m	2.5T	4350	2205	1013	1458	5530	5085	590	10/12	2400	2300	2500	2400
		3.5T		2330	1015	1461	5655	5210	620	10/12	3000	2900	3100	3000
	4.70m	2.5T	4700	2320	1128	1573	5880	5435	590	10/12	2100	2000	2200	2100
		3.5T		2445	1130	1576	5905	5460	620	10/12	2600	2500	2700	2600
	5m	2.5T	5000	2455	1263	1708	6180	5735	590	6/6	1900	1800	2000	1900
		3.5T		2580	1265	1710	6205	5760	620	6/6	2600	2500	2700	2600
	5.5m	2.5T	5500	2620	1428	1873	6680	6235	590	6/6	1500	1400	1600	1500
		3.5T		2745	1430	1875	6705	6260	620	6/6	2300	2200	2400	2300
	6m	2.5T	6000	2805	1613	2058	7180	6735	590	6/6	1200	1100	1300	1200
		3.5T		2930	1615	2060	7205	6760	620	6/6	1700	1600	1800	1700

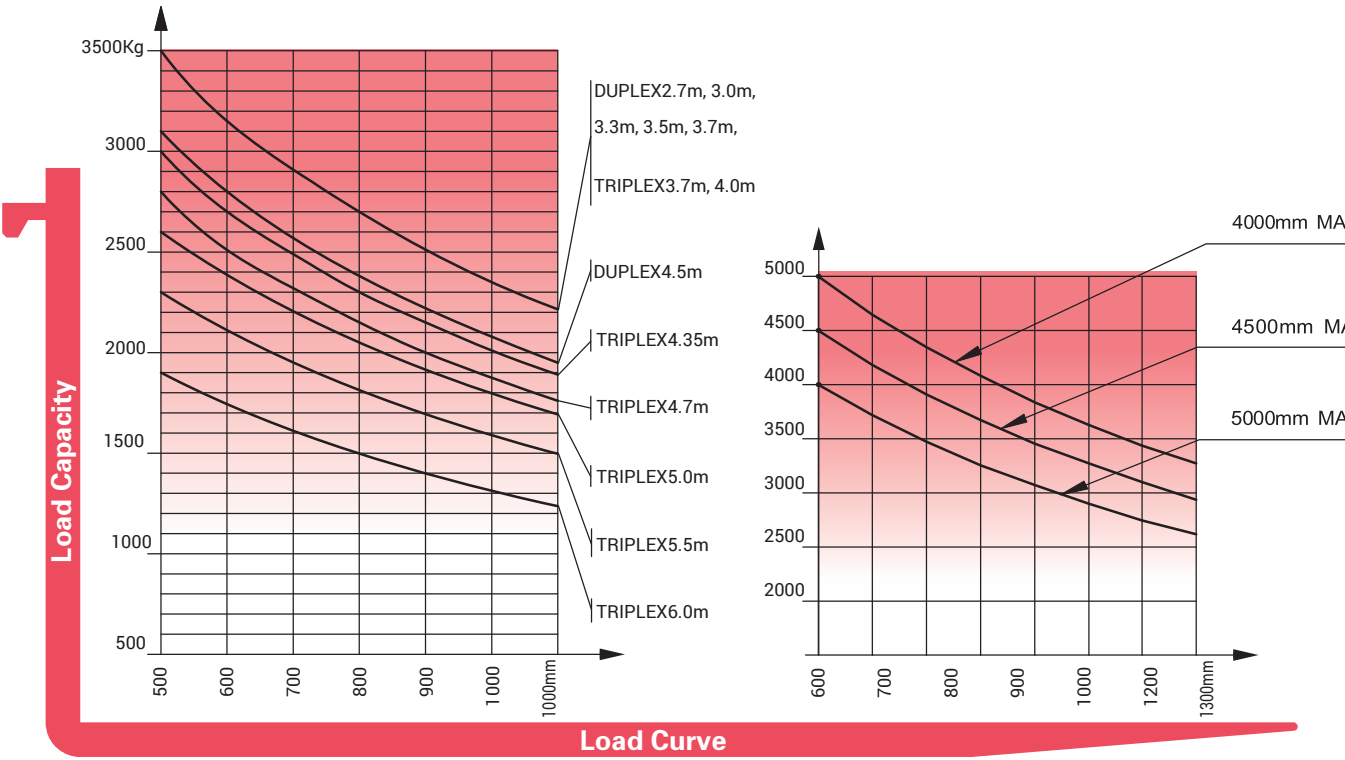


1.8T Load Chart

2.5T Load Chart

5T 2WD mast

		Type	Lifting height on fork (mm)	Overall height mast lowered (mm)	Free lift on forks (mm)		Overall extended height (mm)		Front overhang (mm)	Mast tilting angle front/rear (°)	Capacity at max.Height (kg)	
					With bracket	Without bracket	With bracket	Without bracket			Without side shift carriage	With side shift carriage
Duplex Total Visibility	3.00m	4T	3000	2565	145	145	4480	4120	727	15/15	4000	3600
		5T							732		5000	4700
	3.30m	4T	3300	2715	145	145	4780	4420	727	15/15	4000	3600
		5T							732		5000	4700
	3.50m	4T	3500	2815	145	145	4980	4620	727	15/15	4000	3600
		5T							732		5000	4700
	3.70m	4T	3700	2915	145	145	5180	4820	727	15/15	4000	3600
		5T							732		5000	4700
	4.00m	4T	4000	3115	145	145	5480	5120	727	15/15	4000	3600
		5T							732		5000	4700
	4.50m	4T	4500	3365	145	145	5980	5620	727	15/15	3600	3240
		5T							732		4500	4050
Free Lifting Triplex	5.00m	4T	5000	3615	145	145	6480	6120	727	15/15	3200	2800
		5T							732		4000	3600
	4.00m	4T	4000	2560	1000	1350	5480	5140	760	15/15	4000	3600
		5T							765		5000	4500
	4.35m	4T	4350	2685	1125	1475	5830	5490	760	15/15	3600	3240
		5T							765		4500	4050
	4.50m	4T	4500	2736	1176	1526	5980	5640	760	15/15	3200	2880
		5T							765		4000	3600
	4.70m	4T	4700	2802	1242	1592	6180	5840	760	15/15	2950	2680
		5T							765		3700	3350
	5.00m	4T	5000	2935	1375	1725	6480	6140	760	10/15	2640	2360
		5T							765		3300	2950
	5.40m	4T	5400	3060	1500	1850	6880	6540	760	10/15	1920	1720
		5T							765		2400	2150
	6.00m	4T	6000	3300	1740	2090	7480	7140	760	10/15	1600	1400
		5T							765		2000	1800



3.5T Load Chart

5.0T Load Chart