

TOTAL ROUGH TERRAIN FORKLIFT INTRODUCTION

2WD

Strong flexibility in rough terrain

100% differential lock.



PREMIUM MODEL 4WD

Superior performance
in extreme condition

Traditional technology while
imported key components:
DANA integrated trans-axle,
Sauer Danfoss hydrostatic
system, tilting cabin.



BASIC MODEL COMPACT 4WD

TOTAL original product
replenished Rough Terrain fields



Patented self-designed axle &
transmission, compact size meet
with European standard.

TOTAL 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 42.1kw/2300rpm >

Rated torque 196.3N.m/1700rpm >



PERKINS 1104C-44TA

Rated output 74.5kw/2300rpm >

Rated torque 415N.m/1350rpm >



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.



Wide-view Mast

Wide-view mast provides excellent through-the-mast visibility improving the work efficiency and allowing safe operation of the forklift.



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 the roughest of applications.



Tilting Overhead Guard (4WD)

Equipped as standard with a tilting overhead guard, to ensure easy access to major components for inspection and service.

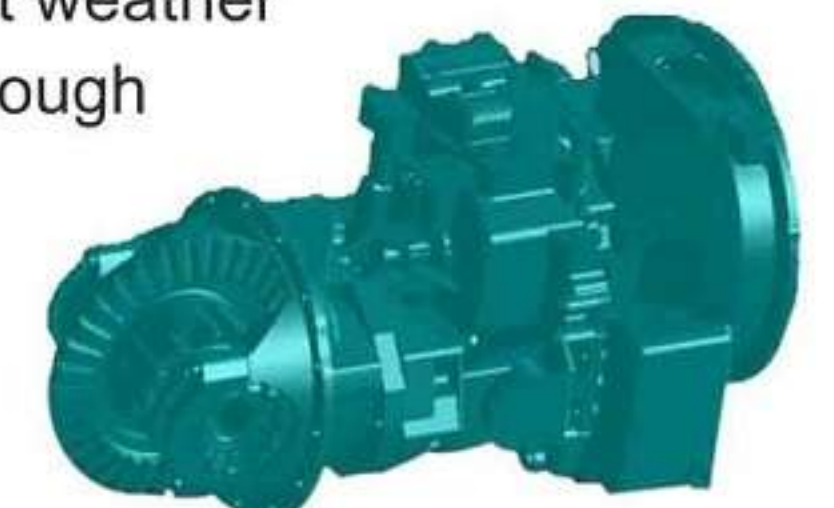
Upward Steering Cylinder (Compact 4WD)

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.



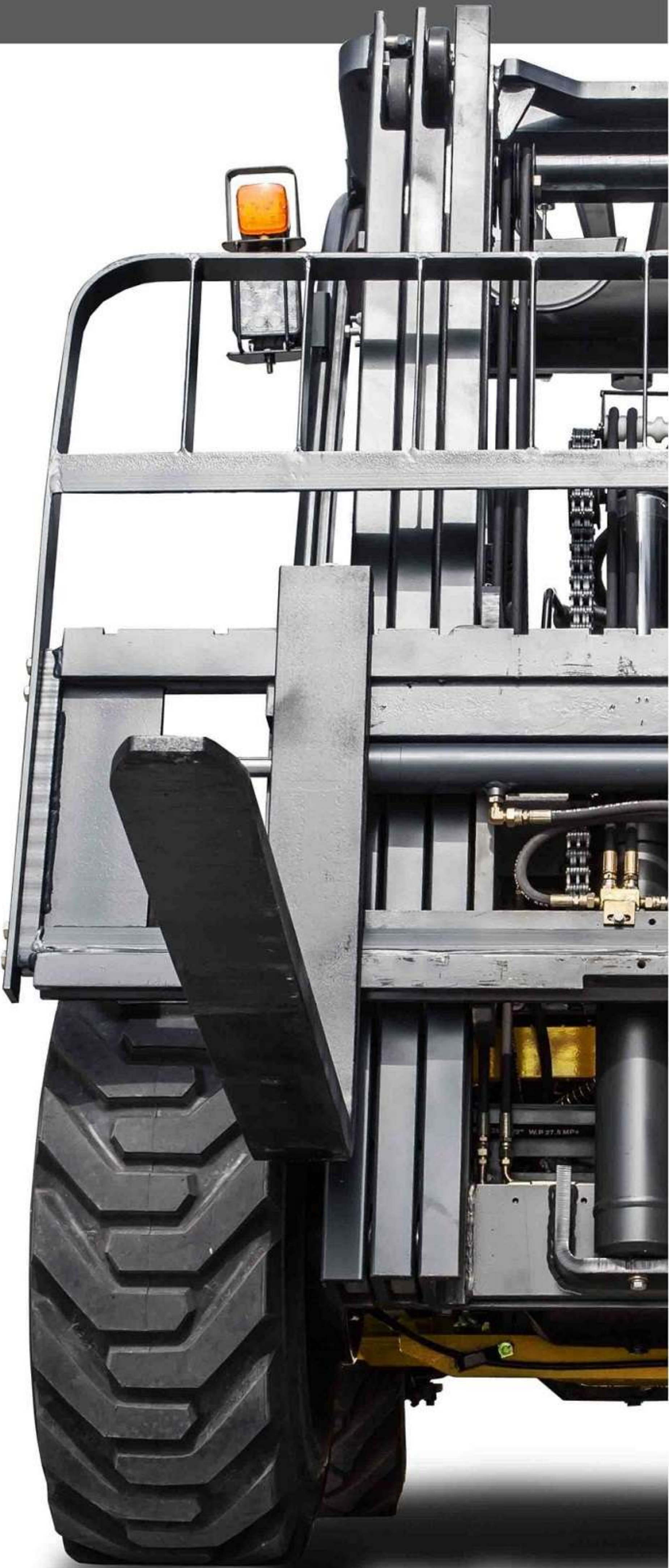
Our Solution, Your Decision

Body

	2WD					Compact 4WD			4WD	
YES  / NO 	1.8T	2.5T	3.5T	4T	5T	1.8T	2.5T	3.5T	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	2067	1450	1450	1600	1980	1980
Loaded into 20GP Container			 (Deflate the tyres)			 (Deflate the tyres)				
External Type Steering Cylinder										
With Prefilter										
LED Lights	Standard					Standard			Standard	
Safety Start System*	Standard					Standard			Standard	
Suspension Seat	Option					Option			Standard	
OPS system	Option					Option			Option	
Engine	YANMAR 4TNE98/MITSUBISHI S4S	YANMAR 4TNE98	Perkins 1104C-44TA/1104D-44TA			YANMAR 4TNE98/	MITSUBISHI S4S	YANMAR 4TNE98	YANMAR 4TNE98	
Gradeability	20%	20%	16%	30%		80%/60%	50%	45%	38%	38%
Gradient	11.3°	11.3°	9°	16.7°		38.6°/31°	26.5°	24.2°	20.8°	20.8°
Min.Turning Radius(mm)	2840	2870	2870	3550		3120	3120	3120	4275	4295
Transmission Model	Hydraulic					Hydraulic			Hydrostatic	
Differential Lock Type	Jaw Type Differential Lock					Limited Slip Differential Lock			Limited Slip Differential Lock	
Differential Ratio	100%					45%			45%	

Performance

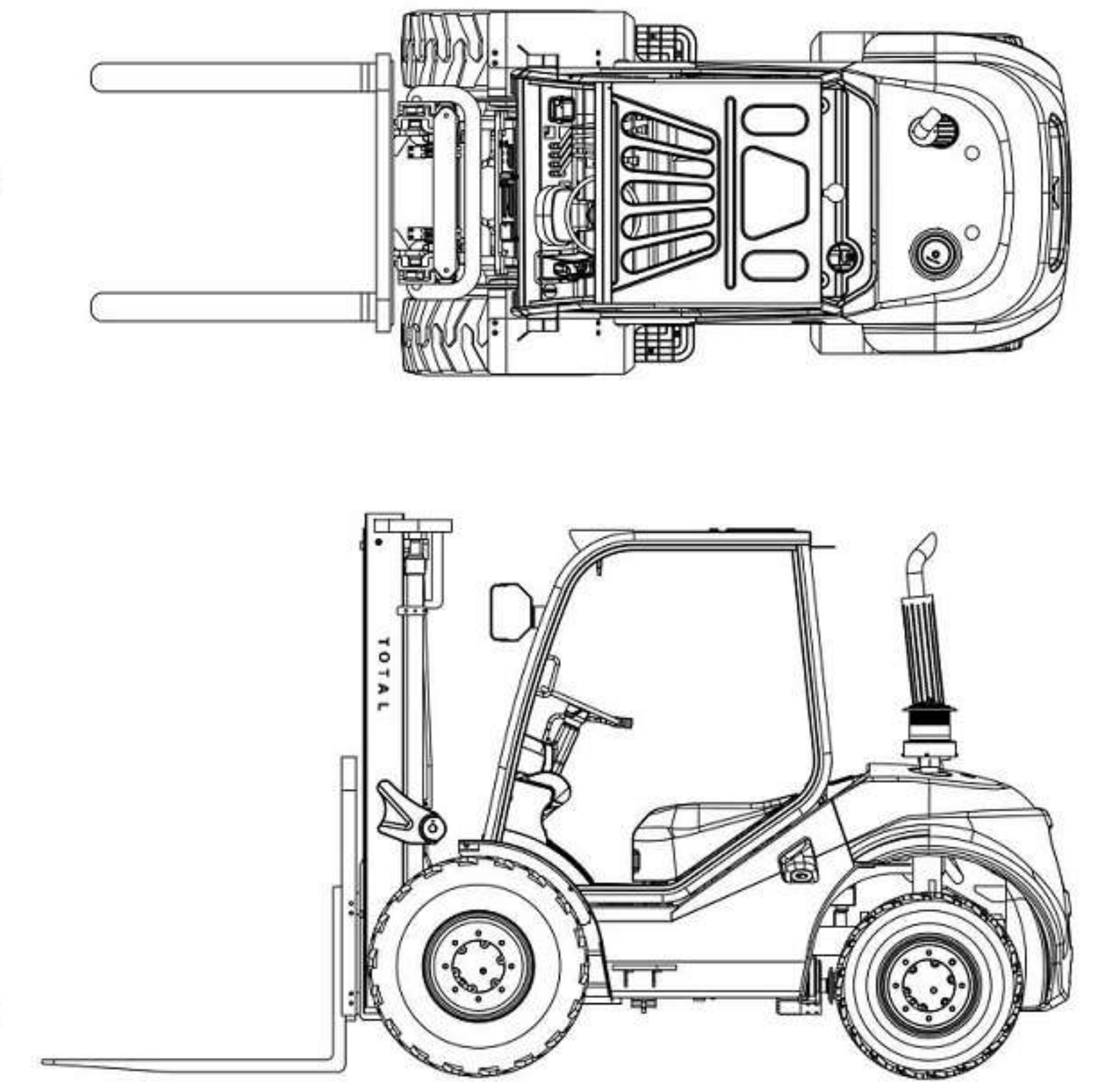
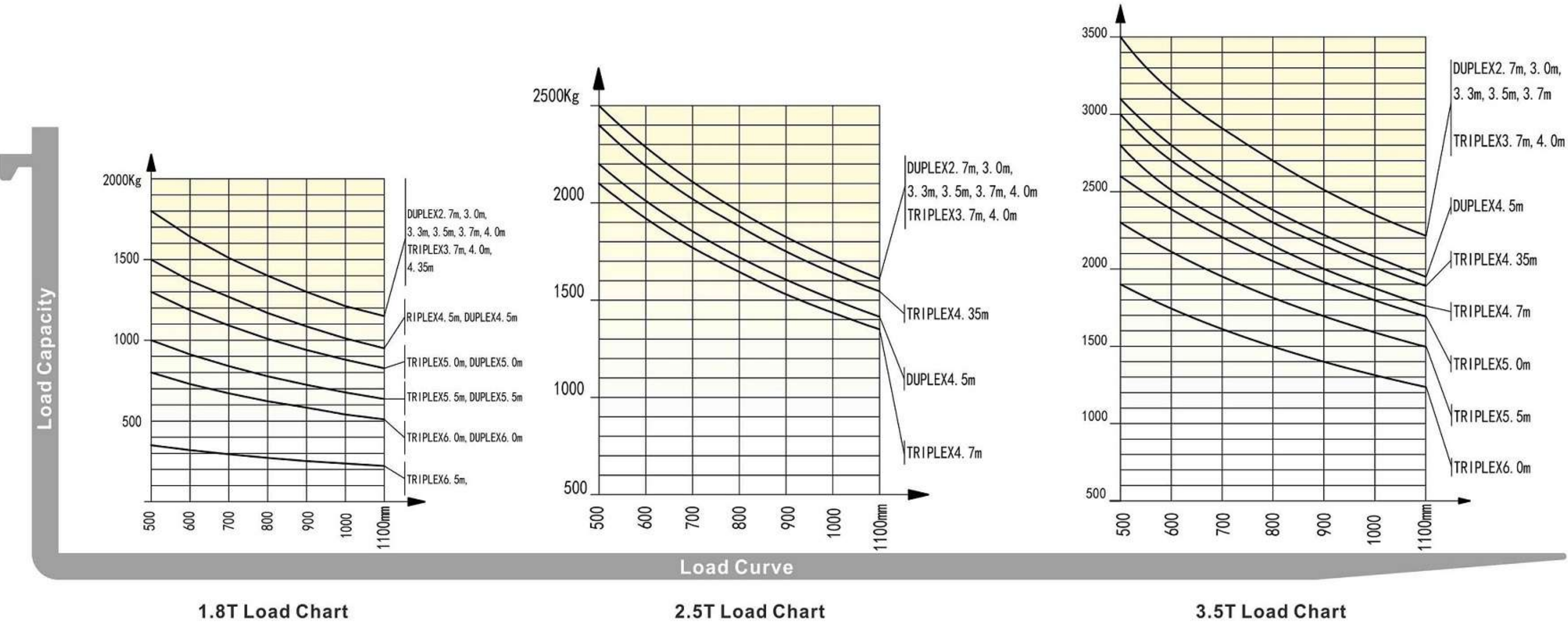
Safety Start System* The truck can't start if any below: 1-operator leaves the seat, 2-seatbelt unfastened, 3-hand brake released, 4-not in N positon.



2WD 1.8T/2.5T/3.5T									
				2WD	2WD	2WD			
General	1	Model			FD18-TRM-2Y	FD25-TRM-2Y	FD35-TRM-2Y		
	2	Power type			Diesel				
	3	Rated capacity		Kg	1800	2500	3500		
	4	Load centre		mm	500				
	5	Lifting height		mm	3000				
Characteristic&Dimension	6	Height		mm	105	160	165		
	7	Fork size	L×W×T		mm	1070×100×35	1070x122x40	1220x122x45	
	8	Fork regulating range	Min./Max.		mm	200-1000	250-1160	250-1160	
	9	Mast tilt angle		F/R	Deg	10/12			
	10	Front overhang		mm	509	586	601		
	11	Rear overhang		mm	520	520	520		
	12	Min.ground clearance(drive steer axle)		mm	255	270	270		
	13	Overall dimensions	Length to face of fork (without fork)		mm	2990	2946	2956	
	14		Overall width		mm	1450	1557.5	1600.5	
	15		Mast lowered height		mm	2148	2265	2330	
	16		Mast extended height (with backrest)		mm	4170	4175	4305	
	17		Overhead guard height		mm	2260	2256.5	2276	
	18	Turning radius		mm	2840	2870	2870		
	19	Min. right angle stacking aisle width	Pallet size a ₁₂ =1000,b ₁₂ =1200		mm	4760	4860	4870	
	Pallet size a ₁₂ =1200,b ₁₂ =800		mm	4360	4460	4470			
	Performance	20	Speed	Travel(Laden/Unladen)		Km/h	20/18	20/18	22/22
		21		Lifting(Laden)		mm	610	600	450
		22		Lowering(Laden)		mm	450	445	500
		23		Max. Drawbar pull(Laden)		KN	13	17	17
24		Max. Gradeability(Laden)		%	20	20	16		
Tyre	25	Tyre	Front			12-16.5-12PR	12-16.5-12PR	14-17.5-14PR	
	26		Rear			27×10-12-12PR	27×10-12-12PR	27×10-12-12PR	
	27	Tread	Front		mm	1123	1250.5	1250.5	
	28		Rear		mm		1205		
	29	Wheelbase		mm	1880				
Weight	30	Self weight		kg	3960	4465	5180		
	31	Weight Distribution	Laden	Front axle	kg	4954	5990	7725	
	32			Rear axle	kg	806	975	955	
	33		Unladen	Front axle	kg	1584	1785	2070	
	34			Rear axle	kg	2376	2680	3110	
Power&Transmission	35	Battery	Voltage/Capacity		V/Ah	12/90	12/90	12/90	
	36	Engine	Model			4TNE98-BQFLC			
	37		Manufacture			YANMAR			
	38		Rated output/r.p.m.		Kw	42.1/2300			
	39		Rated torque/r.p.m.		N.m	196.3/1700			
	40		No. of cylinder			4			
	41		Bore×Stroke		mm	98×110			
	42		Displacement		L	3.318			
	43		Fuel tank capacity		L	55			
	44		Manufacture			China			
	45	Transmission	Type			Powershift	Powershift	Powershift	
	46		Stage	F/R			1/1	1/1	1/1
	47	Operating pressure			Mpa	16.5	20	20	

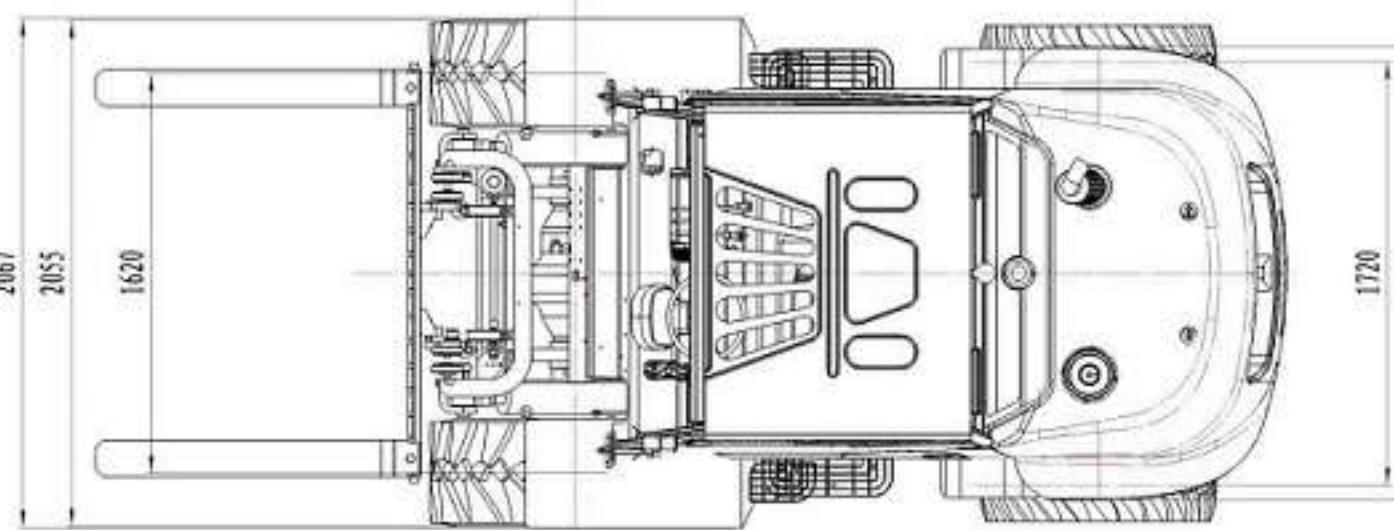
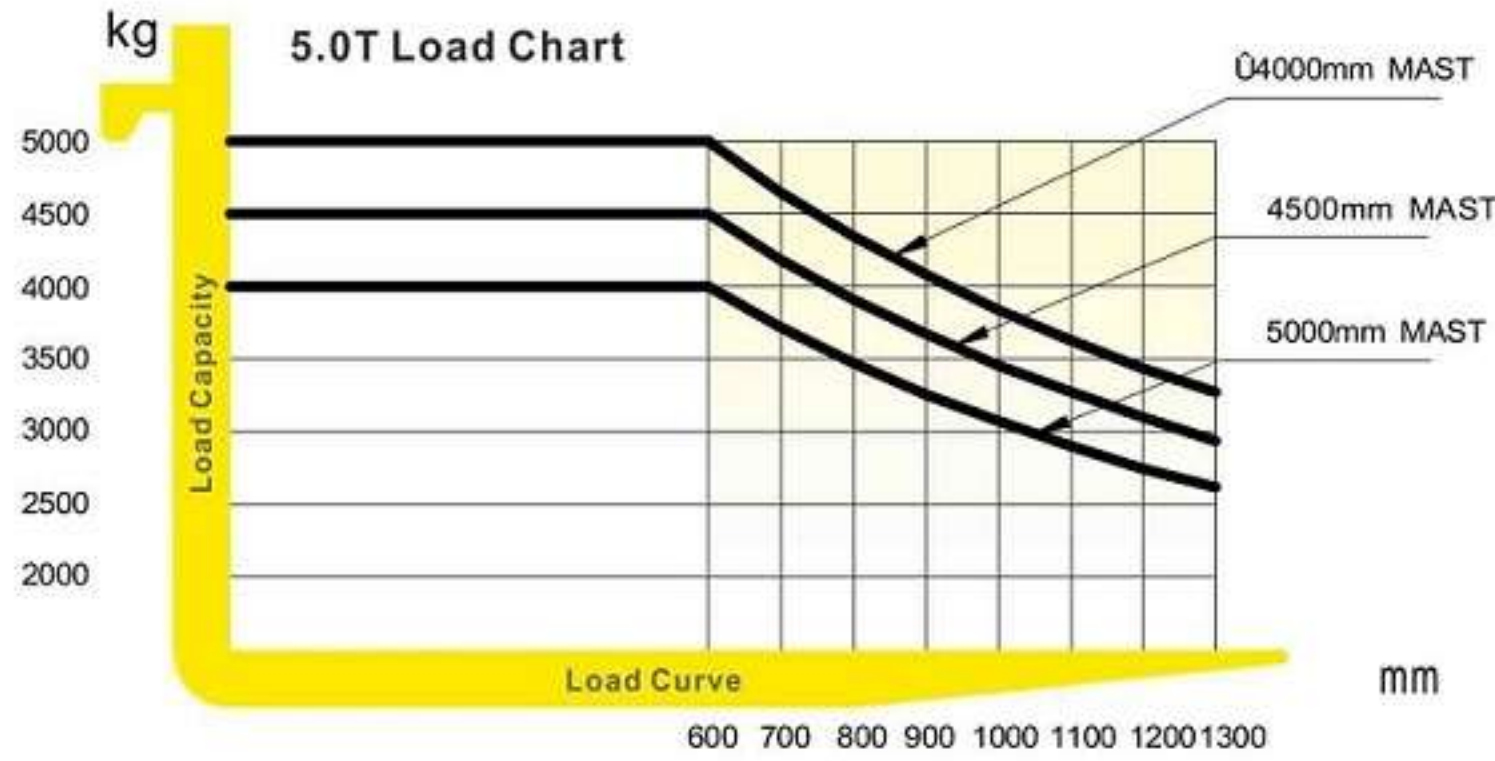
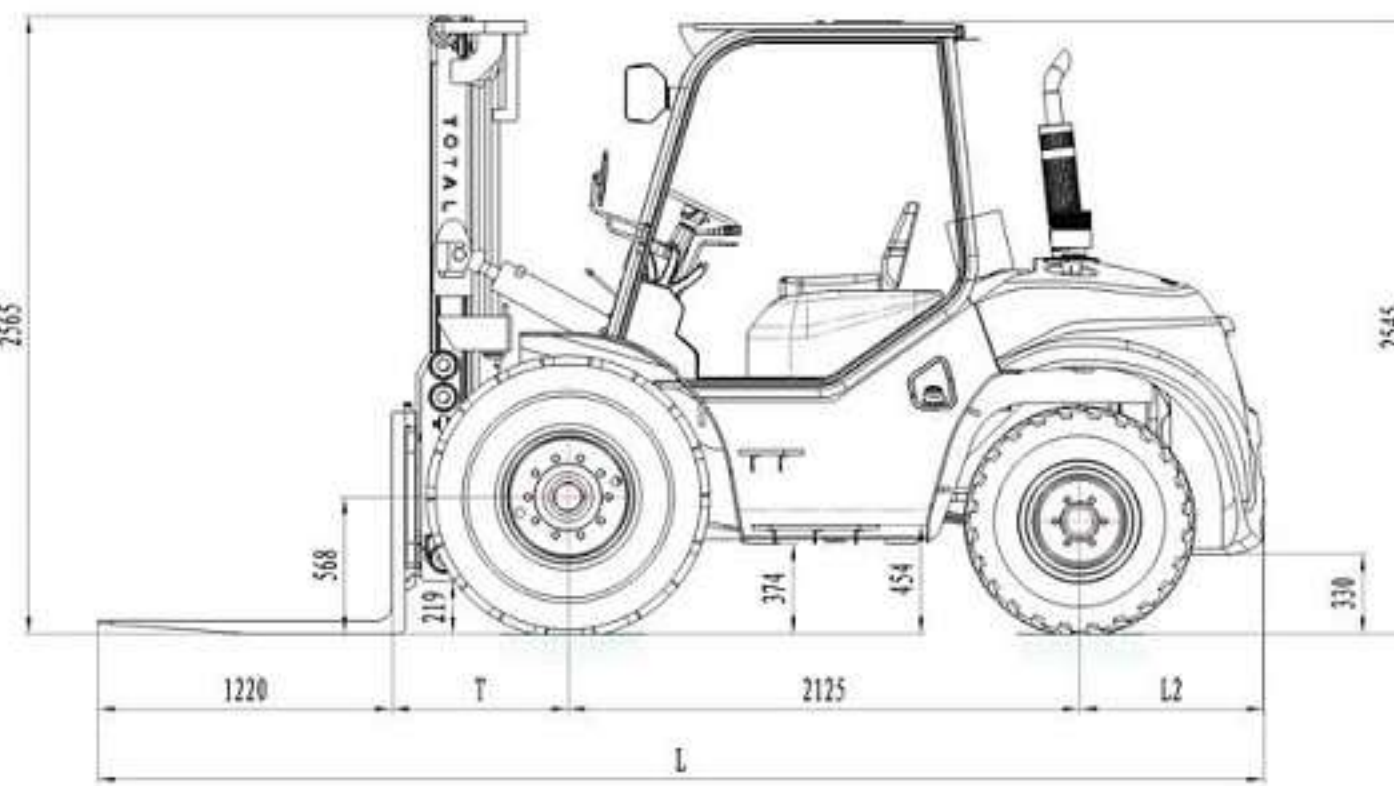
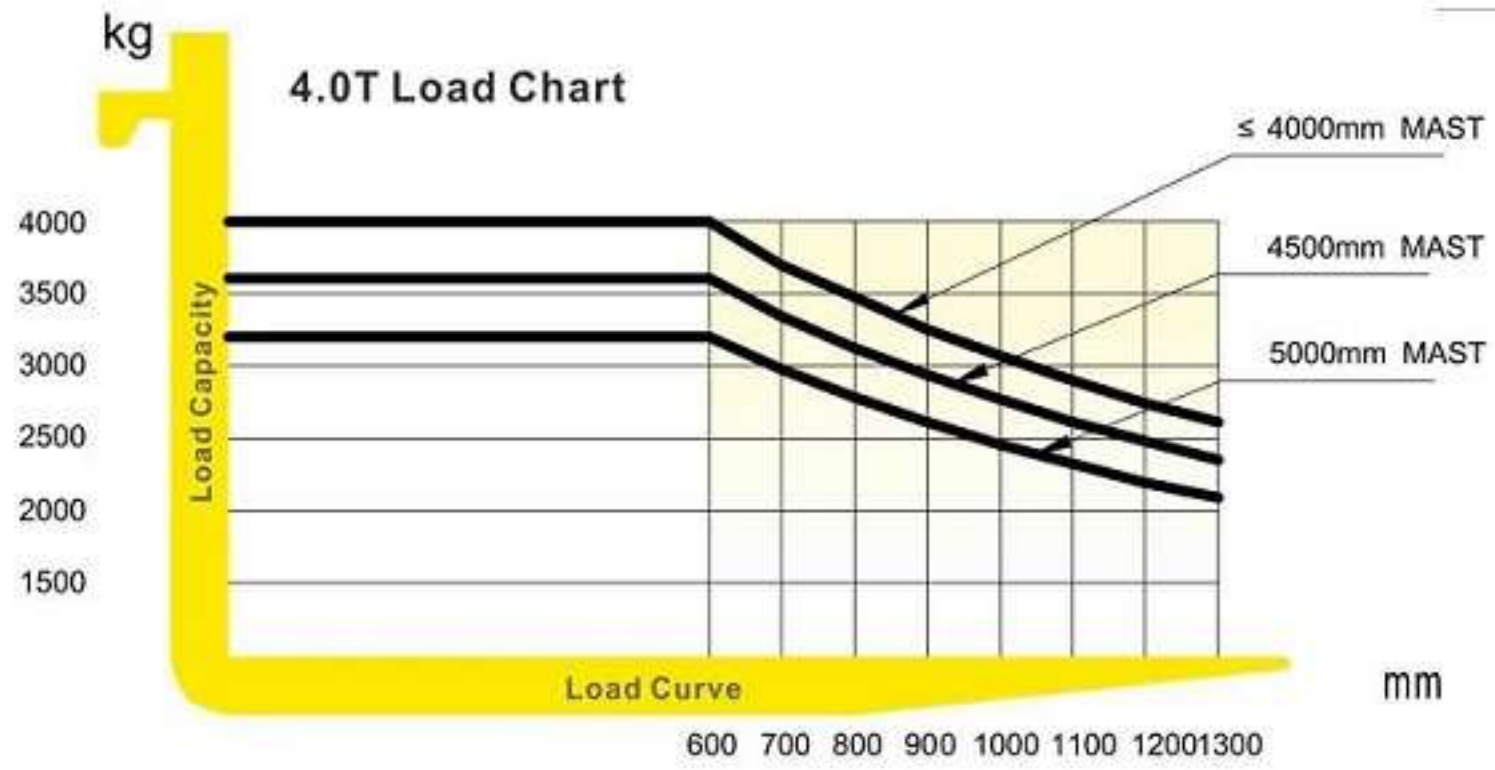
Compact 4WD 1.8T/2.5T/3.5T																
General	1	Model			FD18-TRM-4M		FD25-TRM-4M		FD18-TRM-4Y		FD25-TRM-4Y		FD35-TRM-4Y			
	2	Power type				Diesel										
	3	Rated capacity			Kg	1800		2500		1800		2500		3500		
	4	Load centre			mm	500		500		500		500		500		
Characteristic&Dimension	5	Lifting height			mm	3000		3000		3000		3000		3000		
	6	Free lift			mm	105		160		105		160		165		
	7	Fork size		L×W×T	mm	1070×100×35		1070×122×40		1070×100×35		1070×122×40		1220×122×45		
	8	Fork regulating range		Min./Max.	mm	200-1315		250-1310		200-1315		250-1310		250-1500		
	9	Mast tilt angle		F/R	Deg	10/12										
	10	Front overhang			mm	520		586		520		586		601		
	11	Rear overhang			mm	600										
	12	Min.ground clearance(drive steering axle)			mm	219										
	13	Min.ground clearance(chassis) (Unladen/Laden)			mm	230/215		230/215		230/215		230/215		224/230		
	14	Min.ground clearance(mast) (Unladen/Laden)			mm	275/250		270/255		275/250		270/255		270/250		
	15	Ground clearance (drawbar pin)			mm	354.5		354.5		354.5		354.5		430		
	16	Height from seat surface to overhead guard inner side			mm	990		990		990		990		1043		
	17	Overall dimensions	Length to face of fork (without fork)		mm	3000		3066		3000		3066		3081		
	18		Overall width		mm	1450		1450		1450		1450		1600		
	19		Mast lowered height		mm	2145		2235		2145		2235		2330		
	20		Mast extended height (with backrest)		mm	4140		4175		4140		4175		4305		
	21		Overhead guard height		mm	2256		2256		2256		2256		2276		
	22	Turning radius			mm	3120		3120		3120		3120		3120		
	23	Min. right angle stacking aisle width	Pallet size a ₁₂ =1000,b ₁₂ =1200		mm	4629		4706		4629		4706		4921		
	24		Pallet size a ₁₂ =1200,b ₁₂ =800		mm	4829		4906		4829		4906		4871		
	25		Min. right angle stacking aisle width(pallet size a ₁₂ =1200,b ₁₂ =1200)			mm	2670				2670				2725	
	Performance	26	Speed	Travel(Unladen/Laden)		Km/h	18/17		18/17		20/19		20/19		19/18	
		27		Lifting(Unladen/Laden)		mm	620/590		620/570		640/610		650/600		510/485	
		28		Lowering(Unladen/Laden)		mm	420/450		510/450		420/450		510/450		500/450	
		29	Max. Drawbar pull			KN	31		38		38		38		38	
30		Max. Gradeability				60		50		80		50		45		
Tyre	31	Braking distance			m	≤6				≤6				≤6		
	32	Tyre	Front			12-16.5-12PR				12-16.5-12PR				14-17.5L-14PR		
	33		Rear			10.0/75-15.3				10.0/75-15.3				10.0/75-15.3		
	34	Tyre pressure(Front/Rear)			Mpa	0.62/0.55				0.62/0.55				0.55/0.55		
	35	Tread	Front		mm	1123				1123				1250		
36	Rear		mm	1190				1190				1190				
37	Ground clearance (Front tyre centre)(Unladen/Laden)			mm	405.5/385				405.5/385				450.5/425			
38	Ground clearance (Rear tyre centre)(Unladen/Laden)			mm	370/350				370/350				370/385			
39	Wheelbase			mm	1880				1880				1880			
Weight	40	Self weight			kg	4255		4830		4255		4830		5545		
	41	Weight Distribution	Laden	Front axle	kg	4602		6597		4602		6597		7872		
	42			Rear axle	kg	1453		733		1453		733		1073		
	43		Unladen	Front axle	kg	1702		2173		1702		2173		2345		
	44			Rear axle	kg	2553		2657		2553		2657		3100		
Power&Transmission	45	Battery		Voltage/Capacity		V/Ah	12/90									
	46	Engine	Model			S4S				4TNE98-BQFLC						
	47		Manufacture			MITSUBISHI				YANMAR						
	48		Rated output/r.p.m.		Kw	35.3/2250				42.1/2300						
	49		Rated torque/r.p.m.		N.m	182/1800				196.3/1700						
	50		No. of cylinder			4				4						
	51		Bore×Stroke		mm	94×120				98×110						
	52		Displacement		L	3.331				3.318						
	53		Fuel tank capacity		L	55				55						
	54	Transmission	Manufacture			China				China						
	55		Type			Powershift				Powershift						
	56		Stage	F/R		2/1				2/1						
57	Operating pressure			Mpa	16.5		20		16.5		20		20			

Type	Model	Max. fork height	Overall height			Free lift						Front Overhang			Tilt range		Capacity at max. height					
						Lowered			With backrest						Without backrest			FWD	BWD	Load Center 500mm		
			Without side shift carriage																	With side shift carriage		
			1.8T	2.5T	3.5T	1.8T	2.5T	3.5T	1.8T	2.5T	3.5T	1.8T	2.5T	3.5T	Deg	Deg	1.8T			2.5T	3.5T	1.8T
		mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	Deg	Deg	kg	kg	kg	kg	kg	kg
wide view 2-stage mast	M270	2700	1998	2085	2180	105	160	165	105	160	165	509	585	600	10°	12°	1800	2500	3500	1800	2500	3200
	M300	3000	2148	2235	2330	105	160	165	105	160	165	509	585	600	10°	12°	1800	2500	3500	1800	2500	3200
	M330	3300	2298	2385	2480	105	160	165	105	160	165	509	585	600	10°	12°	1800	2500	3500	1800	2500	3200
	M350	3500	2398	2485	2580	105	160	165	105	160	165	509	585	600	10°	12°	1800	2500	3500	1800	2500	3200
	M370	3700	2498	2585	2680	105	160	165	105	160	165	509	585	600	10°	12°	1800	2500	3500	1800	2500	3200
	M400	4000	2698	2785	2880	105	160	165	105	160	165	509	585	600	10°	12°	1800	2500	3400	1800	2500	3100
	M450	4500	2948	3035	3130	105	160	165	105	160	165	509	585	600	10°	12°	1500	2200	3100	1400	2100	2900
	M500	5000	3198	—	—	105	—	—	105	—	—	509	—	—	6°	6°	1300	—	—	1200	—	—
	M550	5500	3498	—	—	105	—	—	105	—	—	509	—	—	6°	6°	1000	—	—	900	—	—
M600	6000	3748	—	—	105	—	—	105	—	—	509	—	—	6°	6°	800	—	—	400	—	—	
Full free 3-stage mast	TFM360	3600	1908	—	—	725	—	—	1105	—	—	509	—	—	10°	12°	1800	—	—	1800	—	—
	TFM370	3700	—	1990	2115		798	790		1243	1246	—	590	620	—	—	—	2500	3500		2400	3100
	TFM400	4000	2033	2080	2205	850	888	890	1230	1333	1336	509	590	620	10°	12°	1800	2500	3400	1800	2400	3100
	TFM435	4350	2158	2205	2330	980	1013	1015	1360	1458	1461	509	590	620	10°	12°	1800	2400	3000	1600	2200	2900
	TFM450	4500	2208	—	—	1030	—	—	1410	—	—	509	—	—	10°	12°	1500	—	—	1400	—	—
	TFM470	4700	—	2320	2445	—	1128	1130	—	1573	1576	—	590	620	—	—	—	2100	2800	—	1900	2500
	TFM480	4800	2308	—	—	1130	—	—	1510	—	—	509	—	—	10°	12°	1400	—	—	1300	—	—
	TFM500	5000	2408	2455	2580	1230	1263	1265	1610	1708	1710	509	590	620	6°	6°	1300	1900	2600	1200	1600	2300
	TFM550	5500	2573	2620	2745	1390	1428	1430	1770	1873	1875	509	590	620	6°	6°	1000	1500	2300	900	1200	2100
	TFM600	6000	2758	2805	2930	1580	1613	1615	1960	2058	2060	509	590	620	6°	6°	800	1200	1900	400	800	1600
TFM650	6500	2973	3020	3145	1790	1828	1830	2180	2273	2275	509	590	620	6°	6°	350	700	1300	200	400	1100	



2WD 4T/5T							
General	1	Model		FD40-TRM-2P	FD50-TRM-2P		
	2	Power type		Diesel	Diesel		
	3	Rated capacity		Kg	4000	5000	
	4	Load centre		mm	600	600	
Characteristic&Dimension	5	Lifting height		mm	3000	3000	
	6	Free lift height		mm	145	145	
	7	Fork size	L×W×T	mm	1220*150*50	1220*150*55	
	8	Fork regulating range	Min./Max.	mm	300/1954	300/1954	
	9	Mast tilt angle	F/R	Deg	15°/15°	15°/15°	
	10	Front overhang		mm	732	732	
	11	Rear overhang		mm	764	764	
	12	Ground clearance	Middle of frame(Unladen/Laden)	mm	374/354	374/354	
	13		Bottom of mast(Unladen/Laden)	mm	320/320	320/320	
	14	Overall dimensions	Length to face of fork(without fork)	mm	3622	3622	
	15		Overall length(with fork)	mm	4837	4837	
	16		Wheel width	mm	2055	2055	
	17		Frame width	mm	2067	2067	
	18		Mast lowered height	mm	2565	2565	
	19		Mast extended height(with backrest)	mm	4170	4170	
	20		Overhead guard height	mm	2545	2545	
	21		Min. turning radius		mm	3550	3550
Performance	22	Speed	Travel(Unladen/Laden)	Km/h	22/21	22/21	
	23		Lifting(Unladen/Laden)	mm/s	570/500	570/500	
	24	Pressure	Laden lifting(normal/max)	Mpa	15.6/19	15.6/19	
	25		Unladen lifting(normal/max)	Mpa	2.6/19	2.6/19	
	26		Laden tilting(normal/max)	Mpa	front 1;rear 12/front 19; rear 19		
	27	Max. Drawbar pull(Laden/unladen)		KN	50	50	
28	Max. Gradeability(Loaden/unladen)		%	30	30		
Tyre	29	Tyre	Front		445-65-22.5PR/1175	445-65-22.5PR/1175	
			Rear		12.5/80-18/958	12.5/80-18/958	
	30	Tread	Front	mm	1620	1620	
			Rear	mm	1720	1720	
	31	Wheelbase		mm	2125	2125	
Weight	32	Self weight		kg	7960	8450	
	33	Braking distance		m	≤6	≤6	
Power&Transmission	34	Engine	Model		1104C-44T	1104C-44T	
	35		Manufacture		PERKINS	PERKINS	
	36		Rated output/r.p.m.		Kw	74.5/2300	74.5/2300
	37		Rated torque/r.p.m.		N.m	415/1350	415/1350
	38		No. of cylinder			4	4
	39		Bore×Stroke		mm	105×127	105×127
	40		Displacement		L	4.4	4.4
	41	Manufacture			China	China	
	42	Transmission	Type		Powershift	Powershift	
	43	Stage	F/R			2/1	2/1

Type	Model	Max. fork height	Overall height Lowered	Free lift		Front Overhang		Tilt range		Capacity			
				With backrest	Without backrest	4.0T	5.0T	FWD	BWD	capacity at max. height			
										Without side shift carriage		With side shift carriage	
		mm	mm	mm	mm	mm	mm	Deg	Deg	4.0T	5.0T	4.0T	5.0T
										kg	kg	kg	kg
wide view 2-stage mast	M300	3000	2565	145	145	727	732	15	15	4000	5000	3600	4700
	M330	3300	2715	145	145	727	732	15	15	4000	5000	3600	4700
	M350	3500	2815	145	145	727	732	15	15	4000	5000	3600	4700
	M370	3700	2915	145	145	727	732	15	15	4000	5000	3600	4700
	M400	4000	3115	145	145	727	732	15	15	4000	5000	3600	4700
	M450	4500	3365	145	145	727	732	15	15	3600	4500	3240	4050
Full free 3-stage mast	M500	5000	3615	145	145	727	732	15	15	3200	4000	2800	3600
	TFM400	4000	2560	1000	1350	760	765	15	15	4000	5000	3600	4500
	TFM435	4350	2685	1125	1475	760	765	15	15	3600	4500	3240	4050
	TFM450	4500	2736	1176	1526	760	765	15	15	3200	4000	2880	3600
	TFM470	4700	2802	1242	1592	760	765	15	15	2950	3700	2680	3350
	TFM500	5000	2935	1375	1725	760	765	10	15	2640	3300	2360	2950
	TFM540	5400	3060	1500	1850	760	765	10	15	1920	2400	1720	2150
	TFM600	6000	3300	1740	2090	760	765	10	15	1600	2000	1400	1800



4WD 2.5T/3.5T											
General	1	Model				FD25J-TRM-4Y		FD35J-TRM-4Y			
	2	Power type				diesel		diesel			
	3	Rated capacity			Kg	2500		3500			
	4	Load centre			mm	500		500			
	5	Lift height			mm	3000		3000			
	6	Free lift height			mm	160		165			
Characteristic&Dimension	7	Fork size		L×W×T		mm	1070×125×40		1220×125×45		
	8	Fork regulating range		Min./Max.		mm	250-1560		250-1560		
	9	Mast tilt angle		F/R		Deg	10/12		10/12		
	10	Front overhang			mm	680		680			
	11	Rear overhang			mm	590		597			
	12	Min.ground clearance			mm	394.5		410			
	13	Length to face of fork (without fork)			mm	3182		3227			
	14	Overall width			mm	1980		1980			
	15	Overall dimensions		Mast lowered height		mm	2454		2470		
	Mast extended height (with backrest)			mm	4270		4400				
	Overhead guard height			mm	2250		2250				
	16	Min. turning radius			mm	4275		4295			
	17	Min. right angle stacking aisle width(add load length and clearance)			mm	8375		8395			
Performance	20	Speed		Travel(Unladen)		Km/h	20		20		
	Lifting(Laden)			mm/s	540		450				
	Lowering(Laden)			mm/s	630		540				
	23	Max. Drawbar pull(Laden/unladen)			KN	34.3		34.3			
24	Max. Gradeability(Loaden)			%	38		38				
Tyre	25	Tyre		Front		405/70-20-14PR		405/70-20TL			
	Rear			10.0/75-15.3-14PR		10.0/75-15.3					
	26	Tread		Front		mm	1570		1570		
	Rear			mm	1440		1440				
27	Wheelbase			mm	1950		1950				
Weight	28	Self weight			kg	4900		5750			
	29	Weight Distribution		Laden	Front axle		kg	6290		7990	
	Rear axle				kg	1110		1260			
	31			Unladen	Front axle		kg	2265		2450	
	32				Rear axle		kg	2635		3300	
Power&Transmission	33	Battery		Voltage/Capacity		V/Ah	12/90				
	34	Engine		Model			4TNE98-BQFLC				
	35			Manufacture			YANMAR				
	36			Rated output/r.p.m.		Kw	42.1/2300				
	37			Rated torque/r.p.m.		N.m	196.3/1700				
	38			No. of cylinder			4				
	39			Bore×Stroke		mm	98×110				
	40			Displacement		L	3.319				
	41			Fuel tank capacity		L	3.319				
	42			Transmission		Manufacture			DANA		
	Type	Front axle				112					
		Rear axle				211					
		Transfer case				311					
	46	Stage		F/R			1/1				
	47	Static system pressure			Mpa	40					
	48	Operating pressure(For attachments)			Mpa	20					
	49	Min.right angle stacking aisle width			mm	2980		3000			

Type	Model	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	Deg	Deg	2.5T	3.5T	2.5T	3.5T
wide view 2-stage mast	M270	2320	2320	165	165	165	165	700	700	10	12	3500	3500	3200	3200
	M300	2470	2470	165	165	165	165	700	700	10	12	3500	3500	3200	3200
	M330	2620	2620	165	165	165	165	700	700	10	12	3500	3500	3200	3200
	M350	2720	2720	165	165	165	165	700	700	10	12	3500	3500	3200	3200
	M370	2820	2820	165	165	165	165	700	700	10	12	3500	3500	3200	3200
	M400	3020	3020	165	165	165	165	700	700	10	12	3400	3400	3100	3100
Full free 3-stage mast	M450	3270	3270	165	165	165	165	700	700	10	12	3100	3100	2900	2900
	TFM370	2255	2255	798	798	1243	1243	700	700	10	12	3500	3500	3100	3100
	TFM400	2345	2345	888	888	1333	1333	700	700	10	12	3500	3500	3100	3100
	TFM435	2470	2470	1013	1013	1458	1458	700	700	10	12	3000	3000	2900	2900
	TFM470	2605	2605	1128	1128	1573	1573	700	700	10	12	2800	2800	2500	2500
	TFM500	2720	2720	1263	1263	1708	1708	700	700	6	6	2800	2800	2500	2500
	TFM550	2885	2885	1428	1428	1873	1873	700	700	6	6	2500	2500	2300	2300
	TFM600	3070	3070	1613	1613	2058	2058	700	700	6	6	2100	2100	1800	1800

