

## Diesel Lift Truck

### EX - Series

from 10 to 13.5 t

#### Technical Data as per VDI 2198

		Manufacturer's Designation		FD100T-6	FD115T-6	FD135T-6		
Characteristics	1.2	Model			FD100T-6	FD115T-6	FD135T-6	
	1.3	Power Type	Electric, Diesel, Gasoline, LPG, Cable		Diesel	Diesel	Diesel	
	1.4	Operation Type	Pedestrian, Driver Standing, Sitting, Order Picking		Sitting	Sitting	Sitting	
	1.5	Rated Capacity	Q	Rated Capacity	kg(lb.)	10000(22,000)	11500(25,000)	13500(30,000)
	1.6	Load Center	c	Rated Load Center	mm(in.)	600(24)	600(24)	600(24)
	1.6.1	Alternative Capacity	Q2	Capacity @ 600mm (24in.) Load Center	kg(lb.)	10000(22,000)	11500(25,000)	13500(30,000)
	1.8	Load Distance	x	Front Axle Center to Fork Face	mm(in.)	695(27.4)	715(28.1)	740(29.1)
	1.9	Wheelbase	y		mm(in.)	2800(110.2)	2800(110.2)	3100(122.0)
	Weight	2.1	Service Weight			kg(lb.)	12640(27,840)	13970(30,770)
2.2		Axle Loading	Loaded	Front	kg(lb.)	20605(45,420)	23200(51,140)	24245(57,860)
2.2.1				Rear	kg(lb.)	2035(4,490)	2270(5,000)	2415(5,440)
2.3			Unloaded	Front	kg(lb.)	5980(13,180)	6300(13,890)	6910(15,320)
2.3.1		Rear		kg(lb.)	6660(14,680)	7670(16,910)	8350(18,410)	
Tyres	3.1	Tyre Type	Cushion, Elastic Cushion, Pneumatic, Polyurethane		Pneumatic	Pneumatic	Pneumatic	
	3.2	Tyre Size	Front		9.00-20-14PR(1)	10.000-20-14PR(1)	11.00-20-14PR(1)	
	3.3		Rear		9.00-20-14PR(1)	10.000-20-14PR(1)	11.00-20-14PR(1)	
	3.5	Number of Wheels	Front/Rear (x=driven)		4x/2	4x/2	4x/2	
	3.6	Tread, Front	b10		mm(in.)	1700(66.9)	1700(66.9)	1770(69.7)
	3.7	Tread, Rear	b11		mm(in.)	1900(74.8)	1890(74.4)	1890(74.4)
	Basic Measurement	4.1	Tilting Angle	α/β	Forward/Backward	degree	6/12	6/12
4.2		Mast Height, Lowered	h1	2-stage Std. Mast	mm(in.)	2890(113.8)	3160(124.4)	3170(124.8)
4.3		Std. Free Lift	h2	2-stage Std. Mast, from Ground	mm(in.)	0(0.0)	0(0.0)	0(0.0)
4.4		Std. Lift Height	h3	2-stage Std. Mast, from Ground	mm(in.)	3000(118)	3000(118)	3000(118)
4.5		Mast Height, Extended	h4	2-stage Std. Mast	mm(in.)	4400(173.2)	4760(183.9)	4680(184.3)
4.7		Height, Overhead Guard	h6		mm(in.)	2780(109.4)	2800(110.2)	2810(110.6)
4.19		Length, with Std. Forks	l1		mm(in.)	5465(215.2)	5485(215.9)	5860(230.7)
4.20		Length, to Fork Face	l2		mm(in.)	4245(167.1)	4265(167.9)	4640(182.7)
4.21		Width, at Tyre	b1	Single	mm(in.)	-	-	-
4.21.1			b2	Dual	mm(in.)	2280(89.8)	2310(90.9)	2410(94.9)
4.22		Forks	s/e/l	Thickness/Width/Length	mm(in.)	75x170x1220(3.0x6.7x48.0)	75x185x1220(3.0x7.3x48.0)	80x185x1220(3.1x7.3x48.0)
4.23		Fork Carriage Class	ISO 2328, Type A/B/No.			Pin mount	Pin mount	Pin mount
4.24		Width, Fork Carriage	b3		mm(in.)	2140(84.3)	2140(84.3)	2200(86.6)
4.31		Ground Clearance	m1	under Mast	mm(in.)	250(9.8)	250(9.8)	260(10.2)
4.32			m2	at Center of Wheelbase	mm(in.)	325(12.8)	345(13.6)	350(13.8)
4.33	Right Angle Stacking Aisle	Ast	with 1000 x 1200 pallet, lateral	mm(in.)	4695(184.8)	4715(185.6)	5040(198.4)	
4.34		Ast	with 800 x 1200 pallet, straight	mm(in.)	-	-	-	
4.35	Turning Radius	Wa		mm(in.)	4000(157.5)	4000(157.5)	4300(169.3)	
Performance	5.1	Travel Speed (FWD)	Loaded, 1st/2nd/3rd		km/h(mph)	8.5/18/28(5.3/11.2/17.4)	8.5/19/28(5.3/11.8/17.4)	9/19.5/27.5(5.6/12.1/17.1)
	5.1.1		Unloaded 1st/2nd/3rd		km/h(mph)	9/20/32(5.6/12.4/19.9)	9/21/32(5.6/13.0/19.9)	9.5/21/32.5(5.9/13.0/20.2)
	5.2	Lifting Speed	Loaded/Unloaded		mm/s(fpm)	460/485(91/95)	415/440(82/87)	345/365(68/72)
	5.3	Lowering Speed	Loaded/Unloaded		mm/s(fpm)	400/430(79/85)	400/430(79/85)	400/430(79/85)
	5.6	Max. Drawbar Pull	Loaded at 1.5km/h		kN(lb.)	81.7(18,400)	79.4(17,870)	77.8(17,510)
	5.8	Max. Gradeability	Loaded at 1.5km/h		%	38	32	28
	5.10	Service Brake	Operation/Control			Foot/Hydraulic, Powered		
	5.11	Parking Brake	Operation/Control			Hand/Mechanical		
5.12	Steering	Type			Hydraulic Power Steering			
I.C.Engine	6.4	Battery	Voltage/Capacity at 5-hour rating		V/Ah	24/100	24/100	24/100
	7.1	Make / Model				ISUZU/6BGIT	ISUZU/6BGIT	ISUZU/6BGIT
	7.2	Rated Output	(SAE Gross)		kW (HP)	110(150)	110(150)	110(150)
	7.3	Rated RPM			min <sup>-1</sup>	2200	2200	2200
	7.3.1	Max. Torque	(SAE Gross)		bft)@min <sup>-1</sup>	510(376)@1600	510(376)@1600	510(376)@1600
	7.4	No. of Cylinder/Displacement			cm <sup>3</sup> (cu.in.)	6/6494(396)	6/6494(396)	6/6494(396)
	7.6	Fuel Tank Capacity			.tr(US Gal)	220(58)	220(58)	220(58)
Others	8.2	Relief Pressure for Attachment			bar(psi)	215(3,100)	215(3,100)	215(3,100)
	8.2.1	Tank Capacity	(Hydraulic)		.tr(US Gal)	150(39.6)	150(39.6)	180(47.6)
	8.6	Clutch				Torque Converter	Torque Converter	Torque Converter
	8.7	Transmission	(Type / Stage)			TORQFLOW	TORQFLOW	TORQFLOW

## Mast Specifications

### Mast data FD100T-6

Mast Type	Mast Lift Height	Lowered Height	Raised Height	Free Lift	Tilt Angle F/R	Pneum. Double Tyres	Mast Weight
	h3 (mm)	h1 (mm)	h4 (mm)	h2/h5(mm)	(degree)	(kg)@600mm	(kg)
FV (x=620mm)  LC=600mm	2800	2790	4200	0	6/12	10000	-50
	3000	2890	4400	0	6/12	10000	0
	3300	3040	4700	0	6/12	10000	+60
	3500	3140	4900	0	6/12	10000	+110
	3700	3240	5100	0	6/12	10000	+150
	4000	3390	5400	0	6/12	10000	+260
	4500	3740	6000	0	6/12	10000	+410
	5000	4140	6650	0	6/12	10000	+620
	5500	4440	7200	0	6/12	9000	+770
6000	4690	7700	0	6/12	8000	+880	

### Mast data FD115T-6

Mast Type	Mast Lift Height	Lowered Height	Raised Height	Free Lift	Tilt Angle F/R	Pneum. Double Tyres	Mast Weight
	h3 (mm)	h1 (mm)	h4 (mm)	h2/h5(mm)	(degree)	(kg)@600mm	(kg)
FV (x=640mm)  LC=600mm	2800	3060	4470	0	6/12	11500	-220
	3000	3160	4670	0	6/12	11500	0
	3300	3310	4970	0	6/12	11500	+40
	3500	3410	5170	0	6/12	11500	+110
	3700	3510	5370	0	6/12	11500	+160
	4000	3760	5770	0	6/12	11500	+310
	4500	4010	6270	0	6/12	11500	+420
	5000	4460	6970	0	6/12	11500	+660
	5500	4710	7470	0	6/12	10000	+760
6000	4960	7970	0	6/12	9000	+900	

### Mast data FD135T-6

Mast Type	Mast Lift Height	Lowered Height	Raised Height	Free Lift	Tilt Angle F/R	Pneum. Double Tyres	Mast Weight
	h3 (mm)	h1 (mm)	h4 (mm)	h2/h5(mm)	(degree)	(kg)@600mm	(kg)
FV (x=660mm)  LC=600mm	2800	3070	4480	0	6/12	13500	-80
	3000	3170	4680	0	6/12	13500	0
	3300	3320	4980	0	6/12	13500	+70
	3500	3420	5180	0	6/12	13500	+110
	3700	3520	5380	0	6/12	13500	+160
	4000	3770	5780	0	6/12	13500	+320
	4500	4020	6280	0	6/12	13500	+430
	5000	4470	6980	0	6/12	13500	+680
	5500	4720	7480	0	6/12	12000	+790
6000	4970	7980	0	6/12	11000	+900	