

# EX SERIES

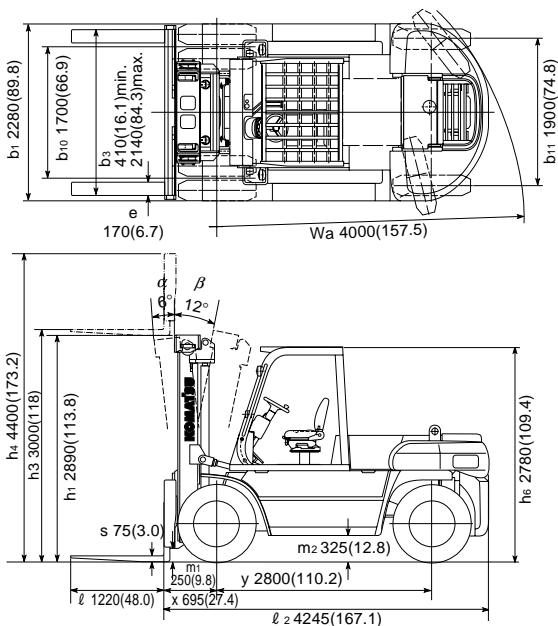
## FD100T-6

# EX SERIES-2

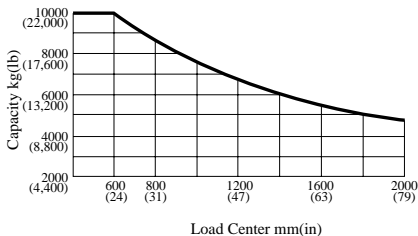
## FD100T-6

Characteristics	1.2	Model	Manufacturer's Designation		<b>FD100T-6</b>	
	1.3	Power Type	Electric, Diesel, Gasoline, LPG, Cable		Diesel	
	1.4	Operation Type	Pedestrian, Driver Standing, Sitting, Order Picking		Sitting	
	1.5	Rated Capacity	Q	Rated Capacity	kg(lb.)	10000(22,000)
	1.6	Load Center	c	Rated Load Center	mm(in.)	600(24)
	1.8	Load Distance	x	Front Axle Center to Fork Face	mm(in.)	695(27.4)
	1.9	Wheelbase	y		mm(in.)	2800(110.2)
	2.1	Service Weight			kg(lb.)	12640(27,840)
	Weight	2.2	Axle Loading	Loaded	Front	kg(lb.)
2.2.1		Rear			kg(lb.)	2035(4,490)
2.3		Unloaded		Front	kg(lb.)	5980(13,180)
2.3.1				Rear	kg(lb.)	6660(14,680)
Tyre		3.1		Tyre Type	Cushion, Elastic Cushion, Pneumatic, Polyurethane	
	3.2	Tyre Size	Front		9.00-20-14PR(I)	
	3.3		Rear		9.00-20-14PR(I)	
	3.5	Number of Wheel	Front/Rear(x=driven)		4x/2	
	3.6	Tread, Front	b <sub>10</sub>		mm(in.)	1700(66.9)
	3.7	Tread, Rear	b <sub>11</sub>		mm(in.)	1900(74.8)
	Basic Measurement	4.1	Tilting Angle	$\alpha/\beta$		degree
4.2		Mast Height, Lowered	h <sub>1</sub>		mm(in.)	2890(113.8)
4.3		Std. Free Lift	h <sub>2</sub>		mm(in.)	0(0.0)
4.4		Std. Lift Height	h <sub>3</sub>		mm(in.)	3000(118)
4.5		Mast Height, extended	h <sub>4</sub>		mm(in.)	4400(173.2)
4.7		Height, Overhead Guard	h <sub>6</sub>		mm(in.)	2780(109.4)
4.19		Length, with Std. Forks	$\ell_1$		mm(in.)	5465(215.2)
4.20		Length, to Fork Face	$\ell_2$		mm(in.)	4245(167.1)
4.21		Width, at Tyre	b <sub>1</sub>		mm(in.)	2280(89.8)
4.22		Forks	s/e/ℓ	Thickness/Width/Length	mm(in.)	75x170x1220(3.0x6.7x48.0)
4.23		Fork Carriage Class				Pin mount
4.24		Width, Fork Carriage	b <sub>3</sub>		mm(in.)	2140(84.3)
4.31		Ground Clearance	m <sub>1</sub>	Under Mast	mm(in.)	250(9.8)
4.32			m <sub>2</sub>	at Center of Wheelbase	mm(in.)	325(12.8)
4.33	Right Angle Stacking Aisle	Ast	plus load length	mm(in.)	4695(184.8)	
4.35	Turning Radius	Wa		mm(in.)	4000(157.5)	
4.36	Distance to Turning Center	b <sub>13</sub>	from chassis center	mm(in.)	1480(58.3)	
Performance	5.1	Travel speed (FWD)	Loaded, 1st/2nd/3rd		km/h(mph)	8.5/18/28(5.3/11.2/17.4)
	5.1.1		Unloaded, 1st/2nd/3rd		km/h(mph)	9/20/32(5.6/12.4/19.9)
	5.2	Lifting Speed	Loaded/Unloaded		mm/s(fpm)	460/485(91/95)
	5.3	Lowering Speed	Loaded/Unloaded		mm/s(fpm)	400/430(79/85)
	5.6	Max. Drawbar Pull	Loaded at 1.5km/h		kN(lb)	81.7(18,400)
	5.8	Max. Gradeability	Loaded at 1.5km/h		%	38
	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
	7.1	Make/Model				ISUZU/6BG1T
	7.2	Rated Output, SAE gross			kW(HP)	118(160)
	7.3	Rated RPM			min <sup>-1</sup>	2200
	7.3.1	Max. Torque, SAE gross			Nm(lbft)@min <sup>-1</sup>	588(434)@1600
	7.4	No. of Cylinder /Displacement			cm <sup>3</sup> (cu.in)	6/6494(396)
	7.6	Fuel Tank Capacity			Ltr(US Gal)	220(58)
Others	8.2	Relief Pressure for Attachment			bar(psi)	215(3,100)
	8.2.1	Tank Capacity			Ltr(US Gal)	150(39.6)
	8.6	Clutch				Torque Converter
	8.7	Transmission				TORQFLOW

FD100T-6



● CAPACITY CHART



● MAST DATA

		Lifting Speed mm/s(fpm)		Lowering Speed mm/s(fpm)		Load Distance (mm/in)
		Loaded	Unloaded	Loaded	Unloaded	
FD100T-6	FV	460(91)	485(95)	400(79)	430(85)	695(27.4)
	FFV					
TFV						

● TYRES

		Tyre Size	Rim Size	Tread mm(in)	Overall Width mm(in)	Additional Weight kg(lb)
Front	Pneumatic	9.00-20-14PR(Double ID)	7.00Tx20	1700(66.9)	2280(89.8)	Std.
	Elastic cushion	9.00-20(Double ID))	7.00Tx20	1700(66.9)	2280(89.8)	468(1,030)
Rear	Pneumatic	9.00-20-14PR (ID)	7.00Tx20	1900(74.8)		Std.
	Elastic cushion	9.00-20 (ID)	7.00Tx20	1900(74.8)		234(520)



# EX SERIES

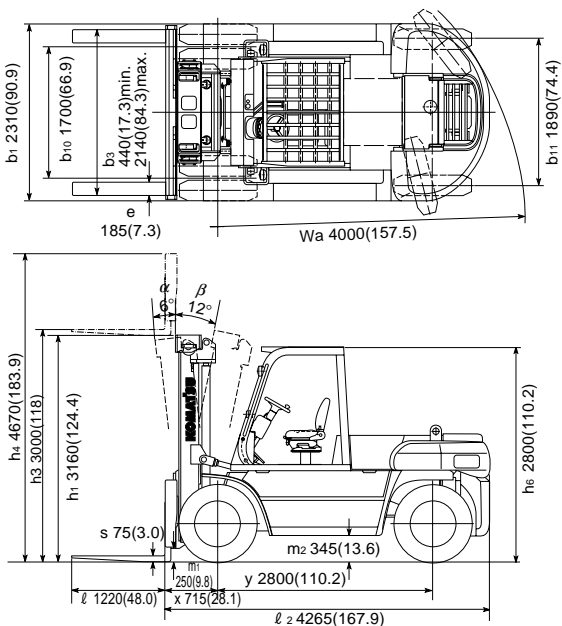
## FD115T-6

**EX SERIES-6**

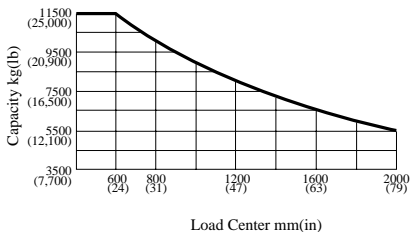
**FD115T-6**

Characteristics	1.2	Model	Manufacturer's Designation		<b>FD115T-6</b>	
	1.3	Power Type	Electric, Diesel, Gasoline, LPG, Cable		Diesel	
	1.4	Operation Type	Pedestrian, Driver Standing, Sitting, Order Picking		Sitting	
	1.5	Rated Capacity	Q	Rated Capacity	kg(lb.)	11500(25,000)
	1.6	Load Center	x	Rated Load Center	mm(in.)	600(24)
	1.8	Load Distance	c	Front Axle Center to Fork Face	mm(in.)	715(28.1)
	1.9	Wheelbase	y		mm(in.)	2800(110.2)
	2.1	Service Weight			kg(lb.)	13970(30,770)
	Weight	2.2	Axle Loading	Loaded	Front	kg(lb.)
2.2.1		Rear			kg(lb.)	2270(5,000)
2.3		Unloaded		Front	kg(lb.)	6300(13,890)
2.3.1				Rear	kg(lb.)	7670(16,910)
Tyre		3.1	Tyre Type	Cushion, Elastic Cushion, Pneumatic, Polyurethane		Pneumatic
	3.2	Tyre Size	Front		10.00-20-14PR(I)	
	3.3		Rear		10.00-20-14PR(I)	
	3.5	Number of Wheel	Front/Rear(x=driven)		4x/2	
	3.6	Tread, Front	b <sub>10</sub>		mm(in.)	1700(66.9)
	3.7	Tread, Rear	b <sub>11</sub>		mm(in.)	1890(74.4)
	Basic Measurement	4.1	Tilting Angle	$\alpha/\beta$		degree
4.2		Mast Height, Lowered	h <sub>1</sub>		mm(in.)	3160(124.4)
4.3		Std. Free Lift	h <sub>2</sub>		mm(in.)	0(0.0)
4.4		Std. Lift Height	h <sub>3</sub>		mm(in.)	3000(118)
4.5		Mast Height, extended	h <sub>4</sub>		mm(in.)	4670(183.9)
4.7		Height, Overhead Guard	h <sub>6</sub>		mm(in.)	2800(110.2)
4.19		Length, with Std. Forks	$\ell_1$		mm(in.)	5485(215.9)
4.20		Length, to Fork Face	$\ell_2$		mm(in.)	4265(167.9)
4.21		Width, at Tyre	b <sub>1</sub>		mm(in.)	2310(90.9)
4.22		Forks	s/e/ℓ	Thickness/Width/Length	mm(in.)	75x185x1220(3.0x7.3x48.0)
4.23		Fork Carriage Class				Pin mount
4.24		Width, Fork Carriage	b <sub>3</sub>		mm(in.)	2140(84.3)
4.31		Ground Clearance	m <sub>1</sub>	Under Mast	mm(in.)	250(9.8)
4.32			m <sub>2</sub>	at Center of Wheelbase	mm(in.)	345(13.6)
4.33	Right Angle Stacking Aisle	Ast	plus load length	mm(in.)	4715(185.6)	
4.35	Turning Radius	Wa		mm(in.)	4000(157.5)	
4.36	Distance to Turning Center	b <sub>13</sub>	from chassis center	mm(in.)	1480(58.3)	
Performance	5.1	Travel speed (FWD)	Loaded, 1st/2nd/3rd		km/h(mph)	8.5/19/28(5.3/11.8/17.4)
	5.1.1		Unloaded, 1st/2nd/3rd		km/h(mph)	9/21/32(5.6/13.0/19.9)
	5.2	Lifting Speed	Loaded/Unloaded		mm/s(fpm)	415/440(82/87)
	5.3	Lowering Speed	Loaded/Unloaded		mm/s(fpm)	400/430(79/85)
	5.6	Max. Drawbar Pull	Loaded at 1.5km/h		kN(lb)	79.4(17,870)
	5.8	Max. Gradeability	Loaded at 1.5km/h		%	32
	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
	7.1	Make/Model				ISUZU/6BG1T
	7.2	Rated Output,SAE gross			kW(HP)	118(160)
	7.3	Rated RPM			min <sup>-1</sup>	2200
	7.3.1	Max. Torque, SAE gross			Nm(lbft)@min <sup>-1</sup>	588(434)@1600
	7.4	No. of Cylinder /Displacement			cm <sup>3</sup> (cu.in)	6/6494(396)
	7.6	Fuel Tank Capacity			Ltr(US Gal)	220(58)
Others	8.2	Relief Pressure for Attachment			bar(psi)	215(3,100)
	8.2.1	Tank Capacity			Ltr(US Gal)	150(39.6)
	8.6	Clutch				Torque Converter
	8.7	Transmission				TORQFLOW

FD115T-6



● CAPACITY CHART



● MAST DATA

		Lifting Speed mm/s(fpm)		Lowering Speed mm/s(fpm)		Load Distance (mm/in)
		Loaded	Unloaded	Loaded	Unloaded	
FD115T-6	FV	415(82)	440(87)	400(79)	430(85)	715(28.1)
	FFV					
TFV						

● TYRES

		Tyre Size	Rim Size	Tread mm(in)	Overall Width mm(in)	Additional Weight kg(lb)
Front	Pneumatic	10.00-20-14PR(Double ID)	7.50Vx20	1700(66.9)	2310(90.9)	Std.
	Elastic cushion	10.00-20(Double ID))	7.00Tx20	1700(66.9)	2310(90.9)	436(960)
Rear	Pneumatic	10.00-20-14PR (ID)	7.50Vx20	1890(74.4)		Std.
	Elastic cushion	10.00-20 (ID)	7.00Tx20	1890(74.4)		221(490)

**EX SERIES-8**

**2-stage View Mast**

**Model:FD115T-6**

Max. Fork Height	Overall Height				Free Lift		Tilting Angle		Capacity at 600mm(24") Load Center						Mast Weight Standard ±	
	Lowered		Extended		mm	in	degree	degree	Front Double Tyres		kg		lb		kg	lb
	mm	in	mm	in					kg	lb	kg	lb	kg	lb		
2800	3060	120.5	4470	1760	0	0	6	12	11500	25,000					-220	-485
3000	3160	124.4	4670	183.9	0	0	6	12	11500	25,000					0	0
3300	3310	130.3	4970	195.7	0	0	6	12	11500	25,000					+40	+90
3500	3410	134.3	5170	203.5	0	0	6	12	11500	25,000					+110	+240
3700	3510	138.2	5370	211.4	0	0	6	12	11500	25,000					+160	+350
4000	3760	148.0	5770	219.3	0	0	6	12	11500	25,000					+310	+680
4500	4010	157.9	6270	246.8	0	0	6	12	11500	25,000					+420	+925
5000	4460	175.6	6970	274.4	0	0	6	12	11500	25,000					+660	+1,455
5500	4710	185.4	7470	294.1	0	0	6	12	10000	22,000					+760	+1,675
6000	4960	195.3	7970	313.8	0	0	6	12	9000	19,800					+900	+1,985

Distance from front wheel center to fork carriage : 640 mm(25.2in)

Standard weight 2770 kg(6,100lb) without forks

# EX SERIES

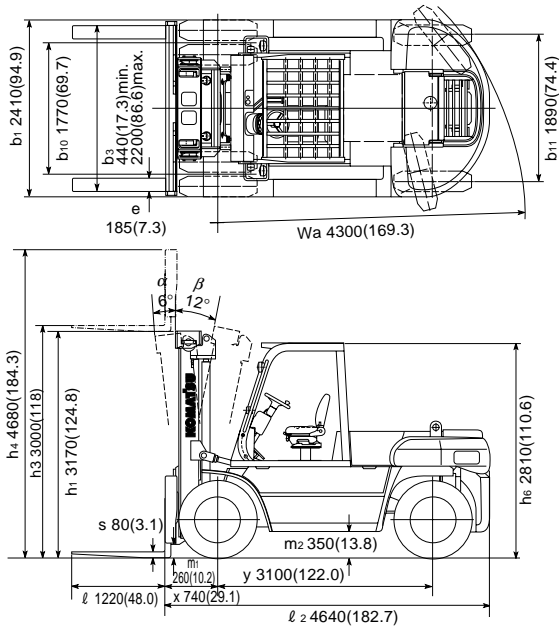
## FD135T-6

# EX SERIES-10

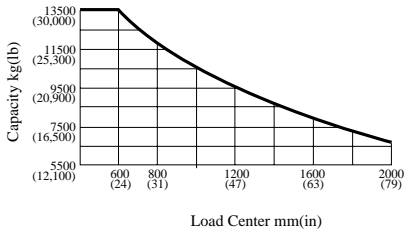
## FD135T-6

Characteristics	1.2	Model	Manufacturer's Designation		<b>FD135T-6</b>	
	1.3	Power Type	Electric, Diesel, Gasoline, LPG, Cable		Diesel	
	1.4	Operation Type	Pedestrian, Driver Standing, Sitting, Order Picking		Sitting	
	1.5	Rated Capacity	Q	Rated Capacity	kg(lb.)	13500(30,000)
	1.6	Load Center	c	Rated Load Center	mm(in.)	600(24)
	1.8	Load Distance	x	Front Axle Center to Fork Face	mm(in.)	740(29.1)
	1.9	Wheelbase	y		mm(in.)	3100(122.0)
	2.1	Service Weight			kg(lb.)	15260(33,610)
	Weight	2.2	Axle Loading	Loaded	Front	kg(lb.)
2.2.1		Rear			kg(lb.)	2415(5,440)
2.3		Unloaded		Front	kg(lb.)	6910(15,320)
2.3.1				Rear	kg(lb.)	8350(18,410)
Tyre		3.1		Tyre Type	Cushion, Elastic Cushion, Pneumatic, Polyurethane	
	3.2	Tyre Size	Front		11.00-20-14PR(I)	
	3.3		Rear		11.00-20-14PR(I)	
	3.5	Number of Wheel	Front/Rear(x=driven)		4x/2	
	3.6	Tread, Front	b <sub>10</sub>		mm(in.)	1770(69.7)
	3.7	Tread, Rear	b <sub>11</sub>		mm(in.)	1890(74.4)
	Basic Measurement	4.1	Tilting Angle	$\alpha/\beta$		degree
4.2		Mast Height, Lowered	h <sub>1</sub>		mm(in.)	3170(124.8)
4.3		Std. Free Lift	h <sub>2</sub>		mm(in.)	0(0.0)
4.4		Std. Lift Height	h <sub>3</sub>		mm(in.)	3000(118)
4.5		Mast Height, extended	h <sub>4</sub>		mm(in.)	4680(184.3)
4.7		Height, Overhead Guard	h <sub>6</sub>		mm(in.)	2810(110.6)
4.19		Length, with Std. Forks	$\ell_1$		mm(in.)	5860(230.7)
4.20		Length, to Fork Face	$\ell_2$		mm(in.)	4640(182.7)
4.21		Width, at Tyre	b <sub>1</sub>		mm(in.)	2410(94.9)
4.22		Forks	s/e/ℓ	Thickness/Width/Length	mm(in.)	80x185x1220(3.1x7.3x48.0)
4.23		Fork Carriage Class				Pin mount
4.24		Width, Fork Carriage	b <sub>3</sub>		mm(in.)	2200(86.6)
4.31		Ground Clearance	m <sub>1</sub>	Under Mast	mm(in.)	260(10.2)
4.32			m <sub>2</sub>	at Center of Wheelbase	mm(in.)	350(13.8)
4.33	Right Angle Stacking Aisle	Ast	plus load length	mm(in.)	5040(198.4)	
4.35	Turning Radius	Wa		mm(in.)	4300(169.3)	
4.36	Distance to Turning Center	b <sub>13</sub>	from chassis center	mm(in.)	1555(61.2)	
Performance	5.1	Travel speed (FWD)	Loaded, 1st/2nd/3rd		km/h(mph)	9/19.5/27.5(5.6/12.1/17.1)
	5.1.1		Unloaded, 1st/2nd/3rd		km/h(mph)	9.5/21/32.5(5.9/13.0/20.2)
	5.2	Lifting Speed	Loaded/Unloaded		mm/s(fpm)	345/365(68/72)
	5.3	Lowering Speed	Loaded/Unloaded		mm/s(fpm)	400/430(79/85)
	5.6	Max. Drawbar Pull	Loaded at 1.5km/h		kN(lb)	77.8(17,510)
	5.8	Max. Gradeability	Loaded at 1.5km/h		%	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
	7.1	Make/Model				ISUZU/6BG1T
	7.2	Rated Output, SAE gross			kW(HP)	118(160)
	7.3	Rated RPM			min <sup>-1</sup>	2200
	7.3.1	Max. Torque, SAE gross			Nm(lbft)@min <sup>-1</sup>	510(376)@1600
	7.4	No. of Cylinder /Displacement			cm <sup>3</sup> (cu.in)	6/6494(396)
	7.6	Fuel Tank Capacity			Ltr(US Gal)	260(69)
Others	8.2	Relief Pressure for Attachment			bar(psi)	215(3,100)
	8.2.1	Tank Capacity			Ltr(US Gal)	180(47.6)
	8.6	Clutch				Torque Converter
	8.7	Transmission				TORQFLOW

FD135T-6



● CAPACITY CHART



● MAST DATA

		Lifting Speed mm/s(fpm)		Lowering Speed mm/s(fpm)		Load Distance (mm/in)
		Loaded	Unloaded	Loaded	Unloaded	
FD135T-6	EV	345(68)	365(72)	400(79)	430(85)	740(29.1)
	FFV					
TFV						

● TYRES

		Tyre Size	Rim Size	Tread mm(in)	Overall Width mm(in)	Additional Weight kg(lb)
Front	Pneumatic	11.00-20-14PR(Double ID)	7.50Vx20	1770(69.7)	2410(94.9)	Std.
	Elastic cushion					
Rear	Pneumatic	11.00-20-14PR (ID)	7.50Vx20	1890(74.4)		Std.
	Elastic cushion					



# EX SERIES

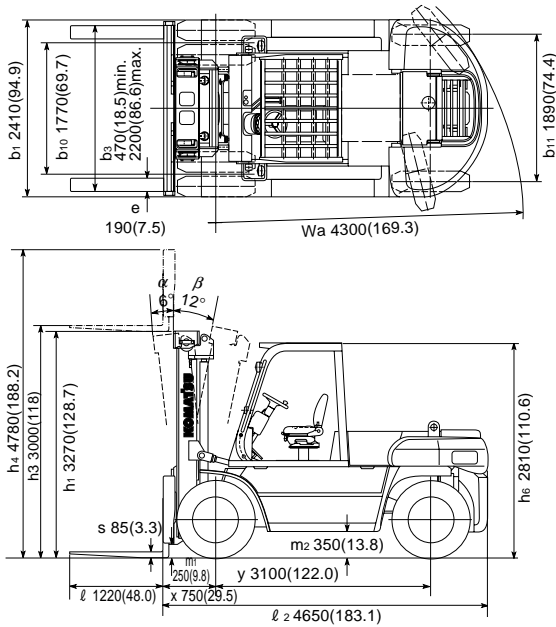
## FD150ET-6

# EX SERIES-14

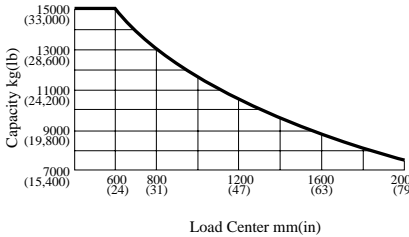
## FD150ET-6

Characteristics	1.2	Model	Manufacturer's Designation		<b>FD150ET-6</b>	
	1.3	Power Type	Electric, Diesel, Gasoline, LPG, Cable		Diesel	
	1.4	Operation Type	Pedestrian, Driver Standing, Sitting, Order Picking		Sitting	
	1.5	Rated Capacity	Q	Rated Capacity	kg(lb.)	15000(33,000)
	1.6	Load Center	c	Rated Load Center	mm(in.)	600(24)
	1.8	Load Distance	x	Front Axle Center to Fork Face	mm(in.)	750(29.5)
	1.9	Wheelbase	y		mm(in.)	3100(122.0)
	2.1	Service Weight			kg(lb.)	16300(35,900)
	Weight	2.2	Axle Loading	Loaded	Front	kg(lb.)
2.2.1		Rear			kg(lb.)	2720(6,000)
2.3		Unloaded		Front	kg(lb.)	7050(15,540)
2.3.1				Rear	kg(lb.)	9250(20,340)
Tyre		3.1		Tyre Type	Cushion, Elastic Cushion, Pneumatic, Polyurethane	
	3.2	Tyre Size	Front		11.00-20-16PR(I)	
	3.3		Rear		11.00-20-16PR(I)	
	3.5	Number of Wheel	Front/Rear(x=driven)		4x/2	
	3.6	Tread, Front	b <sub>10</sub>		mm(in.)	1770(69.7)
	3.7	Tread, Rear	b <sub>11</sub>		mm(in.)	1890(74.4)
	Basic Measurement	4.1	Tilting Angle	$\alpha/\beta$		degree
4.2		Mast Height, Lowered	h <sub>1</sub>		mm(in.)	3270(128.7)
4.3		Std. Free Lift	h <sub>2</sub>		mm(in.)	0(0.0)
4.4		Std. Lift Height	h <sub>3</sub>		mm(in.)	3000(118)
4.5		Mast Height, extended	h <sub>4</sub>		mm(in.)	4780(188.2)
4.7		Height, Overhead Guard	h <sub>6</sub>		mm(in.)	2810(110.6)
4.19		Length, with Std. Forks	$\ell_1$		mm(in.)	5870(231.1)
4.20		Length, to Fork Face	$\ell_2$		mm(in.)	4650(183.1)
4.21		Width, at Tyre	b <sub>1</sub>		mm(in.)	2410(94.9)
4.22		Forks	s/e/ℓ	Thickness/Width/Length	mm(in.)	85x190x1220(3.3x7.5x48.0)
4.23		Fork Carriage Class				Pin mount
4.24		Width, Fork Carriage	b <sub>3</sub>		mm(in.)	2200(86.6)
4.31		Ground Clearance	m <sub>1</sub>	Under Mast	mm(in.)	250(9.8)
4.32			m <sub>2</sub>	at Center of Wheelbase	mm(in.)	350(13.8)
4.33	Right Angle Stacking Aisle	Ast	plus load length	mm(in.)	5050(198.8)	
4.35	Turning Radius	Wa		mm(in.)	4300(169.3)	
4.36	Distance to Turning Center	b <sub>13</sub>	from chassis center	mm(in.)	1555(61.2)	
Performance	5.1	Travel speed (FWD)	Loaded, 1st/2nd/3rd		km/h(mph)	9/19.5/27.5(5.6/12.1/17.1)
	5.1.1		Unloaded, 1st/2nd/3rd		km/h(mph)	9.5/21/32.5(5.9/13.0/20.2)
	5.2	Lifting Speed	Loaded/Unloaded		mm/s(fpm)	340/360(67/71)
	5.3	Lowering Speed	Loaded/Unloaded		mm/s(fpm)	400/430(79/85)
	5.6	Max. Drawbar Pull	Loaded at 1.5km/h		kN(lb)	76.8(17,280)
	5.8	Max. Gradeability	Loaded at 1.5km/h		%	25
	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
	7.1	Make/Model				ISUZU/6BG1T
	7.2	Rated Output, SAE gross			kW(HP)	118(160)
	7.3	Rated RPM			min <sup>-1</sup>	2200
	7.3.1	Max. Torque, SAE gross			Nm(lbft)@min <sup>-1</sup>	588(434)@1600
	7.4	No. of Cylinder /Displacement			cm <sup>3</sup> (cu.in)	6/6494(396)
	7.6	Fuel Tank Capacity			Ltr(US Gal)	260(69)
Others	8.2	Relief Pressure for Attachment			bar(psi)	215(3,100)
	8.2.1	Tank Capacity			Ltr(US Gal)	180(47.6)
	8.6	Clutch				Torque Converter
	8.7	Transmission				TORQFLOW

FD150ET-6



● CAPACITY CHART



● MAST DATA

		Lifting Speed mm/s(fpm)		Lowering Speed mm/s(fpm)		Load Distance (mm/in)
		Loaded	Unloaded	Loaded	Unloaded	
FD150ET-6	FV	340(67)	360(71)	400(79)	430(85)	750(29.5)
	FFV					
TFV						

● TYRES

		Tyre Size	Rim Size	Tread mm(in)	Overall Width mm(in)	Additional Weight kg(lb)
Front	Pneumatic	11.00-20-16PR(Double ID)	7.50Vx20	1770(69.7)	2410(94.9)	Std.
	Elastic cushion					
Rear	Pneumatic cushion	11.00-20-16PR( ID)	7.50Vx20	1890(74.4)		Std.
	Elastic cushion					

**EX SERIES-16**

**2-stage View Mast**

**Model:FD150ET-6**

Max. Fork Height	Overall Height				Free Lift		Tilting Angle		Capacity at 600mm(24") Load Center						Mast Weight Standard ±				
	Lowered		Extended		in	mm	Forward degree	Backward degree	Front Double Tyres		kg	lb	kg	lb	kg	lb	kg	lb	
	mm	in	mm	in					kg	lb									
2800	3170	124.8	4580	180.3	0	0	6	12	15000	33,000									
3000	3270	128.7	4780	188.2	0	0	6	12	15000	33,000									
3300	3420	134.6	5080	200.0	0	0	6	12	15000	33,000									
3500	3520	138.6	5280	207.9	0	0	6	12	15000	33,000									
3700	3620	142.5	5480	215.7	0	0	6	12	15000	33,000									
4000	3770	148.4	5780	227.6	0	0	6	12	15000	33,000									
4500	4020	158.3	6280	247.2	0	0	6	12	15000	33,000									
5000	4470	176.0	6980	274.8	0	0	6	12	15000	33,000									
5500	4720	185.8	7480	294.5	0	0	6	12	13500	30,000									
6000	4970	195.7	7980	314.2	0	0	6	12	12000	26,500									

Distance from front wheel center to fork carriage : 665 mm(26.2in) Standard weight : 3150 kg(6,940lb) without forks

# EX SERIES

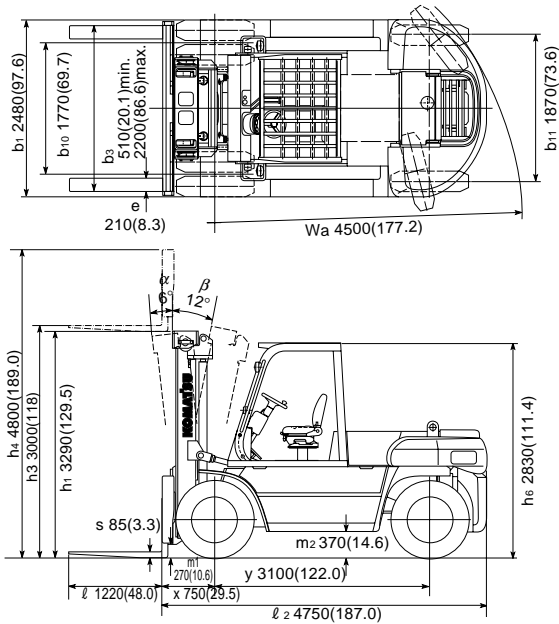
## FD160ET-6

# EX SERIES-18

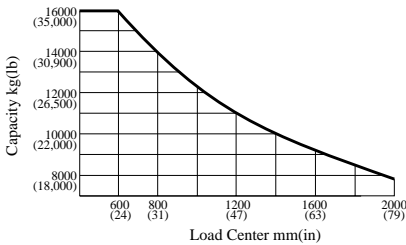
## FD160ET-6

Characteristics	1.2	Model	Manufacturer's Designation		<b>FD160ET-6</b>		
	1.3	Power Type	Electric, Diesel, Gasoline, LPG, Cable		Diesel		
	1.4	Operation Type	Pedestrian, Driver Standing, Sitting, Order Picking		Sitting		
	1.5	Rated Capacity	Q	Rated Capacity	kg(lb.)	16000(35,000)	
	1.6	Load Center	c	Rated Load Center	mm(in.)	600(24)	
	1.8	Load Distance	x	Front Axle Center to Fork Face	mm(in.)	750(29.5)	
	1.9	Wheelbase	y		mm(in.)	3100(122.0)	
	2.1	Service Weight			kg(lb.)	16830(37,110)	
	Weight	2.2	Axle Loading	Loaded	Front	kg(lb.)	29920(65,960)
2.2.1		Rear			kg(lb.)	2930(6,460)	
2.3		Unloaded		Front	kg(lb.)	6950(15,320)	
2.3.1			Rear	kg(lb.)	9900(21,820)		
Tyre		3.1	Tyre Type	Cushion, Elastic Cushion, Pneumatic, Polyurethane		Pneumatic	
	3.2	Tyre Size	Front		12.00-20-16PR(I)		
	3.3		Rear		12.00-20-16PR(I)		
	3.5	Number of Wheel	Front/Rear(x=driven)		4x/2		
	3.6	Tread, Front	b <sub>10</sub>		mm(in.)	1770(69.7)	
	3.7	Tread, Rear	b <sub>11</sub>		mm(in.)	1870(73.6)	
	Basic Measurement	4.1	Tilting Angle	$\alpha/\beta$		degree	6/12
4.2		Mast Height, Lowered	h <sub>1</sub>		mm(in.)	3290(129.5)	
4.3		Std. Free Lift	h <sub>2</sub>		mm(in.)	0(0.0)	
4.4		Std. Lift Height	h <sub>3</sub>		mm(in.)	3000(118)	
4.5		Mast Height, extended	h <sub>4</sub>		mm(in.)	4800(189.0)	
4.7		Height, Overhead Guard	h <sub>6</sub>		mm(in.)	2830(111.4)	
4.19		Length, with Std. Forks	$\ell_1$		mm(in.)	5970(235.0)	
4.20		Length, to Fork Face	$\ell_2$		mm(in.)	4750(187.0)	
4.21		Width, at Tyre	b <sub>1</sub>		mm(in.)	2480(97.6)	
4.22		Forks	s/e/ℓ	Thickness/Width/Length	mm(in.)	85x210x1220(3.3x8.3x48.0)	
4.23		Fork Carriage Class				Pin mount	
4.24		Width, Fork Carriage	b <sub>3</sub>		mm(in.)	2200(86.6)	
Performance		4.31	Ground Clearance	m <sub>1</sub>	Under Mast	mm(in.)	270(10.6)
		4.32		m <sub>2</sub>	at Center of Wheelbase	mm(in.)	370(14.6)
	4.33	Right Angle Stacking Aisle	Ast	plus load length	mm(in.)	5250(206.7)	
	4.35	Turning Radius	Wa		mm(in.)	4500(177.2)	
	4.36	Distance to Turning Center	b <sub>13</sub>	from chassis center	mm(in.)	1555(61.2)	
	5.1	Travel speed (FWD)	Loaded, 1st/2nd/3rd		km/h(mph)	9.5/20/28(5.9/12.4/17.4)	
5.1.1	Unloaded, 1st/2nd/3rd		km/h(mph)	10/21.5/33(6.2/13.4/20.5)			
5.2	Lifting Speed	Loaded/Unloaded		mm/s(fpm)	290 /310(57/61)		
5.3	Lowering Speed	Loaded/Unloaded		mm/s(fpm)	400/400(79/79)		
5.6	Max. Drawbar Pull	Loaded at 1.5km/h		kN(lb)	73.6(16,560)		
5.8	Max. Gradeability	Loaded at 1.5km/h		%	23		
Others	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	
	7.1	Make/Model				ISUZU/6BG1T	
	7.2	Rated Output,SAE gross			kW(HP)	118(160)	
	7.3	Rated RPM			min <sup>-1</sup>	2200	
	7.3.1	Max. Torque, SAE gross			Nm(lbft)@min <sup>-1</sup>	588(434)@1600	
	7.4	No. of Cylinder /Displacement			cm <sup>3</sup> (cu.in)	6/6494(396)	
	7.6	Fuel Tank Capacity			Ltr(US Gal)	260(67)	
	8.2	Relief Pressure for Attachment			bar(psi)	215(3,100)	
8.2.1	Tank Capacity			Ltr(US Gal)	180(47.6)		
8.6	Clutch				Torque Converter		
8.7	Transmission				TORQFLOW		

FD160ET-6



● CAPACITY CHART



● MAST DATA

		Lifting Speed mm/s(fpm)		Lowering Speed mm/s(fpm)		Load Distance (mm/in)
		Loaded	Unloaded	Loaded	Unloaded	
FD160ET-6	FV	290(57)	310(61)	400(79)	400(79)	750(29.5)
	FFV					
TFV						

● TYRES

		Tyre Size	Rim Size	Tread mm(in)	Overall Width mm(in)	Additional Weight kg(lb)
Front	Pneumatic	12.00-20-16PR(Double ID)	8.50Vx20	1770(69.7)	2480(97.6)	Std.
	Elastic cushion					
Rear	Pneumatic	12.00-20-16PR( ID)	8.50Vx20	1870(73.6)		Std.
	Elastic cushion					

**EX SERIES-20**

**2-stage View Mast**

**Model:FD160ET-6**

Max. Fork Height	Overall Height				Free Lift		Tilting Angle		Capacity at 600mm(24") Load Center						Mast Weight Standard ±	
	Lowered		Extended		mm	in	Forward degree	Backward degree	Front Double Tyres		kg		lb		kg	lb
	mm	in	mm	in					kg	lb	kg	lb	kg	lb		
2800	3190	125.6	4600	181.1	0	0	6	12	16000	35,300					-50	-110
3000	3290	129.5	4800	189.0	0	0	6	12	16000	35,300					0	0
3300	3440	135.4	5100	200.8	0	0	6	12	16000	35,300					+70	+155
3500	3540	139.4	5300	208.7	0	0	6	12	16000	35,300					+120	+265
3700	3640	143.3	5500	216.5	0	0	6	12	16000	35,300					+170	+375
4000	3790	149.2	5800	228.3	0	0	6	12	16000	35,300					+310	+680
4500	4040	159.1	6300	248.0	0	0	6	12	16000	35,300					+500	+1,100
5000	4490	176.8	7000	275.6	0	0	6	12	16000	35,300					+660	+1,455
5500	4740	186.6	7500	295.3	0	0	6	12	14500	31,900					+770	+1,700
6000	4990	196.5	8000	315.0	0	0	6	12	13000	28,700					+920	+2,030

Distance from front wheel center to fork carriage : 665 mm(26.2in)

Standard weight: 3160 kg(6,970lb) without forks

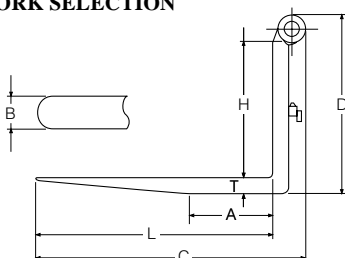
# EX SERIES

(FD100T-6, FD115T-6, FD135T-6, FD150ET-6,  
FD160ET-6 )

## ● STANDARD EQUIPMENT

- Headlights
- Turn signal lamps
- Stop and tail lamps
- Back up lamps
- Fuel gauge
- Water temperature gauge
- Torque converter oil temperature gauge
- Charge warning lamp
- Engine oil pressure warning lamp
- Hourmeter
- Safety checker
- Engine key stop
- Horn
- Torque converter oil cooler
- Neutral safety switch
- Brake oil pressure warning buzzer
- Power brake
- Cyclonic air cleaner
- Tiltable steering column
- Drawbar pin

## ● FORK SELECTION



### SHAFT TYPE III

W: Weight of Forks (One Pair)    kg  
C: L + 2T                                    mm  
D: H + T + 140 mm                    mm

MODEL								
FD100T-6								
No.	L mm(in)	T mm(in)	B mm(in)	C mm(in)	D mm(in)	A mm(in)	H mm(in)	W kg(lb)
1	1220(48.0)	75(3.0)	170(6.7)	1354(53.3)	864(34.0)	260(10.2)	665(26.2)	349(769)
2	1370(53.9)	75(3.0)	170(6.7)	1504(59.2)	864(34.0)	290(11.4)	665(26.2)	370(816)
3	1520(59.8)	75(3.0)	170(6.7)	1654(65.1)	864(34.0)	320(12.6)	665(26.2)	392(864)
4	1670(65.7)	75(3.0)	170(6.7)	1804(71.0)	864(34.0)	350(13.8)	665(26.2)	413(910)
5	1820(71.7)	80(3.1)	170(6.7)	1959(77.1)	869(34.2)	390(15.4)	665(26.2)	460(1,014)
6	1970(77.6)	80(3.1)	170(6.7)	2109(83.0)	869(34.2)	490(19.3)	665(26.2)	488(1,076)
7	2120(83.5)	80(3.1)	170(6.7)	2259(88.9)	869(34.2)	530(20.9)	665(26.2)	511(1,127)
8	2270(89.4)	85(3.3)	170(6.7)	2414(95.0)	874(34.4)	630(24.8)	665(26.2)	570(1,257)
9	2420(95.3)	85(3.3)	170(6.7)	2564(100.9)	874(34.4)	670(26.4)	665(26.2)	594(1,310)

MODEL								
FD115T-6								
No.	L mm(in)	T mm(in)	B mm(in)	C mm(in)	D mm(in)	A mm(in)	H mm(in)	W kg(lb)
1	1220(48.0)	75(3.0)	185(7.3)	1354(53.3)	920(36.2)	260(10.2)	710(28.0)	394(869)
2	1370(53.9)	75(3.0)	185(7.3)	1504(59.2)	920(36.2)	290(11.4)	710(28.0)	418(922)
3	1520(59.8)	75(3.0)	185(7.3)	1659(65.3)	925(36.4)	320(12.6)	710(28.0)	466(1,027)
4	1670(65.7)	80(3.1)	185(7.3)	1809(71.2)	925(36.4)	410(16.1)	710(28.0)	496(1,093)
5	1820(71.7)	80(3.1)	185(7.3)	1959(77.1)	925(36.4)	450(17.7)	710(28.0)	521(1,149)
6	1970(77.6)	85(3.3)	185(7.3)	2114(83.2)	930(36.6)	540(21.3)	710(28.0)	582(1,283)
7	2120(83.5)	85(3.3)	185(7.3)	2264(89.1)	930(36.6)	580(22.8)	710(28.0)	608(1,340)
8	2270(89.4)	85(3.3)	185(7.3)	2414(95.0)	930(36.6)	630(24.8)	710(28.0)	636(1,402)
9	2420(95.3)	85(3.3)	185(7.3)	2564(100.9)	930(36.6)	670(26.4)	710(28.0)	662(1,459)

**EX SERIES-22**

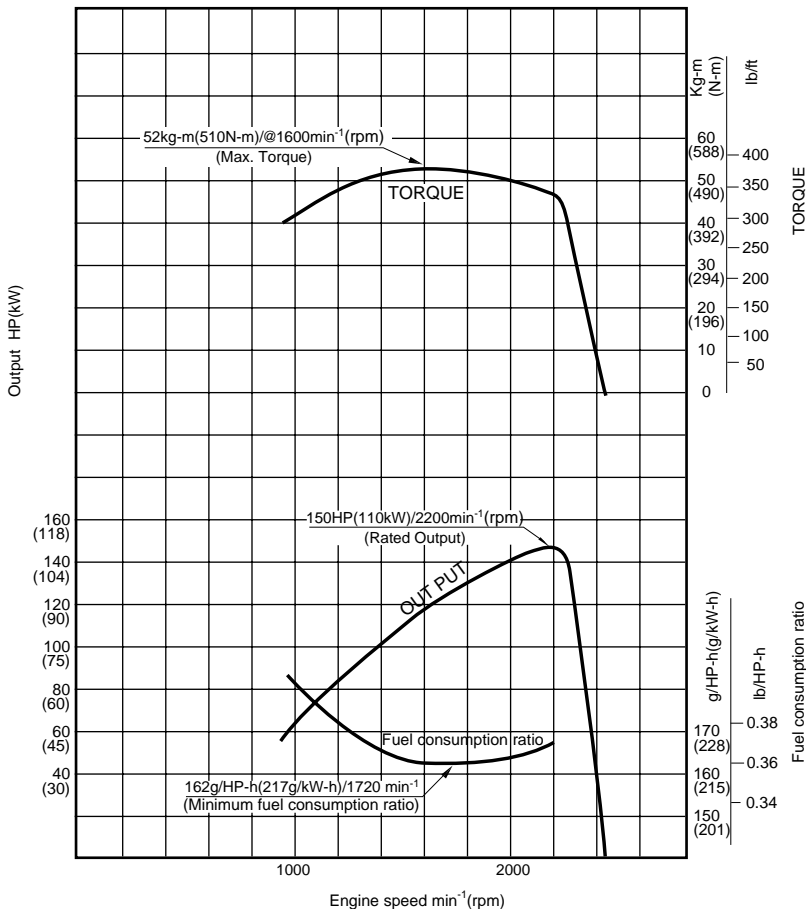
MODEL								
FD135T-6								
No.	L mm(in)	T mm(in)	B mm(in)	C mm(in)	D mm(in)	A mm(in)	H mm(in)	W kg(lb)
1	1220(48.0)	80(3.1)	185(7.3)	1359(53.5)	961(37.8)	300(11.8)	735(28.9)	434(957)
2	1370(53.9)	80(3.1)	185(7.3)	1509(59.4)	961(37.8)	340(13.4)	735(28.9)	459(1,012)
3	1520(59.8)	85(3.3)	185(7.3)	1664(65.5)	966(38.0)	380(15.0)	735(28.9)	511(1,127)
4	1670(65.7)	85(3.3)	185(7.3)	1814(71.4)	966(38.0)	460(18.1)	735(28.9)	542(1,195)
5	1820(71.7)	85(3.3)	185(7.3)	1964(77.3)	966(38.0)	500(19.7)	735(28.9)	568(1,252)
6	1970(77.6)	90(3.5)	185(7.3)	2119(83.4)	971(38.2)	540(21.3)	735(28.9)	626(1,380)
7	2120(83.5)	90(3.5)	185(7.3)	2269(89.3)	971(38.2)	580(22.8)	735(28.9)	654(1,442)
8	2270(89.4)	90(3.5)	185(7.3)	2419(95.2)	971(38.2)	680(26.8)	735(28.9)	688(1,517)
9	2420(95.3)	90(3.5)	185(7.3)	2569(100.9)	971(38.2)	720(28.3)	735(28.9)	716(1,578)

MODEL								
FD150ET-6								
No.	L mm(in)	T mm(in)	B mm(in)	C mm(in)	D mm(in)	A mm(in)	H mm(in)	W kg(lb)
1	1220(48.0)	85(3.3)	190(7.5)	1364(53.7)	981(38.6)	330(13.0)	750(29.5)	476(1,030)
2	1370(53.9)	90(3.5)	190(7.5)	1519(59.8)	986(38.8)	410(16.1)	750(29.5)	534(1,177)
3	1520(59.8)	90(3.5)	190(7.5)	1669(65.7)	986(38.8)	450(17.7)	750(29.5)	563(1,241)
4	1670(65.7)	90(3.5)	190(7.5)	1819(71.6)	986(38.8)	500(19.7)	750(29.5)	593(1,307)
5	1820(71.7)	90(3.5)	220(8.7)	1969(77.5)	986(38.8)	540(31.3)	750(29.5)	713(1,572)
6	1970(77.6)	90(3.5)	220(8.7)	2119(83.4)	986(38.8)	590(23.2)	750(29.5)	747(1,647)
7	2120(83.5)	90(3.5)	220(8.7)	2269(89.3)	986(38.8)	630(24.8)	750(29.5)	780(1,720)
8	2270(89.4)	90(3.5)	220(8.7)	2419(95.2)	986(38.8)	680(26.8)	750(29.5)	815(1,797)
9	2420(95.3)	90(3.5)	220(8.7)	2569(100.9)	986(38.8)	720(28.3)	750(29.5)	848(1,870)

MODEL								
FD160ET-6								
No.	L mm(in)	T mm(in)	B mm(in)	C mm(in)	D mm(in)	A mm(in)	H mm(in)	W kg(lb)
1	1220(48.0)	85(3.3)	210(8.3)	1364(53.7)	981(38.6)	330(13.0)	750(29.5)	526(1,160)
2	1370(53.9)	90(3.5)	210(8.3)	1519(59.8)	986(38.8)	410(16.1)	750(29.5)	589(1,299)
3	1520(59.8)	90(3.5)	210(8.3)	1669(65.7)	986(38.8)	450(17.7)	750(29.5)	621(1,369)
4	1670(65.7)	90(3.5)	210(8.3)	1819(71.6)	986(38.8)	500(19.7)	750(29.5)	654(1,442)
5	1820(71.7)	95(3.7)	220(8.7)	1974(77.7)	991(39.0)	530(20.9)	750(29.5)	751(1,656)
6	1970(77.6)	95(3.7)	220(8.7)	2124(83.6)	991(39.0)	580(22.8)	750(29.5)	787(1,735)
7	2120(83.5)	95(3.7)	220(8.7)	2274(89.5)	991(39.0)	620(24.4)	750(29.5)	822(1,812)
8	2270(89.4)	95(3.7)	220(8.7)	2424(95.4)	991(39.0)	670(26.4)	750(29.5)	858(1,892)
9	2420(95.3)	95(3.7)	220(8.7)	2574(101.3)	991(39.0)	710(28.0)	750(29.5)	893(1,969)

**ENGINE PERFORMANCE CURVE**

ENGINE MODEL <b>ISUZU 6BG1T</b>		APPLICATION <b>FD100T/115T/135T/150ET/160ET-6</b>	
BORE:	<b>105</b> mm( <b>4.1</b> in)	NO. OF CYLINDERS	<b>6</b>
STROKE:	<b>125</b> mm( <b>4.9</b> in)	PISTON DISPLACEMENT	<b>6494</b> cc ( <b>396</b> cu.in)



1. THIS PERFORMANCE IS APPLIED UNDER CONDITIONS OF 25°C (77°F) (AMBIENT TEMPERATURE) 750mm Hg (100 kPa) (ATMOSPHERIC PRESSURE) AND 7.5mm Hg (1 kPa) (VAPOR PRESSURE).
2. THE ENGINE EQUIPMENT INCLUDES FLYWHEEL, FUEL PUMP AND LUBRICATING OIL PUMP, EXCLUDES AIR CLEANER, MUFFLER, FAN, RADIATOR, GENERATOR, STARTING MOTOR AND WATER PUMP.

