

# TRUCK SPECIFICATIONS

## MODEL NUMBERS

GENERAL DATA			8FG35U	8FD35U	8FG40U	8FD40U	
Load Capacity	lb (kg)		8000 (3500)	8000 (3500)	9000 (4000)	9000 (4000)	
Power Type			Gasoline	Diesel	Gasoline	Diesel	
Operator Position			Seated Rider	Seated Rider	Seated Rider	Seated Rider	
Tire Type	Front / Rear		Pneumatic / Pneumatic	Pneumatic / Pneumatic	Pneumatic / Pneumatic	Pneumatic / Pneumatic	
Wheels (x = driven)	Front / Rear		2x / 2	2x / 2	2x / 2	2x / 2	
EXTERIOR DIMENSIONS			8FG35U	8FD35U	8FG40U	8FD40U	
<b>A</b> Maximum Fork Height (top of forks)	in (mm)		120 (3050)	120 (3050)	120 (3050)	120 (3050)	
<b>B</b> Free-Lift (top of forks)	in (mm)		4.3 (110)	4.3 (110)	4.3 (110)	4.3 (110)	
<b>C</b> Fork Size (T x W x L)	in (mm)		2 x 6 x 42 (50 x 150 x 1070)	2 x 6 x 42 (50 x 150 x 1070)	2 x 6 x 42 (50 x 150 x 1070)	2 x 6 x 42 (50 x 150 x 1070)	
<b>D</b> Fork Spread Max. / Min. (outer edge to edge)	in (mm)		46.1 / 11.8 (1170 / 300)	46.1 / 11.8 (1170 / 300)	46.1 / 11.8 (1170 / 300)	46.1 / 11.8 (1170 / 300)	
<b>E</b> Tilt Range (forward / backward)	deg		6 / 12	6 / 12	6 / 12	6 / 12	
<b>F</b> Length to Fork Face	in (mm)		115.2 (2925)	115.2 (2925)	117.3 (2980)	117.3 (2980)	
<b>G</b> Overall Width	in (mm)		53.1 (1350)	53.1 (1350)	53.1 (1350)	53.1 (1350)	
<b>H</b> Mast Lowered Height	in (mm)		83 (2110)	83 (2110)	83 (2110)	83 (2110)	
<b>I</b> Mast Extended Height (top of load backrest)	in (mm)		168.1 (4270)	168.1 (4270)	168.1 (4270)	168.1 (4270)	
<b>J</b> Overhead Guard Height	in (mm)		87 (2210)	87 (2210)	87 (2210)	87 (2210)	
<b>K</b> Turning Radius (inside / outside)	in (mm)		103 (2610)	103 (2610)	104.5 (2660)	104.5 (2660)	
<b>L</b> Load Distance <sup>1</sup>	in (mm)		19.9 (505)	19.9 (505)	19.9 (505)	19.9 (505)	
<b>M</b> Basic Right-Angle Stacking Aisle Width	in (mm)		122.5 (3120)	122.5 (3120)	124.5 (3170)	124.5 (3170)	
PERFORMANCE DATA			8FG35U	8FD35U	8FG40U	8FD40U	
Speeds	Maximum Travel (forward / reverse)	Full Load	mph (km/h)	13.7 (22.0) / 13.7 (22.0)	13.1 (21.0) / 13.1 (21.0)	13.7 (22.0) / 13.7 (22.0)	13.1 (21.0) / 13.1 (21.0)
		No Load	mph (km/h)	15.0 (24.0) / 15.0 (24.0)	14.4 (23.0) / 14.4 (23.0)	15.0 (24.0) / 15.0 (24.0)	14.4 (23.0) / 14.4 (23.0)
	Lifting	Full Load	fpm (mm/sec)	103 (525)	103 (525)	103 (525)	103 (525)
		No Load	fpm (mm/sec)	108 (550)	108 (550)	108 (550)	108 (550)
	Lowering	Full Load	fpm (mm/sec)	104 (530)	104 (530)	104 (530)	104 (530)
		No Load	fpm (mm/sec)	94 (480)	94 (480)	94 (480)	94 (480)
Drawbar Pull	Maximum	Full Load	lb (kg)	7900 (3600)	8100 (3700)	7900 (3600)	8100 (3700)
		No Load	lb (kg)	3200 (1450)	3230 (1460)	3090 (1400)	3120 (1410)
Gradeability	1 mph (1.5 km/h) <sup>1</sup>	Full Load	%	32	34	29	31
		Full Load	%	42	43	38	39
		No Load	%	24	24	21	21
Maximum <sup>1</sup>		Full Load	%	42	43	38	39
		Full Load	%	42	43	38	39
		No Load	%	24	24	21	21
TRUCK WEIGHTS			8FG35U	8FD35U	8FG40U	8FD40U	
Total Weight	lb (kg)		12570 (5700)	12570 (5780)	13380 (6070)	13560 (6150)	
Weight Distribution	Full Load (front / rear)	lb (kg)	18310 (8090) / 2260 (1110)	18360 (8110) / 2390 (1170)	19750 (8810) / 2630 (1260)	19790 (8830) / 2770 (1320)	
	No Load (front / rear)	lb (kg)	5620 (2550) / 6950 (3150)	5670 (2570) / 7080 (3210)	5470 (2480) / 7910 (3590)	5510 (2500) / 8050 (3650)	
TIRES			8FG35U	8FD35U	8FG40U	8FD40U	
Tires	Number (front / rear)		2 / 2		2 / 2		
	Size	Front	250-15-18PR	250-15-18PR	250-15-18PR	250-15-18PR	
		Rear	7.00-12-12PR	7.00-12-12PR	7.00-12-12PR	7.00-12-12PR	
Wheelbase	in (mm)	74.8 (1900)	74.8 (1900)	74.8 (1900)	74.8 (1900)		
Tread Width (front / rear)	in (mm)	43.9 (1115) / 43.3 (1100)	43.9 (1115) / 43.3 (1100)	43.9 (1115) / 43.3 (1100)	43.9 (1115) / 43.3 (1100)		
Underclearance (full load)	Minimum with Load	in (mm)	4.7 (120)	4.7 (120)	4.7 (120)	4.7 (120)	
	Center of Wheelbase	in (mm)	7.9 (200)	7.9 (200)	7.9 (200)	7.9 (200)	
Brake	Service (foot) / Parking		Hydraulic / Hand	Hydraulic / Hand	Hydraulic / Hand	Hydraulic / Hand	
POWER SYSTEM			8FG35U	8FD35U	8FG40U	8FD40U	
Battery (5-hour rating)	V / Ah		12 / 48	12 / 70	12 / 48	12 / 70	
Internal Combustion Engine	Make / Model		TOYOTA 1FS	TOYOTA 1KD	TOYOTA 1FS	TOYOTA 1KD	
	Rated Horsepower @ rpm	SAE HP	87 @ 2350	74 @ 2200	87 @ 2350	74 @ 2200	
		(kW)	(65 @ 2350)	(55 @ 2200)	(65 @ 2350)	(55 @ 2200)	
	Rated Torque @ rpm	SAE ft-lb	200 @ 1600	220 @ 1200 - 1500	200 @ 1600	220 @ 1200 - 1500	
		(N-m)	(276 @ 1600)	(300 @ 1200 - 1500)	(276 @ 1600)	(300 @ 1200 - 1500)	
	Number of Cylinders		4	4	4	4	
	Piston Displacement	cu in (cc)	224 (3685)	182 (2982)	224 (3685)	182 (2982)	
Fuel Tank Capacity	US gal (liter)	24 (90)	24 (90)	24 (90)	24 (90)		
Transmission	Type		Powershift	Powershift	Powershift	Powershift	
	Speeds (forward / reverse)		1 / 1	1 / 1	1 / 1	1 / 1	
Auxiliary Hydraulic Function Specifications (for attachments) <sup>2</sup>	Max. Operating Pressure	psi (kg/cm <sup>2</sup> )	2630 (185)	2630 (185)	2630 (185)	2630 (185)	
	Max. Flow Rate	gpm (lpm)	33.8 (128)	33.8 (128)	33.8 (128)	33.8 (128)	

<sup>1</sup> Computed values.

<sup>2</sup> Values taken at Hydraulic Control Valve. Does not take in to consideration losses through mast plumbing (hosing, fittings, QDs, etc.).

## MAST SPECIFICATIONS

MAST TYPE	MAXIMUM FORK HEIGHT (TOP OF FORKS)	OVERALL HEIGHT			FREE-LIFT		SINGLE TIRE			DUAL TIRE		
		LOWERED	EXTENDED		WITHOUT LOAD BACKREST	WITH STANDARD LOAD BACKREST <sup>1</sup>	TILT RANGE		LOAD CAPACITY AT 24 IN. (610 MM) LOAD CENTER	TILT RANGE		LOAD CAPACITY AT 24 IN. (610 MM) LOAD CENTER
			WITHOUT LOAD BACKREST	WITH STANDARD LOAD BACKREST <sup>1</sup>			FWD	BWD		FWD	BWD	
	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	deg	deg	lb (kg)	deg	deg	lb (kg)
<b>8FG35U / 8FD35U</b>												
Wide Visible (V)	120 (3050)	83.1 (2110)	151.6 (3850)	168.1 (4270)	4.3 (110)	4.3 (110)	6	12	8000 (3500)	6	12	8000 (3500)
	132 (3350)	90.2 (2290)	163.4 (4150)	179.9 (4570)	4.3 (110)	4.3 (110)	6	12	8000 (3500)	6	12	8000 (3500)
	147.5 (3750)	98 (2490)	179.1 (4550)	195.7 (4970)	4.3 (110)	4.3 (110)	6	12	8000 (3500)	6	12	8000 (3500)
	159.5 (4050)	107.9 (2740)	190.9 (4850)	207.5 (5270)	4.3 (110)	4.3 (110)	6	12	8000 (3500)	6	12	8000 (3500)
	179 (4550)	117.7 (2990)	210.6 (5350)	227.2 (5770)	4.3 (110)	4.3 (110)	6	12	8000 (3500)	6	12	8000 (3500)
Full Free-Lift 2-Stage (FV)	120 (3050)	83.1 (2110)	152.8 (3880)	168.1 (4270)	50.4 (1280)	35 (890)	6	12	8000 (3500)	6	12	8000 (3500)
	132 (3350)	90.2 (2290)	164.6 (4180)	179.9 (4570)	57.5 (1460)	42.1 (1070)	6	12	8000 (3500)	6	12	8000 (3500)
Full Free-Lift 3-Stage (FSV)	159.5 (4050)	83.1 (2110)	192.1 (4880)	207.5 (5270)	50.4 (1280)	35 (890)	6	6	8000 (3500)	6	6	8000 (3500)
	171.5 (4350)	85 (2160)	203.9 (5180)	219.3 (5570)	52.4 (1330)	37 (940)	6	6	8000 (3500)	6	6	8000 (3500)
	187 (4750)	90.2 (2290)	219.7 (5580)	235 (5970)	57.5 (1460)	42.1 (1070)	6	6	7700 (3500)	6	6	7700 (3500)
	199 (5050)	94.1 (2390)	231.5 (5880)	246.9 (6270)	61.4 (1560)	46.1 (1170)	6	6	7500 (3400)	6	6	7500 (3400)
	218.5 (5550)	100 (2540)	251.2 (6380)	266.5 (6770)	67.3 (1710)	52 (1320)	6	6	6200 (2800)	6	6	7250 (3300)
238 (6050)	107.9 (2740)	270.9 (6880)	286.2 (7270)	75.2 (1910)	59.8 (1520)	6	6	4600 (2100)	6	6	7050 (3200)	

MAST TYPE	MAXIMUM FORK HEIGHT (TOP OF FORKS)	OVERALL HEIGHT			FREE-LIFT		SINGLE TIRE			DUAL TIRE		
		LOWERED	EXTENDED		WITHOUT LOAD BACKREST	WITH STANDARD LOAD BACKREST <sup>1</sup>	TILT RANGE		LOAD CAPACITY AT 24 IN. (610 MM) LOAD CENTER	TILT RANGE		LOAD CAPACITY AT 24 IN. (610 MM) LOAD CENTER
			WITHOUT LOAD BACKREST	WITH STANDARD LOAD BACKREST <sup>1</sup>			FWD	BWD		FWD	BWD	
	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	deg	deg	lb (kg)	deg	deg	lb (kg)
<b>8FG40U / 8FD40U</b>												
Wide Visible (V)	120 (3050)	83.1 (2110)	151.6 (3850)	168.1 (4270)	4.3 (110)	4.3 (110)	6	12	9000 (4000)	6	12	9000 (4000)
	132 (3350)	90.2 (2290)	163.4 (4150)	179.9 (4570)	4.3 (110)	4.3 (110)	6	12	9000 (4000)	6	12	9000 (4000)
	147.5 (3750)	98 (2490)	179.1 (4550)	195.7 (4970)	4.3 (110)	4.3 (110)	6	12	9000 (4000)	6	12	9000 (4000)
	159.5 (4050)	107.9 (2740)	190.9 (4850)	207.5 (5270)	4.3 (110)	4.3 (110)	6	12	9000 (4000)	6	12	9000 (4000)
	179 (4550)	117.7 (2990)	210.6 (5350)	227.2 (5770)	4.3 (110)	4.3 (110)	6	6	9000 (4000)	6	12	9000 (4000)
Full Free-Lift 2-Stage (FV)	120 (3050)	83.1 (2110)	152.8 (3880)	168.1 (4270)	50.4 (1280)	35 (890)	6	12	9000 (4000)	6	12	9000 (4000)
	132 (3350)	90.2 (2290)	164.6 (4180)	179.9 (4570)	57.5 (1460)	42.1 (1070)	6	12	9000 (4000)	6	12	9000 (4000)
Full Free-Lift 3-Stage (FSV)	159.5 (4050)	83.1 (2110)	192.1 (4880)	207.5 (5270)	50.4 (1280)	35 (890)	6	6	9000 (4000)	6	6	9000 (4000)
	171.5 (4350)	85 (2160)	203.9 (5180)	219.3 (5570)	52.4 (1330)	37 (940)	6	6	9000 (4000)	6	6	9000 (4000)
	187 (4750)	90.2 (2290)	219.7 (5580)	235 (5970)	57.5 (1460)	42.1 (1070)	6	6	9000 (4000)	6	6	9000 (4000)
	199 (5050)	94.1 (2390)	231.5 (5880)	246.9 (6270)	61.4 (1560)	46.1 (1170)	6	6	9000 (4000)	6	6	9000 (4000)
	218.5 (5550)	100 (2540)	251.2 (6380)	266.5 (6770)	67.3 (1710)	52 (1320)	6	6	7700 (3500)	6	6	9000 (4000)
238 (6050)	107.9 (2740)	270.9 (6880)	286.2 (7270)	75.2 (1910)	59.8 (1520)	6	6	5950 (2700)	6	6	7280 (3300)	

<sup>1</sup> Height of standard load backrest is 48" (1220 mm).