

MID IC PNEUMATIC



8000 - 11000 LBS.

SPECIFICATIONS



8FG35U-50U | 8FD35U-50U

CLASS
5

INTERNAL COMBUSTION ENGINE PNEUMATIC TIRE

ToyotaForklift.com

CAPACITY
8000 – 11000 LBS.

MAXIMUM FORK HEIGHT
239 IN.

LOAD CENTER
24 IN.

INDUSTRIES



Brick, Block
& Pipe



Distribution



Factory



General
Manufacturing



General
Warehousing



Lumber



Paper



Retail

STANDARD FEATURES

DURABILITY

- Control Area Network (CAN-bus) communication
- Fully stamped steel side panels
- Full-floating front axle
- Moisture-resistant electric connectors
- Limited free-lift 2-stage mast (V)
- High cooling capacity radiator
- Tilt cylinder boots
- Low-maintenance battery
- Large-capacity engine-cooling fan
- 8" cyclone air cleaner
- Plate-iron front fenders
- Anti-restart ignition key switch
- Stamped steel engine hood
- Radiator screen
- External hydraulic oil cooler

SUPPORT

- System of Active Stability™ (SAS)
- Operator Presence Sensing System (OPSS)
- Bolt-on overhead guard
- Key lowering interlock
- Electric horn
- Neutral start safety switch
- Asbestos-free components
- Orange forks
- LED headlights
- Key off/headlight off system
- Speed control

PERFORMANCE

- EPA/CARB-certified engine
- UL "G" gasoline engine
- Toyota 4-cylinder, 3.7 liter, OHV gasoline engine (1FS)
- UL "D" diesel engine
- Toyota 4-cylinder, 3.0 liter, DOHC Tier 4 Final (Diesel Oxidation Catalyst) diesel engine (1KD)
- Electronic fuel injection (gasoline only)
- 2 speed automatic (powershift) transmission
 - 2FWD/2REV speeds
 - Electronically controlled
- LCD multi-function display – includes:
 - Data log, fuel, and operation information with QR code output
 - Master warning, wheel, direction, and mast tilt indicators
 - Various hours meters
 - Engine coolant temperature gauge
 - Fuel gauge (excluding LP)
 - Check engine light
 - Engine oil pressure warning light
 - OPSS activation light
 - Parking brake indicator
 - SAS/OPSS warning light
- Adjustable headlights with guards
- Alternator with built-in regulator
 - Gas model = 70A
 - Diesel model = 80A
- Automatic transmission with oil cooler
- Full-floating powertrain
- Treaded pneumatic tires (front & rear)
- 1st gear lock switch on steering column
- Distributorless ignition system (1FS)

ERGONOMICS

- 11.8"-dia., two-spoke steering wheel
- Load-sensing power steering
- One-way automatic fork leveling
- Double-action parking brake (hand)
- Integrated headlight & turn signal lever
- Cowl-mounted hydraulic control levers with rubber boot covers
- 12"-long dual operator assist grips
- Low, wide entry steps
- Dash-integrated amenity tray & oversized cup holder
- Vinyl 4-way adjustable full-suspension seat
- Non-cinching seatbelt

SERVICEABILITY

- Easy-access no tools required floorboard
- Engine hood assist damper with lock device
- Engine protection system
- Air cleaner discharge valve
- Easy-lift engine hood with wide 75° opening
- Easy access to common service items such as filters & dipsticks

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	
A	Maximum Fork Height (top of forks)		in (mm)	120 (3050)		120 (3050)		120 (3050)		120 (3050)	
B	Free-Lift (top of forks)		in (mm)	4.3 (110)		4.3 (110)		4.3 (110)		4.3 (110)	
C	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)	
D	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)	
E	Tilt Range (forward / backward)		deg	6 / 12		6 / 12		6 / 12		6 / 12	
F	Length to Fork Face		in (mm)	115.2 (2925)		115.2 (2925)		117.3 (2980)		117.3 (2980)	
G	Overall Width		in (mm)	53.1 (1350)		53.1 (1350)		53.1 (1350)		53.1 (1350)	
H	Mast Lowered Height		in (mm)	83 (2110)		83 (2110)		83 (2110)		83 (2110)	
I	Mast Extended Height (top of load backrest)		in (mm)	168.1 (4270)		168.1 (4270)		168.1 (4270)		168.1 (4270)	
J	Overhead Guard Height		in (mm)	87 (2210)		87 (2210)		87 (2210)		87 (2210)	
K	Turning Radius (inside / outside)		in (mm)	103 (2610)		103 (2610)		104.5 (2660)		104.5 (2660)	
L	Load Distance¹		in (mm)	19.9 (505)		19.9 (505)		19.9 (505)		19.9 (505)	
M	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)²	Full Load	%	32		34		29		31	
		Full Load	%	42		43		38		39	
	Maximum²	Full Load	%	24		24		21		21	
		No Load	%	24		24		21		21	
TRUCK WEIGHTS				8FG35U		8FD35U		8FG40U		8FD40U	
Total Weight			lb (kg)	12640 (5730)		12820 (5810)		13450 (6100)		13630 (6180)	
Weight Distribution	Full Load (front / rear)		lb (kg)	18360 (8110) / 2280 (1120)		18410 (8130) / 2410 (1180)		19800 (8330) / 2650 (1270)		19840 (8850) / 2790 (1330)	
	No Load (front / rear)		lb (kg)	5670 (2570) / 6970 (3160)		5720 (2590) / 7100 (3200)		5520 (2500) / 7930 (3600)		5560 (2520) / 8070 (3660)	
TIRES				8FG35U		8FD35U		8FG40U		8FD40U	
Tires	Number (front / rear)			2 / 2		2 / 2		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)			2 / 2		2 / 2		2 / 2		2 / 2	
Auxiliary Hydraulic Function Specifications (for attachments)³	Max. Operating Pressure		psi (kg/cm2)	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)	

1 Centerline of front axle to front face of forks.

2 Computed values.

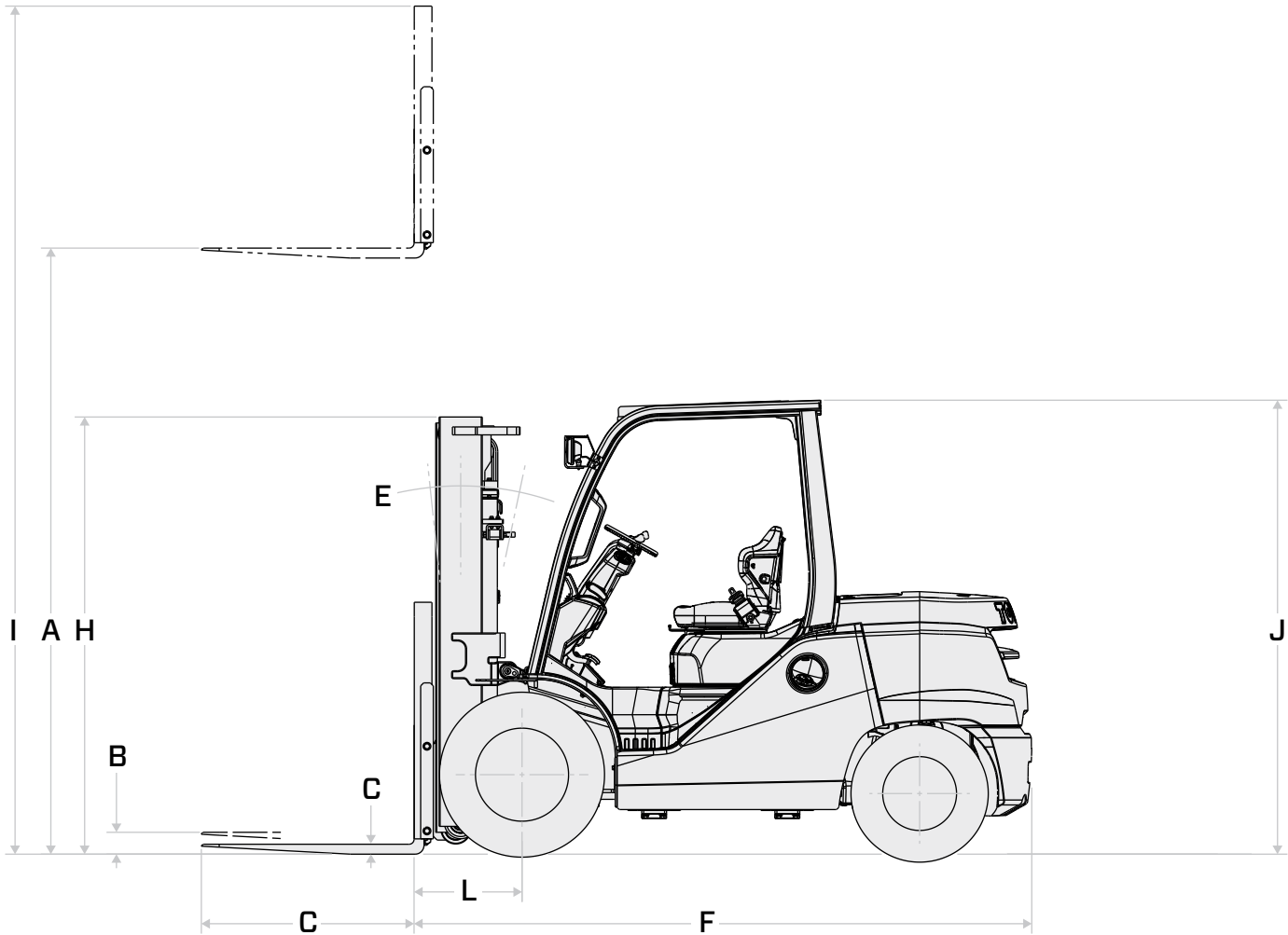
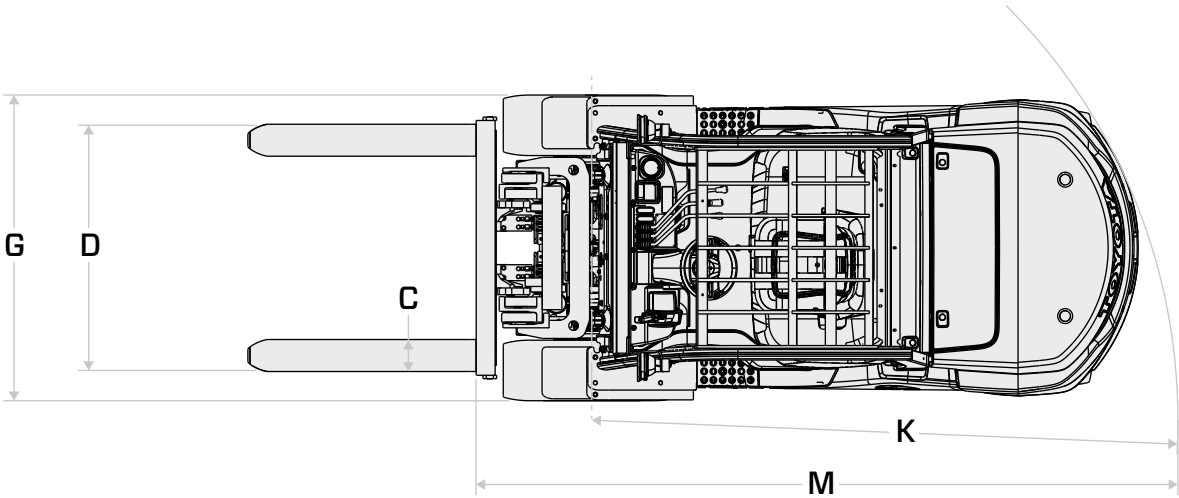
3 Values taken at Hydraulic Control Valve. Does not take into consideration losses through mast plumbing (hosing, fittings, QD's, etc.).

TRUCK SPECIFICATIONS

				MODEL NUMBERS			
GENERAL DATA				8FG45U	8FD45U	8FG50U	8FD50U
Load Capacity		lb (kg)		10000 (4500)	10000 (4500)	11000 (5000)	11000 (5000)
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				8FG45U	8FD45U	8FG50U	8FD50U
A	Maximum Fork Height (top of forks)	in (mm)		120 (3050)	120 (3050)	120.5 (3060)	120.5 (3060)
B	Free-Lift (top of forks)	in (mm)		4.3 (110)	4.3 (110)	4.7 (120)	4.7 (120)
C	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)	2.4 x 6 x 48 (60 x 150 x 1220)	2.4 x 6 x 48 (60 x 150 x 1220)
D	Fork Spread Max. / Min. (outer edge to edge)	in (mm)		45.7 / 11.8 (1160 / 300)	45.7 / 11.8 (1160 / 300)	45.7 / 11.8 (1160 / 300)	45.7 / 11.8 (1160 / 300)
E	Tilt Range (forward / backward)	deg		6 / 12	6 / 12	6 / 12	6 / 12
F	Length to Fork Face	in (mm)		122.4 (3110)	122.4 (3110)	124.8 (3170)	124.8 (3170)
G	Overall Width	in (mm)		57.1 (1450)	57.1 (1450)	57.1 (1450)	57.1 (1450)
H	Mast Lowered Height	in (mm)		86.5 (2200)	86.5 (2200)	96.5 (2450)	96.5 (2450)
I	Mast Extended Height (top of load backrest)	in (mm)		168.1 (4270)	168.1 (4270)	174.6 (4435)	174.6 (4435)
J	Overhead Guard Height	in (mm)		90.6 (2300)	90.6 (2300)	90.6 (2300)	90.6 (2300)
K	Turning Radius (inside / outside)	in (mm)		108.5 (2750)	108.5 (2750)	110.5 (2810)	110.5 (2810)
L	Load Distance¹	in (mm)		21.5 (545)	21.5 (545)	21.9 (555)	21.9 (555)
M	Basic Right-Angle Stacking Aisle Width	in (mm)		129.5 (3300)	129.5 (3300)	132.5 (3370)	132.5 (3370)
PERFORMANCE DATA				8FG45U	8FD45U	8FG50U	8FD50U
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) / 113.7 (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)	94 (480)	94 (480)	94 (480)	94 (480)
		No Load	fpm (mm/sec)	102 (520)	102 (520)	102 (520)	102 (520)
	Lowering	Full Load	fpm (mm/sec)	106 (540)	106 (540)	106 (540)	106 (540)
		No Load	fpm (mm/sec)	96 (490)	96 (490)	96 (490)	96 (490)
Drawbar Pull	Maximum	Full Load	lb (kg)	7900 (3600)	8100 (3700)	7900 (3600)	8100 (3700)
		No Load	lb (kg)	3570 (1620)	3590 (1630)	3770 (1710)	3810 (1730)
Gradeability	1 mph (1.5 km/h)²	Full Load	%	26	28	24	26
		Full Load	%	34	35	31	31
	Maximum²	No Load	%	22	22	21	21
TRUCK WEIGHTS				8FG45U	8FD45U	8FG50U	8FD50U
Total Weight		lb (kg)		14650 (6640)	14820 (6720)	15810 (7170)	15990 (7250)
Weight Distribution	Full Load (front / rear)	lb (kg)		22070 (9930) / 2580 (1210)	22110 (9950) / 2710 (1270)	24080 (10910) / 2730 (1260)	24150 (10940) / 2840 (1310)
	No Load (front / rear)	lb (kg)		6290 (2850) / 8360 (3790)	6330 (2870) / 8490 (3850)	6660 (3020) / 9150 (4150)	6730 (3050) / 9260 (4200)
TIRES				8FG45U	8FD45U	8FG50U	8FD50U
Tires	Number (front / rear)			2 / 2	2 / 2	2 / 2	2 / 2
	Size	Front		300-15-20PR	300-15-20PR	300-15-20PR	300-15-20PR
		Rear		7.00-12-12PR	7.00-12-12PR	7.00-12-14PR	7.00-12-14PR
Wheelbase		in (mm)		78.7 (2000)	78.7 (2000)	78.7 (2000)	78.7 (2000)
Tread Width (front / rear)		in (mm)		45.3 (1150) / 43.3 (1100)	45.3 (1150) / 43.3 (1100)	45.3 (1150) / 43.3 (1100)	45.3 (1150) / 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)	9.1 (230)	9.1 (230)	9.1 (230)	9.1 (230)
Brake	Service (foot) / Parking			Hydraulic / Hand	Hydraulic / Hand	Hydraulic / Hand	Hydraulic / Hand
POWER SYSTEM				8FG45U	8FD45U	8FG50U	8FD50U
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)		32 (120)	32 (120)	32 (120)	32 (120)
Transmission	Type			Powershift	Powershift	Powershift	Powershift
	Speeds (forward / reverse)			2 / 2	2 / 2	2 / 2	2 / 2
Auxiliary Hydraulic Function Specifications (for attachments)³	Max. Operating Pressure		psi (kg/cm2)	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)

1 Centerline of front axle to front face of forks.
2 Computed values.
3 Values taken at Hydraulic Control Valve. Does not take into consideration losses through mast plumbing (hosing, fittings, QD's, etc.).

EXTERIOR DIMENSIONS



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 BACKREST¹	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 BACKREST¹			FWD	BWD		FWD	BWD	
	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	deg	deg	lb (kg)	deg	deg	lb (kg)
8FG35U / 8FD35U												
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)
	199 (5050)	127.6 (3240)	230.3 (5850)	246.9 (6270)	4.3 (110)	4.3 (110)	6	6	7800 (3500)	6	12	7800 (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 BACKREST¹	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 BACKREST¹			FWD	BWD		FWD	BWD	
	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	deg	deg	lb (kg)	deg	deg	lb (kg)
8FG40U / 8FD40U												
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)
	199 (5050)	127.6 (3240)	230.3 (5850)	246.9 (6270)	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)

1 Height of standard load backrest is 48" (1220 mm).

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 ¹	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 ¹			FWD	BWD		FWD	BWD	
	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	deg	deg	lb (kg)	deg	deg	lb (kg)
8FG45U / 8FD45U												
Wide Visible (V)	120 (3050)	86.6 (2200)	146.7 (3725)	168.1 (4270)	4.3 (110)	4.3 (110)	6	12	10000 (4500)	6	12	10000 (4500)
	132 (3350)	92.5 (2350)	158.5 (4025)	179.9 (4570)	4.3 (110)	4.3 (110)	6	12	10000 (4500)	6	12	10000 (4500)
	147.5 (3750)	102.4 (2600)	174.2 (4425)	195.7 (4970)	4.3 (110)	4.3 (110)	6	12	10000 (4500)	6	12	10000 (4500)
	159.5 (4050)	110.2 (2800)	186 (4725)	207.5 (5270)	4.3 (110)	4.3 (110)	6	12	10000 (4500)	6	12	10000 (4500)
	179 (4550)	120.1 (3050)	205.7 (5225)	227.2 (5770)	4.3 (110)	4.3 (110)	6	6	10000 (4500)	6	12	10000 (4500)
Full Free-Lift 2-Stage (FV)	199 (5050)	129.9 (3300)	225.4 (5725)	246.9 (6270)	4.3 (110)	4.3 (110)	6	6	8850 (4000)	6	12	9750 (4400)
	120 (3050)	86.6 (2200)	147.2 (3740)	168.1 (4270)	59.5 (1510)	38.6 (980)	6	12	10000 (4500)	6	12	10000 (4500)
Full Free-Lift 3-Stage (FSV)	132 (3350)	92.5 (2350)	159.1 (4040)	179.9 (4570)	65.4 (1660)	44.5 (1130)	6	12	10000 (4500)	6	12	10000 (4500)
	159.5 (4050)	83.5 (2120)	186.8 (4745)	207.5 (5270)	56.3 (1430)	35.4 (900)	6	6	10000 (4500)	6	6	10000 (4500)
	171.5 (4350)	86.6 (2200)	198.6 (5045)	219.3 (5570)	59.5 (1510)	38.6 (980)	6	6	9750 (4500)	6	6	9750 (4500)
	187 (4750)	92.5 (2350)	214.4 (5445)	235 (5970)	65.4 (1660)	44.5 (1130)	6	6	9300 (4200)	6	6	9700 (4400)
	199 (5050)	96.5 (2450)	226.2 (5745)	246.9 (6270)	69.3 (1760)	48.4 (1230)	6	6	8800 (4000)	6	6	9450 (4300)
	218.5 (5550)	102.4 (2600)	245.9 (6245)	266.5 (6770)	75.2 (1910)	54.3 (1380)	6	6	6650 (3000)	6	6	9000 (4100)
	238 (6050)	110.2 (2800)	265.6 (6745)	286.2 (7270)	83.1 (2110)	62.2 (1580)	6	6	5150 (2300)	6	6	8600 (3900)

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 ²	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 ²			FWD	BWD		FWD	BWD	
	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	deg	deg	lb (kg)	deg	deg	lb (kg)
8FG50U / 8FD50U												
Wide Visible (V)	120.5 (3065)	96.5 (2450)	153.7 (3905)	174.6 (4435)	4.9 (125)	4.9 (125)	6	12	11000 (5000)	6	12	11000 (5000)
	132.5 (3365)	102.4 (2600)	165.6 (4205)	186.4 (4735)	4.9 (125)	4.9 (125)	6	12	11000 (5000)	6	12	11000 (5000)
	148 (3765)	110.2 (2800)	181.3 (4605)	202.2 (5135)	4.9 (125)	4.9 (125)	6	12	11000 (5000)	6	12	11000 (5000)
	160 (4065)	120.1 (3050)	193.1 (4905)	214 (5435)	4.9 (125)	4.9 (125)	6	12	11000 (5000)	6	12	11000 (5000)
	179.5 (4565)	129.9 (3300)	212.8 (5405)	233.7 (5935)	4.9 (125)	4.9 (125)	6	6	11000 (5000)	6	12	11000 (5000)
	199.5 (5065)	139.8 (3550)	232.5 (5905)	253.4 (6435)	4.9 (125)	4.9 (125)	6	6	9000 (4000)	6	12	10600 (4800)
Full Free-Lift 3-Stage (FSV)	160 (4065)	89.4 (2270)	194.3 (4935)	214 (5435)	55.1 (1400)	35.4 (900)	6	6	10800 (4900)	6	6	10800 (4900)
	172 (4365)	92.5 (2350)	206.1 (5235)	225.8 (5735)	58.3 (1480)	38.6 (980)	6	6	10600 (4800)	6	6	10600 (4800)
	187.5 (4765)	96.5 (2450)	221.9 (5635)	241.5 (6135)	62.2 (1580)	42.5 (1080)	6	6	9500 (4300)	6	6	10200 (4600)
	199.5 (5065)	102.4 (2600)	233.7 (5935)	253.4 (6435)	68.1 (1730)	48.4 (1230)	6	6	9000 (4100)	6	6	10000 (4500)
	219 (5565)	110.2 (2800)	253.4 (6435)	273 (6935)	76 (1930)	56.3 (1430)	6	6	6800 (3100)	6	6	9500 (4300)
	239 (6065)	120.1 (3050)	273 (6935)	292.7 (7435)	85.8 (2180)	66.1 (1680)	6	6	5300 (2400)	6	6	9000 (4100)

1 Height of standard load backrest is 48" (1220 mm).
2 Height of standard load backrest is 54" (1370 mm).



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