

LARGE IC PNEUMATIC



13500 - 17500 LBS.

SPECIFICATIONS



8FGU60-80 | 8FDU60-80

CLASS
5

INTERNAL COMBUSTION ENGINE PNEUMATIC TIRE

ToyotaForklift.com

LARGE IC PNEUMATIC

CAPACITY
13500 - 17500 LBS.

MAXIMUM FORK HEIGHT
239 IN.

LOAD CENTER
24 IN.

INDUSTRIES



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
- One-way automatic fork leveling
- 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			8FG60U	8FD60U	8FG70U	8FD70U	
Load Capacity	lb (kg)		13500 (6000)	13500 (6000)	15500 (7000)	15500 (7000)	
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	4x / 2		4x / 2	4x / 2	4x / 2	
EXTERIOR DIMENSIONS			8FG60U	8FD60U	8FG70U	8FD70U	
A Maximum Fork Height (top of forks)	in (mm)	120.5 (3060)		120.5 (3060)	120.6 (3065)	120.6 (3065)	
B Free-Lift (top of forks)	in (mm)	4.9 (125)		4.9 (125)	4.9 (125)	4.9 (125)	
C Fork Size (T x W x L)	in (mm)	2.4 x 6 x 48 (60 x 150 x 1220)		2.4 x 6 x 48 (60 x 150 x 1220)	2.6 x 6 x 48 (65 x 150 x 1220)	2.6 x 6 x 48 (65 x 150 x 1220)	
D Fork Spread Max. / Min. (outer edge to edge)	in (mm)	66.9 / 11.8 (1700 / 300)		66.9 / 11.8 (1700 / 300)	66.9 / 11.8 (1700 / 300)	66.9 / 11.8 (1700 / 300)	
E Tilt Range (forward / backward)	deg	6 / 12		6 / 12	6 / 12	6 / 12	
F Length to Fork Face	in (mm)	137.4 (3490)		137.4 (3490)	139.6 (3545)	139.6 (3545)	
G Overall Width	in (mm)	77.4 (1965)		77.4 (1965)	77.4 (1965)	77.4 (1965)	
H Mast Lowered Height	in (mm)	96.8 (2460)		96.8 (2460)	96.8 (2460)	96.8 (2460)	
I Mast Extended Height (top of load backrest)	in (mm)	174.6 (4435)		174.6 (4435)	174.6 (4435)	174.6 (4435)	
J Overhead Guard Height	in (mm)	90.9 (2310)		90.9 (2310)	90.9 (2310)	90.9 (2310)	
K Turning Radius (inside / outside)	in (mm)	127 (3230)		127 (3230)	129 (3280)	129 (3280)	
L Load Distance ¹	in (mm)	22.8 (580)		22.8 (580)	23 (585)	23 (585)	
M Basic Right-Angle Stacking Aisle Width	in (mm)	150 (3810)		150 (3810)	152 (3870)	152 (3870)	
PERFORMANCE DATA			8FG60U	8FD60U	8FG70U	8FD70U	
Speeds	Maximum Travel (forward / reverse)	Full Load	mph (km/h)	11.8 (19.0) / 11.8 (19.0)	11.8 (19.0) / 11.8 (19.0)	11.8 (19.0) / 11.8 (19.0)	11.8 (19.0) / 11.8 (19.0)
		No Load	mph (km/h)	13.0 (21.0) / 13.0 (21.0)	13.0 (21.0) / 13.0 (21.0)	13.0 (21.0) / 13.0 (21.0)	13.0 (21.0) / 13.0 (21.0)
	Lifting	Full Load	fpm (mm/sec)	81 (410)	81 (410)	81 (410)	81 (410)
		No Load	fpm (mm/sec)	87 (440)	87 (440)	87 (440)	87 (440)
	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)	10350 (4700)	10350 (4700)	10350 (4700)	10350 (4700)
		No Load	lb (kg)	4700 (2130)	4730 (2150)	4480 (2030)	4520 (2050)
Gradeability	1 mph (1.5 km/h) ¹	Full Load	%	25	25	22	22
		Full Load	%	34	34	30	30
	Maximum ¹	No Load	%	24	24	21	21
TRUCK WEIGHTS			8FG60U	8FD60U	8FG70U	8FD70U	
Total Weight	lb (kg)		18530 (8400)	18660 (8460)	19980 (9060)	20110 (9120)	
Weight Distribution	Full Load (front / rear)		28960 (12920) / 3070 (1480)	29030 (12950) / 3130 (1510)	31730 (14320) / 3750 (1740)	31790 (14350) / 3820 (1770)	
	No Load (front / rear)		8320 (3770) / 10210 (4630)	8390 (3800) / 10270 (4660)	8010 (3630) / 11970 (5430)	8070 (3660) / 12040 (5460)	
TIRES			8FG60U	8FD60U	8FG70U	8FD70U	
Tires	Number (front / rear)		4 / 2		4 / 2		
	Size	Front	8.25-15-12PR		8.25-15-14PR		
		Rear	8.25-15-12PR		8.25-15-14PR		
Wheelbase	in (mm)		88.6 (2250)		88.6 (2250)		
Tread Width (front / rear)	in (mm)		56.7 (1440) / 57.5 (1460)		56.7 (1440) / 57.5 (1460)		
Underclearance (full load)	Minimum with Load		in (mm)		4.9 (125)		
	Center of Wheelbase		in (mm)		9.8 (250)		
Brake	Service (foot) / Parking		Hydraulic / Hand		Hydraulic / Hand		
POWER SYSTEM			8FG60U	8FD60U	8FG70U	8FD70U	
Battery (5-hour rating)	V / Ah		12 / 48		12 / 70		
Internal Combustion Engine	Make / Model		TOYOTA 1FS		TOYOTA 1KD		
	Rated Horsepower @ rpm	SAE HP	93 @ 2550		74 @ 2200		
		(kW)	(69 @ 2550)		(55 @ 2200)		
	Rated Torque @ rpm	SAE ft-lb	200 @ 1600		220 @ 1200 - 1500		
		(N-m)	(276 @ 1600)		(300 @ 1200 - 1500)		
	Number of Cylinders		4		4		
Piston Displacement		cu in (cc)		224 (3685)			
Fuel Tank Capacity		US gal (liter)		34 (130)			
Transmission	Type		Powershift		Powershift		
	Speeds (forward / reverse)		2 / 2		2 / 2		
Auxiliary Hydraulic Function Specifications (for attachments) ²	Max. Operating Pressure		psi (kg/cm ²)		2990 (210)		
	Max. Flow Rate		gpm (lpm)		33.8 (128)		

¹ Computed values.

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

TRUCK SPECIFICATIONS

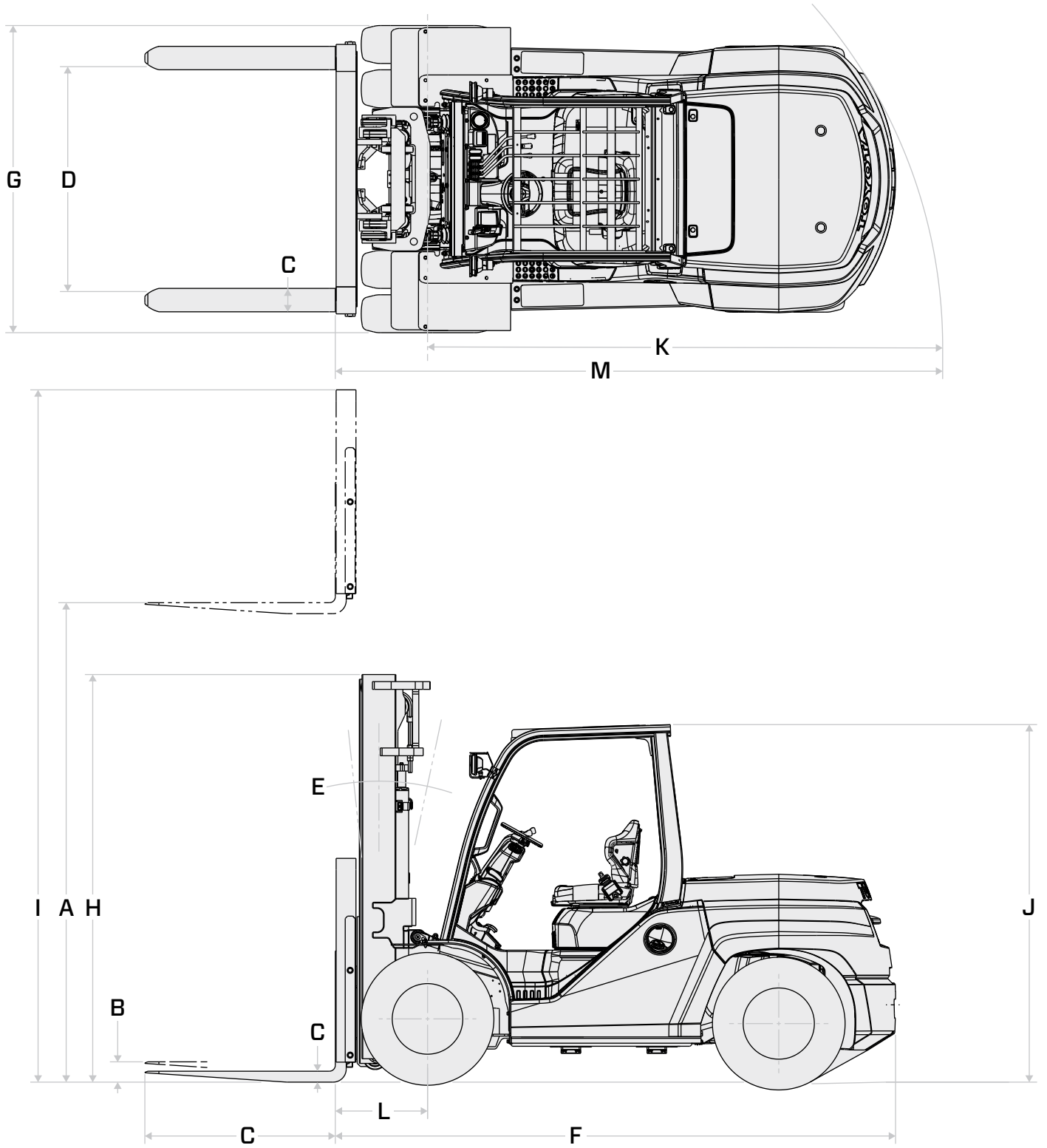
MODEL NUMBERS

GENERAL DATA				8FG80U	8FD80U	
Load Capacity		lb (kg)		17500 (8000)	17500 (8000)	
Power Type				Gasoline	Diesel	
Operator Position				Seated Rider	Seated Rider	
Tire Type	Front / Rear		Pneumatic / Pneumatic		Pneumatic / Pneumatic	
Wheels (x = driven)	Front / Rear		4x / 2		4x / 2	
EXTERIOR DIMENSIONS				8FG80U	8FD80U	
A	Maximum Fork Height (top of forks)		in (mm)		120.8 (3070)	120.8 (3070)
B	Free-Lift (top of forks)		in (mm)		5.1 (130)	5.1 (130)
C	Fork Size (T x W x L)		in (mm)		2.8 x 6 x 48 (70 x 150 x 1220)	2.8 x 6 x 48 (70 x 150 x 1220)
D	Fork Spread Max. / Min. (outer edge to edge)		in (mm)		66.9 / 11.8 (1700 / 300)	66.9 / 11.8 (1700 / 300)
E	Tilt Range (forward / backward)		deg		6 / 12	6 / 12
F	Length to Fork Face		in (mm)		141.3 (3590)	141.3 (3590)
G	Overall Width		in (mm)		77.4 (1965)	77.4 (1965)
H	Mast Lowered Height		in (mm)		102.8 (2610)	102.8 (2610)
I	Mast Extended Height (top of load backrest)		in (mm)		174.8 (4440)	174.8 (4440)
J	Overhead Guard Height		in (mm)		90.9 (2310)	90.9 (2310)
K	Turning Radius (inside / outside)		in (mm)		130.5 (3320)	130.5 (3320)
L	Load Distance ¹		in (mm)		23.2 (590)	23.2 (590)
M	Basic Right-Angle Stacking Aisle Width		in (mm)		154 (3910)	154 (3910)
PERFORMANCE DATA				8FG80U	8FD80U	
Speeds	Maximum Travel (forward / reverse)	Full Load	mph (km/h)	11.8 (19.0) / 11.8 (19.0)	11.8 (19.0) / 11.8 (19.0)	
		No Load	mph (km/h)	13.0 (21.0) / 13.0 (21.0)	13.0 (21.0) / 13.0 (21.0)	
	Lifting	Full Load	fpm (mm/sec)	81 (410)	73 (370)	
		No Load	fpm (mm/sec)	87 (440)	87 (440)	
	Lowering	Full Load	fpm (mm/sec)	104 (530)	104 (530)	
		No Load	fpm (mm/sec)	94 (480)	94 (480)	
Drawbar Pull	Maximum	Full Load	lb (kg)	10150 (4600)	10150 (4600)	
		No Load	lb (kg)	4440 (2010)	4480 (2030)	
Gradeability	1 mph (1.5 km/h) ¹	Full Load	%	18	19	
		Maximum ¹	%	26	26	
		No Load	%	19	19	
TRUCK WEIGHTS				8FG80U	8FD80U	
Total Weight		lb (kg)		21860 (9910)	21990 (9970)	
Weight Distribution	Full Load (front / rear)		lb (kg)		34810 (15850) / 4550 (2060)	34880 (15880) / 4610 (2090)
	No Load (front / rear)		lb (kg)		7990 (3610) / 13870 (6300)	8060 (3650) / 13930 (6320)
TIRES				8FG80U	8FD80U	
Tires	Number (front / rear)		4 / 2		4 / 2	
	Size	Front	8.25-15-14PR		8.25-15-14PR	
		Rear	8.25-15-14PR		8.25-15-14PR	
Wheelbase	in (mm)		88.6 (2250)		88.6 (2250)	
Tread Width (front / rear)	in (mm)		56.7 (1440) / 57.5 (1460)		56.7 (1440) / 57.5 (1460)	
Underclearance (full load)	Minimum with Load		in (mm)		4.9 (125)	4.9 (125)
	Center of Wheelbase		in (mm)		9.8 (250)	9.8 (250)
Brake	Service (foot) / Parking		Hydraulic / Hand		Hydraulic / Hand	
POWER SYSTEM				8FG80U	8FD80U	
Battery (5-hour rating)		V / Ah		12 / 48	12 / 70	
Internal Combustion Engine	Make / Model		TOYOTA 1FS		TOYOTA 1KD	
	Rated Horsepower @ rpm	SAE HP	93 @ 2550		74 @ 2200	
		(kW)	(69 @ 2550)		(55 @ 2200)	
	Rated Torque @ rpm	SAE ft-lb	200 @ 1600		220 @ 1200 - 1500	
		(N-m)	(276 @ 1600)		(300 @ 1200 - 1500)	
	Number of Cylinders		4		4	
Piston Displacement		cu in (cc)		224 (3685)	182 (2982)	
Fuel Tank Capacity		US gal (liter)		34 (130)	34 (130)	
Transmission	Type		Powershift		Powershift	
	Speeds (forward / reverse)		2 / 2		2 / 2	
Auxiliary Hydraulic Function Specifications (for attachments) ²	Max. Operating Pressure		psi (kg/cm ²)		2990 (210)	2990 (210)
	Max. Flow Rate		gpm (lpm)		33.8 (128)	33.8 (128)

¹ Computed values.

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

EXTERIOR DIMENSIONS



MAST SPECIFICATIONS

MAST TYPE	MAXIMUM FORK HEIGHT (TOP OF FORKS)	OVERALL HEIGHT			FREE-LIFT		TILT RANGE		LOAD CAPACITY AT 24 IN. (610 MM) LOAD CENTER
		LOWERED	EXTENDED		WITHOUT LOAD BACKREST	WITH STANDARD LOAD BACKREST ¹	FWD	BWD	
			WITHOUT LOAD BACKREST	WITH STANDARD LOAD BACKREST ¹					
	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	deg	deg	lb (kg)
8FG60U / 8FD60U									
Wide Visible (V)	120.5 (3065)	96.9 (2460)	156.7 (3980)	174.6 (4435)	4.9 (125)	4.9 (125)	6	12	13500 (6000)
	132.5 (3365)	102.8 (2610)	168.5 (4280)	186.4 (4735)	4.9 (125)	4.9 (125)	6	12	13500 (6000)
	140.5 (3565)	106.7 (2710)	176.4 (4480)	194.3 (4935)	4.9 (125)	4.9 (125)	6	12	13500 (6000)
	148 (3765)	110.6 (2810)	184.3 (4680)	202.2 (5135)	4.9 (125)	4.9 (125)	6	12	13500 (6000)
	179.5 (4565)	130.3 (3310)	215.8 (5480)	233.7 (5935)	4.9 (125)	4.9 (125)	6	12	13500 (6000)
	219 (5565)	150 (3810)	255.1 (6480)	273 (6935)	4.9 (125)	4.9 (125)	6	12	13500 (6000)
Full Free-Lift 3-Stage (FSV)	160 (4065)	92.9 (2360)	196.9 (5000)	214 (5435)	56.1 (1425)	39 (990)	6	6	13300 (6000)
	172 (4365)	96.9 (2460)	208.7 (5300)	225.8 (5735)	60 (1525)	42.9 (1090)	6	6	12900 (5850)
	187.5 (4765)	100.4 (2550)	224.4 (5700)	241.5 (6135)	63.6 (1615)	46.5 (1180)	6	6	12400 (5620)
	199.5 (5065)	110.6 (2810)	236.2 (6000)	253.4 (6435)	73.8 (1875)	56.7 (1440)	6	6	12110 (5500)
	219 (5565)	120.5 (3060)	255.9 (6500)	273 (6935)	83.7 (2125)	66.5 (1690)	6	6	11450 (5200)
	239 (6065)	122.4 (3110)	275.6 (7000)	292.7 (7435)	85.6 (2175)	68.5 (1740)	6	6	11450 (5200)

MAST TYPE	MAXIMUM FORK HEIGHT (TOP OF FORKS)	OVERALL HEIGHT			FREE-LIFT		TILT RANGE		LOAD CAPACITY AT 24 IN. (610 MM) LOAD CENTER
		LOWERED	EXTENDED		WITHOUT LOAD BACKREST	WITH STANDARD LOAD BACKREST ¹	FWD	BWD	
			WITHOUT LOAD BACKREST	WITH STANDARD LOAD BACKREST ¹					
	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	deg	deg	lb (kg)
8FG70U / 8FD70U									
Wide Visible (V)	120.5 (3065)	96.9 (2460)	156.7 (3980)	174.6 (4435)	4.9 (125)	4.9 (125)	6	12	15500 (7000)
	132.5 (3365)	102.8 (2610)	168.5 (4280)	186.4 (4735)	4.9 (125)	4.9 (125)	6	12	15500 (7000)
	140.5 (3565)	106.7 (2710)	176.4 (4480)	194.3 (4935)	4.9 (125)	4.9 (125)	6	12	15500 (7000)
	148 (3765)	110.6 (2810)	184.3 (4680)	202.2 (5135)	4.9 (125)	4.9 (125)	6	12	15500 (7000)
	179.5 (4565)	130.3 (3310)	215.8 (5480)	233.7 (5935)	4.9 (125)	4.9 (125)	6	12	15500 (7000)
	219 (5565)	150 (3810)	255.1 (6480)	273 (6935)	4.9 (125)	4.9 (125)	6	12	14750 (6700)
Full Free-Lift 3-Stage (FSV)	160 (4065)	92.9 (2360)	196.9 (5000)	214 (5435)	56.1 (1425)	39 (990)	6	6	15500 (7000)
	172 (4365)	96.9 (2460)	208.7 (5300)	225.8 (5735)	60 (1525)	42.9 (1090)	6	6	14800 (6730)
	187.5 (4765)	100.4 (2550)	224.4 (5700)	241.5 (6135)	63.6 (1615)	46.5 (1180)	6	6	14750 (6700)
	199.5 (5065)	110.6 (2810)	236.2 (6000)	253.4 (6435)	73.8 (1875)	56.7 (1440)	6	6	14750 (6700)
	219 (5565)	120.5 (3060)	255.9 (6500)	273 (6935)	83.7 (2125)	66.5 (1690)	6	6	12700 (5750)
	239 (6065)	122.4 (3110)	275.6 (7000)	292.7 (7435)	85.6 (2175)	68.5 (1740)	6	6	12550 (5700)

MAST TYPE	MAXIMUM FORK HEIGHT (TOP OF FORKS)	OVERALL HEIGHT			FREE-LIFT		TILT RANGE		LOAD CAPACITY AT 24 IN. (610 MM) LOAD CENTER
		LOWERED	EXTENDED		WITHOUT LOAD BACKREST	WITH STANDARD LOAD BACKREST ¹	FWD	BWD	
			WITHOUT LOAD BACKREST	WITH STANDARD LOAD BACKREST ¹					
	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	deg	deg	lb (kg)
8FG80U / 8FD80U									
Wide Visible (V)	121 (3070)	102.8 (2610)	160.8 (4085)	174.8 (4440)	5.1 (130)	5.1 (130)	6	12	17500 (8000)
	132.5 (3370)	106.7 (2710)	172.6 (4385)	186.6 (4740)	5.1 (130)	5.1 (130)	6	12	17500 (8000)
	140.5 (3570)	110.6 (2810)	180.5 (4585)	194.5 (4940)	5.1 (130)	5.1 (130)	6	12	17500 (8000)
	148.5 (3770)	120.5 (3060)	188.4 (4785)	202.4 (5140)	5.1 (130)	5.1 (130)	6	12	17500 (8000)
	180 (4570)	140.2 (3560)	219.9 (5585)	233.9 (5940)	5.1 (130)	5.1 (130)	6	12	17500 (8000)

¹ Height of standard load backrest is 54" (1370 mm).
NOTE: Mast will be removed for delivery if overall lowered height is greater than 106" (2692 mm).





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