

# LARGE IC PNEUMATIC



13500 - 17500 LBS.

SPECIFICATIONS



50-8FG60U-80U



INTERNAL COMBUSTION ENGINE PNEUMATIC TIRE

[ToyotaForklift.com](http://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
- Force-cooled wet disc brakes
- Fully oil charged lift cylinder

### 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 "LP" Engine
  - 1FS US 4-cylinder, 3.7L OHV engine
  - Electronic fuel injection
- 2 speed automatic (powershift) transmission
  - 2FWD/2REV speeds
  - Electronically controlled
- Automatic transmission with oil cooler
- 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
  - Parking brake indicator
  - SAS/OPSS warning light
- Alternator with built-in regulator
  - LP model = 70A
- Full-floating powertrain
- Treaded pneumatic tires (front & rear)
- Wide tread
- 1st gear lock switch on steering column
- Distributor Less Ignition System (1FS)
- Sealed Starter
- Wet Brakes
- Dual Drive Tires
- Side Ring Rear Wheel

### 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-mounted instrument display
- Oversized cup holder
- Premium Full-Suspension Seat (Vinyl)
- 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

## OPTIONAL EQUIPMENT

### MASTS

- Wide Visible Mast (V)
- Full-Free Lift Three-Stage Mast (FSV)

### LOAD HANDLING

- Fork Bar (Carriage)
- Fully Oil Charged Lift Cylinders
- High Load Backrest
- Hydraulic Accumulator
- Hydraulic Quick Disconnects (Dual)
- Less Forks
- Less Mast and Forks and Load Backrest
- Pin Type Forks
- Side Hosing Termination
- Tapered Forks
- Without Load Backrest
- 96" Forks, Hang-On Style
- 96" Forks, Pin-Type
- Metallic Mast Bushings

### LOAD HANDLING (HOSE & VALVE ASSEMBLY, ATTACHMENTS)

- Various 3-Way & 4-Way Valves
- Various Cascade Attachments
- Various Clamp Release Interlock Levers
- Integral Sideshifter (Rightline)
- Integral Sideshifting Fork Positioner (Rightline)

### BODY

- Engine Hood Ventilation
- Various Polycarbonate OHG Cover Options
- Rear View Mirrors (Left & Right Sides)
- Adjustable Cabin Mirrors
- Various Special Color Cab Options
- Various Special Paint Options
- Steel Cabin

### POWERTRAIN

- 43.5 lb. LP Aluminum Tank
- 43.5 lb. LP Steel Tank
- Box Fin Radiator
- Cold Climate Spec
- Cyclone Air Cleaner (Dual Element)
- High Capacity Alternator
- High Capacity Battery
- High Capacity Cooling Package
- Keyless Ignition Switch
- Low LPG Fuel Warning Indicator
- LPG Bracket (Swing Down Type)
- LPG Regulator Drain Valve
- Pre-Cleaner
- Pre-Cleaner with Rear Worklight
- Sealed Alternator

### STEERING AND OPERATION

- Directional Lever on Column
- EZ Pedal Foot Direction Control
- Intelli-Shift
- Mini Lever controls with Ergo-Shift
- Single Pedal (Combination Brake/Inching)
- Steering Wheel with Knob
- Synchronized Steering
- Factory Set Speed Limit
- EZ Control Joystick® Upgrade (Non-Clamping Attachments)
- EZ Fingertip Controls®

### LIGHTS

- Blue Light (Key ON/OFF)
- Blue Light (Back ON/OFF)
- LED Front Combination Lights
- LED Headlights
- LED Rear Combination Lights
- LED Rear Working Light
- LED Reverse Activated Rear Work Light
- LED Strobe Light - Amber
- LED Strobe Light - Blue
- Red Zone Light
- Key Activated, Forward Facing Blue Light
- Key Off Head Light Off System
- Operator Compartment Light
- Wiring Harness for rear overhead guard options
- Auto Lights On/Off (Wired to Oil Pressure Switch)

### SEAT AND SEAT BELTS

- Premium, full-suspension vinyl seat
- Premium, full-suspension fabric seat
- 4-Way Adjustable Cloth Full-Suspension Seat
- Swivel Seat - Cloth (with G40C seat)
- Swivel Seat - Vinyl (with G40I seat)
- Seat Belt Interlock
- Mordura Full Suspension Seat

### INDICATORS AND MISCELLANEOUS

- 12 Volt Power Supply
- Adj Volume Back-up Alarm (Smart Alarm)
- Back-Up Alarm
- Block Heater
- Fire Extinguisher
- 5 Pound Fire Extinguisher Upgrade
- Operator Cooling Fan
- Pencil/Tape Holder (Mounted on OHG Leg)
- Hydraulic Oil Temp Gauge
- Pre Delivery Inspection
- Programmable Security Lock
- Rear Pillar Assist Grip with Horn Button
- Tablet Power Supply and Mount
- SEnS Smart Environment Sensor
- Quickfit Oil Change System

### CHASSIS

- Force-Cooled Wet Disc Brakes
- Dual Drive Tires
- Front Solid Tires
- Rear Solid Tires
- Side Ring Rear Wheel

### SPECIAL U.L. MODELS

- U.L. LPS Approved Model
- G/LP Dual Fuel Model

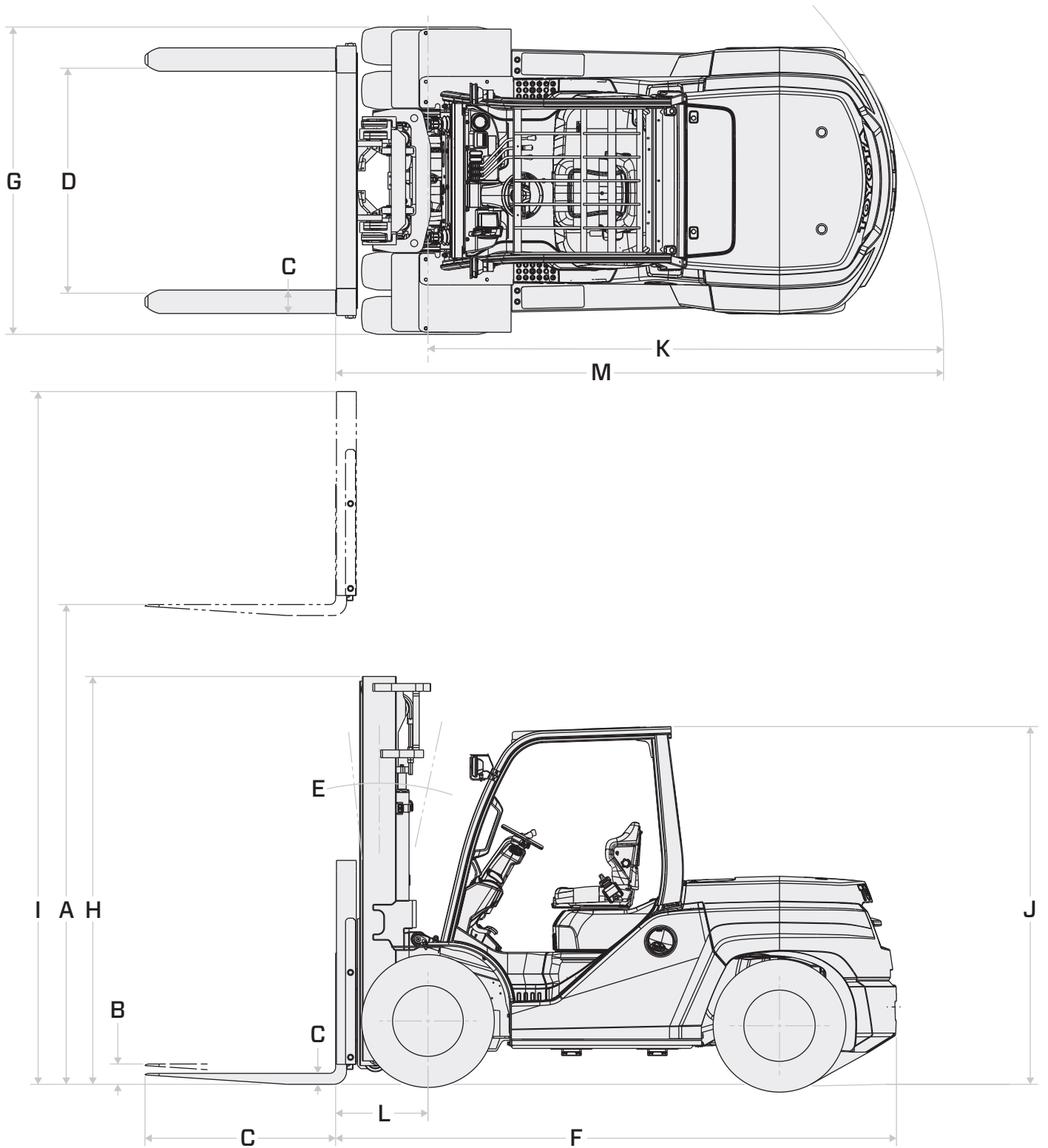
# TRUCK SPECIFICATIONS

MODEL NUMBERS

GENERAL DATA			50-8FG60U	50-8FG70U	50-8FG80U		
Load Capacity	lb (kg)		13500 (6000)	15500 (7000)	17500 (8000)		
Power Type			LP	LP	LP		
Operator Position			Seated Rider	Seated Rider	Seated Rider		
Tire Type	Front / Rear		Pneumatic / Pneumatic	Pneumatic / Pneumatic	Pneumatic / Pneumatic		
Wheels (x = driven)	Front / Rear		4x / 2	4x / 2	4x / 2		
EXTERIOR DIMENSIONS			50-8FG60U	50-8FG70U	50-8FG80U		
<b>A</b> Maximum Fork Height (top of forks)	in (mm)		120.5 (3060)	120.6 (3065)	120.8 (3070)		
<b>B</b> Free-Lift (top of forks)	in (mm)		4.9 (125)	4.9 (125)	5.1 (130)		
<b>C</b> Fork Size (T x W x L)	in (mm)		2.4 x 6 x 48 (60 x 150 x 1220)	2.6 x 6 x 48 (65 x 150 x 1220)	2.8 x 6 x 48 (70 x 150 x 1220)		
<b>D</b> 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)		
<b>E</b> Tilt Range (forward / backward)	deg		6 / 12	6 / 12	6 / 12		
<b>F</b> Length to Fork Face	in (mm)		137.4 (3490)	139.6 (3545)	141.3 (3590)		
<b>G</b> Overall Width	in (mm)		78.5 (1995)	78.5 (1995)	78.5 (1995)		
<b>H</b> Mast Lowered Height	in (mm)		96.8 (2460)	96.8 (2460)	102.8 (2610)		
<b>I</b> Mast Extended Height (top of load backrest)	in (mm)		174.6 (4435)	174.6 (4435)	174.8 (4440)		
<b>J</b> Overhead Guard Height <sup>3</sup>	in (mm)		90.9 (2310)	90.9 (2310)	90.9 (2310)		
<b>K</b> Turning Radius (inside / outside)	in (mm)		127 (3230)	129 (3280)	130.5 (3320)		
<b>L</b> Load Distance <sup>1</sup>	in (mm)		22.8 (580)	23 (585)	23.2 (590)		
<b>M</b> Basic Right-Angle Stacking Aisle Width	in (mm)		151 (3830)	153.0 (3890)	155.0 (3940)		
PERFORMANCE DATA			50-8FG60U	50-8FG70U	50-8FG80U		
Speeds	Maximum Travel (forward / reverse)	Full Load	mph (km/h)	11.8 (19.0) / 11.8 (19.0)	11.5 (18.5) / 11.5 (18.5)	11.5 (18.5) / 11.5 (18.5)	
		No Load	mph (km/h)	12 (19.5) / 12 (19.5)	12 (19.5) / 12 (19.5)	12 (19.5) / 12 (19.5)	
	Lifting	Full Load	fpm (mm/sec)	83 (420)	83 (420)	69 (350)	
		No Load	fpm (mm/sec)	85 (430)	85 (430)	85 (430)	
	Lowering	Full Load	fpm (mm/sec)	104 (530)	104 (530)	104 (530)	
		No Load	fpm (mm/sec)	94 (480)	94 (480)	94 (480)	
Drawbar Pull	Maximum	Full Load	lb (kg)	9900 (4500)	9700 (4400)	9700 (4400)	
		No Load	lb (kg)	4700 (2130)	4480 (2030)	4440 (2010)	
Gradeability	1 mph (1.5 km/h) <sup>1</sup>	Full Load	%	25	22	19	
		Maximum <sup>1</sup>	Full Load	%	32	28	25
			No Load	%	24	21	19
TRUCK WEIGHTS			50-8FG60U	50-8FG70U	50-8FG80U		
Total Weight	lb (kg)		18720 (8500)	20170 (9160)	22040 (10010)		
Weight Distribution	Full Load (front / rear)	lb (kg)	28650 (13000) / 3300 (1500)	31740 (14400) / 3870 (1760)	35110 (15930) / 4570 (2080)		
	No Load (front / rear)	lb (kg)	8480 (3850) / 10240 (4650)	8170 (3710) / 12000 (5450)	8120 (3690) / 13920 (6320)		
TIRES			50-8FG60U	50-8FG70U	50-8FG80U		
Tires	Number (front / rear)		4 / 2	4 / 2	4 / 2		
	Size	Front	8.25-15-12PR	8.25-15-14PR	8.25-15-14PR		
		Rear	8.25-15-12PR	8.25-15-14PR	8.25-15-14PR		
Wheelbase	in (mm)		88.6 (2250)	88.6 (2250)	88.6 (2250)		
Tread Width (front / rear)	in (mm)		57.9 (1470) / 57.5 (1460)	57.9 (1470) / 57.5 (1460)	57.9 (1470) / 57.5 (1460)		
Underclearance (full load)	Minimum with Load	in (mm)	4.9 (125)	4.9 (125)	4.9 (125)		
	Center of Wheelbase	in (mm)	9.8 (250)	9.8 (250)	9.8 (250)		
Brake	Service (foot) / Parking		Hydraulic <wet> / Hand	Hydraulic <wet> / Hand	Hydraulic <wet> / Hand		
POWER SYSTEM			50-8FG60U	50-8FG70U	50-8FG80U		
Battery (5-hour rating)	V / Ah		12 / 35	12 / 35	12 / 35		
Internal Combustion Engine <sup>4</sup>	Model		1FS-US	1FS-US	1FS-US		
	Rated Horsepower @ rpm	SAE HP	88 @ 2530	88 @ 2530	88 @ 2530		
		(kW)	(66 @ 2530)	(66 @ 2530)	(66 @ 2530)		
	Rated Torque @ rpm	SAE ft-lb	212 @ 1500	212 @ 1500	212 @ 1500		
		(N-m)	(288 @ 1500)	(288 @ 1500)	(288 @ 1500)		
	Number of Cylinders		4	4	4		
Piston Displacement	cu in (cc)	224 (3685)	224 (3685)	224 (3685)			
Fuel Tank Capacity	US gal (liter)	34 (130)	34 (130)	34 (130)			
Transmission	Type		Powershift	Powershift	Powershift		
	Speeds (forward / reverse)		2 / 2	2 / 2	2 / 2		
Auxiliary Hydraulic Function Specifications (for attachments) <sup>2</sup>	Max. Operating Pressure	psi (kg/cm <sup>2</sup> )	2990 (210)	2990 (210)	2990 (210)		
	Max. Flow Rate	gpm (lpm)	33.8 (128)	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.).  
 3 Overhead guard height tolerance is +/- 1.57" (measured from the ground to the top of the overhead guard)  
 4 Estimated based on preliminary performance test data

# 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 <sup>1</sup>	FWD	BWD	
			WITHOUT LOAD BACKREST	WITH STANDARD LOAD BACKREST <sup>1</sup>					
	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	deg	deg	lb (kg)
<b>50-8FG60U</b>									
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 <sup>1</sup>	FWD	BWD	
			WITHOUT LOAD BACKREST	WITH STANDARD LOAD BACKREST <sup>1</sup>					
	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	deg	deg	lb (kg)
<b>50-8FG70U</b>									
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 <sup>1</sup>	FWD	BWD	
			WITHOUT LOAD BACKREST	WITH STANDARD LOAD BACKREST <sup>1</sup>					
	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	deg	deg	lb (kg)
<b>50-8FG80U</b>									
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)

<sup>1</sup> 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).





# “I’M HERE TO MAKE SURE YOUR FORKLIFTS DON’T TAKE VACATION DAYS.”

Butch - 360 Technician, ProLift, Cincinnati, Ohio



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