

# LARGE IC PNEUMATIC



13500 - 17500 LBS.

SPECIFICATIONS



8FDU60-80

CLASS  
5

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



Brick, Block  
& Pipe



Distribution



Factory



General  
Manufacturing



Lumber



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
- One-way automatic fork leveling
- Key off/headlight off system
- Speed control

### PERFORMANCE

- EPA/CARB-certified engine
- UL "D" diesel engine
- Toyota 4-cylinder, 3.0 liter, DOHC Tier 4 Final (Diesel Oxidation Catalyst) diesel engine (1KD)
- 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
  - Check engine light
  - Engine oil pressure warning light
  - OPSS activation light
  - Parking brake indicator
  - SAS/OPSS warning light

### 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
- Premium Comfort 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

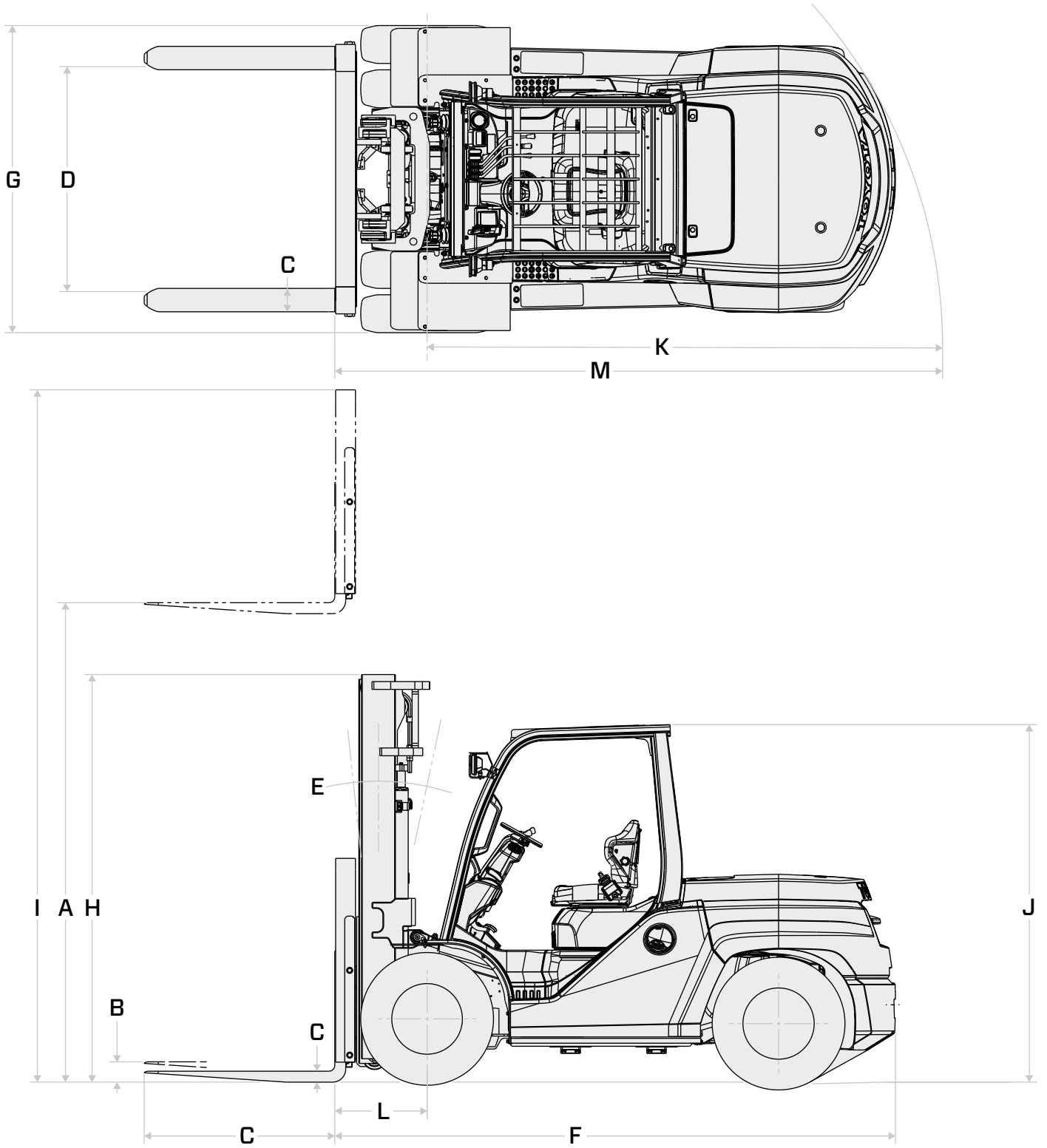
## MODEL NUMBERS

GENERAL DATA			8FD60U	8FD70U	8FD80U		
Load Capacity	lb (kg)		13500 (6000)	15500 (7000)	17500 (8000)		
Power Type			Diesel	Diesel	Diesel		
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			8FD60U	8FD70U	8FD80U		
<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	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)		150 (3810)	152 (3870)	154 (3910)		
PERFORMANCE DATA			8FD60U	8FD70U	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)	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)	
	Lifting	Full Load	fpm (mm/sec)	81 (410)	81 (410)	73 (370)	
		No Load	fpm (mm/sec)	87 (440)	87 (440)	87 (440)	
	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)	10350 (4700)	10350 (4700)	10150 (4600)	
		No Load	lb (kg)	4730 (2150)	4520 (2050)	4480 (2030)	
Gradeability	1 mph (1.5 km/h) <sup>1</sup>	Full Load	%	25	22	19	
		Maximum <sup>1</sup>	Full Load	%	34	30	26
			No Load	%	24	21	19
TRUCK WEIGHTS			8FD60U	8FD70U	8FD80U		
Total Weight	lb (kg)		18850 (8560)	20300 (9220)	22180 (10070)		
Weight Distribution	Full Load (front / rear)	lb (kg)	28720 (13030) / 3360 (1530)	31800 (14430) / 3940 (1790)	35170 (15960) / 4640 (2110)		
	No Load (front / rear)	lb (kg)	8540 (3880) / 10310 (4680)	8230 (3740) / 12070 (5480)	8210 (3730) / 13970 (6340)		
TIRES			8FD60U	8FD70U	8FD80U		
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			8FD60U	8FD70U	8FD80U		
Battery (5-hour rating)	V / Ah		12 / 70	12 / 70	12 / 70		
Internal Combustion Engine	Make / Model		TOYOTA 1KD	TOYOTA 1KD	TOYOTA 1KD		
	Rated Horsepower @ rpm	SAE HP	74 @ 2200	74 @ 2200	74 @ 2200		
		(kW)	(55 @ 2200)	(55 @ 2200)	(55 @ 2200)		
	Rated Torque @ rpm	SAE ft-lb	220 @ 1200 - 1500	220 @ 1500	220 @ 1200 - 1500		
		(N-m)	(300 @ 1200 - 1500)	(300 @ 1200 - 1500)	(300 @ 1200 - 1500)		
	Number of Cylinders			4	4	4	
Piston Displacement		cu in (cc)	182 (2982)	182 (2982)	182 (2982)		
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)		
	Max. Flow Rate		gpm (lpm)	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.).

# 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>8FD60U</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>8FD70U</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>8FD80U</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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**YOUR BUSINESS IS RIDING ON IT.**

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