

# LARGE IC PNEUMATIC



13500 - 17500 LBS.

SPECIFICATIONS



8FGU60-80 | 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



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
- 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

### SAFETY

- 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

### PERFORMANCE

- EPA/CARB-certified engine
- Toyota 4-cylinder, 3.7 liter, OHV gasoline engine (1FS)
- Toyota 4-cylinder, 3.0 liter, DOHC Tier 4 Final (Diesel Oxidation Catalyst) diesel engine (1KD)
- Electronic fuel injection (gasoline only)
- Distributorless ignition system (1FS)
- UL "G" gasoline engine
- UL "D" diesel engine
- Automatic fork leveling feature
- Integrated monitoring system – includes:
  - Digital hour meter display
  - Engine coolant temperature gauge
  - Fuel gauge (except LPG-only models)
  - Check engine light
  - Sedimentor warning light (diesel only)
  - Glow indicator light (diesel only)
  - Engine oil pressure warning light
  - Battery charge warning light
  - OPSS activation light
- Limited free-lift 2-stage mast (V)
- Adjustable headlights with guards
- Double-action parking brake (hand)
- Alternator with built-in regulator
  - Gas model = 60A
  - Diesel model = 80A
- Automatic transmission with oil cooler
- Full-floating powertrain
- Hydraulic valve lifters
- Integrated headlight & turn signal lever
- Electric shift control
- Speed control (technician programmable)
- Engine protection system

### ERGONOMICS

- Dash-mounted instrument display
- 11.8"-dia., two-spoke steering wheel
- Load-sensing power steering
- 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
- 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                         |                           |
| <b>A</b> Maximum Fork Height (top of forks)                                | in (mm)                            |                | 120.5 (3060)                   | 120.5 (3060)                   | 120.6 (3065)                   | 120.6 (3065)                   |                           |
| <b>B</b> Free-Lift (top of forks)  | in (mm)                            |                | 4.9 (125)                      | 4.9 (125)                      | 4.9 (125)                      | 4.9 (125)                      |                           |
| <b>C</b> 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) |                           |
| <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)       | 66.9 / 11.8 (1700 / 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)                            |                | 137.4 (3490)                   | 137.4 (3490)                   | 139.6 (3545)                   | 139.6 (3545)                   |                           |
| <b>G</b> Overall Width   | in (mm)                            |                | 77.4 (1965)                    | 77.4 (1965)                    | 77.4 (1965)                    | 77.4 (1965)                    |                           |
| <b>H</b> Mast Lowered Height   | in (mm)                            |                | 96.8 (2460)                    | 96.8 (2460)                    | 96.8 (2460)                    | 96.8 (2460)                    |                           |
| <b>I</b> Mast Extended Height (top of load backrest)                       | in (mm)                            |                | 174.6 (4435)                   | 174.6 (4435)                   | 174.6 (4435)                   | 174.6 (4435)                   |                           |
| <b>J</b> Overhead Guard Height   | in (mm)                            |                | 90.9 (2310)                    | 90.9 (2310)                    | 90.9 (2310)                    | 90.9 (2310)                    |                           |
| <b>K</b> Turning Radius (inside / outside)                                 | in (mm)                            |                | 127 (3230)                     | 127 (3230)                     | 129 (3280)                     | 129 (3280)                     |                           |
| <b>L</b> Load Distance <sup>1</sup>  | in (mm)                            |                | 22.8 (580)                     | 22.8 (580)                     | 23 (585)                       | 23 (585)                       |                           |
| <b>M</b> 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) <sup>1</sup>      | Full Load      | %                              | 24                             | 24                             | 21                             | 21                        |
|  |                                    | Full Load      | %                              | 34                             | 34                             | 30                             | 30                        |
|  | Maximum <sup>1</sup>               | No Load        | %                              | 24                             | 24                             | 21                             | 21                        |
| TRUCK WEIGHTS  |                                    |                | 8FG60U                         | 8FD60U                         | 8FG70U                         | 8FD70U                         |                           |
| Total Weight   | lb (kg)                            |                | 18460 (8370)                   | 18590 (8430)                   | 19910 (9030)                   | 20040 (9090)                   |                           |
| Weight Distribution  | Full Load (front / rear)           | lb (kg)        | 28910 (12900) / 3050 (1470)    | 28980 (12930) / 3110 (1500)    | 31680 (14300) / 3730 (1730)    | 31740 (14330) / 3800 (1760)    |                           |
|  | No Load (front / rear)             | lb (kg)        | 8270 (3750) / 10190 (4620)     | 8340 (3780) / 10250 (4650)     | 7960 (3610) / 11950 (5420)     | 8020 (3640) / 12020 (5450)     |                           |
| TIRES  |                                    |                | 8FG60U                         | 8FD60U                         | 8FG70U                         | 8FD70U                         |                           |
| Tires  | Number (front / rear)              |                | 4 / 2                          | 4 / 2                          | 4 / 2                          | 4 / 2                          |                           |
|  | Size                               | Front          | 8.25-15-12PR                   | 8.25-15-12PR                   | 8.25-15-14PR                   | 8.25-15-14PR                   |                           |
|  |                                    | Rear           | 8.25-15-12PR                   | 8.25-15-12PR                   | 8.25-15-14PR                   | 8.25-15-14PR                   |                           |
| Wheelbase  | in (mm)                            |                | 88.6 (2250)                    | 88.6 (2250)                    | 88.6 (2250)                    | 88.6 (2250)                    |                           |
| Tread Width (front / rear)   | in (mm)                            |                | 56.7 (1440) / 57.5 (1460)      | 56.7 (1440) / 57.5 (1460)      | 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)                      | 4.9 (125)                      | 4.9 (125)                      |                           |
|  | Center of Wheelbase                | in (mm)        | 9.8 (250)                      | 9.8 (250)                      | 9.8 (250)                      | 9.8 (250)                      |                           |
| Brake  | Service (foot) / Parking           |                | Hydraulic / Hand               | Hydraulic / Hand               | Hydraulic / Hand               | Hydraulic / Hand               |                           |
| POWER SYSTEM   |                                    |                | 8FG60U                         | 8FD60U                         | 8FG70U                         | 8FD70U                         |                           |
| 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         | 93 @ 2550                      | 74 @ 2200                      | 93 @ 2550                      | 74 @ 2200                      |                           |
|  |                                    | (kW)           | (69 @ 2550)                    | (55 @ 2200)                    | (69 @ 2550)                    | (55 @ 2200)                    |                           |
|  | Rated Torque @ rpm                 | SAE ft-lb      | 200 @ 1600                     | 220 @ 1200 - 1500              | 200 @ 1600                     | 220 @ 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) | 34 (130)                       | 34 (130)                       | 34 (130)                       | 34 (130)                       |                           |
| 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> )      | 2990 (210)                     | 2990 (210)                     | 2990 (210)                     |                           |
|  | Max. Flow Rate                     |                | gpm (lpm)                      | 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.).

# TRUCK SPECIFICATIONS

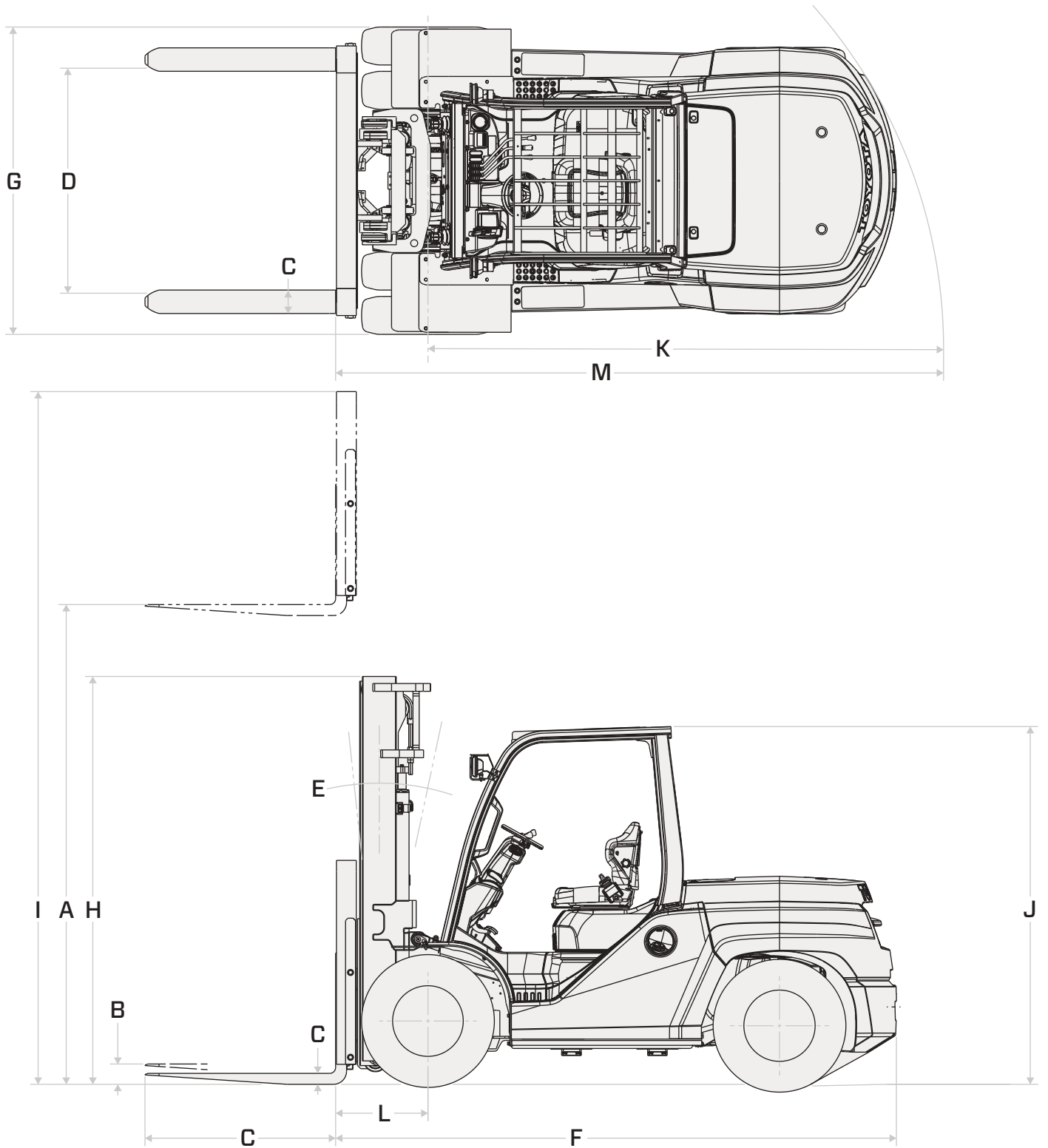
## MODEL NUMBERS

| 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                         |                                |
| <b>A</b>   | Maximum Fork Height (top of forks)           |                      | in (mm)                   |                           | 120.8 (3070)                   | 120.8 (3070)                   |
| <b>B</b>   | Free-Lift (top of forks)                     |                      | in (mm)                   |                           | 5.1 (130)                      | 5.1 (130)                      |
| <b>C</b>   | 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) |
| <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)       |
| <b>E</b>   | Tilt Range (forward / backward)              |                      | deg                       |                           | 6 / 12                         | 6 / 12                         |
| <b>F</b>   | Length to Fork Face                          |                      | in (mm)                   |                           | 141.3 (3590)                   | 141.3 (3590)                   |
| <b>G</b>   | Overall Width                                |                      | in (mm)                   |                           | 77.4 (1965)                    | 77.4 (1965)                    |
| <b>H</b>   | Mast Lowered Height                          |                      | in (mm)                   |                           | 102.8 (2610)                   | 102.8 (2610)                   |
| <b>I</b>   | Mast Extended Height (top of load backrest)  |                      | in (mm)                   |                           | 174.8 (4440)                   | 174.8 (4440)                   |
| <b>J</b>   | Overhead Guard Height                        |                      | in (mm)                   |                           | 90.9 (2310)                    | 90.9 (2310)                    |
| <b>K</b>   | Turning Radius (inside / outside)            |                      | in (mm)                   |                           | 130.5 (3320)                   | 130.5 (3320)                   |
| <b>L</b>   | Load Distance <sup>1</sup>                   |                      | in (mm)                   |                           | 23.2 (590)                     | 23.2 (590)                     |
| <b>M</b>   | 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) <sup>1</sup>                | Full Load            | %                         | 17                        | 18                             |                                |
|  |  | Maximum <sup>1</sup> | %                         | 26                        | 26                             |                                |
|  |  | No Load              | %                         | 19                        | 19                             |                                |
| TRUCK WEIGHTS  |  |                      |                           | 8FG80U                    | 8FD80U                         |                                |
| Total Weight   |  | lb (kg)              |                           | 21790 (9880)              | 21920 (9940)                   |                                |
| Weight Distribution  | Full Load (front / rear)                     |                      | lb (kg)                   |                           | 34760 (15830) / 4530 (2050)    | 34830 (15860) / 4590 (2080)    |
|  | No Load (front / rear)                       |                      | lb (kg)                   |                           | 7940 (3600) / 13850 (6280)     | 8010 (3630) / 13910 (6310)     |
| 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)                   |                      | 1 / 1                     |                           | 1 / 1                          |                                |
| 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>8FG60U / 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)                                 |
| Full Free-Lift 3-Stage (FSV) | 219 (5565)                         | 150 (3810)     | 255.1 (6480)          | 273 (6935)                               | 4.9 (125)             | 4.9 (125)                                | 6          | 12           | 13500 (6000)                                 |
|                              | 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>8FG70U / 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)                                 |
| Full Free-Lift 3-Stage (FSV) | 219 (5565)                         | 150 (3810)     | 255.1 (6480)          | 273 (6935)                               | 4.9 (125)             | 4.9 (125)                                | 6          | 12           | 14750 (6700)                                 |
|                              | 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>8FG80U / 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).





Some product features described herein are optional. Please consult your dealer for specifications.  
Details of specifications and equipment are based on information available at time of printing and may change without notice.



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