

# CORE IC PNEUMATIC



3000 - 6500 LBS.

SPECIFICATIONS



8FGU15-32 | 8FDU15-32

CLASS  
5

INTERNAL COMBUSTION ENGINE PNEUMATIC TIRE

[ToyotaForklift.com](http://ToyotaForklift.com)

## CORE IC PNEUMATIC

**CAPACITY**  
**3000 – 6500 LBS.**

**WHEELBASE**  
**58.5 – 66.9 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
- Limited free-lift 2-stage mast (V)
- Fully stamped steel side panels
- Moisture-resistant electric connectors
- Tilt cylinder boots

- High cooling capacity radiator with fan shroud
- Low-maintenance battery
- Large-capacity engine-cooling fan
- 7" cyclone air cleaner with high positioned external air intake
- Plate-iron front fenders

- Anti-restart ignition key switch
- Stamped steel engine hood
- Fully sealed air intake system
- Self-adjusting brakes
- Rear wheel well covers
- Scratch zones on both sides of counterweight

### SUPPORT

- System of Active Stability™ (SAS)
- Operator Presence Sensing System (OPSS)
- Speed control
- Bolt-on overhead guard

- Key lowering interlock
- High-durability electric horn
- LED headlights
- Neutral start safety switch
- Asbestos-free components

- Single touch maximum speed limitation & low speed setting
- Key off/headlight off system

### PERFORMANCE

- UL "G" gasoline engine
  - Toyota 4T-ECS 2.2 liter, 4-cylinder, OHV gasoline engine
  - EPA/CARB certified gasoline engine with 3-way catalytic muffler system
  - Distributor Less Ignition (DLI)
- Alternator with built-in regulator
- Automatic transmission with oil cooler
- Full-floating powertrain
- Electric shift control

- UL "D" diesel engine
  - Toyota 1ZS Toyota Direct Injection 4-stroke common rail diesel engine
  - EPA/CARB TIER 4 Final certified diesel engine with exhaust gas recirculation & diesel oxidation catalyst
- 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

### ERGONOMICS/CABIN

- Dash-mounted instrument display
- 11.8"-dia., two-spoke steering wheel
- Load-sensing hydrostatic power steering
- Heavy-duty non-slip rubber floor mat
- 12"-long dual operator assist grips
- One-way automatic fork leveling

- Integrated headlight & turn signal lever
- Cowl-mounted hydraulic control levers with rubber boot covers
- Low, wide-entry steps
- Non-cinching seatbelt
- Independent brake & inching pedals

- Dash-integrated amenity tray
- Oversized cup holder
- Vinyl 4-way adjustable full-suspension seat
- Slim profile, tilt steering column
- Foot-activated parking brake

### SERVICEABILITY

- Easy-access, no tools required floorboard
- Engine hood assist damper with lock device

- Air cleaner discharge valve
- Externally-mounted hydraulic oil return filter

- Dash-mounted brake fluid level check
- Easy-lift engine hood with wide 75° opening

TRUCK SPECIFICATIONS

| GENERAL DATA                                                   |                                              |                       |              | MODEL NUMBERS                  |                                |                                |                                |
|----------------------------------------------------------------|----------------------------------------------|-----------------------|--------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
|                                                                |                                              |                       |              | 8FGU15                         | 8FDU15                         | 8FGU18                         | 8FDU18                         |
| Load Capacity                                                  |                                              | lb (kg)               |              | 3000 (1350)                    | 3000 (1350)                    | 3500 (1600)                    | 3500 (1600)                    |
| 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          | Pneumatic / Pneumatic          |
| Wheels (x = driven)                                            | Front / Rear                                 | 2x / 2                |              | 2x / 2                         | 2x / 2                         | 2x / 2                         | 2x / 2                         |
| EXTERIOR DIMENSIONS                                            |                                              |                       |              | 8FGU15                         | 8FDU15                         | 8FGU18                         | 8FDU18                         |
| <b>A</b>                                                       | Maximum Fork Height (top of forks)           | in (mm)               |              | 131 (3335)                     | 131 (3335)                     | 131 (3335)                     | 131 (3335)                     |
| <b>B</b>                                                       | Free-Lift (top of forks)                     | in (mm)               |              | 5.7 (145)                      | 5.7 (145)                      | 5.7 (145)                      | 5.7 (145)                      |
| <b>C</b>                                                       | Fork Size (T x W x L)                        | in (mm)               |              | 1.4 x 4 x 42 (35 x 100 x 1070) | 1.4 x 4 x 42 (35 x 100 x 1070) | 1.4 x 4 x 42 (35 x 100 x 1070) | 1.4 x 4 x 42 (35 x 100 x 1070) |
| <b>D</b>                                                       | Fork Spread Max. / Min. (outer edge to edge) | in (mm)               |              | 36 (920) / 8 (200)             | 36 (920) / 8 (200)             | 36 (920) / 8 (200)             | 36 (920) / 8 (200)             |
| <b>E</b>                                                       | Tilt Range (forward / backward)              | deg                   |              | 6 / 11                         | 6 / 11                         | 6 / 11                         | 6 / 11                         |
| <b>F</b>                                                       | Length to Fork Face                          | in (mm)               |              | 89.6 (2275)                    | 89.6 (2275)                    | 90.7 (2305)                    | 90.7 (2305)                    |
| <b>G</b>                                                       | Overall Width                                | in (mm)               |              | 42.1 (1070)                    | 42.1 (1070)                    | 42.1 (1070)                    | 42.1 (1070)                    |
| <b>H</b>                                                       | Mast Lowered Height                          | in (mm)               |              | 84.5 (2145)                    | 84.5 (2145)                    | 84.5 (2145)                    | 84.5 (2145)                    |
| <b>I</b>                                                       | Mast Extended Height (top of load backrest)  | in (mm)               |              | 179.3 (4555)                   | 179.3 (4555)                   | 179.3 (4555)                   | 179.3 (4555)                   |
| <b>J</b>                                                       | Overhead Guard Height                        | in (mm)               |              | 81.9 (2080)                    | 81.9 (2080)                    | 81.9 (2080)                    | 81.9 (2080)                    |
| <b>K</b>                                                       | Turning Radius (inside / outside)            | in (mm)               |              | 1.38 (35) / 76 (1930)          | 1.38 (35) / 76 (1930)          | 1.38 (35) / 78 (1980)          | 78 (1980)                      |
| <b>L</b>                                                       | Load Distance¹                               | in (mm)               |              | 15.9 (405)                     | 15.9 (405)                     | 15.9 (405)                     | 15.9 (405)                     |
| <b>M</b>                                                       | Rear Overhang                                | in (mm)               |              | 15.2 (385)                     | 15.2 (385)                     | 16.3 (415)                     | 16.3 (415)                     |
| <b>N</b>                                                       | Basic Right-Angle Stacking Aisle Width²      | in (mm)               |              | 91.9 (2335)                    | 91.9 (2335)                    | 93.9 (2385)                    | 93.9 (2385)                    |
| PERFORMANCE DATA                                               |                                              |                       |              | 8FGU15                         | 8FDU15                         | 8FGU18                         | 8FDU18                         |
| Speeds                                                         | Maximum Travel (forward / reverse)           | Full Load             | mph (km/h)   | 11.5 (18.5) / 11.5 (18.5)      | 11.8 (19.0) / 11.8 (19.0)      | 11.5 (18.5) / 11.5 (18.5)      | 11.8 (19.0) / 11.8 (19.0)      |
|                                                                |                                              | No Load               | mph (km/h)   | 11.8 (19.0) / 11.8 (19.0)      | 12.1 (19.5) / 12.1 (19.5)      | 11.8 (19.0) / 11.8 (19.0)      | 12.1 (19.5) / 12.1 (19.5)      |
|                                                                | Lifting                                      | Full Load             | fpm (mm/sec) | 131 (665)                      | 128 (650)                      | 131 (665)                      | 128 (650)                      |
|                                                                |                                              | No Load               | fpm (mm/sec) | 134 (680)                      | 133 (675)                      | 134 (680)                      | 133 (675)                      |
|                                                                | Lowering                                     | Full Load             | fpm (mm/sec) | 98 (500)                       | 98 (500)                       | 98 (500)                       | 98 (500)                       |
|                                                                |                                              | No Load               | fpm (mm/sec) | 108 (550)                      | 108 (550)                      | 108 (550)                      | 108 (550)                      |
| Drawbar Pull                                                   | Maximum                                      | Full Load             | lb (kg)      | 4400 (2000)                    | 4040 (1830)                    | 3930 (1780)                    | 3930 (1780)                    |
|                                                                |                                              | No Load               | lb (kg)      | 1550 (700)                     | 1570 (710)                     | 1300 (590)                     | 1300 (590)                     |
| Gradeability                                                   | 1 mph (1.5 km/h)³                            | Full Load             | %            | 45                             | 45                             | 40                             | 40                             |
|                                                                |                                              | Full Load             | %            | 45                             | 45                             | 45                             | 45                             |
|                                                                | Maximum³                                     | No Load               | %            | 22                             | 22                             | 20                             | 10                             |
| TRUCK WEIGHTS                                                  |                                              |                       |              | 8FGU15                         | 8FDU15                         | 8FGU18                         | 8FDU18                         |
| Total Weight                                                   |                                              | lb (kg)               |              | 5500 (2500)                    | 5630 (2570)                    | 5920 (2690)                    | 6060 (2750)                    |
| Weight Distribution                                            | Full Load (front / rear)                     | lb (kg)               |              | 7560 (3560) / 940 (440)        | 7610 (3590) / 1020 (480)       | 8400 (3960) / 1020 (480)       | 8460 (3990) / 1100 (510)       |
|                                                                | No Load (front / rear)                       | lb (kg)               |              | 2500 (1140) / 3000 (1360)      | 2560 (1170) / 3070 (1400)      | 2500 (1140) / 3420 (1550)      | 2560 (1170) / 3500 (1580)      |
| TIRES                                                          |                                              |                       |              | 8FGU15                         | 8FDU15                         | 8FGU18                         | 8FDU18                         |
| Tires                                                          | Number (front / rear)                        |                       |              | 2 / 2                          | 2 / 2                          | 2 / 2                          | 2 / 2                          |
|                                                                | Size                                         | Front                 |              | 6.50-10-10PR (1)               | 6.50-10-10PR (1)               | 6.50-10-10PR (1)               | 6.50-10-10PR (1)               |
|                                                                |                                              | Rear                  |              | 5.00-8-8PR (1)                 | 5.00-8-8PR (1)                 | 5.00-8-8PR (1)                 | 5.00-8-8PR (1)                 |
| Wheelbase                                                      |                                              | in (mm)               |              | 58.5 (1485)                    | 58.5 (1485)                    | 58.5 (1485)                    | 58.5 (1485)                    |
| Tread Width (front / rear)                                     |                                              | in (mm)               |              | 34.8 (885) / 35.2 (895)        | 34.8 (885) / 35.2 (895)        | 34.8 (885) / 35.2 (895)        | 34.8 (885) / 35.2 (895)        |
| Underclearance (full load)                                     | Minimum with Load                            |                       | in (mm)      | 3.9 (100)                      | 3.9 (100)                      | 3.9 (100)                      | 3.9 (100)                      |
|                                                                | Center of Wheelbase                          |                       | in (mm)      | 4.5 (115)                      | 4.5 (115)                      | 4.5 (115)                      | 4.5 (115)                      |
| Brake                                                          | Service (foot) / Parking                     |                       |              | Hydraulic / Mechanical         | Hydraulic / Mechanical         | Hydraulic / Mechanical         | Hydraulic / Mechanical         |
| POWER SYSTEM                                                   |                                              |                       |              | 8FGU15                         | 8FDU15                         | 8FGU18                         | 8FDU18                         |
| Battery (5-hour rating)                                        |                                              | V / Ah                |              | 12 / 48                        | 12 / 52                        | 12 / 48                        | 12 / 52                        |
| Internal Combustion Engine                                     | Make / Model                                 |                       |              | TOYOTA / 4Y - ECS              | TOYOTA / 1ZS                   | TOYOTA / 4Y - ECS              | TOYOTA / 1ZS                   |
|                                                                | Rated Horsepower @ rpm                       | SAE HP                |              | 51 @ 2570 Net                  | 53 @ 2200 Net                  | 51 @ 2570 Net                  | 53 @ 2200 Net                  |
|                                                                |                                              | (kW)                  |              | (38 @ 2570)                    | (40 @ 2200)                    | (38 @ 2570)                    | (40 @ 2200)                    |
|                                                                | Rated Torque @ rpm                           | SAE ft-lb             |              | 118 @ 2100 Net                 | 128 @ 1800 Net                 | 118 @ 2100 Net                 | 128 @ 1800 Net                 |
|                                                                |                                              | (N-m)                 |              | (160 @ 2100)                   | (174 @ 1800)                   | (160 @ 2100)                   | (174 @ 1800)                   |
|                                                                | Number of Cylinders                          |                       |              |                                | 4                              | 3                              | 4                              |
| Piston Displacement                                            |                                              | cu in (cc)            |              | 136 (2237)                     | 110 (1795)                     | 136 (2237)                     | 110 (1795)                     |
| Fuel Tank Capacity                                             |                                              | US gal (liter)        |              | 12 (45)                        | 12 (45)                        | 12 (45)                        | 12 (45)                        |
| Transmission                                                   | Type                                         |                       |              | Powershift                     | Powershift                     | Powershift                     | Powershift                     |
|                                                                | Speeds (forward / reverse)                   |                       |              | 1 / 1                          | 1 / 1                          | 1 / 1                          | 1 / 1                          |
| Auxiliary Hydraulic Function Specifications (for attachments)⁴ | Max. Operating Pressure                      |                       | psi (kg/cm2) | 2275 (160)                     | 2275 (160)                     | 2275 (160)                     | 2275 (160)                     |
|                                                                | Max. Flow Rate                               |                       | gpm          | 17                             | 17                             | 17                             | 17                             |

1 Load distance at centerline of front axle to front face of forks.

2 Basic right-angle stacking aisle width, add load length & clearance.

3 Computed values. Performance of LPG fuel system may be less than that of standard model shown.

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

# MODEL NUMBERS

| GENERAL DATA                                                               |                                                     |                |                         | 8FGU20                         | 8FDU20                         | 8FGU25                         | 8FDU25                         |
|----------------------------------------------------------------------------|-----------------------------------------------------|----------------|-------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| Load Capacity                                                              |                                                     |                | lb (kg)                 | 4000 (1800)                    | 4000 (1800)                    | 5000 (2250)                    | 5000 (2250)                    |
| 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                                                        |                                                     |                |                         | 8FGU20                         | 8FDU20                         | 8FGU25                         | 8FDU25                         |
| <b>A</b>                                                                   | Maximum Fork Height (top of forks)                  |                | in (mm)                 | 131.5 (3340)                   | 131.5 (3340)                   | 131.5 (3340)                   | 131.5 (3340)                   |
| <b>B</b>                                                                   | Free-Lift (top of forks)                            |                | in (mm)                 | 6.1 (155)                      | 6.1 (155)                      | 6.1 (155)                      | 6.1 (155)                      |
| <b>C</b>                                                                   | Fork Size (T x W x L)                               |                | in (mm)                 | 1.6 x 5 x 42 (40 x 125 x 1070) | 1.6 x 5 x 42 (40 x 125 x 1070) | 1.6 x 5 x 42 (40 x 125 x 1070) | 1.6 x 5 x 42 (40 x 125 x 1070) |
| <b>D</b>                                                                   | Fork Spread Max. / Min. (outer edge to edge)        |                | in (mm)                 | 40 (1020) / 10 (250)           | 40 (1020) / 10 (250)           | 40 (1020) / 10 (250)           | 40 (1020) / 10 (250)           |
| <b>E</b>                                                                   | Tilt Range (forward / backward)                     |                | deg                     | 6 / 11                         | 6 / 11                         | 6 / 11                         | 6 / 11                         |
| <b>F</b>                                                                   | Length to Fork Face                                 |                | in (mm)                 | 101.4 (2575)                   | 101.4 (2575)                   | 103.9 (2640)                   | 103.9 (2640)                   |
| <b>G</b>                                                                   | Overall Width                                       |                | in (mm)                 | 45.3 (1150)                    | 45.3 (1150)                    | 45.3 (1150)                    | 45.3 (1150)                    |
| <b>H</b>                                                                   | Mast Lowered Height                                 |                | in (mm)                 | 84.5 (2145)                    | 84.5 (2145)                    | 84.5 (2145)                    | 84.5 (2145)                    |
| <b>I</b>                                                                   | Mast Extended Height (top of load backrest)         |                | in (mm)                 | 179.5 (4560)                   | 179.5 (4560)                   | 179.5 (4560)                   | 179.5 (4560)                   |
| <b>J</b>                                                                   | Overhead Guard Height                               |                | in (mm)                 | 83.1 (2110)                    | 83.1 (2110)                    | 83.1 (2110)                    | 83.1 (2110)                    |
| <b>K</b>                                                                   | Turning Radius (inside / outside)                   |                | in (mm)                 | 5.91 (150) / 84.7 (2150)       | 5.91 (150) / 84.7 (2150)       | 5.91 (150) / 87.5 (2220)       | 5.91 (150) / 87.5 (2220)       |
| <b>L</b>                                                                   | Load Distance <sup>1</sup>                          |                | in (mm)                 | 18.5 (470)                     | 18.5 (470)                     | 18.5 (470)                     | 18.5 (470)                     |
| <b>M</b>                                                                   | Rear Overhang                                       |                | in (mm)                 | 17.9 (455)                     | 17.9 (455)                     | 20.5 (520)                     | 20.5 (520)                     |
| <b>N</b>                                                                   | Basic Right-Angle Stacking Aisle Width <sup>2</sup> |                | in (mm)                 | 103.2 (2620)                   | 103.2 (2620)                   | 105.9 (2690)                   | 105.9 (2690)                   |
| PERFORMANCE DATA                                                           |                                                     |                |                         | 8FGU20                         | 8FDU20                         | 8FGU25                         | 8FDU25                         |
| Speeds                                                                     | Maximum Travel (forward / reverse)                  | Full Load      | mph (km/h)              | 10.9 (17.5) / 10.9 (17.5)      | 10.3 (16.5) / 10.3 (16.5)      | 10.9 (17.5) / 10.9 (17.5)      | 10.3 (16.5) / 10.3 (16.5)      |
|                                                                            |                                                     | No Load        | mph (km/h)              | 11.2 (18.0) / 11.2 (18.0)      | 10.7 (17.0) / 10.7 (17.0)      | 11.2 (18.0) / 11.2 (18.0)      | 10.7 (17.0) / 10.7 (17.0)      |
|                                                                            | Lifting                                             | Full Load      | fpm (mm/sec)            | 118 (600)                      | 121 (615)                      | 118 (600)                      | 121 (615)                      |
|                                                                            |                                                     | No Load        | fpm (mm/sec)            | 126 (640)                      | 129 (655)                      | 126 (640)                      | 129 (655)                      |
|                                                                            | Lowering                                            | Full Load      | fpm (mm/sec)            | 98 (500)                       | 98 (500)                       | 98 (500)                       | 98 (500)                       |
|                                                                            |                                                     | No Load        | fpm (mm/sec)            | 98 (500)                       | 98 (500)                       | 98 (500)                       | 98 (500)                       |
| Drawbar Pull                                                               | Maximum                                             | Full Load      | lb (kg)                 | 4250 (1930)                    | 4475 (2030)                    | 4250 (1930)                    | 4475 (2030)                    |
|                                                                            |                                                     | No Load        | lb (kg)                 | 2020 (920)                     | 2040 (930)                     | 1910 (870)                     | 1930 (880)                     |
| Gradeability                                                               | 1 mph (1.5 km/h) <sup>3</sup>                       | Full Load      | %                       | 37                             | 35                             | 31                             | 30                             |
|                                                                            |                                                     | Full Load      | %                       | 41                             | 42                             | 34                             | 35                             |
|                                                                            | Maximum <sup>3</sup>                                | No Load        | %                       | 23                             | 23                             | 20                             | 20                             |
| TRUCK WEIGHTS                                                              |                                                     |                |                         | 8FGU20                         | 8FDU20                         | 8FGU25                         | 8FDU25                         |
| Total Weight                                                               |                                                     | lb (kg)        |                         | 7080 (3210)                    | 7230 (3290)                    | 7840 (3560)                    | 7990 (3630)                    |
| Weight Distribution                                                        | Full Load (front / rear)                            |                | lb (kg)                 | 9750 (4600) / 1330 (610)       | 9810 (4630) / 1420 (660)       | 11260 (5330) / 1580 (730)      | 11320 (5350) / 1670 (780)      |
|                                                                            | No Load (front / rear)                              |                | lb (kg)                 | 3130 (1420) / 3950 (1790)      | 3180 (1450) / 4050 (1840)      | 2980 (1350) / 4860 (2210)      | 3040 (1380) / 4950 (2250)      |
| TIRES                                                                      |                                                     |                |                         | 8FGU20                         | 8FDU20                         | 8FGU25                         | 8FDU25                         |
| Tires                                                                      | Number (front / rear)                               |                |                         | 2 / 2                          | 2 / 2                          | 2 / 2                          | 2 / 2                          |
|                                                                            | Size                                                | Front          |                         | 7.00-12-12PR (1)               | 7.00-12-12PR (1)               | 7.00-12-12PR (1)               | 7.00-12-12PR (1)               |
|                                                                            |                                                     | Rear           |                         | 6.00-9-10PR (1)                | 6.00-9-10PR (1)                | 6.00-9-10PR (1)                | 6.00-9-10PR (1)                |
| Wheelbase                                                                  |                                                     |                | in (mm)                 | 65 (1650)                      | 65 (1650)                      | 65 (1650)                      | 65 (1650)                      |
| Tread Width (front / rear)                                                 |                                                     | in (mm)        | 37.8 (960) / 38.0 (965) | 37.8 (960) / 38.0 (965)        | 37.8 (960) / 38.0 (965)        | 37.8 (960) / 38.0 (965)        |                                |
| Underclearance (full load)                                                 | Minimum with Load                                   |                | in (mm)                 | 3.7 (95)                       | 3.7 (95)                       | 3.7 (95)                       | 3.7 (95)                       |
|                                                                            | Center of Wheelbase                                 |                | in (mm)                 | 5.5 (140)                      | 5.5 (140)                      | 5.5 (140)                      | 5.5 (140)                      |
| Brake                                                                      | Service (foot) / Parking                            |                |                         | Hydraulic / Mechanical         | Hydraulic / Mechanical         | Hydraulic / Mechanical         | Hydraulic / Mechanical         |
| POWER SYSTEM                                                               |                                                     |                |                         | 8FGU20                         | 8FDU20                         | 8FGU25                         | 8FDU25                         |
| Battery (5-hour rating)                                                    |                                                     | V / Ah         |                         | 12 / 48                        | 12 / 52                        | 12 / 48                        | 12 / 52                        |
| Internal Combustion Engine                                                 | Make / Model                                        |                |                         | TOYOTA / 4Y - ECS              | TOYOTA / 1ZS                   | TOYOTA / 4Y - ECS              | TOYOTA / 1ZS                   |
|                                                                            | Rated Horsepower @ rpm                              | SAE HP         |                         | 51 @ 2570 Net                  | 55 @ 2200 Net                  | 51 @ 2570 Net                  | 55 @ 2200 Net                  |
|                                                                            |                                                     | (kW)           |                         | (38 @ 2570)                    | (41 @ 2200)                    | (38 @ 2570)                    | (41 @ 2200)                    |
|                                                                            | Rated Torque @ rpm                                  | SAE ft-lb      |                         | 118 @ 2100 Net                 | 148 @ 1600 Net                 | 118 @ 2100 Net                 | 148 @ 1600 Net                 |
|                                                                            |                                                     | (N-m)          |                         | (160 @ 2100)                   | (200 @ 1600)                   | (160 @ 2100)                   | (200 @ 1600)                   |
|                                                                            | Number of Cylinders                                 |                |                         | 4                              | 3                              | 4                              | 3                              |
|                                                                            | Piston Displacement                                 |                | cu in (cc)              | 136 (2237)                     | 110 (1795)                     | 136 (2237)                     | 110 (1795)                     |
| Fuel Tank Capacity                                                         |                                                     | US gal (liter) | 15.9                    | 15.9                           | 15.9                           | 15.9                           |                                |
| Transmission                                                               | Type                                                |                |                         | Powershift                     | Powershift                     | Powershift                     | Powershift                     |
|                                                                            | Speeds (forward / reverse)                          |                |                         | 1 / 1                          | 1 / 1                          | 1 / 1                          | 1 / 1                          |
| Auxiliary Hydraulic Function Specifications (for attachments) <sup>4</sup> | Max. Operating Pressure                             |                | psi (kg/cm2)            | 2275 (160)                     | 2275 (160)                     | 2275 (160)                     | 2275 (160)                     |
|                                                                            | Max. Flow Rate                                      |                | gpm                     | 20                             | 19                             | 20                             | 19                             |

1 Load distance at centerline of front axle to front face of forks.

2 Basic right-angle stacking aisle width, add load length & clearance.

3 Computed values. Performance of LPG fuel system may be less than that of standard model shown.

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

TRUCK SPECIFICATIONS

| GENERAL DATA                                                   |                                              |                       |              | MODEL NUMBERS                  |                                |                                |                                |
|----------------------------------------------------------------|----------------------------------------------|-----------------------|--------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
|                                                                |                                              |                       |              | 8FGU30                         | 8FDU30                         | 8FGU32                         | 8FDU32                         |
| Load Capacity                                                  |                                              | lb (kg)               |              | 6000 (2700)                    | 6000 (2700)                    | 6500 (3000)                    | 6500 (3000)                    |
| 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          | Pneumatic / Pneumatic          |
| Wheels (x = driven)                                            | Front / Rear                                 | 2x / 2                |              | 2x / 2                         | 2x / 2                         | 2x / 2                         | 2x / 2                         |
| EXTERIOR DIMENSIONS                                            |                                              |                       |              | 8FGU30                         | 8FDU30                         | 8FGU32                         | 8FDU32                         |
| <b>A</b>                                                       | Maximum Fork Height (top of forks)           | in (mm)               |              | 131.5 (3345)                   | 131.5 (3345)                   | 131.5 (3345)                   | 131.5 (3345)                   |
| <b>B</b>                                                       | Free-Lift (top of forks)                     | in (mm)               |              | 5.3 (135)                      | 5.3 (135)                      | 5.3 (135)                      | 5.3 (135)                      |
| <b>C</b>                                                       | Fork Size (T x W x L)                        | in (mm)               |              | 1.8 x 5 x 42 (45 x 125 x 1070) | 1.8 x 5 x 42 (45 x 125 x 1070) | 1.8 x 5 x 42 (45 x 125 x 1070) | 1.8 x 5 x 42 (45 x 125 x 1070) |
| <b>D</b>                                                       | Fork Spread Max. / Min. (outer edge to edge) | in (mm)               |              | 42 (1070) / 10 (250)           | 42 (1070) / 10 (250)           | 42 (1070) / 10 (250)           | 42 (1070) / 10 (250)           |
| <b>E</b>                                                       | Tilt Range (forward / backward)              | deg                   |              | 6 / 11                         | 6 / 11                         | 6 / 11                         | 6 / 11                         |
| <b>F</b>                                                       | Length to Fork Face                          | in (mm)               |              | 109.4 (2780)                   | 109.4 (2780)                   | 110.2 (2800)                   | 110.2 (2800)                   |
| <b>G</b>                                                       | Overall Width                                | in (mm)               |              | 48.8 (1240)                    | 48.8 (1240)                    | 48.8 (1240)                    | 48.8 (1240)                    |
| <b>H</b>                                                       | Mast Lowered Height                          | in (mm)               |              | 85.3 (2165)                    | 85.3 (2165)                    | 85.3 (2165)                    | 85.3 (2165)                    |
| <b>I</b>                                                       | Mast Extended Height (top of load backrest)  | in (mm)               |              | 179.7 (4565)                   | 179.7 (4565)                   | 179.7 (4565)                   | 179.7 (4565)                   |
| <b>J</b>                                                       | Overhead Guard Height                        | in (mm)               |              | 85.5 (2170)                    | 85.5 (2170)                    | 85.5 (2170)                    | 85.5 (2170)                    |
| <b>K</b>                                                       | Turning Radius (inside / outside)            | in (mm)               |              | 7.48 (190) / 92.5 (2350)       | 7.48 (190) / 92.5 (2350)       | 93.3 (2370)                    | 93.3 (2370)                    |
| <b>L</b>                                                       | Load Distance¹                               | in (mm)               |              | 19.1 (485)                     | 19.1 (485)                     | 19.1 (485)                     | 19.1 (485)                     |
| <b>M</b>                                                       | Rear Overhang                                | in (mm)               |              | 23 (595)                       | 23 (595)                       | 24 (615)                       | 24 (615)                       |
| <b>N</b>                                                       | Basic Right-Angle Stacking Aisle Width²      | in (mm)               |              | 111.6 (2835)                   | 111.6 (2835)                   | 112.4 (2855)                   | 112.4 (2855)                   |
| PERFORMANCE DATA                                               |                                              |                       |              | 8FGU30                         | 8FDU30                         | 8FGU32                         | 8FDU32                         |
| Speeds                                                         | Maximum Travel (forward / reverse)           | Full Load             | mph (km/h)   | 11.2 (18.0) / 11.2 (18.0)      | 10.3 (16.5) / 10.3 (16.5)      | 11.2 (18.0) / 11.2 (18.0)      | 10.3 (16.5) / 10.3 (16.5)      |
|                                                                |                                              | No Load               | mph (km/h)   | 11.5 (18.5) / 11.5 (18.5)      | 10.7 (17.0) / 10.7 (17.0)      | 11.5 (18.5) / 11.5 (18.5)      | 10.7 (17.0) / 10.7 (17.0)      |
|                                                                | Lifting                                      | Full Load             | fpm (mm/sec) | 100 (510)                      | 98 (500)                       | 100 (510)                      | 98 (500)                       |
|                                                                |                                              | No Load               | fpm (mm/sec) | 108 (550)                      | 104 (530)                      | 108 (550)                      | 104 (530)                      |
|                                                                | Lowering                                     | Full Load             | fpm (mm/sec) | 98 (500)                       | 98 (500)                       | 98 (500)                       | 98 (500)                       |
|                                                                |                                              | No Load               | fpm (mm/sec) | 98 (500)                       | 98 (500)                       | 98 (500)                       | 98 (500)                       |
| Drawbar Pull                                                   | Maximum                                      | Full Load             | lb (kg)      | 4400 (2000)                    | 4475 (2030)                    | 4400 (2000)                    | 4475 (2030)                    |
|                                                                |                                              | No Load               | lb (kg)      | 2310 (1050)                    | 2340 (1060)                    | 2310 (1050)                    | 2340 (1060)                    |
| Gradeability                                                   | 1 mph (1.5 km/h)³                            | Full Load             | %            | 24                             | 26                             | 24                             | 25                             |
|                                                                |                                              | Full Load             | %            | 26                             | 30                             | 26                             | 29                             |
|                                                                | Maximum³                                     | No Load               | %            | 21                             | 20                             | 21                             | 20                             |
| TRUCK WEIGHTS                                                  |                                              |                       |              | 8FGU30                         | 8FDU30                         | 8FGU32                         | 8FDU32                         |
| Total Weight                                                   |                                              | lb (kg)               |              | 9270 (4210)                    | 9270 (4210)                    | 9500 (4320)                    | 9650 (4390)                    |
| Weight Distribution                                            | Full Load (front / rear)                     | lb (kg)               |              | 13290 (6300) / 1980 (910)      | 13290 (6300) / 1980 (910)      | 14050 (6670) / 1950 (900)      | 14110 (6700) / 2040 (940)      |
|                                                                | No Load (front / rear)                       | lb (kg)               |              | 3430 (1560) / 5840 (2650)      | 3430 (1560) / 5840 (2650)      | 3360 (1530) / 6140 (2790)      | 3420 (1560) / 6230 (2830)      |
| TIRES                                                          |                                              |                       |              | 8FGU30                         | 8FDU30                         | 8FGU32                         | 8FDU32                         |
| Tires                                                          | Number (front / rear)                        |                       |              | 2 / 2                          | 2 / 2                          | 2 / 2                          | 2 / 2                          |
|                                                                | Size                                         | Front                 |              | 28 x 9-15-12PR (1)             | 28 x 9-15-12PR (1)             | 28 x 9-15-14PR (1)             | 28 x 9-15-14 PR (1)            |
|                                                                |                                              | Rear                  |              | 6.50-10-10PR (1)               | 6.50-10-10PR (1)               | 6.50-10-10PR (1)               | 6.50-10-10PR (1)               |
| Wheelbase                                                      |                                              | in (mm)               |              | 66.9 (1700)                    | 66.9 (1700)                    | 66.9 (1700)                    | 66.9 (1700)                    |
| Tread Width (front / rear)                                     |                                              | in (mm)               |              | 39.8 (1010) / 38 (965)         | 39.8 (1010) / 38 (965)         | 39.8 (1010) / 38 (965)         | 39.8 (1010) / 38 (965)         |
| Underclearance (full load)                                     | Minimum with Load                            |                       | in (mm)      | 4.5 (115)                      | 4.5 (115)                      | 4.5 (115)                      | 4.5 (115)                      |
|                                                                | Center of Wheelbase                          |                       | in (mm)      | 7.3 (185)                      | 7.3 (185)                      | 7.3 (185)                      | 7.3 (185)                      |
| Brake                                                          | Service (foot) / Parking                     |                       |              | Hydraulic / Mechanical         | Hydraulic / Mechanical         | Hydraulic / Mechanical         | Hydraulic / Mechanical         |
| POWER SYSTEM                                                   |                                              |                       |              | 8FGU30                         | 8FDU30                         | 8FGU32                         | 8FDU32                         |
| Battery (5-hour rating)                                        |                                              | V / Ah                |              | 12 / 48                        | 12 / 52                        | 12 / 48                        | 12 / 52                        |
| Internal Combustion Engine                                     | Make / Model                                 |                       |              | TOYOTA / 4Y - ECS - HP⁵        | TOYOTA / 1ZS                   | TOYOTA / 4Y - ECS - HP⁵        | TOYOTA / 1ZS                   |
|                                                                | Rated Horsepower @ rpm                       | SAE HP                |              | 57 @ 2570 Net                  | 55 @ 2200 Net                  | 57 @ 2570 Net                  | 55 @ 2200 Net                  |
|                                                                |                                              | (kW)                  |              | (42 @ 2570)                    | (41 @ 2200)                    | (42 @ 2570)                    | (41 @ 2200)                    |
|                                                                | Rated Torque @ rpm                           | SAE ft-lb             |              | 118 @ 2200 Net                 | 148 @ 1600 Net                 | 118 @ 2200 Net                 | 148 @ 1600 Net                 |
|                                                                |                                              | (N-m)                 |              | (160 @ 2200)                   | (200 @ 1600)                   | (160 @ 2200)                   | (200 @ 1600)                   |
|                                                                | Number of Cylinders                          |                       |              | 4                              | 3                              | 4                              | 3                              |
| Piston Displacement                                            |                                              | cu in (cc)            |              | 136 (2237)                     | 110 (1795)                     | 136 (2237)                     | 110 (1795)                     |
| Fuel Tank Capacity                                             |                                              | US gal (liter)        |              | 15.9 (60)                      | 15.9 (60)                      | 15.9 (60)                      | 15.9 (60)                      |
| Transmission                                                   | Type                                         |                       |              | Powershift                     | Powershift                     | Powershift                     | Powershift                     |
|                                                                | Speeds (forward / reverse)                   |                       |              | 1 / 1                          | 1 / 1                          | 1 / 1                          | 1 / 1                          |
| Auxiliary Hydraulic Function Specifications (for attachments)⁴ | Max. Operating Pressure                      |                       | psi (kg/cm2) | 2275 (160)                     | 2275 (160)                     | 2275 (160)                     | 2275 (160)                     |
|                                                                | Max. Flow Rate                               |                       | gpm          | 21                             | 20                             | 21                             | 20                             |

1 Load distance at centerline of front axle to front face of forks.

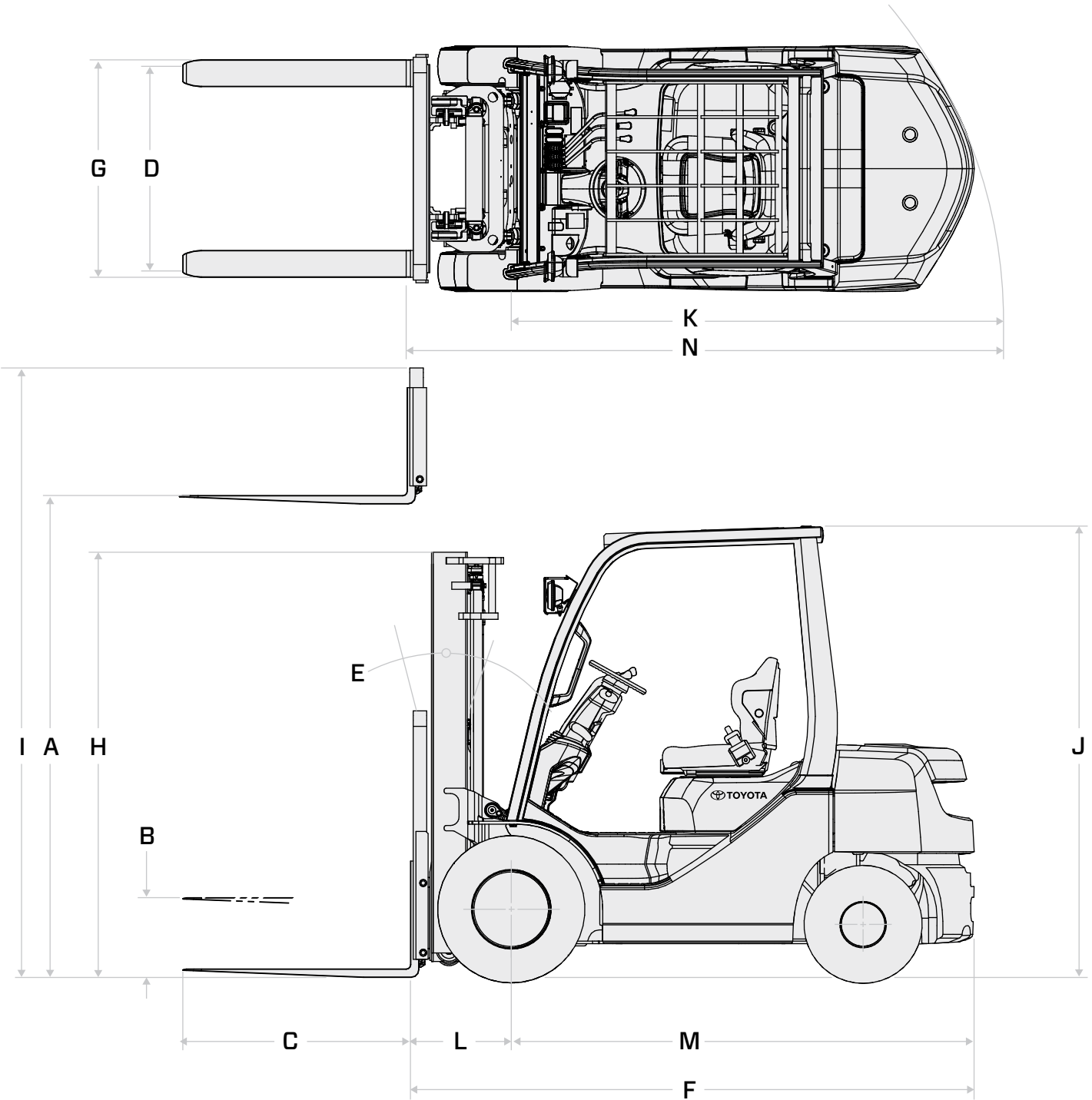
2 Basic right-angle stacking aisle width, add load length & clearance.

3 Computed values. Performance of LPG fuel system may be less than that of standard model shown.

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

5 LPG-only units.

EXTERIOR DIMENSIONS



MAST SPECIFICATIONS

| MAST TYPE                          | MAXIMUM<br>FORK HEIGHT<br>(TOP OF FORKS) | OVERALL HEIGHT |                          |                                             | FREE-LIFT                   |                                                | SINGLE TIRE |     |                                                 |             |
|------------------------------------|------------------------------------------|----------------|--------------------------|---------------------------------------------|-----------------------------|------------------------------------------------|-------------|-----|-------------------------------------------------|-------------|
|                                    |                                          | LOWERED        | EXTENDED                 |                                             | WITHOUT<br>LOAD<br>BACKREST | WITH<br>STANDARD LOAD<br>BACKREST <sup>1</sup> | TILT RANGE  |     | LOAD CAPACITY AT<br>24 IN. (610 MM) LOAD CENTER |             |
|                                    |                                          |                | WITHOUT<br>LOAD BACKREST | WITH STANDARD<br>LOAD BACKREST <sup>1</sup> |                             |                                                | FWD         | BWD | NARROW TREAD                                    | WIDE TREAD  |
|                                    |                                          |                |                          |                                             |                             |                                                |             |     |                                                 |             |
|                                    | in (mm)                                  | in (mm)        | in (mm)                  | in (mm)                                     | in (mm)                     | in (mm)                                        | deg         | deg | lb (kg)                                         | lb (kg)     |
| 8FGU15 / 8FDU15                    |                                          |                |                          |                                             |                             |                                                |             |     |                                                 |             |
| Wide Visible<br>(V)                | 80 (2035)                                | 58.9 (1495)    | 104.1 (2645)             | 128.1 (3255)                                | 5.7 (145)                   | 5.7 (145)                                      | 6           | 11  | 3000 (1350)                                     | 3000 (1350) |
|                                    | 119 (3035)                               | 78.5 (1995)    | 143.5 (3645)             | 167.5 (4255)                                | 5.7 (145)                   | 5.7 (145)                                      | 6           | 11  | 3000 (1350)                                     | 3000 (1350) |
|                                    | 131 (3335)                               | 84.5 (2145)    | 155.3 (3945)             | 179.3 (4555)                                | 5.7 (145)                   | 5.7 (145)                                      | 6           | 11  | 3000 (1350)                                     | 3000 (1350) |
|                                    | 139 (3535)                               | 88.4 (2245)    | 163.2 (4145)             | 187.2 (4755)                                | 5.7 (145)                   | 5.7 (145)                                      | 6           | 11  | 3000 (1350)                                     | 3000 (1350) |
|                                    | 147 (3735)                               | 94.7 (2405)    | 171.1 (4345)             | 195.1 (4955)                                | 5.7 (145)                   | 5.7 (145)                                      | 6           | 11  | 3000 (1350)                                     | 3000 (1350) |
|                                    | 158.5 (4035)                             | 102.2 (2595)   | 182.9 (4645)             | 206.9 (5255)                                | 5.7 (145)                   | 5.7 (145)                                      | 6           | 11  | 3000 (1350)                                     | 3000 (1350) |
| Full Free-Lift<br>2-Stage<br>(FV)  | 119 (3035)                               | 78.5 (1995)    | 141.9 (3605)             | 167.5 (4255)                                | 56.1 (1430)                 | 30.5 (775)                                     | 6           | 11  | 3000 (1350)                                     | 3000 (1350) |
|                                    | 131 (3335)                               | 84.5 (2145)    | 153.7 (3905)             | 179.3 (4555)                                | 62 (1580)                   | 36.4 (925)                                     | 6           | 11  | 3000 (1350)                                     | 3000 (1350) |
|                                    | 139 (3535)                               | 88.4 (2245)    | 161.6 (4105)             | 187.2 (4755)                                | 65.9 (1680)                 | 40.4 (1025)                                    | 6           | 11  | 3000 (1350)                                     | 3000 (1350) |
| Full Free-Lift<br>3-Stage<br>(FSV) | 158.5 (4035)                             | 74.6 (1895)    | 180.1 (4575)             | 206.9 (5255)                                | 53.3 (1360)                 | 25.0 (635)                                     | 6           | 6   | 2850 (1300)                                     | 2850 (1300) |
|                                    | 170.5 (4335)                             | 78.5 (1995)    | 191.9 (4875)             | 218.7 (5555)                                | 57.3 (1460)                 | 28.9 (735)                                     | 6           | 6   | 2800 (1250)                                     | 2850 (1300) |
|                                    | 189 (4800)                               | 84.4 (2145)    | 209.6 (5325)             | 236.6 (6010)                                | 63.2 (1610)                 | 34.8 (885)                                     | 6           | 6   | 2750 (1250)                                     | 2800 (1250) |
|                                    | 198 (5035)                               | 88.4 (2245)    | 219.5 (5575)             | 246.3 (6255)                                | 67.1 (1710)                 | 38.8 (985)                                     | 6           | 6   | 2650 (1200)                                     | 2750 (1250) |
|                                    | 217.5 (5535)                             | 94.7 (2405)    | 239.2 (6075)             | 265.9 (6755)                                | 73.4 (1870)                 | 45.1 (1145)                                    | 6           | 6   | 2050 (950)                                      | 2200 (1000) |
|                                    | 237.5 (6035)                             | 102.2 (2595)   | 258.9 (6575)             | 285.6 (7255)                                | 80.9 (2060)                 | 52.6 (1335)                                    | 6           | 6   | 1500 (700)                                      | 1650 (750)  |

| MAST TYPE                          | MAXIMUM<br>FORK HEIGHT<br>(TOP OF FORKS) | OVERALL HEIGHT |                          |                                 | FREE-LIFT                   |                                    | SINGLE TIRE |     |                                                 |             |
|------------------------------------|------------------------------------------|----------------|--------------------------|---------------------------------|-----------------------------|------------------------------------|-------------|-----|-------------------------------------------------|-------------|
|                                    |                                          | LOWERED        | EXTENDED                 |                                 | WITHOUT<br>LOAD<br>BACKREST | WITH<br>STANDARD LOAD<br>BACKREST¹ | TILT RANGE  |     | LOAD CAPACITY AT<br>24 IN. (610 MM) LOAD CENTER |             |
|                                    |                                          |                | WITHOUT<br>LOAD BACKREST | WITH STANDARD<br>LOAD BACKREST¹ |                             |                                    | FWD         | BWD | NARROW TREAD                                    | WIDE TREAD  |
|                                    |                                          |                |                          |                                 |                             |                                    |             |     |                                                 |             |
|                                    | in (mm)                                  | in (mm)        | in (mm)                  | in (mm)                         | in (mm)                     | in (mm)                            | deg         | deg | lb (kg)                                         | lb (kg)     |
| 8FGU18 / 8FDU18                    |                                          |                |                          |                                 |                             |                                    |             |     |                                                 |             |
| Wide Visible<br>(V)                | 80 (2035)                                | 58.9 (1495)    | 104.1 (2645)             | 128.1 (3255)                    | 5.7 (145)                   | 5.7 (145)                          | 6           | 11  | 3500 (1600)                                     | 3500 (1600) |
|                                    | 119 (3035)                               | 78.5 (1995)    | 143.5 (3645)             | 167.5 (4255)                    | 5.7 (145)                   | 5.7 (145)                          | 6           | 11  | 3500 (1600)                                     | 3500 (1600) |
|                                    | 131 (3335)                               | 84.5 (2145)    | 155.3 (3945)             | 179.3 (4555)                    | 5.7 (145)                   | 5.7 (145)                          | 6           | 11  | 3500 (1600)                                     | 3500 (1600) |
|                                    | 139 (3535)                               | 88.4 (2245)    | 163.2 (4145)             | 187.2 (4755)                    | 5.7 (145)                   | 5.7 (145)                          | 6           | 11  | 3500 (1600)                                     | 3500 (1600) |
|                                    | 147 (3735)                               | 94.7 (2405)    | 171.1 (4345)             | 195.1 (4955)                    | 5.7 (145)                   | 5.7 (145)                          | 6           | 11  | 3500 (1600)                                     | 3500 (1600) |
|                                    | 158.5 (4035)                             | 102.2 (2595)   | 182.9 (4645)             | 206.9 (5255)                    | 5.7 (145)                   | 5.7 (145)                          | 6           | 11  | 3400 (1550)                                     | 3500 (1600) |
| Full Free-Lift<br>2-Stage<br>(FV)  | 119 (3035)                               | 78.5 (1995)    | 141.9 (3605)             | 167.5 (4255)                    | 56.1 (1430)                 | 30.5 (775)                         | 6           | 11  | 3500 (1600)                                     | 3500 (1600) |
|                                    | 131 (3335)                               | 84.5 (2145)    | 153.7 (3905)             | 179.3 (4555)                    | 62 (1580)                   | 36.4 (925)                         | 6           | 11  | 3500 (1600)                                     | 3500 (1600) |
|                                    | 139 (3535)                               | 88.4 (2245)    | 161.6 (4105)             | 187.2 (4755)                    | 65.9 (1680)                 | 40.4 (1025)                        | 6           | 11  | 3500 (1600)                                     | 3500 (1600) |
| Full Free-Lift<br>3-Stage<br>(FSV) | 158.5 (4035)                             | 74.6 (1895)    | 180.1 (4575)             | 206.9 (5255)                    | 53.3 (1360)                 | 25.0 (635)                         | 6           | 6   | 3200 (1450)                                     | 3200 (1450) |
|                                    | 170.5 (4335)                             | 78.5 (1995)    | 191.9 (4875)             | 218.7 (5555)                    | 57.3 (1460)                 | 28.9 (735)                         | 6           | 6   | 3150 (1400)                                     | 3200 (1450) |
|                                    | 189 (4800)                               | 84.4 (2145)    | 209.6 (5325)             | 236.6 (6010)                    | 63.2 (1610)                 | 34.8 (885)                         | 6           | 6   | 2900 (1300)                                     | 3050 (1400) |
|                                    | 198 (5035)                               | 88.4 (2245)    | 219.5 (5575)             | 246.3 (6255)                    | 67.1 (1710)                 | 38.8 (985)                         | 6           | 6   | 2550 (1150)                                     | 3000 (1350) |
|                                    | 217.5 (5535)                             | 94.7 (2405)    | 239.2 (6075)             | 265.9 (6755)                    | 73.4 (1870)                 | 45.1 (1145)                        | 6           | 6   | 1850 (850)                                      | 2400 (1100) |
|                                    | 237.5 (6035)                             | 102.2 (2595)   | 258.9 (6575)             | 285.6 (7255)                    | 80.9 (2060)                 | 52.6 (1335)                        | 6           | 6   | 1300 (600)                                      | 1750 (800)  |

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



| MAST<br>TYPE                          | MAXIMUM<br>FORK HEIGHT<br>(TOP OF<br>FORKS) | OVERALL HEIGHT |                          |                                 | FREE-LIFT                   |                                       | SINGLE TIRE   |                                                 |                 | DUAL TIRE     |                                                       |
|---------------------------------------|---------------------------------------------|----------------|--------------------------|---------------------------------|-----------------------------|---------------------------------------|---------------|-------------------------------------------------|-----------------|---------------|-------------------------------------------------------|
|                                       |                                             | LOWERED        | EXTENDED                 |                                 | WITHOUT<br>LOAD<br>BACKREST | WITH<br>STANDARD<br>LOAD<br>BACKREST¹ | TILT<br>RANGE | LOAD CAPACITY AT<br>24 IN. (610 MM) LOAD CENTER |                 | TILT<br>RANGE | LOAD CAPACITY<br>AT 24 IN.<br>(610 MM)<br>LOAD CENTER |
|                                       |                                             |                | WITHOUT<br>LOAD BACKREST | WITH STANDARD<br>LOAD BACKREST¹ |                             |                                       |               | FWD /<br>BWD                                    | NARROW<br>TREAD |               |                                                       |
|                                       | in (mm)                                     | in (mm)        | in (mm)                  | in (mm)                         | in (mm)                     | in (mm)                               | deg           | lb (kg)                                         | lb (kg)         | deg           | lb (kg)                                               |
| 8FGU20 / 8FDU20                       |                                             |                |                          |                                 |                             |                                       |               |                                                 |                 |               |                                                       |
| Wide<br>Visible<br>(V)                | 80 (2040)                                   | 58.9 (1495)    | 104.7 (2660)             | 128.3 (3260)                    | 6.1 (155)                   | 6.1 (155)                             | 6 / 11        | 4000 (1800)                                     | 4000 (1800)     | 6 / 11        | 4000 (1800)                                           |
|                                       | 119.5 (3040)                                | 78.5 (1995)    | 144.1 (3660)             | 167.7 (4260)                    | 6.1 (155)                   | 6.1 (155)                             | 6 / 11        | 4000 (1800)                                     | 4000 (1800)     | 6 / 11        | 4000 (1800)                                           |
|                                       | 131.5 (3340)                                | 84.5 (2145)    | 155.9 (3960)             | 179.5 (4560)                    | 6.1 (155)                   | 6.1 (155)                             | 6 / 11        | 4000 (1800)                                     | 4000 (1800)     | 6 / 11        | 4000 (1800)                                           |
|                                       | 139 (3540)                                  | 88.4 (2245)    | 163.8 (4160)             | 187.4 (4760)                    | 6.1 (155)                   | 6.1 (155)                             | 6 / 11        | 4000 (1800)                                     | 4000 (1800)     | 6 / 11        | 4000 (1800)                                           |
|                                       | 147 (3740)                                  | 94.7 (2405)    | 171.7 (4360)             | 195.3 (4960)                    | 6.1 (155)                   | 6.1 (155)                             | 6 / 11        | 4000 (1800)                                     | 4000 (1800)     | 6 / 11        | 4000 (1800)                                           |
|                                       | 159 (4040)                                  | 102.2 (2595)   | 183.5 (4660)             | 207.1 (5260)                    | 6.1 (155)                   | 6.1 (155)                             | 6 / 11        | 4000 (1800)                                     | 4000 (1800)     | 6 / 11        | 4000 (1800)                                           |
| Full<br>Free-Lift<br>2-Stage<br>(FV)  | 119.5 (3040)                                | 78.5 (1995)    | 143.5 (3645)             | 167.7 (4260)                    | 55.1 (1400)                 | 30.5 (775)                            | 6 / 11        | 4000 (1800)                                     | 4000 (1800)     | 6 / 11        | 4000 (1800)                                           |
|                                       | 131.5 (3340)                                | 84.5 (2145)    | 151.4 (3845)             | 179.5 (4560)                    | 61 (1550)                   | 36.4 (925)                            | 6 / 11        | 4000 (1800)                                     | 4000 (1800)     | 6 / 11        | 4000 (1800)                                           |
|                                       | 139 (3540)                                  | 88.4 (2245)    | 163.2 (4145)             | 187.4 (4760)                    | 65 (1650)                   | 40.4 (1025)                           | 6 / 11        | 4000 (1800)                                     | 4000 (1800)     | 6 / 11        | 4000 (1800)                                           |
| Full<br>Free-Lift<br>3-Stage<br>(FSV) | 159 (4040)                                  | 74.6 (1895)    | 181.5 (4610)             | 206.7 (5250)                    | 52.4 (1330)                 | 26.6 (675)                            | 6 / 6         | 4000 (1800)                                     | 4000 (1800)     | 6 / 6         | 4000 (1800)                                           |
|                                       | 170.5 (4340)                                | 78.5 (1995)    | 193.3 (4910)             | 218.5 (5550)                    | 56.3 (1430)                 | 30.5 (775)                            | 6 / 6         | 4000 (1800)                                     | 4000 (1800)     | 6 / 6         | 4000 (1800)                                           |
|                                       | 189 (4800)                                  | 84.5 (2145)    | 211.4 (5370)             | 236.6 (6010)                    | 62.2 (1580)                 | 36.4 (915)                            | 6 / 6         | 3900 (1750)                                     | 4000 (1800)     | 6 / 6         | 4000 (1800)                                           |
|                                       | 198 (5040)                                  | 88.4 (2245)    | 220.9 (5610)             | 246.1 (6250)                    | 66.1 (1680)                 | 40.4 (1015)                           | 6 / 6         | 3550 (1600)                                     | 4000 (1800)     | 6 / 6         | 4000 (1800)                                           |
|                                       | 218 (5540)                                  | 94.7 (2405)    | 240.6 (6110)             | 265.7 (6750)                    | 72.4 (1840)                 | 46.7 (1185)                           | 6 / 6         | 2800 (1250)                                     | 3500 (1600)     | 6 / 6         | 3750 (1700)                                           |
|                                       | 237.5 (6040)                                | 102.2 (2595)   | 260.2 (6610)             | 285.4 (7250)                    | 79.9 (2030)                 | 54.2 (1375)                           | 6 / 6         | 2000 (900)                                      | 2550 (1150)     | 6 / 6         | 3300 (1500)                                           |
|                                       | 257.5 (6540)                                | 112 (2845)     | 279.9 (7110)             | 305.1 (7750)                    | 89.8 (2280)                 | 64 (1625)                             | —             | —                                               | —               | 6 / 6         | 3200 (1450)                                           |
|                                       | 277 (7040)                                  | 121.9 (3095)   | 299.6 (7610)             | 324.8 (8250)                    | 99.6 (2530)                 | 73.9 (1875)                           | —             | —                                               | —               | 6 / 6         | 2600 (1200)                                           |
| Full<br>Free-Lift<br>4-Stage (QFV)    | 240 (6100)                                  | 84.8 (2155)    | 263.4 (6690)             | 289.4 (7350)                    | 61 (1550)                   | 35 (895)                              | 6 / 3         | —                                               | —               | 6 / 3         | —                                                     |
|                                       | 258 (6600)                                  | 90.7 (2305)    | 281.5 (7150)             | 307.5 (7810)                    | 67 (1700)                   | 41 (1045)                             | 6 / 3         | —                                               | 2600 (1170)     | 6 / 3         | —                                                     |

| MAST<br>TYPE                          | MAXIMUM<br>FORK HEIGHT<br>(TOP OF<br>FORKS) | OVERALL HEIGHT |                          |                                             | FREE-LIFT                   |                                                   | SINGLE TIRE   |                                                 |                 | DUAL TIRE     |                                                       |
|---------------------------------------|---------------------------------------------|----------------|--------------------------|---------------------------------------------|-----------------------------|---------------------------------------------------|---------------|-------------------------------------------------|-----------------|---------------|-------------------------------------------------------|
|                                       |                                             | LOWERED        | EXTENDED                 |                                             | WITHOUT<br>LOAD<br>BACKREST | WITH<br>STANDARD<br>LOAD<br>BACKREST <sup>1</sup> | TILT<br>RANGE | LOAD CAPACITY AT<br>24 IN. (610 MM) LOAD CENTER |                 | TILT<br>RANGE | LOAD CAPACITY<br>AT 24 IN.<br>(610 MM)<br>LOAD CENTER |
|                                       |                                             |                | WITHOUT<br>LOAD BACKREST | WITH STANDARD<br>LOAD BACKREST <sup>1</sup> |                             |                                                   |               | FWD /<br>BWD                                    | NARROW<br>TREAD |               |                                                       |
|                                       | in (mm)                                     | in (mm)        | in (mm)                  | in (mm)                                     | in (mm)                     | in (mm)                                           | deg           | lb (kg)                                         | lb (kg)         | deg           | lb (kg)                                               |
| 8FGU25 / 8FDU25                       |                                             |                |                          |                                             |                             |                                                   |               |                                                 |                 |               |                                                       |
| Wide Visible<br>(V)                   | 80 (2040)                                   | 58.9 (1495)    | 104.7 (2660)             | 128.3 (3260)                                | 6.1 (155)                   | 6.1 (155)                                         | 6 / 11        | 5000 (2250)                                     | 5000 (2250)     | 6 / 11        | 5000 (2250)                                           |
|                                       | 119.5 (3040)                                | 78.5 (1995)    | 144.1 (3660)             | 167.7 (4260)                                | 6.1 (155)                   | 6.1 (155)                                         | 6 / 11        | 5000 (2250)                                     | 5000 (2250)     | 6 / 11        | 5000 (2250)                                           |
|                                       | 131.5 (3340)                                | 84.5 (2145)    | 155.9 (3960)             | 179.5 (4560)                                | 6.1 (155)                   | 6.1 (155)                                         | 6 / 11        | 5000 (2250)                                     | 5000 (2250)     | 6 / 11        | 5000 (2250)                                           |
|                                       | 139 (3540)                                  | 88.4 (2245)    | 163.8 (4160)             | 187.4 (4760)                                | 6.1 (155)                   | 6.1 (155)                                         | 6 / 11        | 5000 (2250)                                     | 5000 (2250)     | 6 / 11        | 5000 (2250)                                           |
|                                       | 147 (3740)                                  | 94.7 (2405)    | 171.7 (4360)             | 195.3 (4960)                                | 6.1 (155)                   | 6.1 (155)                                         | 6 / 11        | 5000 (2250)                                     | 5000 (2250)     | 6 / 11        | 5000 (2250)                                           |
|                                       | 159 (4040)                                  | 102.2 (2595)   | 183.5 (4660)             | 207.1 (5260)                                | 6.1 (155)                   | 6.1 (155)                                         | 6 / 11        | 5000 (2250)                                     | 5000 (2250)     | 6 / 11        | 5000 (2250)                                           |
| Full<br>Free-Lift<br>2-Stage<br>(FV)  | 119.5 (3040)                                | 78.5 (1995)    | 143.5 (3645)             | 167.7 (4260)                                | 55.1 (1400)                 | 30.5 (775)                                        | 6 / 11        | 5000 (2250)                                     | 5000 (2250)     | 6 / 11        | 5000 (2250)                                           |
|                                       | 131.5 (3340)                                | 84.5 (2145)    | 151.4 (3845)             | 179.5 (4560)                                | 61 (1550)                   | 36.4 (925)                                        | 6 / 11        | 5000 (2250)                                     | 5000 (2250)     | 6 / 11        | 5000 (2250)                                           |
|                                       | 139 (3540)                                  | 88.4 (2245)    | 163.2 (4145)             | 187.4 (4760)                                | 65 (1650)                   | 40.4 (1025)                                       | 6 / 11        | 5000 (2250)                                     | 5000 (2250)     | 6 / 11        | 5000 (2250)                                           |
| Full<br>Free-Lift<br>3-Stage<br>(FSV) | 159 (4040)                                  | 74.6 (1895)    | 181.5 (4610)             | 206.7 (5250)                                | 52.4 (1330)                 | 26.6 (675)                                        | 6 / 6         | 5000 (2250)                                     | 5000 (2250)     | 6 / 6         | 5000 (2250)                                           |
|                                       | 170.5 (4340)                                | 78.5 (1995)    | 193.3 (4910)             | 218.5 (5550)                                | 56.3 (1430)                 | 30.5 (775)                                        | 6 / 6         | 5000 (2250)                                     | 5000 (2250)     | 6 / 6         | 5000 (2250)                                           |
|                                       | 189 (4800)                                  | 84.5 (2145)    | 211.4 (5370)             | 236.6 (6010)                                | 62.2 (1580)                 | 36.4 (915)                                        | 6 / 6         | 3950 (1800)                                     | 4850 (2200)     | 6 / 6         | 4950 (2250)                                           |
|                                       | 198 (5040)                                  | 88.4 (2245)    | 220.9 (5610)             | 246.1 (6250)                                | 66.1 (1680)                 | 40.4 (1015)                                       | 6 / 6         | 3550 (1600)                                     | 4500 (2050)     | 6 / 6         | 4850 (2200)                                           |
|                                       | 218 (5540)                                  | 94.7 (2405)    | 240.6 (6110)             | 265.7 (6750)                                | 72.4 (1840)                 | 46.7 (1185)                                       | 6 / 6         | 2850 (1300)                                     | 3850 (1750)     | 6 / 6         | 4500 (2050)                                           |
|                                       | 237.5 (6040)                                | 102.2 (2595)   | 260.2 (6610)             | 285.4 (7250)                                | 79.9 (2030)                 | 54.2 (1375)                                       | 6 / 6         | 2000 (900)                                      | 2550 (1150)     | 6 / 6         | 3500 (1600)                                           |
|                                       | 257.5 (6540)                                | 112 (2845)     | 279.9 (7110)             | 305.1 (7750)                                | 89.8 (2280)                 | 64 (1625)                                         | —             | —                                               | —               | 6 / 6         | 3200 (1450)                                           |
|                                       | 277 (7040)                                  | 121.9 (3095)   | 299.6 (7610)             | 324.8 (8250)                                | 99.6 (2530)                 | 73.9 (1875)                                       | —             | —                                               | —               | 6 / 6         | 2500 (1150)                                           |
| Full<br>Free-Lift<br>4-Stage (QFV)    | 240 (6100)                                  | 84.8 (2155)    | 263.4 (6690)             | 289.4 (7350)                                | 61 (1550)                   | 35 (895)                                          | 6 / 3         | —                                               | 3800 (1720)     | 6 / 3         | —                                                     |
|                                       | 258 (6600)                                  | 90.7 (2305)    | 281.5 (7150)             | 307.5 (7810)                                | 67 (1700)                   | 41 (1045)                                         | 6 / 3         | —                                               | —               | 6 / 3         | —                                                     |

<sup>1</sup> Height of standard load backrest is 48" (1220 mm).  
Wide tread standard for all models with a 189" & higher FSV mast. Wide tread deduct option (GDOF) will configure back to narrow tread.  
High-lift SAS active mast functions not available on 80V mast.  
Must have Dual Drive Tires (F00C) at extra cost for 258 FSV, 277 FSV.  
Please contact your local, authorized Toyota Dealer for a complete list of available options.



MAST SPECIFICATIONS

| MAST<br>TYPE                          | MAXIMUM<br>FORK HEIGHT<br>(TOP OF<br>FORKS) | OVERALL HEIGHT |                          |                                 | FREE-LIFT                   |                                       | SINGLE TIRE   |                                                 |                 | DUAL TIRE     |                                                       |
|---------------------------------------|---------------------------------------------|----------------|--------------------------|---------------------------------|-----------------------------|---------------------------------------|---------------|-------------------------------------------------|-----------------|---------------|-------------------------------------------------------|
|                                       |                                             | LOWERED        | EXTENDED                 |                                 | WITHOUT<br>LOAD<br>BACKREST | WITH<br>STANDARD<br>LOAD<br>BACKREST¹ | TILT<br>RANGE | LOAD CAPACITY AT<br>24 IN. (610 MM) LOAD CENTER |                 | TILT<br>RANGE | LOAD CAPACITY<br>AT 24 IN.<br>(610 MM)<br>LOAD CENTER |
|                                       |                                             |                | WITHOUT<br>LOAD BACKREST | WITH STANDARD<br>LOAD BACKREST¹ |                             |                                       |               | FWD /<br>BWD                                    | NARROW<br>TREAD |               |                                                       |
|                                       | in (mm)                                     | in (mm)        | in (mm)                  | in (mm)                         | in (mm)                     | in (mm)                               | deg           | lb (kg)                                         | lb (kg)         | deg           | lb (kg)                                               |
| 8FGU30 / 8FDU30                       |                                             |                |                          |                                 |                             |                                       |               |                                                 |                 |               |                                                       |
| Wide<br>Visible<br>(V)                | 80.5 (2045)                                 | 59.6 (1515)    | 108.3 (2750)             | 128.5 (3265)                    | 5.3 (135)                   | 5.3 (135)                             | 6 / 11        | 6000 (2700)                                     | 6000 (2700)     | 6 / 11        | 6000 (2700)                                           |
|                                       | 119.5 (3045)                                | 79.3 (2015)    | 147.6 (3750)             | 167.9 (4265)                    | 5.3 (135)                   | 5.3 (135)                             | 6 / 11        | 6000 (2700)                                     | 6000 (2700)     | 6 / 11        | 6000 (2700)                                           |
|                                       | 131.5 (3345)                                | 85 (2165)      | 159.4 (4050)             | 179.7 (4565)                    | 5.3 (135)                   | 5.3 (135)                             | 6 / 11        | 6000 (2700)                                     | 6000 (2700)     | 6 / 11        | 6000 (2700)                                           |
|                                       | 139.5 (3545)                                | 89.2 (2265)    | 167.3 (4250)             | 187.6 (4765)                    | 5.3 (135)                   | 5.3 (135)                             | 6 / 11        | 6000 (2700)                                     | 6000 (2700)     | 6 / 11        | 6000 (2700)                                           |
|                                       | 147 (3745)                                  | 95.5 (2425)    | 175.2 (4450)             | 195.5 (4965)                    | 5.3 (135)                   | 5.3 (135)                             | 6 / 11        | 6000 (2700)                                     | 6000 (2700)     | 6 / 11        | 6000 (2700)                                           |
|                                       | 159 (4045)                                  | 103 (2615)     | 187 (4750)               | 207.3 (5265)                    | 5.3 (135)                   | 5.3 (135)                             | 6 / 11        | 6000 (2700)                                     | 6000 (2700)     | 6 / 11        | 6000 (2700)                                           |
| Full<br>Free-Lift<br>2-Stage<br>(FV)  | 119.5 (3045)                                | 79.3 (2015)    | 144.1 (3660)             | 167.9 (4265)                    | 55.1 (1400)                 | 31.3 (795)                            | 6 / 11        | 6000 (2700)                                     | 6000 (2700)     | 6 / 11        | 6000 (2700)                                           |
|                                       | 131.5 (3345)                                | 85.0 (2165)    | 155.9 (3960)             | 179.7 (4565)                    | 61 (1550)                   | 37.2 (945)                            | 6 / 11        | 6000 (2700)                                     | 6000 (2700)     | 6 / 11        | 6000 (2700)                                           |
|                                       | 139.5 (3545)                                | 89.2 (2265)    | 163.8 (4160)             | 187.6 (4765)                    | 65 (1650)                   | 41.2 (1045)                           | 6 / 11        | 6000 (2700)                                     | 6000 (2700)     | 6 / 11        | 6000 (2700)                                           |
| Full<br>Free-Lift<br>3-Stage<br>(FSV) | 159 (4045)                                  | 79.3 (2015)    | 183.5 (4660)             | 207.3 (5265)                    | 55.1 (1400)                 | 31.3 (795)                            | 6 / 6         | 6000 (2750)                                     | 6000 (2750)     | 6 / 6         | 6000 (2750)                                           |
|                                       | 171 (4345)                                  | 85.2 (2165)    | 195.3 (4960)             | 219.1 (5565)                    | 61 (1550)                   | 37.2 (945)                            | 6 / 6         | 6000 (2750)                                     | 6000 (2750)     | 6 / 6         | 6000 (2750)                                           |
|                                       | 187 (4750)                                  | 89.2 (2265)    | 211.0 (5360)             | 235 (5970)                      | 65 (1650)                   | 41.2 (1045)                           | 6 / 6         | 6000 (2750)                                     | 6000 (2750)     | 6 / 6         | 6000 (2750)                                           |
|                                       | 198.5 (5045)                                | 95.5 (2425)    | 222.8 (5660)             | 246.7 (6265)                    | 71.3 (1810)                 | 47.5 (1205)                           | 6 / 6         | 5600 (2550)                                     | 5800 (2650)     | 6 / 6         | 6000 (2700)                                           |
|                                       | 218 (5545)                                  | 103 (2615)     | 242.5 (6160)             | 266.3 (6765)                    | 78.7 (2000)                 | 55 (1395)                             | 6 / 6         | 4200 (1900)                                     | 5300 (2400)     | 6 / 6         | 5600 (2550)                                           |
|                                       | 237.5 (6045)                                | 112.8 (2865)   | 262.2 (6660)             | 286 (7265)                      | 88.6 (2250)                 | 64.8 (1645)                           | 6 / 6         | 3100 (1400)                                     | 3500 (1600)     | 6 / 6         | 4300 (1950)                                           |
|                                       | 257.5 (6545)                                | 122.6 (3115)   | 281.9 (7160)             | 305.7 (7765)                    | 98.4 (2500)                 | 74.6 (1895)                           | —             | —                                               | —               | 6 / 6         | 3500 (1600)                                           |
|                                       | 277 (7045)                                  | 132.5 (3365)   | 301.6 (7660)             | 325.4 (8265)                    | 108.3 (2750)                | 84.5 (2145)                           | —             | —                                               | —               | 6 / 6         | 2600 (1200)                                           |
| Full<br>Free-Lift<br>4-Stage (QFV)    | 240 (6100)                                  | 84.8 (2155)    | 263.4 (6690)             | 289.4 (7350)                    | 61 (1550)                   | 35 (895)                              | 6 / 3         | —                                               | 4900 (2220)     | 6 / 3         | —                                                     |
|                                       | 258 (6600)                                  | 90.7 (2305)    | 281.5 (7150)             | 307.5 (7810)                    | 67 (1700)                   | 41 (1045)                             | 6 / 3         | —                                               | —               | 6 / 3         | —                                                     |

| MAST<br>TYPE                          | MAXIMUM<br>FORK HEIGHT<br>(TOP OF<br>FORKS) | OVERALL HEIGHT |                          |                                 | FREE-LIFT                   |                                       | SINGLE TIRE   |                                                 |                 | DUAL TIRE     |                                                       |
|---------------------------------------|---------------------------------------------|----------------|--------------------------|---------------------------------|-----------------------------|---------------------------------------|---------------|-------------------------------------------------|-----------------|---------------|-------------------------------------------------------|
|                                       |                                             | LOWERED        | EXTENDED                 |                                 | WITHOUT<br>LOAD<br>BACKREST | WITH<br>STANDARD<br>LOAD<br>BACKREST¹ | TILT<br>RANGE | LOAD CAPACITY AT<br>24 IN. (610 MM) LOAD CENTER |                 | TILT<br>RANGE | LOAD CAPACITY<br>AT 24 IN.<br>(610 MM)<br>LOAD CENTER |
|                                       |                                             |                | WITHOUT<br>LOAD BACKREST | WITH STANDARD<br>LOAD BACKREST¹ |                             |                                       |               | FWD /<br>BWD                                    | NARROW<br>TREAD |               |                                                       |
|                                       | in (mm)                                     | in (mm)        | in (mm)                  | in (mm)                         | in (mm)                     | in (mm)                               | deg           | lb (kg)                                         | lb (kg)         | deg           | lb (kg)                                               |
| 8FGU32 / 8FDU32                       |                                             |                |                          |                                 |                             |                                       |               |                                                 |                 |               |                                                       |
| Wide Visible<br>(V)                   | 80.5 (2045)                                 | 59.6 (1515)    | 108.3 (2750)             | 128.5 (3265)                    | 5.3 (135)                   | 5.3 (135)                             | 6 / 11        | 6500 (3000)                                     | 6500 (3000)     | 6 / 11        | 6500 (3000)                                           |
|                                       | 119.5 (3045)                                | 79.3 (2015)    | 147.6 (3750)             | 167.9 (4265)                    | 5.3 (135)                   | 5.3 (135)                             | 6 / 11        | 6500 (3000)                                     | 6500 (3000)     | 6 / 11        | 6500 (3000)                                           |
|                                       | 131.5 (3345)                                | 85 (2165)      | 159.4 (4050)             | 179.7 (4565)                    | 5.3 (135)                   | 5.3 (135)                             | 6 / 11        | 6500 (3000)                                     | 6500 (3000)     | 6 / 11        | 6500 (3000)                                           |
|                                       | 139.5 (3545)                                | 89.2 (2265)    | 167.3 (4250)             | 187.6 (4765)                    | 5.3 (135)                   | 5.3 (135)                             | 6 / 11        | 6500 (3000)                                     | 6500 (3000)     | 6 / 11        | 6500 (3000)                                           |
|                                       | 147 (3745)                                  | 95.5 (2425)    | 175.2 (4450)             | 195.5 (4965)                    | 5.3 (135)                   | 5.3 (135)                             | 6 / 11        | 6500 (3000)                                     | 6500 (3000)     | 6 / 11        | 6500 (3000)                                           |
|                                       | 159 (4045)                                  | 103 (2615)     | 187 (4750)               | 207.3 (5265)                    | 5.3 (135)                   | 5.3 (135)                             | 6 / 11        | 6500 (3000)                                     | 6500 (3000)     | 6 / 11        | 6500 (3000)                                           |
| Full<br>Free-Lift<br>2-Stage<br>(FV)  | 119.5 (3045)                                | 79.3 (2015)    | 149.2 (3790)             | 167.9 (4265)                    | 50 (1270)                   | 31.3 (795)                            | 6 / 11        | 6500 (3000)                                     | 6500 (3000)     | 6 / 11        | 6500 (3000)                                           |
|                                       | 131.5 (3345)                                | 85.0 (2165)    | 161.0 (4090)             | 179.7 (4565)                    | 55.9 (1420)                 | 37.2 (945)                            | 6 / 11        | 6500 (3000)                                     | 6500 (3000)     | 6 / 11        | 6500 (3000)                                           |
|                                       | 139.5 (3545)                                | 89.2 (2265)    | 168.3 (4290)             | 187.6 (4765)                    | 59.8 (1520)                 | 41.2 (1045)                           | 6 / 11        | 6500 (3000)                                     | 6500 (3000)     | 6 / 11        | 6500 (3000)                                           |
| Full<br>Free-Lift<br>3-Stage<br>(FSV) | 159 (4045)                                  | 79.3 (2015)    | 188.6 (4790)             | 207.3 (5265)                    | 50 (1270)                   | 31.3 (795)                            | 6 / 6         | 6500 (3000)                                     | 6500 (3000)     | 6 / 6         | 6500 (3000)                                           |
|                                       | 171 (4345)                                  | 85.2 (2165)    | 200.4 (5090)             | 219.1 (5565)                    | 55.9 (1420)                 | 37.2 (945)                            | 6 / 6         | 6500 (3000)                                     | 6500 (3000)     | 6 / 6         | 6500 (3000)                                           |
|                                       | 187 (4750)                                  | 89.2 (2265)    | 216.1 (5490)             | 235 (5970)                      | 59.8 (1520)                 | 41.2 (1045)                           | 6 / 6         | 6500 (3000)                                     | 6500 (3000)     | 6 / 6         | 6500 (3000)                                           |
|                                       | 198.5 (5045)                                | 95.5 (2425)    | 228.0 (5790)             | 246.7 (6265)                    | 66.1 (1680)                 | 47.5 (1205)                           | 6 / 6         | 5750 (2600)                                     | 6400 (2900)     | 6 / 6         | 6500 (2950)                                           |
|                                       | 218 (5545)                                  | 103 (2615)     | 247.6 (6290)             | 266.3 (6765)                    | 73.6 (1870)                 | 55 (1395)                             | 6 / 6         | 4200 (1900)                                     | 5500 (2500)     | 6 / 6         | 5800 (2650)                                           |
|                                       | 237.5 (6045)                                | 112.8 (2865)   | 267.3 (6790)             | 286 (7265)                      | 83.5 (2120)                 | 64.8 (1645)                           | 6 / 6         | 3300 (1500)                                     | 4000 (1800)     | 6 / 6         | 4500 (2050)                                           |
|                                       | 257.5 (6545)                                | 122.6 (3115)   | 287.0 (7290)             | 305.7 (7765)                    | 93.3 (2370)                 | 74.6 (1895)                           | —             | —                                               | —               | 6 / 6         | 3500 (1600)                                           |
|                                       | 277 (7045)                                  | 132.5 (3365)   | 306.7 (7790)             | 325.4 (8265)                    | 103.1 (2620)                | 84.5 (2145)                           | —             | —                                               | —               | 6 / 6         | 2300 (1050)                                           |
| Full<br>Free-Lift<br>4-Stage (QFV)    | 240 (6100)                                  | 84.8 (2155)    | 263.4 (6690)             | 289.4 (7350)                    | 61 (1550)                   | 35 (895)                              | 6 / 3         | —                                               | 3800 (1720)     | 6 / 3         | —                                                     |
|                                       | 258 (6600)                                  | 90.7 (2305)    | 281.5 (7150)             | 307.5 (7810)                    | 67 (1700)                   | 40 (1010)                             | 6 / 3         | —                                               | 3200 (1450)     | 6 / 3         | —                                                     |

1 Height of standard load backrest is 48" (1220 mm).  
High-lift SAS active mast functions not available on 80V mast.  
Must have Dual Drive Tires (FOOC) at extra cost for 258 FSV, 277 FSV.  
Please contact your local, authorized Toyota Dealer for a complete list of available options.



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*Improved performance, **superior quality***



## ↓ **Vibrations - Noise**

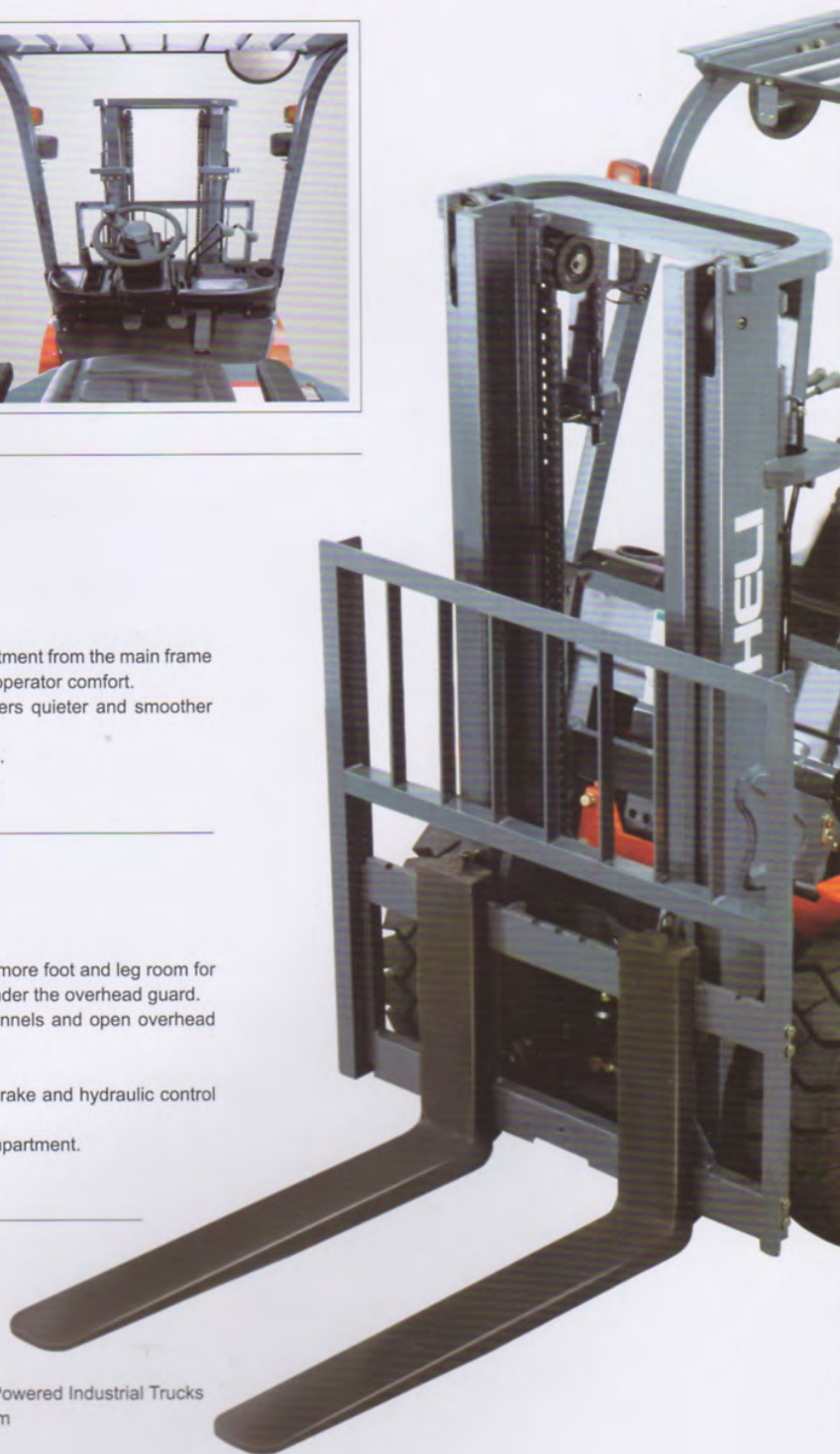
- Cushion suspension devices separate the operator compartment from the main frame of forklift which absorbs the truck's vibration for increased operator comfort.
- Engine performance and repositioned hydraulic pump offers quieter and smoother operation and less noise to operators compartment.
- Improved hydraulic control functions for lifting and lowering.

## ↑ **Workspace - Visibility**

- Operator compartment has been vastly improved creating more foot and leg room for operators both large and small with plenty of head room under the overhead guard.
- Ample visibility through upright due to narrower mast channels and open overhead guard.
- Improved LED/LCD display panel
- Comfortable suspension seat and easy to reach parking brake and hydraulic control handles.
- Low, wide step and grab handle for entry into operator compartment.

## ↑ **Safety**

- All Heli forklifts carry the ANSI B56.1 Safety Standard for Powered Industrial Trucks
- All Heli forklifts are equipped with Operator Sensing System







### ↑ **Increased Productivity / Lower Operating Costs**

- Smaller turning radius, increased steering efficiency.
- Two engine options: 2.4L or 3.0L LP engines (EPA Tier IV).
- Reliable powershift transmission; hydrostatic power steering; drum & shoe brakes.
- High air intake; dual element air cleaner; rear grab handle w/horn button (option).

### ↑ **Improved Performance**

- All aluminum radiator increases air flow and dissipates heat more efficiently.
- Smaller steering wheel with fewer turns lock-to-lock.
- 35% faster lifting speeds over previous generation H2000 series forklifts. Damping mechanism virtually eliminates "crashing" sound when lowering forks translating to quieter and smoother operation.
- Heavy duty transmission/drive axle offers exceptional performance in both moderate and severe applications.
- Cast steel heavy duty steer axle with "greasable" zerk fittings and zerk fitting location chart located at front of operator compartment insures proper servicing of all major components at regular preventive maintenance cycles.

### ↑ **Serviceability**

- Hood opens to an 80 degree angle and floor board is removable for easier and more convenient service.





# 4000-7000lbs

## H3 series Internal Combustion Counterbalanced Forklift Truck

### Manufacturer and technical parameters

| Characteristic |                                               |                       |     |                               |                               |                                |                                |
|----------------|-----------------------------------------------|-----------------------|-----|-------------------------------|-------------------------------|--------------------------------|--------------------------------|
| 1.01           | manufacturer                                  | HELI                  |     |                               |                               |                                |                                |
| 1.02           | Model                                         |                       |     | CPCD20/<br>CP(Q)(Y)D20        | CPCD25/<br>CP(Q)(Y)D25        | CPCD30/<br>CP(Q)(Y)D30         | CPCD35/<br>CP(Q)(Y)D35         |
| 1.03           | Rated Capacity                                |                       | lbs | 4000                          | 5000                          | 6000                           | 7000                           |
| 1.04           | Load Centre                                   |                       | in  | 20                            |                               |                                |                                |
| 1.05           | Operation Type                                | Seat-type             |     |                               |                               |                                |                                |
|                | Dimension Parameter                           |                       |     |                               |                               |                                |                                |
| 2.01           | Max.Lifting Height(without backrest)          | H                     | in  | 118.2                         | 118.2                         | 118.2                          | 118.2                          |
| 2.02           | Overall Lowered Height                        | H1                    | in  | 78.8                          | 78.8                          | 81.4                           | 85.9                           |
| 2.03           | Max.Lifting Height(with backrest)             | H2                    | in  | 158.8                         | 158.8                         | 167.3                          | 166.9                          |
| 2.04           | Free Lifting Height                           | H3                    | in  | 6.5                           | 6.5                           | 6.3                            | 6.7                            |
| 2.05           | Overall Height(to overhead guard)             | H4                    | in  | 84.7                          | 84.7                          | 85.5                           | 85.5                           |
| 2.06           | Min.Ground Clearance(under mast)              | H5                    | in  | 4.5                           | 4.5                           | 5.3                            | 5.3                            |
| 2.07           | Overhead guard clearance(from seat face)      | H6                    | in  | 40.6                          | 40.6                          | 40.6                           | 40.6                           |
| 2.08           | Tow Pin Height                                | H9                    | in  | 10.8                          | 10.8                          | 11                             | 11                             |
| 2.09           | Backrest Height(From the surface of the fork) | H13                   | in  | 39.4                          | 39.4                          | 48.3                           | 48.1                           |
| 2.10           | Overall Length(without/with Forks)            | (L/L')                | in  | 137.9/101.7                   | 146.1/103.9                   | 150.4/108.3                    | 151.1/109                      |
| 2.11           | Wheelbase                                     | L1                    | in  | 65                            | 65                            | 67                             | 67                             |
| 2.12           | Front Overhang                                | L2                    | in  | 18.6                          | 18.6                          | 18.8                           | 19.5                           |
| 2.13           | Rear Overhang                                 | L3                    | in  | 18                            | 20.3                          | 22.5                           | 22.5                           |
| 2.14           | Overall Width                                 | W1                    | in  | 45.3                          | 45.3                          | 48.3                           | 48.3                           |
| 2.15           | Tread(Front Tread/Rear Tread)                 | (W3/W2)               | in  | 38.2/38.2                     | 38.2/38.2                     | 39.4/38.2                      | 39.4/38.2                      |
| 2.16           | Lateral Fork Adjustment(Outside of Forks)     | W5                    | in  | 40.6/9.6                      | 40.6/9.6                      | 41.8/9.9                       | 41.8/9.9                       |
| 2.17           | Min.Turning Radius Outside                    | r                     | in  | 85.5                          | 88.3                          | 94.6                           | 95.3                           |
| 2.18           | Min.Ground Clearance(wheelbase centre)        | r'                    | in  | 7.1                           | 7.1                           | 7.9                            | 7.9                            |
| 2.19           | Min, Right Angle Stacking Aside Width         | Ra                    | in  | 86.7                          | 89.8                          | 93.8                           | 94.6                           |
| 2.20           | Mast Tilt(fwd/bwd)                            | $\alpha$ / $\beta$    | deg | 6/12                          | 6/12                          | 6/12                           | 6/12                           |
| 2.21           | Fork Dimensions (Length*Width*Thicknes)       | L4×W×T                | in  | 36*4.8*1.6                    | 42*4.8*1.6                    | 42*4.9*1.8                     | 42*4.9*2.0                     |
| Weights        |                                               |                       |     |                               |                               |                                |                                |
| 3.01           | Standard Truck Weight Unload                  |                       | lbs | 7540                          | 8377                          | 9634                           | 10582                          |
| 3.02           | Weight Distribution Rated Load(front/rear)    |                       | lbs | 10516/1433                    | 12081/1808                    | 14242/2006                     | 16468/1830                     |
| 3.03           | Weight Distribution Unload(front/rear)        |                       | lbs | 3527/4013                     | 3439/4938                     | 3770/5864                      | 4145/6437                      |
| Wheels&Tires   |                                               |                       |     |                               |                               |                                |                                |
| 4.01           | Wheel Number(x=driven wheel),front/rear       | 2X/2                  |     |                               |                               |                                |                                |
| 4.02           | Tire Type,front/rear                          | Pnuematic Tire        |     |                               |                               |                                |                                |
| 4.03           | Tire Size                                     |                       |     | 7.00-12-12PR<br>/ 6.00-9-10PR | 7.00-12-12PR<br>/ 6.00-9-10PR | 28×9-15-12PR<br>/ 6.50-10-10PR | 28×9-15-14PR<br>/ 6.50-10-10PR |
| 4.04           | Service Brake                                 | Hydraulic-Foot Pedal  |     |                               |                               |                                |                                |
| 4.05           | Parking Brake                                 | Mechanical-Hand Lever |     |                               |                               |                                |                                |



# Performance

| Model                            |           | CPCD20           | CPCD25    | CPCD30    | CPCD35    | CF |
|----------------------------------|-----------|------------------|-----------|-----------|-----------|----|
| Max.Drawbar pull(Load/unload)    | lb        | 3600/2588        | 3713/2588 | 4275/3263 | 4725/3263 | 3  |
| Max.Gradeability(Load/Unload)    | %         | 20/20            | 20/20     | 23/20     | 21/20     |    |
| Max.Traveling Speed(Load/Unload) | mph       | 10.6/11.8        | 10.6/11.8 | 11.8/12.4 | 11.8/11.8 |    |
| Lifting Speed(Load/unload)       | ft/min    | 110/118          | 110/118   | 98.5/108  | 78.8/82.7 |    |
| Lowing Speed(Load/unload)        | ft/min    | 88.7/98.5        | 88.7/98.5 | 88.7/108  | 69/78.8   |    |
| Engine and Gearbox               |           |                  |           |           |           |    |
| Engine Manufacturer/Model        |           | KUBOTA V2403     |           |           |           |    |
| Rated Power                      | hp/rpm    | 45.7/2400        |           |           |           |    |
| Rated Torque                     | lb.ft/rpm | 115.1/1800       |           |           |           |    |
| Cyl. Number-bore*stroke          |           | 4-87x102.4       |           |           |           |    |
| Displacement                     | L         | 2.434            |           |           |           |    |
| Engine Type                      |           | Diesel           |           |           |           |    |
| Emission                         |           | EuroIIIA/EPA T4I |           |           |           |    |
| Battery Capacity                 | V/Ah      | 12/80            |           |           |           |    |
| Fuel Tank Capacity               | L         |                  |           |           |           |    |
| Number of speed(fwd/bwd)         |           |                  |           |           |           |    |

## Wide view Full Free 2-stage mast

| Mast type | Max. lifting height (in) | Loading capacity (lbs)- loading center 20 inch |                   |                   |                   | Mast Overall Height (in)- fork to the ground |     |      | Free Lifting Height (in)- with backrest |    |      | Service weight    |                   |                   |                   | Mast tilt angle (Fwd/Bwd) deg |
|-----------|--------------------------|------------------------------------------------|-------------------|-------------------|-------------------|----------------------------------------------|-----|------|-----------------------------------------|----|------|-------------------|-------------------|-------------------|-------------------|-------------------------------|
|           |                          | CPCD20/ CPQ(Y)D20                              | CPCD25/ CPQ(Y)D25 | CPCD30/ CPQ(Y)D30 | CPCD35/ CPQ(Y)D35 | 2-2.5t                                       | 3t  | 3.5t | 2-2.5t                                  | 3t | 3.5t | CPCD20/ CPQ(Y)D20 | CPCD25/ CPQ(Y)D25 | CPCD30/ CPQ(Y)D30 | CPCD35/ CPQ(Y)D35 |                               |
| ZM200     | 79                       | 4000                                           | 5000              | 6000              | 7000              | 59                                           | 62  | 66   | 20                                      | 13 | 18   | 7650              | 8488              | 9546              | 10516             | 6/12                          |
| ZM250     | 99                       | 4000                                           | 5000              | 6000              | 7000              | 69                                           | 72  | 76   | 29                                      | 23 | 28   | 7749              | 8587              | 9634              | 10626             | 6/12                          |
| ZM300     | 118                      | 4000                                           | 5000              | 6000              | 7000              | 79                                           | 82  | 86   | 39                                      | 33 | 38   | 7859              | 8697              | 9744              | 10736             | 6/12                          |
| ZM330     | 130                      | 4000                                           | 5000              | 6000              | 7000              | 85                                           | 87  | 92   | 45                                      | 39 | 43   | 7926              | 8763              | 9799              | 10792             | 6/12                          |
| ZM350     | 138                      | 4000                                           | 5000              | 6000              | 7000              | 88                                           | 91  | 96   | 49                                      | 43 | 48   | 7970              | 8807              | 9844              | 10836             | 6/6                           |
| ZM370     | 146                      | 4000                                           | 5000              | 6000              | 7000              | 92                                           | 95  | 100  | 54                                      | 47 | 52   | 8016              | 8851              | 9877              | 10880             | 6/6                           |
| ZM400     | 158                      | 4000                                           | 5000              | 6000              | 7000              | 100                                          | 103 | 108  | 61                                      | 55 | 59   | 8168              | 9006              | 10031             | 11023             | 6/6                           |
| ZM425     | 168                      | 3800                                           | 4500              | 5700              | 6400              | 105                                          | 108 | 112  | 66                                      | 60 | 64   | 8223              | 9061              | 10086             | 11078             | 6/6                           |
| ZM450     | 177                      | 3600                                           | 4200              | 5500              | 6000              | 110                                          | 113 | 117  | 71                                      | 65 | 69   | 8278              | 9116              | 10130             | 11133             | 6/6                           |
| ZM500     | 197                      | 3200                                           | 3800              | 4800              | 5000              | 120                                          | 123 | 127  | 81                                      | 75 | 79   | 8389              | 9226              | 10229             | 11243             | 3/6                           |
| ZM550     | 217                      | 3200                                           | 3900              | 4900              | 5000              | 132                                          | 135 | 139  | 92                                      | 86 | 91   | 8576              | 9414              | 10648             | 11673             | 3/6                           |
| ZM600     | 236                      | 3000                                           | 3600              | 4400              | 4600              | 134                                          | 145 | 149  | 102                                     | 96 | 101  | 8675              | 9513              | 10747             | 11795             | 3/6                           |

Note:(1) \*stands for the rated capacity when the front tire is double-tire.

(2) When the front tire of the 4000-7000lbs truck is double tire, the service weight of the truck is the weight in the table plus 242lbs.

(3) The free lifting height (without backrest) of the 2000-3500lbs truck is the height (with backrest) in the table plus 16.9inch. The free lifting height (without backrest) of the 4000-5000lbs truck is the height (with backrest) in the table plus 18.1inch. The free lifting height (without backrest) of the 6000lbs truck is the height (with backrest) in the table plus 23.2inch. The free lifting height (without backrest) of the 7000lbs truck is the height (with backrest) in the table plus 20.6inch.



| CP(Q)(Y)D20 | CP(Q)(Y)D25 | CP(Q)(Y)D30 | CP(Q)(Y)D35 | CP(Q)(Y)D20 | CP(Q)(Y)D25 | CP(Q)(Y)D30 | CP(Q)(Y)D35 |
|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 3375/2363   | 3375/2363   | 3825/3038   | 4050/3038   | 3600/2363   | 3713/2363   | 4050/3038   | 4500/3038   |
| 31/22       | 31/22       | 23/20       | 18/21       | 23/12       | 23/12       | 22/13       | 21/20       |
| 11.2/11.8   | 11.2/11.8   | 11.8/11.8   | 11.8/11.8   | 11.8/12.4   | 11.8/12.4   | 11.8/12.4   | 11.8/12.4   |
| 98.5/108    | 98.5/108    | 35.5/106    | 80.8/88.7   | 112/122     | 112/122     | 94.6/106    | 460/490     |
| 88.7/98.5   | 88.7/98.5   | 88.7/108    | 69/78.8     | 88.7/98.5   | 88.7/98.5   | 88.7/108    | 69/78.8     |

Mitsubishi 4G64(PSI)

GM3.0

GAS:64.3/2700,LPG:61.6/2700

67/2700

GAS:125.5/2400,LPG:124/1600

150/1800

4-86.5x100

4-102x91.5

2.351

3

GAS/LPG

GAS/LPG

Tier IV

Tier IV

12/60

12/80

60

1-1 Power Shift T/M/ 2-2 Manual Shift T/M

### Wide view Full Free 3-stage mast

| Mast type | Max. lifting height (in) | Loading capacity (lbs)- loading center 20 inch |                        |                        |                        | Mast Overall Height (in)- fork to the ground |     |      | Free Lifting Height (in)- with backrest |    |      | Service weight         |                        |                        |                        | Mast tilt angle (Fwd/Bwd) deg |
|-----------|--------------------------|------------------------------------------------|------------------------|------------------------|------------------------|----------------------------------------------|-----|------|-----------------------------------------|----|------|------------------------|------------------------|------------------------|------------------------|-------------------------------|
|           |                          | CPCD20/<br>CP(Q)(Y)D20                         | CPCD25/<br>CP(Q)(Y)D25 | CPCD30/<br>CP(Q)(Y)D30 | CPCD35/<br>CP(Q)(Y)D35 | 2-2.5t                                       | 3t  | 3.5t | 2-2.5t                                  | 3t | 3.5t | CPCD20/<br>CP(Q)(Y)D20 | CPCD25/<br>CP(Q)(Y)D25 | CPCD30/<br>CP(Q)(Y)D30 | CPCD35/<br>CP(Q)(Y)D35 |                               |
| ZSM360    | 142                      | 4000                                           | 4800                   | 5800                   | 6600                   | 71                                           | 77  | 77   | 31                                      | 28 | 28   | 8190                   | 9028                   | 10163                  | 10858                  | 6/6                           |
| ZSM400    | 158                      | 3800                                           | 4800                   | 5800                   | 6600                   | 76                                           | 81  | 81   | 36                                      | 33 | 33   | 8256                   | 9094                   | 10229                  | 10924                  | 6/6                           |
| ZSM435    | 171                      | 3700                                           | 4400                   | 5600                   | 5800                   | 81                                           | 86  | 86   | 41                                      | 38 | 38   | 8322                   | 9160                   | 10284                  | 10979                  | 6/6                           |
| ZSM450    | 177                      | 3600                                           | 4300                   | 5600                   | 5600                   | 83                                           | 88  | 88   | 43                                      | 40 | 40   | 8344                   | 9182                   | 10318                  | 11012                  | 6/6                           |
| ZSM470    | 185                      | 3400                                           | 4000                   | 5200                   | 5200                   | 85                                           | 88  | 88   | 46                                      | 40 | 40   | 8377                   | 9215                   | 10362                  | 11056                  | 6/6                           |
| ZSM480    | 189                      | 3400                                           | 3900                   | 5200                   | 5200                   | 86                                           | 92  | 92   | 47                                      | 44 | 44   | 8389                   | 9226                   | 10406                  | 11078                  | 6/6                           |
| ZSM500    | 197                      | 3500                                           | 4200                   | 5500                   | 5700                   | 90                                           | 96  | 96   | 51                                      | 47 | 48   | 8444                   | 9281                   | 10461                  | 11155                  | 6/6                           |
| ZSM540    | 213                      | 3400                                           | 4300                   | 5300                   | 5400                   | 95                                           | 101 | 101  | 56                                      | 52 | 53   | 8510                   | 9348                   | 10527                  | 11221                  | 3/6                           |
| ZSM600    | 236                      | 3200                                           | 3600                   | 4200                   | 4400                   | 104                                          | 110 | 110  | 65                                      | 61 | 61   | 8686                   | 9524                   | 10725                  | 11420                  | 3/6                           |

Note:(1) \*stands for the rated capacity when the front tire is double-tire.

(2) When the front tyre of the 4000-7000lbs truck is double tyre, the service weight of the truck is the weight in the table plus 242lbs.

(3) The free lifting height (without backrest) of the 2000-3500lbs truck is the height (with backrest) in the table plus 19.5inch. The free lifting height (without backrest) of the 4000-5000lbs truck is the height (with backrest) in the table plus 17.8 inch. The free lifting height (without backrest) of the 6000lbs truck is the height (with backrest) in the table plus 22.9inch. The free lifting height (without backrest) of the 7000lbs truck is the height (with backrest) in the table plus 19.2inch.

| CP(Q)(Y)D20 | CP(Q)(Y)D25 | CP(Q)(Y)D30 | CP(Q)(Y)D35 | CP(Q)(Y)D20 | CP(Q)(Y)D25 | CP(Q)(Y)D30 | CP(Q)(Y)D35 |
|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 3375/2363   | 3375/2363   | 3825/3038   | 4050/3038   | 3600/2363   | 3713/2363   | 4050/3038   | 4500/3038   |
| 31/22       | 31/22       | 23/20       | 18/21       | 23/12       | 23/12       | 22/13       | 21/20       |
| 11.2/11.8   | 11.2/11.8   | 11.8/11.8   | 11.8/11.8   | 11.8/12.4   | 11.8/12.4   | 11.8/12.4   | 11.8/12.4   |
| 98.5/108    | 98.5/108    | 35.5/106    | 80.8/88.7   | 112/122     | 112/122     | 94.6/106    | 460/490     |
| 88.7/98.5   | 88.7/98.5   | 88.7/108    | 69/78.8     | 88.7/98.5   | 88.7/98.5   | 88.7/108    | 69/78.8     |

Mitsubishi 4G64(PSI)

GM3.0

GAS:64.3/2700,LPG:61.6/2700

67/2700

GAS:125.5/2400,LPG:124/1600

150/1800

4-86.5x100

4-102x91.5

2.351

3

GAS/LPG

GAS/LPG

Tier IV

Tier IV

12/60

12/80

60

1-1 Power Shift T/M/ 2-2 Manual Shift T/M

### Wide view Full Free 3-stage mast

| Mast type | Max. lifting height (in) | Loading capacity (lbs)- loading center 20 inch |                     |                     |                     | Mast Overall Height (in)- fork to the ground |     |      | Free Lifting Height (in)- with backrest |    |      | Service weight      |                     |                     |                     | Mast tilt angle (Fwd/Bwd) deg |
|-----------|--------------------------|------------------------------------------------|---------------------|---------------------|---------------------|----------------------------------------------|-----|------|-----------------------------------------|----|------|---------------------|---------------------|---------------------|---------------------|-------------------------------|
|           |                          | CPCD20/ CP(Q)(Y)D20                            | CPCD25/ CP(Q)(Y)D25 | CPCD30/ CP(Q)(Y)D30 | CPCD35/ CP(Q)(Y)D35 | 2-2.5t                                       | 3t  | 3.5t | 2-2.5t                                  | 3t | 3.5t | CPCD20/ CP(Q)(Y)D20 | CPCD25/ CP(Q)(Y)D25 | CPCD30/ CP(Q)(Y)D30 | CPCD35/ CP(Q)(Y)D35 |                               |
| ZSM360    | 142                      | 4000                                           | 4800                | 5800                | 6600                | 71                                           | 77  | 77   | 31                                      | 28 | 28   | 8190                | 9028                | 10163               | 10858               | 6/6                           |
| ZSM400    | 158                      | 3800                                           | 4800                | 5800                | 6600                | 76                                           | 81  | 81   | 36                                      | 33 | 33   | 8256                | 9094                | 10229               | 10924               | 6/6                           |
| ZSM435    | 171                      | 3700                                           | 4400                | 5600                | 5800                | 81                                           | 86  | 86   | 41                                      | 38 | 38   | 8322                | 9160                | 10284               | 10979               | 6/6                           |
| ZSM450    | 177                      | 3600                                           | 4300                | 5400                | 5600                | 83                                           | 88  | 88   | 43                                      | 40 | 40   | 8344                | 9182                | 10318               | 11012               | 6/6                           |
| ZSM470    | 185                      | 3400                                           | 4000                | 5000                | 5200                | 85                                           | 88  | 88   | 46                                      | 40 | 40   | 8377                | 9215                | 10362               | 11056               | 6/6                           |
| ZSM480    | 189                      | 3400                                           | 3900                | 5000                | 5200                | 86                                           | 92  | 92   | 47                                      | 44 | 44   | 8389                | 9226                | 10406               | 11078               | 6/6                           |
| ZSM500    | 197                      | 3200                                           | 3500                | 4500                | 4700                | 90                                           | 96  | 96   | 51                                      | 47 | 48   | 8444                | 9281                | 10461               | 11155               | 6/6                           |
| ZSM540    | 213                      | 3400                                           | 4300                | 5300                | 5500                | 95                                           | 101 | 101  | 56                                      | 52 | 53   | 8510                | 9348                | 10527               | 11221               | 3/6                           |
| ZSM600    | 236                      | 3200                                           | 3600                | 4200                | 4400                | 104                                          | 110 | 110  | 65                                      | 61 | 61   | 8686                | 9524                | 10725               | 11420               | 3/6                           |

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