

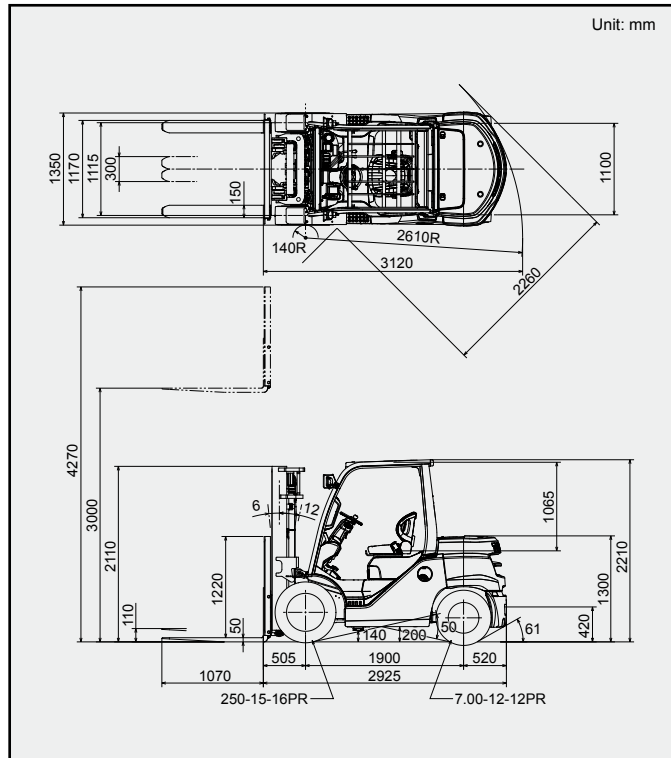
# 3,500 kg

## MAIN VEHICLE SPECIFICATIONS

|                            |                                                                           |                        |                           |                |                      |                      |
|----------------------------|---------------------------------------------------------------------------|------------------------|---------------------------|----------------|----------------------|----------------------|
| Characteristics            | Manufacturer                                                              |                        |                           |                | TOYOTA               | TOYOTA               |
|                            | Model                                                                     |                        |                           |                | 8FG35N               | 8FD35N               |
|                            | Load Capacity                                                             |                        |                           | kg             | 3500 [4000]          | 3500 [4000]          |
|                            | Load Center                                                               |                        |                           | mm             | 600 [500]            | 600 [500]            |
|                            | Power Type                                                                |                        |                           |                | Gasoline             | Diesel               |
|                            | Operator Position                                                         |                        |                           |                | Rider Seated         | Rider Seated         |
|                            | Tire Type                                                                 |                        | Front/Rear                |                | Pneumatic            | Pneumatic            |
| Wheels (x = driven)        |                                                                           | Front/Rear             |                           | 2x/2           | 2x/2                 |                      |
| Dimensions                 | Maximum Fork Height (MFH)                                                 |                        |                           | mm             | 3000                 | 3000                 |
|                            | Free Lift                                                                 |                        |                           | mm             | 110                  | 110                  |
|                            | Fork Size                                                                 | T x W x L              | mm                        | 50/150/1070    | 50/150/1070          |                      |
|                            | Fork Spread (Outside)                                                     | MAX./MIN.              | mm                        | 1170/300       | 1170/300             |                      |
|                            | Tilt Range                                                                | FWD/BWD                | deg                       | 6/12           | 6/12                 |                      |
|                            | Length to Fork Face                                                       |                        |                           | mm             | 2925                 | 2925                 |
|                            | Overall Width                                                             |                        |                           | mm             | 1350                 | 1350                 |
|                            | Mast Lowered Height                                                       |                        |                           | mm             | 2110                 | 2110                 |
|                            | Mast Extended Height                                                      |                        |                           | mm             | 4270                 | 4270                 |
|                            | Overhead Guard Height                                                     |                        |                           | mm             | 2210                 | 2210                 |
|                            | Turning Radius (Outside)                                                  |                        |                           | mm             | 2610                 | 2610                 |
|                            | Load Distance (Centerline of front axle to front face of forks)           |                        |                           | mm             | 505                  | 505                  |
|                            | Rear Overhang                                                             |                        |                           | mm             | 520                  | 520                  |
|                            | Basic Right Angle Stacking Aisle Width<br>(Add load length and clearance) |                        |                           | mm             | 3120                 | 3120                 |
|                            | Performance                                                               | Speeds                 | Travel, Max.<br>(FWD/RVS) | Full Load      | km/h                 | 23.0/23.0            |
| No Load                    |                                                                           |                        |                           | km/h           | 24.0/24.0            | 23.0/23.0            |
| Lifting                    |                                                                           |                        | Full Load                 | mm/sec         | 525                  | 510                  |
|                            |                                                                           |                        | No Load                   | mm/sec         | 550                  | 550                  |
| Lowering                   |                                                                           |                        | Full Load                 | mm/sec         | 530                  | 530                  |
|                            |                                                                           |                        | No Load                   | mm/sec         | 480                  | 480                  |
| Max. Drawbar Pull          |                                                                           | Full Load              | N <kg>                    | 37000<3780>    | 36000<3670>          |                      |
|                            |                                                                           | No Load                | N <kg>                    | 13400<1310>    | 13500<1320>          |                      |
| Gradeability at 1.5 km/h * |                                                                           | Full Load              | % (tanθ)                  | 34             | 32                   |                      |
| Max. Gradeability *        |                                                                           | Full Load              | % (tanθ)                  | 43             | 42                   |                      |
|                            |                                                                           | No Load                | % (tanθ)                  | 24             | 24                   |                      |
| Weight                     | Total Weight                                                              |                        |                           | kg             | 5700                 | 5800                 |
|                            | Weight Distribution                                                       | Full Load              | Front                     | kg             | 8090 [8670]          | 8135 [8710]          |
|                            |                                                                           |                        | Rear                      | kg             | 1110 [1030]          | 1165 [1090]          |
|                            |                                                                           | No Load                | Front                     | kg             | 2550                 | 2595                 |
|                            |                                                                           |                        | Rear                      | kg             | 3150                 | 3205                 |
| Wheels and Tires           | Tires                                                                     | Number                 | Front/Rear                |                | 2/2                  | 2/2                  |
|                            |                                                                           | Size                   | Front                     |                | 250-15-16PR          | 250-15-16PR          |
|                            |                                                                           |                        | Rear                      |                | 7.00-12-12PR         | 7.00-12-12PR         |
|                            | Wheelbase                                                                 |                        |                           | mm             | 1900                 | 1900                 |
|                            | Tread                                                                     |                        | Front                     | mm             | 1115                 | 1115                 |
|                            |                                                                           |                        | Rear                      | mm             | 1100                 | 1100                 |
|                            | Backrest Height                                                           |                        |                           | mm             | 1220                 | 1220                 |
|                            | Overhead Guard Clearance                                                  |                        |                           | mm             | 1065                 | 1065                 |
|                            | Counterweight Height                                                      |                        |                           | mm             | 1300                 | 1300                 |
|                            | Drawbar Pin Center Height                                                 |                        |                           | mm             | 420                  | 420                  |
|                            | Step Height                                                               |                        |                           | mm             | 440                  | 440                  |
|                            | Floor Height                                                              |                        |                           | mm             | 760                  | 760                  |
|                            | Underclearance (Full load)                                                | Min. <Mast>            |                           | mm             | 120                  | 120                  |
|                            |                                                                           | Center of Wheelbase    |                           | mm             | 200                  | 200                  |
|                            | Grade Clearance                                                           |                        | Frame/Counterweight       | % (tanθ)       | 50/61                | 50/61                |
|                            | Brake                                                                     | Service (Foot)         |                           |                | Hydraulic            | Hydraulic            |
|                            |                                                                           | Parking                |                           |                | Hand                 | Hand                 |
| Drive Unit and Control     | Battery                                                                   | Voltage/Capacity (5HR) |                           | V/AH           | 12/48                | 12/64                |
|                            | Internal Combustion Engine                                                | Make/Model             |                           |                | TOYOTA 1FS           | TOYOTA 14Z- II       |
|                            |                                                                           | Rated Power/r.p.m.     |                           | kW (JIS ps)    | 65/2350 (88/2350)    | 56/2100 (76/2100)    |
|                            |                                                                           | Rated Torque/r.p.m.    |                           | N-m (JIS kg-m) | 276/1600 (28.1/1600) | 269/1600 (27.4/1600) |
|                            |                                                                           | Number of Cylinder     |                           |                | 4                    | 6                    |
|                            |                                                                           | Piston Displacement    |                           | cc             | 3685                 | 5204                 |
|                            |                                                                           | Fuel Tank Capacity     |                           | liter          | 90                   | 90                   |
| Transmission               | Type                                                                      |                        |                           | Powershift     | Powershift           |                      |
|                            | Stage                                                                     | FWD/RVS                |                           | 1/1            | 1/1                  |                      |
| Operating Pressure         |                                                                           | For Attachments        | Mpa (kg/cm²)              | 18.1(185)      | 18.1(185)            |                      |

NOTE: \* Computed values.  
[ ] for 500 mm load center.

## DIMENSIONAL DRAWINGS



## SPECIAL TREAD

| Front Tire Single/Dual | Single      | Single | Dual         | Dual    |
|------------------------|-------------|--------|--------------|---------|
| Front Tire Size        | 250-15-16PR | 250-15 | 28x8-15-12PR | 7.00-15 |
| Overall Width          | mm          | 1350   | 1690         | 1690    |
| Tread, Front           | mm          | 1115   | 1260         | 1260    |

## UNDERCLEARANCE

|                                 |     |
|---------------------------------|-----|
| Mast (Full Load)                | 120 |
| Drive Axle (Full Load)          | 170 |
| Steer Axle (No Load)            | 210 |
| Center of Wheelbase (Full Load) | 200 |
| Counterweight (No Load)         | 200 |

## RATED CAPACITIES

Unit: kg (W)

### V, FV Mast (PN or PSC)

| A (mm) | 3000   | 3300   | 3500   | 3700   | 4000   | 4500   | 5000   |
|--------|--------|--------|--------|--------|--------|--------|--------|
| [500]  | [4000] | [4000] | [4000] | [4000] | [4000] | [4000] | [3800] |
| 600    | 3500   | 3500   | 3500   | 3500   | 3500   | 3500   | 3500   |
| 700    | 3210   | 3210   | 3210   | 3210   | 3210   | 3210   | 3210   |
| 760    | 3060   | 3060   | 3060   | 3060   | 3060   | 3060   | 3060   |
| 800    | 2960   | 2960   | 2960   | 2960   | 2960   | 2960   | 2960   |
| 900    | 2750   | 2750   | 2750   | 2750   | 2750   | 2750   | 2750   |
| 1000   | 2570   | 2570   | 2570   | 2570   | 2570   | 2570   | 2570   |
| 1100   | 2410   | 2410   | 2410   | 2410   | 2410   | 2410   | 2410   |
| 1200   | 2270   | 2270   | 2270   | 2270   | 2270   | 2270   | 2270   |
| 1300   | 2140   | 2140   | 2140   | 2140   | 2140   | 2140   | 2140   |
| 1400   | 2030   | 2030   | 2030   | 2030   | 2030   | 2030   | 2030   |
| 1500   | 1930   | 1930   | 1930   | 1930   | 1930   | 1930   | 1930   |

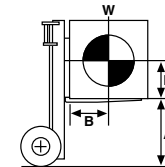
[ ] for 500 mm load center.

### FSV Mast (PN or PSC)

| A (mm) | 4000   | 4300   | 4500   | 4700   | 5000   | 5500   | 6000   | 6500   | 7000  |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| [500]  | [4000] | [3800] | [3700] | [3700] | [3600] | [3000] | [2200] | [1300] | [700] |
| 600    | 3500   | 3500   | 3500   | 3500   | 3400   | 2800   | 2100   | 1300   | 700   |
| 700    | 3220   | 3220   | 3220   | 3220   | 3120   | 2570   | 1930   | 1190   | 640   |
| 760    | 3070   | 3070   | 3070   | 3070   | 2980   | 2450   | 1840   | 1140   | 610   |
| 800    | 2980   | 2980   | 2980   | 2980   | 2890   | 2380   | 1790   | 1110   | 600   |
| 900    | 2770   | 2770   | 2770   | 2770   | 2690   | 2210   | 1660   | 1030   | 550   |
| 1000   | 2590   | 2590   | 2590   | 2590   | 2510   | 2070   | 1550   | 960    | 520   |
| 1100   | 2430   | 2430   | 2430   | 2430   | 2360   | 1940   | 1460   | 900    | 490   |
| 1200   | 2290   | 2290   | 2290   | 2290   | 2220   | 1830   | 1370   | 850    | 460   |
| 1300   | 2160   | 2160   | 2160   | 2160   | 2100   | 1730   | 1300   | 800    | 430   |
| 1400   | 2050   | 2050   | 2050   | 2050   | 1990   | 1640   | 1230   | 760    | 410   |
| 1500   | 1950   | 1950   | 1950   | 1950   | 1900   | 1560   | 1170   | 730    | 390   |

< > for dual tire models (PN or PSC)

[ ] for 500 mm load center.



A: Max. Fork Height  
B: Load Center  
W: Capacity

## MAST SPECIFICATIONS & RATED CAPACITIES

| Mast Type                                          | Maximum Fork Height | Overall Height |                       |                             | Free Lift             |                             | Single Tire |     |                                     | Dual Tire  |     |                                     |
|----------------------------------------------------|---------------------|----------------|-----------------------|-----------------------------|-----------------------|-----------------------------|-------------|-----|-------------------------------------|------------|-----|-------------------------------------|
|                                                    |                     | Lowered        | Extended              |                             | Without Load Backrest | With Standard Load Backrest | Tilt Range  |     | Load Capacity at 600 mm [500 mm] LC | Tilt Range |     | Load Capacity at 600 mm [500 mm] LC |
|                                                    |                     |                | Without Load Backrest | With Standard Load Backrest |                       |                             |             |     |                                     |            |     |                                     |
|                                                    |                     |                |                       |                             |                       |                             | FWD         | BWD | FWD                                 | BWD        | FWD | BWD                                 |
|                                                    | mm                  | mm             | mm                    | mm                          | mm                    | mm                          | deg         | deg | kg                                  | deg        | deg | kg                                  |
| Wide Visible Mast (V)                              | 3000                | 2110           | 3850                  | 4270                        | 110                   | 110                         | 6           | 12  | 3500 [4000]                         | 6          | 12  | 3500 [4000]                         |
|                                                    | 3300                | 2290           | 4150                  | 4570                        | 110                   | 110                         | 6           | 12  | 3500 [4000]                         | 6          | 12  | 3500 [4000]                         |
|                                                    | 3500                | 2390           | 4350                  | 4770                        | 110                   | 110                         | 6           | 12  | 3500 [4000]                         | 6          | 12  | 3500 [4000]                         |
|                                                    | 3700                | 2490           | 4550                  | 4970                        | 110                   | 110                         | 6           | 12  | 3500 [4000]                         | 6          | 12  | 3500 [4000]                         |
|                                                    | 4000                | 2740           | 4850                  | 5270                        | 110                   | 110                         | 6           | 12  | 3500 [4000]                         | 6          | 12  | 3500 [4000]                         |
|                                                    | 4500                | 2990           | 5350                  | 5770                        | 110                   | 110                         | 6           | 12  | 3500 [4000]                         | 6          | 12  | 3500 [4000]                         |
|                                                    | 5000                | 3240           | 5850                  | 6270                        | 110                   | 110                         | 6           | 6   | 3500 [3800]                         | 6          | 12  | 3500 [3800]                         |
| Wide Visible Full-Free Lift Two-Stage Mast (FV)    | 3000                | 2110           | 3880                  | 4270                        | 1280                  | 890                         | 6           | 12  | 3500 [4000]                         | 6          | 12  | 3500 [4000]                         |
|                                                    | 3300                | 2290           | 4180                  | 4570                        | 1460                  | 1070                        | 6           | 12  | 3500 [4000]                         | 6          | 12  | 3500 [4000]                         |
|                                                    | 3500                | 2390           | 4380                  | 4770                        | 1560                  | 1170                        | 6           | 12  | 3500 [4000]                         | 6          | 12  | 3500 [4000]                         |
|                                                    | 3700                | 2490           | 4580                  | 4970                        | 1660                  | 1270                        | 6           | 12  | 3500 [4000]                         | 6          | 12  | 3500 [4000]                         |
|                                                    | 4000                | 2740           | 4880                  | 5270                        | 1910                  | 1520                        | 6           | 12  | 3500 [4000]                         | 6          | 12  | 3500 [4000]                         |
|                                                    |                     |                |                       |                             |                       |                             |             |     |                                     |            |     |                                     |
| Wide Visible Full-Free Lift Three-Stage Mast (FSV) | 4000                | 2110           | 4880                  | 5270                        | 1280                  | 890                         | 6           | 6   | 3500 [4000]                         | 6          | 6   | 3500 [4000]                         |
|                                                    | 4300                | 2160           | 5180                  | 5570                        | 1330                  | 940                         | 6           | 6   | 3500 [3800]                         | 6          | 6   | 3500 [3800]                         |
|                                                    | 4500                | 2225           | 5380                  | 5770                        | 1395                  | 1005                        | 6           | 6   | 3500 [3700]                         | 6          | 6   | 3500 [3700]                         |
|                                                    | 4700                | 2290           | 5580                  | 5970                        | 1460                  | 1070                        | 6           | 6   | 3500 [3700]                         | 6          | 6   | 3500 [3700]                         |
|                                                    | 5000                | 2390           | 5880                  | 6270                        | 1560                  | 1170                        | 6           | 6   | 3400 [3600]                         | 6          | 6   | 3400 [3600]                         |
|                                                    | 5500                | 2540           | 6380                  | 6770                        | 1710                  | 1320                        | 6           | 6   | 2800 [3000]                         | 6          | 6   | 3300 [3500]                         |
|                                                    | 6000                | 2740           | 6880                  | 7270                        | 1910                  | 1520                        | 6           | 6   | 2100 [2200]                         | 6          | 6   | 3200 [3400]                         |
|                                                    | 6500                | 2990           | 7380                  | 7770                        | 2160                  | 1770                        | 6           | 6   | 1300 [1300]                         | 6          | 6   | 2500 [2500]                         |
|                                                    | 7000                | 3240           | 7880                  | 8270                        | 2410                  | 2020                        | 6           | 6   | 700 [700]                           | 6          | 6   | 1600 [1600]                         |
|                                                    |                     |                |                       |                             |                       |                             |             |     |                                     |            |     |                                     |

NOTE: Height of standard load backrest is 1220 mm.

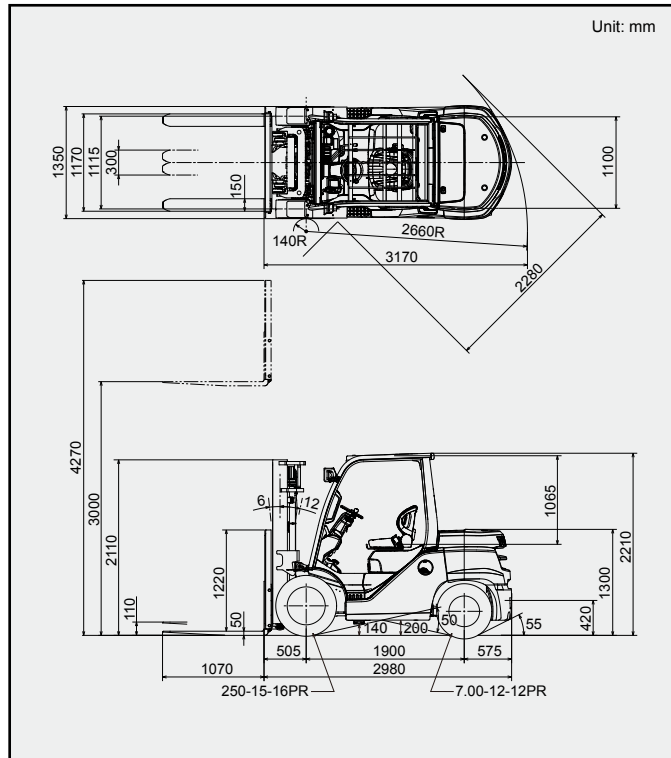
# 4,000 kg

## MAIN VEHICLE SPECIFICATIONS

|                            |                                                                           |                        |                           |                |                      |                      |
|----------------------------|---------------------------------------------------------------------------|------------------------|---------------------------|----------------|----------------------|----------------------|
| Characteristics            | Manufacturer                                                              |                        |                           |                | TOYOTA               | TOYOTA               |
|                            | Model                                                                     |                        |                           |                | 8FG40N               | 8FD40N               |
|                            | Load Capacity                                                             |                        |                           | kg             | 4000 [4500]          | 4000 [4500]          |
|                            | Load Center                                                               |                        |                           | mm             | 600 [500]            | 600 [500]            |
|                            | Power Type                                                                |                        |                           |                | Gasoline             | Diesel               |
|                            | Operator Position                                                         |                        |                           |                | Rider Seated         | Rider Seated         |
|                            | Tire Type                                                                 |                        | Front/Rear                |                | Pneumatic            | Pneumatic            |
| Wheels (x = driven)        |                                                                           | Front/Rear             |                           | 2x/2           | 2x/2                 |                      |
| Dimensions                 | Maximum Fork Height (MFH)                                                 |                        |                           | mm             | 3000                 | 3000                 |
|                            | Free Lift                                                                 |                        |                           | mm             | 110                  | 110                  |
|                            | Fork Size                                                                 | T x W x L              | mm                        | 50/150/1070    | 50/150/1070          |                      |
|                            | Fork Spread (Outside)                                                     | MAX./MIN.              | mm                        | 1170/300       | 1170/300             |                      |
|                            | Tilt Range                                                                | FWD/BWD                | deg                       | 6/12           | 6/12                 |                      |
|                            | Length to Fork Face                                                       |                        | mm                        | 2980           | 2980                 |                      |
|                            | Overall Width                                                             |                        | mm                        | 1350           | 1350                 |                      |
|                            | Mast Lowered Height                                                       |                        | mm                        | 2110           | 2110                 |                      |
|                            | Mast Extended Height                                                      |                        | mm                        | 4270           | 4270                 |                      |
|                            | Overhead Guard Height                                                     |                        | mm                        | 2210           | 2210                 |                      |
|                            | Turning Radius (Outside)                                                  |                        | mm                        | 2660           | 2660                 |                      |
|                            | Load Distance (Centerline of front axle to front face of forks)           |                        | mm                        | 505            | 505                  |                      |
|                            | Rear Overhang                                                             |                        | mm                        | 575            | 575                  |                      |
|                            | Basic Right Angle Stacking Aisle Width<br>(Add load length and clearance) |                        | mm                        | 3170           | 3170                 |                      |
|                            | Performance                                                               | Speeds                 | Travel, Max.<br>(FWD/RVS) | Full Load      | km/h                 | 23.0/23.0            |
| No Load                    |                                                                           |                        |                           | km/h           | 24.0/24.0            | 23.0/23.0            |
| Lifting                    |                                                                           |                        | Full Load                 | mm/sec         | 525                  | 510                  |
|                            |                                                                           |                        | No Load                   | mm/sec         | 550                  | 550                  |
| Lowering                   |                                                                           |                        | Full Load                 | mm/sec         | 530                  | 530                  |
|                            |                                                                           |                        | No Load                   | mm/sec         | 480                  | 480                  |
| Max. Drawbar Pull          |                                                                           | Full Load              | N <kg>                    | 36000<3670>    | 36000<3670>          |                      |
|                            |                                                                           | No Load                | N <kg>                    | 13000<1270>    | 13000<1270>          |                      |
| Gradeability at 1.5 km/h * |                                                                           | Full Load              | % (tanθ)                  | 32             | 29                   |                      |
| Max. Gradeability *        |                                                                           | Full Load              | % (tanθ)                  | 42             | 38                   |                      |
|                            |                                                                           | No Load                | % (tanθ)                  | 21             | 21                   |                      |
| Weight                     | Total Weight                                                              |                        |                           | kg             | 6070                 | 6170                 |
|                            | Weight Distribution                                                       | Full Load              | Front                     | kg             | 8810 [9360]          | 8850 [9400]          |
|                            |                                                                           |                        | Rear                      | kg             | 1260 [1210]          | 1320 [1270]          |
|                            |                                                                           | No Load                | Front                     | kg             | 2480                 | 2520                 |
|                            |                                                                           |                        | Rear                      | kg             | 3590                 | 3650                 |
| Wheels and Tires           | Tires                                                                     | Number                 | Front/Rear                |                | 2/2                  | 2/2                  |
|                            |                                                                           | Size                   | Front                     |                | 250-15-16PR          | 250-15-16PR          |
|                            |                                                                           |                        | Rear                      |                | 7.00-12-12PR         | 7.00-12-12PR         |
|                            | Wheelbase                                                                 |                        | mm                        | 1900           | 1900                 |                      |
|                            | Tread                                                                     | Front                  | mm                        | 1115           | 1115                 |                      |
|                            |                                                                           | Rear                   | mm                        | 1100           | 1100                 |                      |
|                            | Backrest Height                                                           |                        | mm                        | 1220           | 1220                 |                      |
|                            | Overhead Guard Clearance                                                  |                        | mm                        | 1065           | 1065                 |                      |
|                            | Counterweight Height                                                      |                        | mm                        | 1300           | 1300                 |                      |
|                            | Drawbar Pin Center Height                                                 |                        | mm                        | 420            | 420                  |                      |
|                            | Step Height                                                               |                        | mm                        | 440            | 440                  |                      |
|                            | Floor Height                                                              |                        | mm                        | 760            | 760                  |                      |
|                            | Underclearance (Full load)                                                | Min. <Mast>            | mm                        | 120            | 120                  |                      |
|                            |                                                                           | Center of Wheelbase    | mm                        | 200            | 200                  |                      |
|                            | Grade Clearance                                                           |                        | Frame/Counterweight       | % (tanθ)       | 50/55                | 50/55                |
| Brake                      | Service (Foot)                                                            |                        | Hydraulic                 | Hydraulic      |                      |                      |
|                            | Parking                                                                   |                        | Hand                      | Hand           |                      |                      |
| Drive Unit and Control     | Battery                                                                   | Voltage/Capacity (5HR) |                           | V/AH           | 12/48                | 12/64                |
|                            | Internal Combustion Engine                                                | Make/Model             |                           |                | TOYOTA 1FS           | TOYOTA 14Z- II       |
|                            |                                                                           | Rated Power/r.p.m.     |                           | kW (JIS ps)    | 65/2350 (88/2350)    | 56/2100 (76/2100)    |
|                            |                                                                           | Rated Torque/r.p.m.    |                           | N-m (JIS kg-m) | 276/1600 (28.1/1600) | 269/1600 (27.4/1600) |
|                            |                                                                           | Number of Cylinder     |                           |                | 4                    | 6                    |
|                            |                                                                           | Piston Displacement    |                           | cc             | 3685                 | 5204                 |
|                            |                                                                           | Fuel Tank Capacity     |                           | liter          | 90                   | 90                   |
| Transmission               | Type                                                                      |                        |                           | Powershift     | Powershift           |                      |
|                            | Stage                                                                     | FWD/RVS                |                           | 1/1            | 1/1                  |                      |
| Operating Pressure         |                                                                           | For Attachments        | Mpa (kg/cm²)              | 18.1(185)      | 18.1(185)            |                      |

NOTE: \* Computed values.  
[ ] for 500 mm load center.

## DIMENSIONAL DRAWINGS



## SPECIAL TREAD

| Front Tire Single/Dual | Single      | Single | Dual         | Dual    |
|------------------------|-------------|--------|--------------|---------|
| Front Tire Size        | 250-15-16PR | 250-15 | 28x8-15-12PR | 7.00-15 |
| Overall Width          | mm          | 1350   | 1350         | 1690    |
| Tread, Front           | mm          | 1115   | 1115         | 1260    |

## UNDERCLEARANCE

|                                      |     |
|--------------------------------------|-----|
| Mast (Full Load).....                | 120 |
| Drive Axle (Full Load).....          | 170 |
| Steer Axle (No Load).....            | 210 |
| Center of Wheelbase (Full Load)..... | 200 |
| Counterweight (No Load).....         | 200 |

## MAST SPECIFICATIONS & RATED CAPACITIES

| Mast Type                                          | Maximum Fork Height | Overall Height |                       |                             | Free Lift             |                             | Single Tire |             |                                                  | Dual Tire  |             |                                                  |
|----------------------------------------------------|---------------------|----------------|-----------------------|-----------------------------|-----------------------|-----------------------------|-------------|-------------|--------------------------------------------------|------------|-------------|--------------------------------------------------|
|                                                    |                     | Lowered        | Extended              |                             | Without Load Backrest | With Standard Load Backrest | Tilt Range  |             | Load Capacity at 600 mm [500 mm] LC              | Tilt Range |             | Load Capacity at 600 mm [500 mm] LC              |
|                                                    |                     |                | Without Load Backrest | With Standard Load Backrest |                       |                             |             |             |                                                  |            |             |                                                  |
|                                                    |                     |                |                       |                             |                       |                             | FWD         | BWD         | Pneumatic Tire/<br>Pneumatic-Shaped Cushion Tire | FWD        | BWD         | Pneumatic Tire/<br>Pneumatic-Shaped Cushion Tire |
|                                                    | mm                  | mm             | mm                    | mm                          | mm                    | mm                          | deg         | deg         | kg                                               | deg        | deg         | kg                                               |
| Wide Visible Mast (V)                              | 3000                | 2110           | 3850                  | 4270                        | 110                   | 110                         | 6           | 12          | 4000 [4500]                                      | 6          | 12          | 4000 [4500]                                      |
|                                                    | 3300                | 2290           | 4150                  | 4570                        | 110                   | 110                         | 6           | 12          | 4000 [4500]                                      | 6          | 12          | 4000 [4500]                                      |
|                                                    | 3500                | 2390           | 4350                  | 4770                        | 110                   | 110                         | 6           | 12          | 4000 [4500]                                      | 6          | 12          | 4000 [4500]                                      |
|                                                    | 3700                | 2490           | 4550                  | 4970                        | 110                   | 110                         | 6           | 12          | 4000 [4500]                                      | 6          | 12          | 4000 [4500]                                      |
|                                                    | 4000                | 2740           | 4850                  | 5270                        | 110                   | 110                         | 6           | 12          | 4000 [4500]                                      | 6          | 12          | 4000 [4500]                                      |
|                                                    | 4500                | 2990           | 5350                  | 5770                        | 110                   | 110                         | 6           | 6           | 4000 [4500]                                      | 6          | 12          | 4000 [4500]                                      |
|                                                    | 5000                | 3240           | 5850                  | 6270                        | 110                   | 110                         | 6           | 6           | 4000 [4200]                                      | 6          | 12          | 4000 [4400]                                      |
|                                                    | 5500                | 3540           | 6350                  | 6770                        | 110                   | 110                         | 6           | 6           | 3250 [3250]                                      | 6          | 6           | 3800 [4100]                                      |
| 6000                                               | 3790                | 6850           | 7270                  | 110                         | 110                   | 6                           | 6           | 2500 [2500] | 6                                                | 6          | 3200 [3300] |                                                  |
| Wide Visible Full-Free Lift Two-Stage Mast (FV)    | 3000                | 2110           | 3880                  | 4270                        | 1280                  | 890                         | 6           | 12          | 4000 [4500]                                      | 6          | 12          | 4000 [4500]                                      |
|                                                    | 3300                | 2290           | 4180                  | 4570                        | 1460                  | 1070                        | 6           | 12          | 4000 [4500]                                      | 6          | 12          | 4000 [4500]                                      |
|                                                    | 3500                | 2390           | 4380                  | 4770                        | 1560                  | 1170                        | 6           | 12          | 4000 [4500]                                      | 6          | 12          | 4000 [4500]                                      |
|                                                    | 3700                | 2490           | 4580                  | 4970                        | 1660                  | 1270                        | 6           | 12          | 4000 [4500]                                      | 6          | 12          | 4000 [4500]                                      |
| 4000                                               | 2740                | 4880           | 5270                  | 1910                        | 1520                  | 6                           | 12          | 4000 [4500] | 6                                                | 12         | 4000 [4500] |                                                  |
| Wide Visible Full-Free Lift Three-Stage Mast (FSV) | 4000                | 2110           | 4880                  | 5270                        | 1280                  | 890                         | 6           | 6           | 4000 [4500]                                      | 6          | 6           | 4000 [4500]                                      |
|                                                    | 4300                | 2160           | 5180                  | 5570                        | 1330                  | 940                         | 6           | 6           | 4000 [4500]                                      | 6          | 6           | 4000 [4500]                                      |
|                                                    | 4500                | 2225           | 5380                  | 5770                        | 1395                  | 1005                        | 6           | 6           | 4000 [4500]                                      | 6          | 6           | 4000 [4500]                                      |
|                                                    | 4700                | 2290           | 5580                  | 5970                        | 1460                  | 1070                        | 6           | 6           | 4000 [4500]                                      | 6          | 6           | 4000 [4500]                                      |
|                                                    | 5000                | 2390           | 5880                  | 6270                        | 1560                  | 1170                        | 6           | 6           | 4000 [4400]                                      | 6          | 6           | 4000 [4400]                                      |
|                                                    | 5500                | 2540           | 6380                  | 6770                        | 1710                  | 1320                        | 6           | 6           | 3500 [3500]                                      | 6          | 6           | 4000 [4200]                                      |
|                                                    | 6000                | 2740           | 6880                  | 7270                        | 1910                  | 1520                        | 6           | 6           | 2700 [2700]                                      | 6          | 6           | 3300 [3300]                                      |
|                                                    | 6500                | 2990           | 7380                  | 7770                        | 2160                  | 1770                        | 6           | 6           | 1800 [1800]                                      | 6          | 6           | 2500 [2500]                                      |
|                                                    | 7000                | 3240           | 7880                  | 8270                        | 2410                  | 2020                        | 6           | 6           | 1000 [1000]                                      | 6          | 6           | 1800 [1800]                                      |

NOTE: Height of standard load backrest is 1220 mm.

## RATED CAPACITIES

Unit: kg (W)

### V, FV Mast (PN or PSC)

| A (mm) | 3000   | 3300   | 3500   | 3700   | 4000   | 4500   | 5000   | 5500   | 6000   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| [500]  | [4500] | [4500] | [4500] | [4500] | [4500] | [4500] | [4200] | [3250] | [2500] |
| 600    | 4000   | 4000   | 4000   | 4000   | 4000   | 4000   | 4000   | 3250   | 2500   |
| 700    | 3670   | 3670   | 3670   | 3670   | 3670   | 3670   | 3670   | 2980   | 2290   |
| 760    | 3490   | 3490   | 3490   | 3490   | 3490   | 3490   | 3490   | 2840   | 2180   |
| 800    | 3390   | 3390   | 3390   | 3390   | 3390   | 3390   | 3390   | 2750   | 2120   |
| 900    | 3150   | 3150   | 3150   | 3150   | 3150   | 3150   | 3150   | 2560   | 1970   |
| 1000   | 2940   | 2940   | 2940   | 2940   | 2940   | 2940   | 2940   | 2390   | 1840   |
| 1100   | 2750   | 2750   | 2750   | 2750   | 2750   | 2750   | 2750   | 2240   | 1720   |
| 1200   | 2590   | 2590   | 2590   | 2590   | 2590   | 2590   | 2590   | 2110   | 1620   |
| 1300   | 2450   | 2450   | 2450   | 2450   | 2450   | 2450   | 2450   | 1990   | 1530   |
| 1400   | 2320   | 2320   | 2320   | 2320   | 2320   | 2320   | 2320   | 1890   | 1450   |
| 1500   | 2200   | 2200   | 2200   | 2200   | 2200   | 2200   | 2200   | 1790   | 1380   |

< > for dual tire models (PN or PSC)

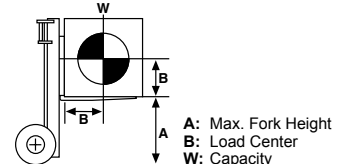
[ ] for 500 mm load center.

### FSV Mast (PN or PSC)

| A (mm) | 4000   | 4300   | 4500   | 4700   | 5000   | 5500   | 6000   | 6500   | 7000   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| [500]  | [4500] | [4500] | [4500] | [4500] | [4500] | [4200] | [3500] | [1800] | [1000] |
| 600    | 4000   | 4000   | 4000   | 4000   | 4000   | 3500   | 2700   | 1800   | 1000   |
| 700    | 3680   | 3680   | 3680   | 3680   | 3680   | 3220   | 2480   | 1650   | 920    |
| 760    | 3510   | 3510   | 3510   | 3510   | 3510   | 3070   | 2370   | 1580   | 880    |
| 800    | 3400   | 3400   | 3400   | 3400   | 3400   | 2980   | 2300   | 1530   | 850    |
| 900    | 3160   | 3160   | 3160   | 3160   | 3160   | 2770   | 2140   | 1420   | 790    |
| 1000   | 2960   | 2960   | 2960   | 2960   | 2960   | 2590   | 2000   | 1330   | 740    |
| 1100   | 2780   | 2780   | 2780   | 2780   | 2780   | 2430   | 1870   | 1250   | 690    |
| 1200   | 2620   | 2620   | 2620   | 2620   | 2620   | 2290   | 1770   | 1180   | 650    |
| 1300   | 2470   | 2470   | 2470   | 2470   | 2470   | 2160   | 1670   | 1100   | 620    |
| 1400   | 2350   | 2350   | 2350   | 2350   | 2350   | 2050   | 1580   | 1060   | 590    |
| 1500   | 2230   | 2230   | 2230   | 2230   | 2230   | 1950   | 1510   | 1000   | 560    |

< > for dual tire models (PN or PSC)

[ ] for 500 mm load center.



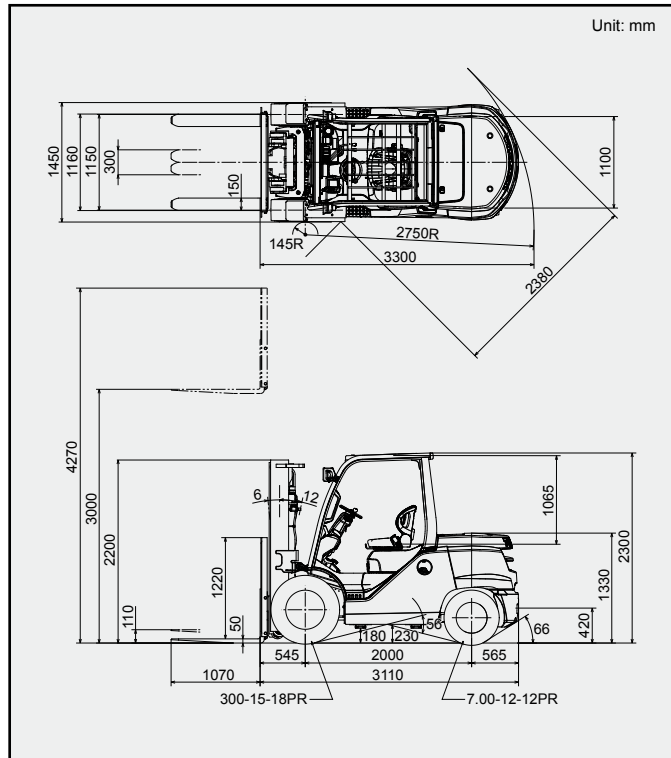
# 4,500 kg

## MAIN VEHICLE SPECIFICATIONS

|                            |                                                                        |                        |                        |                |                      |                      |
|----------------------------|------------------------------------------------------------------------|------------------------|------------------------|----------------|----------------------|----------------------|
| Characteristics            | Manufacturer                                                           |                        |                        |                | TOYOTA               | TOYOTA               |
|                            | Model                                                                  |                        |                        |                | 8FG45N               | 8FD45N               |
|                            | Load Capacity                                                          |                        |                        | kg             | 4500 [4990]          | 4500 [4990]          |
|                            | Load Center                                                            |                        |                        | mm             | 600 [500]            | 600 [500]            |
|                            | Power Type                                                             |                        |                        |                | Gasoline             | Diesel               |
|                            | Operator Position                                                      |                        |                        |                | Rider Seated         | Rider Seated         |
|                            | Tire Type                                                              |                        | Front/Rear             |                | Pneumatic            | Pneumatic            |
| Wheels (x = driven)        |                                                                        | Front/Rear             |                        | 2x/2           | 2x/2                 |                      |
| Dimensions                 | Maximum Fork Height (MFH)                                              |                        |                        | mm             | 3000                 | 3000                 |
|                            | Free Lift                                                              |                        |                        | mm             | 110                  | 110                  |
|                            | Fork Size                                                              | T x W x L              | mm                     | 50/150/1070    | 50/150/1070          |                      |
|                            | Fork Spread (Outside)                                                  | MAX./MIN.              | mm                     | 1160/300       | 1160/300             |                      |
|                            | Tilt Range                                                             | FWD/BWD                | deg                    | 6/12           | 6/12                 |                      |
|                            | Length to Fork Face                                                    |                        | mm                     | 3110           | 3110                 |                      |
|                            | Overall Width                                                          |                        | mm                     | 1450           | 1450                 |                      |
|                            | Mast Lowered Height                                                    |                        | mm                     | 2200           | 2200                 |                      |
|                            | Mast Extended Height                                                   |                        | mm                     | 4270           | 4270                 |                      |
|                            | Overhead Guard Height                                                  |                        | mm                     | 2300           | 2300                 |                      |
|                            | Turning Radius (Outside)                                               |                        | mm                     | 2750           | 2750                 |                      |
|                            | Load Distance (Centerline of front axle to front face of forks)        |                        | mm                     | 545            | 545                  |                      |
|                            | Rear Overhang                                                          |                        | mm                     | 565            | 565                  |                      |
|                            | Basic Right Angle Stacking Aisle Width (Add load length and clearance) |                        | mm                     | 3300           | 3300                 |                      |
|                            | Performance                                                            | Speeds                 | Travel, Max. (FWD/RVS) | Full Load      | km/h                 | 23.5/23.5            |
| No Load                    |                                                                        |                        |                        | km/h           | 24.0/24.0            | 23.5/23.5            |
| Lifting                    |                                                                        |                        | Full Load              | mm/sec         | 480                  | 480                  |
|                            |                                                                        |                        | No Load                | mm/sec         | 520                  | 520                  |
| Lowering                   |                                                                        |                        | Full Load              | mm/sec         | 540                  | 540                  |
|                            |                                                                        |                        | No Load                | mm/sec         | 490                  | 490                  |
| Max. Drawbar Pull          |                                                                        | Full Load              | N <kg>                 | 36000<3670>    | 37000<3780>          |                      |
|                            |                                                                        | No Load                | N <kg>                 | 15000<1530>    | 15000<1530>          |                      |
| Gradeability at 1.5 km/h * |                                                                        | Full Load              | % (tanθ)               | 30             | 27                   |                      |
| Max. Gradeability *        |                                                                        | Full Load              | % (tanθ)               | 38             | 35                   |                      |
|                            |                                                                        | No Load                | % (tanθ)               | 22             | 22                   |                      |
| Weight                     | Total Weight                                                           |                        |                        | kg             | 6610                 | 6710                 |
|                            | Weight Distribution                                                    | Full Load              | Front                  | kg             | 9900 [10430]         | 9940 [10500]         |
|                            |                                                                        |                        | Rear                   | kg             | 1210 [1170]          | 1270 [1200]          |
|                            |                                                                        | No Load                | Front                  | kg             | 2830                 | 2870                 |
|                            |                                                                        |                        | Rear                   | kg             | 3780                 | 3840                 |
| Wheels and Tires           | Tires                                                                  | Number                 | Front/Rear             |                | 2/2                  | 2/2                  |
|                            |                                                                        | Size                   | Front                  |                | 300-15-18PR          | 300-15-18PR          |
|                            |                                                                        |                        | Rear                   |                | 7.00-12-12PR         | 7.00-12-12PR         |
|                            | Wheelbase                                                              |                        |                        | mm             | 2000                 | 2000                 |
|                            | Tread                                                                  | Front                  | mm                     | 1150           | 1150                 |                      |
|                            |                                                                        | Rear                   | mm                     | 1100           | 1100                 |                      |
|                            | Backrest Height                                                        |                        |                        | mm             | 1220                 | 1220                 |
|                            | Overhead Guard Clearance                                               |                        |                        | mm             | 1065                 | 1065                 |
|                            | Counterweight Height                                                   |                        |                        | mm             | 1330                 | 1330                 |
|                            | Drawbar Pin Center Height                                              |                        |                        | mm             | 420                  | 420                  |
|                            | Step Height                                                            |                        |                        | mm             | 540                  | 540                  |
|                            | Floor Height                                                           |                        |                        | mm             | 855                  | 855                  |
|                            | Underclearance (Full load)                                             | Min. <Mast>            |                        | mm             | 120                  | 120                  |
|                            |                                                                        | Center of Wheelbase    |                        | mm             | 230                  | 230                  |
|                            | Grade Clearance                                                        |                        | Frame/Counterweight    | % (tanθ)       | 56/66                | 56/66                |
|                            | Brake                                                                  | Service (Foot)         |                        |                | Hydraulic            | Hydraulic            |
|                            |                                                                        | Parking                |                        |                | Hand                 | Hand                 |
| Drive Unit and Control     | Battery                                                                | Voltage/Capacity (5HR) |                        | V/AH           | 12/48                | 12/64                |
|                            | Internal Combustion Engine                                             | Make/Model             |                        |                | TOYOTA 1FS           | TOYOTA 14Z- II       |
|                            |                                                                        | Rated Power/r.p.m.     |                        | kW (JIS ps)    | 65/2350 (88/2350)    | 56/2100 (76/2100)    |
|                            |                                                                        | Rated Torque/r.p.m.    |                        | N-m (JIS kg-m) | 276/1600 (28.1/1600) | 269/1600 (27.4/1600) |
|                            |                                                                        | Number of Cylinder     |                        |                | 4                    | 6                    |
|                            |                                                                        | Piston Displacement    |                        | cc             | 3685                 | 5204                 |
|                            |                                                                        | Fuel Tank Capacity     |                        | liter          | 120                  | 120                  |
| Transmission               | Type                                                                   |                        |                        | Powershift     | Powershift           |                      |
|                            | Stage                                                                  | FWD/RVS                |                        | 1/1            | 1/1                  |                      |
| Operating Pressure         |                                                                        | For Attachments        | Mpa (kg/cm²)           | 18.1(185)      | 18.1(185)            |                      |

NOTE: \* Computed values.  
[ ] for 500 mm load center.

## DIMENSIONAL DRAWINGS



## SPECIAL TREAD

| Front Tire Single/Dual | Single      | Single | Dual         | Dual    |
|------------------------|-------------|--------|--------------|---------|
| Front Tire Size        | 300-15-18PR | 300-15 | 8.25-15-14PR | 8.25-15 |
| Overall Width          | mm          | 1450   | 1890         | 1890    |
| Tread, Front           | mm          | 1150   | 1385         | 1385    |

## UNDERCLEARANCE

|                                      |     |
|--------------------------------------|-----|
| Mast (Full Load).....                | 120 |
| Drive Axle (Full Load).....          | 215 |
| Steer Axle (No Load).....            | 210 |
| Center of Wheelbase (Full Load)..... | 230 |
| Counterweight (No Load).....         | 200 |

## RATED CAPACITIES

Unit: kg (W)

### V, FV Mast (PN or PSC)

| A (mm) | 3000   | 3300   | 3500   | 3700   | 4000   | 4500   | 5000             | 5500             |
|--------|--------|--------|--------|--------|--------|--------|------------------|------------------|
| [500]  | [5000] | [5000] | [5000] | [5000] | [5000] | [5000] | [4000]<br>[4600] | [3300]<br>[4200] |
| 600    | 4500   | 4500   | 4500   | 4500   | 4500   | 4500   | 4000<br>[4400]   | 3300<br>[4200]   |
| 700    | 4140   | 4140   | 4140   | 4140   | 4140   | 4140   | 3680<br>[4050]   | 3030<br>[3860]   |
| 760    | 3950   | 3950   | 3950   | 3950   | 3950   | 3950   | 3510<br>[3860]   | 2900<br>[3690]   |
| 800    | 3830   | 3830   | 3830   | 3830   | 3830   | 3830   | 3410<br>[3750]   | 2810<br>[3580]   |
| 900    | 3570   | 3570   | 3570   | 3570   | 3570   | 3570   | 3170<br>[3490]   | 2610<br>[3330]   |
| 1000   | 3330   | 3330   | 3330   | 3330   | 3330   | 3330   | 2960<br>[3260]   | 2450<br>[3110]   |
| 1100   | 3130   | 3130   | 3130   | 3130   | 3130   | 3130   | 2780<br>[3060]   | 2300<br>[2920]   |
| 1200   | 2950   | 2950   | 2950   | 2950   | 2950   | 2950   | 2620<br>[2890]   | 2170<br>[2760]   |
| 1300   | 2790   | 2790   | 2790   | 2790   | 2790   | 2790   | 2480<br>[2730]   | 2050<br>[2610]   |
| 1400   | 2650   | 2650   | 2650   | 2650   | 2650   | 2650   | 2350<br>[2590]   | 1940<br>[2470]   |
| 1500   | 2520   | 2520   | 2520   | 2520   | 2520   | 2520   | 2240<br>[2460]   | 1850<br>[2350]   |

< > for dual tire models (PN or PSC)

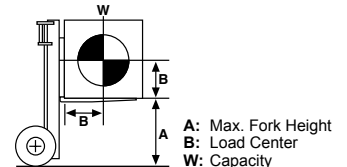
[ ] for 500 mm load center.

### FSV Mast (PN or PSC)

| A (mm) | 4000   | 4300   | 4500             | 4700             | 5000             | 5500             | 6000             | 6500             |
|--------|--------|--------|------------------|------------------|------------------|------------------|------------------|------------------|
| [500]  | [5000] | [4900] | [4500]<br>[4700] | [4500]<br>[4700] | [4000]<br>[4600] | [3000]<br>[4400] | [2300]<br>[4200] | [1500]<br>[2700] |
| 600    | 4500   | 4500   | 4200<br>[4400]   | 4200<br>[4400]   | 4000<br>[4300]   | 3000<br>[4100]   | 2300<br>[3900]   | 1500<br>[2700]   |
| 700    | 4150   | 4150   | 3870<br>[4050]   | 3870<br>[4050]   | 3690<br>[3960]   | 2760<br>[3780]   | 2120<br>[3590]   | 1380<br>[2490]   |
| 760    | 3960   | 3960   | 3700<br>[3870]   | 3700<br>[3870]   | 3520<br>[3780]   | 2640<br>[3610]   | 2020<br>[3430]   | 1320<br>[2380]   |
| 800    | 3850   | 3850   | 3590<br>[3760]   | 3590<br>[3760]   | 3420<br>[3670]   | 2560<br>[3500]   | 1970<br>[3330]   | 1280<br>[2310]   |
| 900    | 3580   | 3580   | 3350<br>[3510]   | 3350<br>[3510]   | 3190<br>[3430]   | 2390<br>[3270]   | 1830<br>[3110]   | 1190<br>[2150]   |
| 1000   | 3360   | 3360   | 3130<br>[3280]   | 3130<br>[3280]   | 2980<br>[3210]   | 2240<br>[3060]   | 1720<br>[2910]   | 1120<br>[2010]   |
| 1100   | 3160   | 3160   | 2950<br>[3090]   | 2950<br>[3090]   | 2810<br>[3020]   | 2100<br>[2880]   | 1610<br>[2740]   | 1050<br>[1890]   |
| 1200   | 2980   | 2980   | 2780<br>[2910]   | 2780<br>[2910]   | 2650<br>[2850]   | 1990<br>[2710]   | 1520<br>[2580]   | 990<br>[1790]    |
| 1300   | 2820   | 2820   | 2630<br>[2760]   | 2630<br>[2760]   | 2510<br>[2690]   | 1880<br>[2570]   | 1440<br>[2440]   | 940<br>[1690]    |
| 1400   | 2680   | 2680   | 2500<br>[2620]   | 2500<br>[2620]   | 2380<br>[2560]   | 1780<br>[2440]   | 1370<br>[2320]   | 890<br>[1610]    |
| 1500   | 2550   | 2550   | 2380<br>[2490]   | 2380<br>[2490]   | 2270<br>[2430]   | 1700<br>[2320]   | 1300<br>[2210]   | 850<br>[1530]    |

< > for dual tire models (PN or PSC)

[ ] for 500 mm load center.



## MAST SPECIFICATIONS & RATED CAPACITIES

| Mast Type                                          | Maximum Fork Height | Overall Height |                       |                             | Free Lift             |                             | Single Tire |                                     |             | Dual Tire                           |                                                  |             |
|----------------------------------------------------|---------------------|----------------|-----------------------|-----------------------------|-----------------------|-----------------------------|-------------|-------------------------------------|-------------|-------------------------------------|--------------------------------------------------|-------------|
|                                                    |                     | Lowered        | Extended              |                             | Without Load Backrest | With Standard Load Backrest | Tilt Range  | Load Capacity at 600 mm [500 mm] LC | Tilt Range  | Load Capacity at 600 mm [500 mm] LC |                                                  |             |
|                                                    |                     |                | Without Load Backrest | With Standard Load Backrest |                       |                             |             |                                     |             |                                     | Pneumatic Tire/<br>Pneumatic-Shaped Cushion Tire |             |
|                                                    |                     |                |                       |                             |                       |                             |             |                                     |             |                                     |                                                  | FWD         |
|                                                    | mm                  | mm             | mm                    | mm                          | mm                    | mm                          | deg         | deg                                 | kg          | deg                                 | deg                                              | kg          |
| Wide Visible Mast (V)                              | 3000                | 2200           | 3690                  | 4270                        | 110                   | 110                         | 6           | 12                                  | 4500 [5000] | 6                                   | 12                                               | 4500 [5000] |
|                                                    | 3300                | 2350           | 3990                  | 4570                        | 110                   | 110                         | 6           | 12                                  | 4500 [5000] | 6                                   | 12                                               | 4500 [5000] |
|                                                    | 3500                | 2450           | 4190                  | 4770                        | 110                   | 110                         | 6           | 12                                  | 4500 [5000] | 6                                   | 12                                               | 4500 [5000] |
|                                                    | 3700                | 2600           | 4420                  | 4970                        | 110                   | 110                         | 6           | 12                                  | 4500 [5000] | 6                                   | 12                                               | 4500 [5000] |
|                                                    | 4000                | 2800           | 4770                  | 5270                        | 110                   | 110                         | 6           | 12                                  | 4500 [5000] | 6                                   | 12                                               | 4500 [5000] |
|                                                    | 4500                | 3050           | 5270                  | 5770                        | 110                   | 110                         | 6           | 6                                   | 4500 [5000] | 6                                   | 12                                               | 4500 [5000] |
|                                                    | 5000                | 3300           | 5770                  | 6270                        | 110                   | 110                         | 6           | 6                                   | 4000 [4000] | 6                                   | 12                                               | 4400 [4600] |
|                                                    | 5500                | 3550           | 6270                  | 6770                        | 110                   | 110                         | 6           | 6                                   | 3300 [3300] | 6                                   | 12                                               | 4200 [4200] |
| Wide Visible Full-Free Lift Two-Stage Mast (FV)    | 3000                | 2200           | 3740                  | 4270                        | 1510                  | 980                         | 6           | 12                                  | 4500 [5000] | 6                                   | 12                                               | 4500 [5000] |
|                                                    | 3300                | 2350           | 4040                  | 4570                        | 1660                  | 1130                        | 6           | 12                                  | 4500 [5000] | 6                                   | 12                                               | 4500 [5000] |
|                                                    | 3500                | 2450           | 4240                  | 4910                        | 1760                  | 1230                        | 6           | 12                                  | 4500 [5000] | 6                                   | 12                                               | 4500 [5000] |
|                                                    | 3700                | 2600           | 4440                  | 4970                        | 1910                  | 1380                        | 6           | 12                                  | 4500 [5000] | 6                                   | 12                                               | 4500 [5000] |
|                                                    | 4000                | 2800           | 4740                  | 5270                        | 2110                  | 1580                        | 6           | 12                                  | 4500 [5000] | 6                                   | 12                                               | 4500 [5000] |
| Wide Visible Full-Free Lift Three-Stage Mast (FSV) | 4000                | 2120           | 4740                  | 5270                        | 1430                  | 900                         | 6           | 6                                   | 4500 [5000] | 6                                   | 6                                                | 4500 [5000] |
|                                                    | 4300                | 2200           | 5040                  | 5570                        | 1510                  | 980                         | 6           | 6                                   | 4500 [4900] | 6                                   | 6                                                | 4500 [4900] |
|                                                    | 4500                | 2270           | 5240                  | 5770                        | 1580                  | 1030                        | 6           | 6                                   | 4200 [4500] | 6                                   | 6                                                | 4400 [4700] |
|                                                    | 4700                | 2350           | 5440                  | 5970                        | 1660                  | 1130                        | 6           | 6                                   | 4200 [4500] | 6                                   | 6                                                | 4400 [4700] |
|                                                    | 5000                | 2450           | 5740                  | 6270                        | 1760                  | 1230                        | 6           | 6                                   | 4000 [4000] | 6                                   | 6                                                | 4300 [4600] |
|                                                    | 5500                | 2600           | 6240                  | 6770                        | 1910                  | 1380                        | 6           | 6                                   | 3000 [3000] | 6                                   | 6                                                | 4100 [4400] |
|                                                    | 6000                | 2800           | 6740                  | 7270                        | 2110                  | 1580                        | 6           | 6                                   | 2300 [2300] | 6                                   | 6                                                | 3900 [4200] |
|                                                    | 6500                | 3050           | 7240                  | 7770                        | 2360                  | 1830                        | 6           | 6                                   | 1500 [1500] | 6                                   | 6                                                | 2700 [2700] |

NOTE: Height of standard load backrest is 1220 mm.

# 5,000 kg

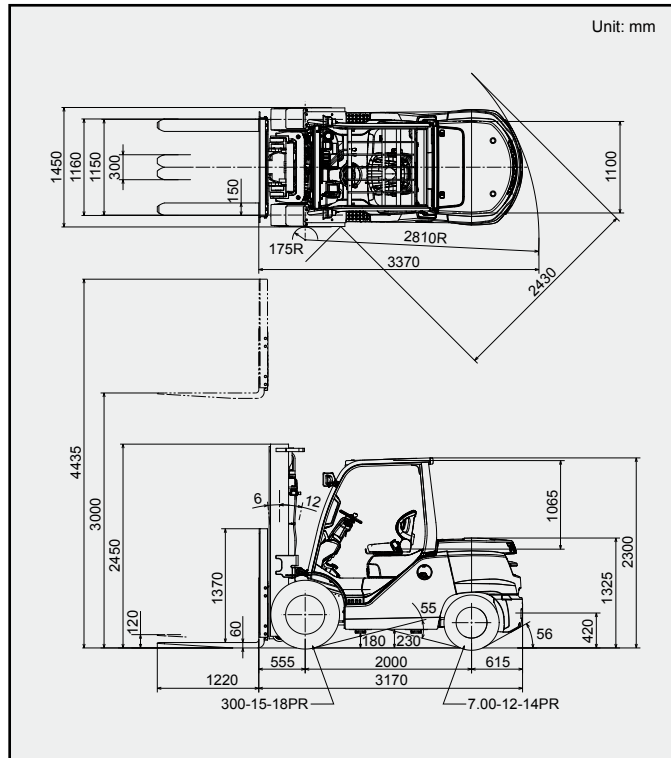
## MAIN VEHICLE SPECIFICATIONS

|                            |                                                                           |                        |                           |                     |                      |                      |           |
|----------------------------|---------------------------------------------------------------------------|------------------------|---------------------------|---------------------|----------------------|----------------------|-----------|
| Characteristics            | Manufacturer                                                              |                        |                           |                     | TOYOTA               | TOYOTA               |           |
|                            | Model                                                                     |                        |                           |                     | 8FG50N               | 8FD50N               |           |
|                            | Load Capacity                                                             |                        |                           | kg                  | 5000                 | 5000                 |           |
|                            | Load Center                                                               |                        |                           | mm                  | 600                  | 600                  |           |
|                            | Power Type                                                                |                        |                           |                     | Gasoline             | Diesel               |           |
|                            | Operator Position                                                         |                        |                           |                     | Rider Seated         | Rider Seated         |           |
|                            | Tire Type                                                                 |                        | Front/Rear                |                     | Pneumatic            | Pneumatic            |           |
|                            | Wheels (x = driven)                                                       |                        | Front/Rear                |                     | 2x/2                 | 2x/2                 |           |
| Dimensions                 | Maximum Fork Height (MFH)                                                 |                        |                           | mm                  | 3000                 | 3000                 |           |
|                            | Free Lift                                                                 |                        |                           | mm                  | 120                  | 120                  |           |
|                            | Fork Size                                                                 |                        | T x W x L                 | mm                  | 60/150/1220          | 60/150/1220          |           |
|                            | Fork Spread (Outside)                                                     |                        | MAX./MIN.                 | mm                  | 1160/300             | 1160/300             |           |
|                            | Tilt Range                                                                |                        | FWD/BWD                   | deg                 | 6/12                 | 6/12                 |           |
|                            | Length to Fork Face                                                       |                        |                           | mm                  | 3170                 | 3170                 |           |
|                            | Overall Width                                                             |                        |                           | mm                  | 1450                 | 1450                 |           |
|                            | Mast Lowered Height                                                       |                        |                           | mm                  | 2450                 | 2450                 |           |
|                            | Mast Extended Height                                                      |                        |                           | mm                  | 4435                 | 4435                 |           |
|                            | Overhead Guard Height                                                     |                        |                           | mm                  | 2300                 | 2300                 |           |
|                            | Turning Radius (Outside)                                                  |                        |                           | mm                  | 2810                 | 2810                 |           |
|                            | Load Distance (Centerline of front axle to front face of forks)           |                        |                           | mm                  | 555                  | 555                  |           |
|                            | Rear Overhang                                                             |                        |                           | mm                  | 615                  | 615                  |           |
|                            | Basic Right Angle Stacking Aisle Width<br>(Add load length and clearance) |                        |                           | mm                  | 3370                 | 3370                 |           |
|                            | Performance                                                               | Speeds                 | Travel, Max.<br>(FWD/RVS) | Full Load           | km/h                 | 23.5/23.5            | 22.5/22.5 |
| No Load                    |                                                                           |                        |                           | km/h                | 24.0/24.0            | 23.5/23.5            |           |
| Lifting                    |                                                                           |                        | Full Load                 | mm/sec              | 490                  | 480                  |           |
|                            |                                                                           |                        | No Load                   | mm/sec              | 520                  | 520                  |           |
| Lowering                   |                                                                           |                        | Full Load                 | mm/sec              | 540                  | 540                  |           |
|                            |                                                                           |                        | No Load                   | mm/sec              | 490                  | 490                  |           |
| Max. Drawbar Pull          |                                                                           |                        | Full Load                 | N <kg>              | 36000<3670>          | 35400<3600>          |           |
|                            |                                                                           |                        | No Load                   | N <kg>              | 16000<1630>          | 16000<1630>          |           |
| Gradeability at 1.5 km/h * |                                                                           |                        | Full Load                 | % (tanθ)            | 23                   | 22                   |           |
| Max. Gradeability *        |                                                                           |                        | Full Load                 | % (tanθ)            | 31                   | 30                   |           |
|                            |                                                                           |                        | No Load                   | % (tanθ)            | 22                   | 22                   |           |
| Weight                     | Total Weight                                                              |                        |                           | kg                  | 7140                 | 7240                 |           |
|                            | Weight Distribution                                                       | Full Load              | Front                     | kg                  | 10880                | 10930                |           |
|                            |                                                                           |                        | Rear                      | kg                  | 1260                 | 1310                 |           |
|                            |                                                                           | No Load                | Front                     | kg                  | 3000                 | 3045                 |           |
|                            |                                                                           |                        | Rear                      | kg                  | 4140                 | 4195                 |           |
| Wheels and Tires           | Tires                                                                     | Number                 | Front/Rear                |                     | 2/2                  | 2/2                  |           |
|                            |                                                                           | Size                   | Front                     |                     | 300-15-18PR          | 300-15-18PR          |           |
|                            |                                                                           |                        | Rear                      |                     | 7.00-12-14PR         | 7.00-12-14PR         |           |
|                            | Wheelbase                                                                 |                        |                           | mm                  | 2000                 | 2000                 |           |
|                            | Tread                                                                     | Front                  | mm                        | 1150                | 1150                 |                      |           |
|                            |                                                                           | Rear                   | mm                        | 1100                | 1100                 |                      |           |
|                            | Backrest Height                                                           |                        |                           | mm                  | 1370                 | 1370                 |           |
|                            | Overhead Guard Clearance                                                  |                        |                           | mm                  | 1065                 | 1065                 |           |
|                            | Counterweight Height                                                      |                        |                           | mm                  | 1325                 | 1325                 |           |
|                            | Drawbar Pin Center Height                                                 |                        |                           | mm                  | 420                  | 420                  |           |
|                            | Step Height                                                               |                        |                           | mm                  | 540                  | 540                  |           |
|                            | Floor Height                                                              |                        |                           | mm                  | 855                  | 855                  |           |
|                            | Underclearance (Full load)                                                | Min. <Mast>            |                           | mm                  | 120                  | 120                  |           |
|                            |                                                                           | Center of Wheelbase    |                           | mm                  | 230                  | 230                  |           |
|                            | Grade Clearance                                                           |                        |                           | Frame/Counterweight | % (tanθ)             | 55/66                | 55/66     |
|                            | Brake                                                                     | Service (Foot)         |                           |                     | Hydraulic            | Hydraulic            |           |
|                            |                                                                           | Parking                |                           |                     | Hand                 | Hand                 |           |
| Drive Unit and Control     | Battery                                                                   | Voltage/Capacity (5HR) |                           | V/AH                | 12/48                | 12/64                |           |
|                            | Internal Combustion Engine                                                | Make/Model             |                           |                     | TOYOTA 1FS           | TOYOTA 14Z- II       |           |
|                            |                                                                           | Rated Power/r.p.m.     |                           | kW (JIS ps)         | 65/2350 (88/2350)    | 56/2100 (76/2100)    |           |
|                            |                                                                           | Rated Torque/r.p.m.    |                           | N-m (JIS kg-m)      | 276/1600 (28.1/1600) | 269/1600 (27.4/1600) |           |
|                            |                                                                           | Number of Cylinder     |                           |                     | 4                    | 6                    |           |
|                            |                                                                           | Piston Displacement    |                           | cc                  | 3685                 | 5204                 |           |
|                            |                                                                           | Fuel Tank Capacity     |                           | liter               | 120                  | 120                  |           |
|                            | Transmission                                                              | Type                   |                           |                     | Powershift           | Powershift           |           |
| Stage                      |                                                                           | FWD/RVS                |                           | 1/1                 | 1/1                  |                      |           |
| Operating Pressure         |                                                                           | For Attachments        | Mpa (kg/cm²)              | 18.1(185)           | 18.1(185)            |                      |           |

NOTE: \* Computed values.



## DIMENSIONAL DRAWINGS



## SPECIAL TREAD

| Front Tire Single/Dual | Single      | Single | Dual         | Dual    |
|------------------------|-------------|--------|--------------|---------|
| Front Tire Size        | 300-15-18PR | 300-15 | 8.25-15-14PR | 8.25-15 |
| Overall Width          | mm 1450     | 1450   | 1890         | 1890    |
| Tread, Front           | mm 1150     | 1150   | 1385         | 1385    |

## UNDERCLEARANCE

|                                 | mm  |
|---------------------------------|-----|
| Mast (Full Load)                | 120 |
| Drive Axle (Full Load)          | 210 |
| Steer Axle (No Load)            | 210 |
| Center of Wheelbase (Full Load) | 230 |
| Counterweight (No Load)         | 200 |

## RATED CAPACITIES

Unit: kg (W)

### V Mast (PN or PSC)

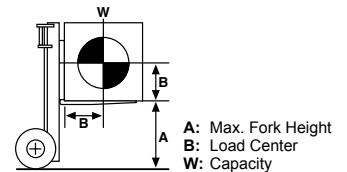
| A (mm) | 2500 | 2700 | 3000 | 3300 | 3500 | 3700 | 4000 | 4500 | 5000           |
|--------|------|------|------|------|------|------|------|------|----------------|
| 600    | 5000 | 5000 | 5000 | 5000 | 5000 | 5000 | 5000 | 5000 | 4000<br><4800> |
| 700    | 4600 | 4600 | 4600 | 4600 | 4600 | 4600 | 4600 | 4600 | 3680<br><4420> |
| 760    | 4390 | 4390 | 4390 | 4390 | 4390 | 4390 | 4390 | 4390 | 3510<br><4220> |
| 800    | 4260 | 4260 | 4260 | 4260 | 4260 | 4260 | 4260 | 4260 | 3410<br><4090> |
| 900    | 3970 | 3970 | 3970 | 3970 | 3970 | 3970 | 3970 | 3970 | 3180<br><3810> |
| B (mm) | 1000 | 3710 | 3710 | 3710 | 3710 | 3710 | 3710 | 3710 | 2970<br><3570> |
| 1100   | 3490 | 3490 | 3490 | 3490 | 3490 | 3490 | 3490 | 3490 | 2790<br><3350> |
| 1200   | 3290 | 3290 | 3290 | 3290 | 3290 | 3290 | 3290 | 3290 | 2630<br><3160> |
| 1300   | 3110 | 3110 | 3110 | 3110 | 3110 | 3110 | 3110 | 3110 | 2490<br><2990> |
| 1400   | 2950 | 2950 | 2950 | 2950 | 2950 | 2950 | 2950 | 2950 | 2360<br><2840> |
| 1500   | 2810 | 2810 | 2810 | 2810 | 2810 | 2810 | 2810 | 2810 | 2250<br><2700> |

< > for dual tire models (PN or PSC)

### FSV Mast (PN or PSC)

| A (mm) | 3700 | 4000 | 4300 | 4700           | 5000           | 5500           | 6000           |
|--------|------|------|------|----------------|----------------|----------------|----------------|
| 600    | 5000 | 4900 | 4800 | 4300<br><4600> | 4100<br><4500> | 3100<br><4300> | 2400<br><4100> |
| 700    | 4610 | 4520 | 4430 | 3970<br><4240> | 3780<br><4150> | 2860<br><3970> | 2210<br><3780> |
| 760    | 4410 | 4320 | 4230 | 3790<br><4050> | 3610<br><3960> | 2730<br><3790> | 2110<br><3610> |
| 800    | 4280 | 4190 | 4110 | 3680<br><3940> | 3510<br><3850> | 2650<br><3680> | 2050<br><3510> |
| 900    | 3990 | 3910 | 3830 | 3430<br><3670> | 3270<br><3590> | 2470<br><3430> | 1920<br><3270> |
| B (mm) | 1000 | 3740 | 3660 | 3590           | 3210<br><3440> | 3070<br><3360> | 1790<br><3210> |
| 1100   | 3520 | 3450 | 3380 | 3020<br><3240> | 2880<br><3160> | 2180<br><3020> | 1690<br><2880> |
| 1200   | 3320 | 3250 | 3190 | 2850<br><3050> | 2720<br><2990> | 2060<br><2850> | 1590<br><2720> |
| 1300   | 3140 | 3080 | 3020 | 2700<br><2890> | 2580<br><2830> | 1950<br><2700> | 1510<br><2580> |
| 1400   | 2980 | 2930 | 2870 | 2570<br><2750> | 2450<br><2690> | 1850<br><2570> | 1430<br><2450> |
| 1500   | 2840 | 2780 | 2730 | 2440<br><2610> | 2330<br><2560> | 1760<br><2440> | 1360<br><2330> |

< > for dual tire models (PN or PSC)



## MAST SPECIFICATIONS & RATED CAPACITIES

| Mast Type                                          | Maximum Fork Height | Overall Height |                       |                             | Free Lift             |                             | Single Tire |     |                            | Dual Tire  |                                                  |                            |
|----------------------------------------------------|---------------------|----------------|-----------------------|-----------------------------|-----------------------|-----------------------------|-------------|-----|----------------------------|------------|--------------------------------------------------|----------------------------|
|                                                    |                     | Lowered        | Extended              |                             | Without Load Backrest | With Standard Load Backrest | Tilt Range  |     | Load Capacity at 600 mm LC | Tilt Range |                                                  | Load Capacity at 600 mm LC |
|                                                    |                     |                | Without Load Backrest | With Standard Load Backrest |                       |                             |             |     |                            |            |                                                  |                            |
|                                                    |                     |                |                       |                             |                       |                             | FWD         | BWD | FWD                        | BWD        | Pneumatic Tire/<br>Pneumatic-Shaped Cushion Tire |                            |
|                                                    | mm                  | mm             | mm                    | mm                          | mm                    | mm                          | deg         | deg | kg                         | deg        | deg                                              | kg                         |
| Wide Visible Mast (V)                              | 2500                | 2200           | 3405                  | 3935                        | 125                   | 125                         | 6           | 12  | 5000                       | 6          | 12                                               | 5000                       |
|                                                    | 2700                | 2350           | 3605                  | 4135                        | 125                   | 125                         | 6           | 12  | 5000                       | 6          | 12                                               | 5000                       |
|                                                    | 3000                | 2450           | 3905                  | 4435                        | 125                   | 125                         | 6           | 12  | 5000                       | 6          | 12                                               | 5000                       |
|                                                    | 3300                | 2600           | 4205                  | 4735                        | 125                   | 125                         | 6           | 12  | 5000                       | 6          | 12                                               | 5000                       |
|                                                    | 3500                | 2800           | 4405                  | 4935                        | 125                   | 125                         | 6           | 12  | 5000                       | 6          | 12                                               | 5000                       |
|                                                    | 3700                | 2800           | 4605                  | 5135                        | 125                   | 125                         | 6           | 12  | 5000                       | 6          | 12                                               | 5000                       |
|                                                    | 4000                | 3050           | 4905                  | 5435                        | 125                   | 125                         | 6           | 12  | 5000                       | 6          | 12                                               | 5000                       |
|                                                    | 4500                | 3300           | 5405                  | 5935                        | 125                   | 125                         | 6           | 6   | 5000                       | 6          | 12                                               | 5000                       |
|                                                    | 5000                | 3550           | 5905                  | 6435                        | 125                   | 125                         | 6           | 6   | 4000                       | 6          | 12                                               | 4800                       |
| Wide Visible Full-Free Lift Three-Stage Mast (FSV) | 3700                | 2200           | 4635                  | 5135                        | 1330                  | 830                         | 6           | 6   | 5000                       | 6          | 6                                                | 5000                       |
|                                                    | 4000                | 2270           | 4935                  | 5435                        | 1400                  | 900                         | 6           | 6   | 4900                       | 6          | 6                                                | 4900                       |
|                                                    | 4300                | 2350           | 5235                  | 5735                        | 1480                  | 980                         | 6           | 6   | 4800                       | 6          | 6                                                | 4800                       |
|                                                    | 4700                | 2450           | 5635                  | 6135                        | 1580                  | 1080                        | 6           | 6   | 4300                       | 6          | 6                                                | 4600                       |
|                                                    | 5000                | 2600           | 5935                  | 6435                        | 1730                  | 1230                        | 6           | 6   | 4100                       | 6          | 6                                                | 4500                       |
|                                                    | 5500                | 2800           | 6435                  | 6935                        | 1930                  | 1430                        | 6           | 6   | 3100                       | 6          | 6                                                | 4300                       |
|                                                    | 6000                | 3050           | 6935                  | 7435                        | 2180                  | 1680                        | 6           | 6   | 2400                       | 6          | 6                                                | 4100                       |

NOTE: Height of standard load backrest is 1370 mm.



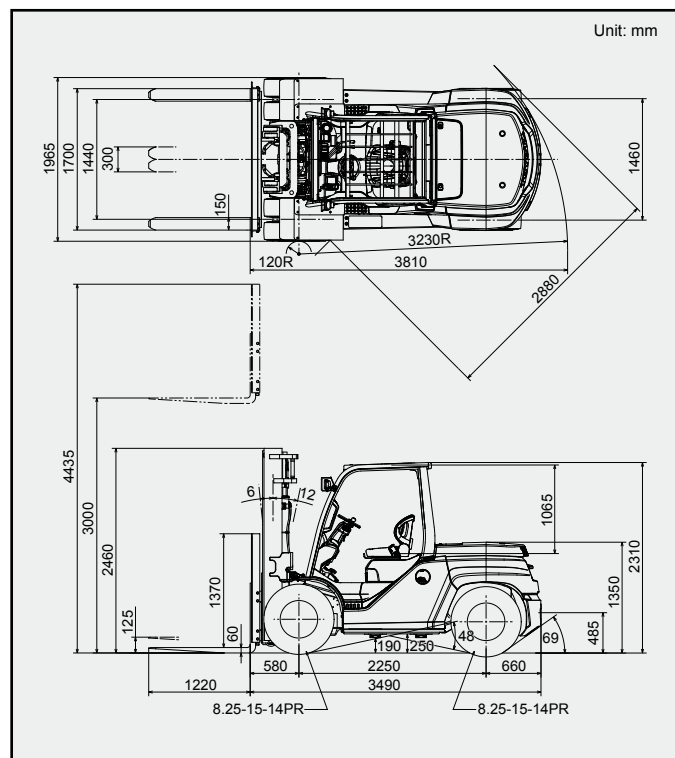
# 6,000 kg

## MAIN VEHICLE SPECIFICATIONS

|                     |                                                                        |                            |                        |                      |              |                |
|---------------------|------------------------------------------------------------------------|----------------------------|------------------------|----------------------|--------------|----------------|
| Characteristics     | Manufacturer                                                           |                            |                        |                      | TOYOTA       |                |
|                     | Model                                                                  |                            |                        |                      | 8FD60N       |                |
|                     | Load Capacity                                                          |                            |                        | kg                   | 6000         |                |
|                     | Load Center                                                            |                            |                        | mm                   | 600          |                |
|                     | Power Type                                                             |                            |                        |                      | Diesel       |                |
|                     | Operator Position                                                      |                            |                        |                      | Rider Seated |                |
|                     | Tire Type                                                              | Front/Rear                 |                        |                      | Pneumatic    |                |
|                     | Wheels (x = driven)                                                    | Front/Rear                 |                        |                      | 4x/2         |                |
| Dimensions          | Maximum Fork Height (MFH)                                              |                            |                        | mm                   | 3000         |                |
|                     | Free Lift                                                              |                            |                        | mm                   | 125          |                |
|                     | Fork Size                                                              | T x W x L                  | mm                     |                      | 60/150/1220  |                |
|                     | Fork Spread (Outside)                                                  | MAX./MIN.                  | mm                     |                      | 1700/300     |                |
|                     | Tilt Range                                                             | FWD/BWD                    | deg                    |                      | 6/12         |                |
|                     | Length to Fork Face                                                    |                            |                        | mm                   | 3490         |                |
|                     | Overall Width                                                          |                            |                        | mm                   | 1965         |                |
|                     | Mast Lowered Height                                                    |                            |                        | mm                   | 2460         |                |
|                     | Mast Extended Height                                                   |                            |                        | mm                   | 4435         |                |
|                     | Overhead Guard Height                                                  |                            |                        | mm                   | 2310         |                |
|                     | Turning Radius (Outside)                                               |                            |                        | mm                   | 3230         |                |
|                     | Load Distance (Centerline of front axle to front face of forks)        |                            |                        | mm                   | 580          |                |
|                     | Rear Overhang                                                          |                            |                        | mm                   | 660          |                |
|                     | Basic Right Angle Stacking Aisle Width (Add load length and clearance) |                            |                        | mm                   | 3810         |                |
| Performance         | Speeds                                                                 | Travel, Max. (FWD/RVS)     | Full Load              | km/h                 | 19.0/19.0    |                |
|                     |                                                                        |                            | No Load                | km/h                 | 20.5/20.5    |                |
|                     |                                                                        | Lifting                    | Full Load              | mm/sec               | 410          |                |
|                     |                                                                        |                            | No Load                | mm/sec               | 440          |                |
|                     |                                                                        | Lowering                   | Full Load              | mm/sec               | 530          |                |
|                     |                                                                        |                            | No Load                | mm/sec               | 480          |                |
|                     | Max. Drawbar Pull                                                      |                            | Full Load              | N <kg>               | 46000<4690>  |                |
|                     |                                                                        |                            | No Load                | N <kg>               | 20500<2090>  |                |
|                     | Gradeability at 1.5 km/h *                                             |                            | Full Load              | % (tanθ)             | 24           |                |
| Max. Gradeability * |                                                                        | Full Load                  | % (tanθ)               | 34                   |              |                |
|                     |                                                                        | No Load                    | % (tanθ)               | 24                   |              |                |
| Weight              | Total Weight                                                           |                            |                        | kg                   | 8390         |                |
|                     | Weight Distribution                                                    | Full Load                  | Front                  | kg                   | 12860        |                |
|                     |                                                                        |                            | Rear                   | kg                   | 1530         |                |
|                     |                                                                        | No Load                    | Front                  | kg                   | 3715         |                |
|                     |                                                                        |                            | Rear                   | kg                   | 4675         |                |
| Wheels and Tires    | Tires                                                                  | Number                     | Front/Rear             |                      | 4/2          |                |
|                     |                                                                        | Size                       | Front                  |                      | 8.25-15-14PR |                |
|                     |                                                                        |                            | Rear                   |                      | 8.25-15-14PR |                |
|                     | Wheelbase                                                              |                            |                        | mm                   | 2250         |                |
|                     | Tread                                                                  |                            | Front                  | mm                   | 1440         |                |
|                     |                                                                        |                            | Rear                   | mm                   | 1460         |                |
|                     | Backrest Height                                                        |                            |                        | mm                   | 1370         |                |
|                     | Overhead Guard Clearance                                               |                            |                        | mm                   | 1065         |                |
|                     | Counterweight Height                                                   |                            |                        | mm                   | 1350         |                |
|                     | Drawbar Pin Center Height                                              |                            |                        | mm                   | 485          |                |
|                     | Step Height                                                            |                            | 1st/2nd                | mm                   | 295/545      |                |
|                     | Floor Height                                                           |                            |                        | mm                   | 860          |                |
|                     | Underclearance (Full load)                                             | Min. <Mast>                |                        | mm                   | 125          |                |
|                     |                                                                        | Center of Wheelbase        |                        | mm                   | 250          |                |
|                     | Grade Clearance                                                        | Frame/Counterweight        |                        | % (tanθ)             | 48/69        |                |
|                     | Brake                                                                  | Service (Foot)             |                        |                      | Hydraulic    |                |
|                     |                                                                        | Parking                    |                        |                      | Hand         |                |
|                     | Drive Unit and Control                                                 | Battery                    | Voltage/Capacity (5HR) |                      | V/AH         | 12/64          |
|                     |                                                                        | Internal Combustion Engine | Make/Model             |                      |              | TOYOTA 14Z- II |
| Rated Power/r.p.m.  |                                                                        |                            | kW (JIS ps)            | 66/2400 (90/2400)    |              |                |
| Rated Torque/r.p.m. |                                                                        |                            | N-m (JIS kg-m)         | 325/1000 (33.2/1000) |              |                |
| Number of Cylinder  |                                                                        |                            |                        | 6                    |              |                |
| Piston Displacement |                                                                        |                            | cc                     | 5204                 |              |                |
| Fuel Tank Capacity  |                                                                        |                            | liter                  | 130                  |              |                |
| Transmission        |                                                                        | Type                       |                        |                      | Powershift   |                |
|                     | Stage                                                                  | FWD/RVS                    |                        | 1/1                  |              |                |
| Operating Pressure  | For Attachments                                                        |                            | Mpa (kg/cm²)           | 20.6(210)            |              |                |

NOTE: \* Computed values.

## DIMENSIONAL DRAWINGS



## SPECIAL TREAD

|                  |              |         |
|------------------|--------------|---------|
| Front Tire Dual  | Dual         | Dual    |
| Front Tire Size  | 8.25-15-14PR | 8.25-15 |
| Overall Width mm | 1965         | 1965    |
| Tread, Front mm  | 1440         | 1440    |

## UNDERCLEARANCE mm

|                                      |     |
|--------------------------------------|-----|
| Mast (Full Load).....                | 125 |
| Drive Axle (Full Load) .....         | 215 |
| Steer Axle (No Load) .....           | 270 |
| Center of Wheelbase (Full Load)..... | 250 |
| Counterweight (No Load) .....        | 225 |

## RATED CAPACITIES

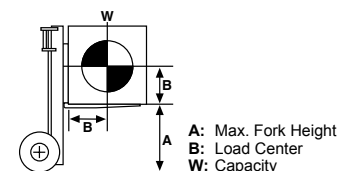
Unit: kg (W)

### V Mast (PN or PSC)

| A (mm) | 3000 | 3300 | 3500 | 3700 | 4000 | 4500 | 5000 | 5500 | 6000 |
|--------|------|------|------|------|------|------|------|------|------|
| 600    | 6000 | 6000 | 6000 | 6000 | 6000 | 6000 | 6000 | 6000 | 5700 |
| 700    | 5530 | 5530 | 5530 | 5530 | 5530 | 5530 | 5530 | 5530 | 5250 |
| 760    | 5280 | 5280 | 5280 | 5280 | 5280 | 5280 | 5280 | 5280 | 5020 |
| 800    | 5130 | 5130 | 5130 | 5130 | 5130 | 5130 | 5130 | 5130 | 4870 |
| 900    | 4780 | 4780 | 4780 | 4780 | 4780 | 4780 | 4780 | 4780 | 4540 |
| 1000   | 4480 | 4480 | 4480 | 4480 | 4480 | 4480 | 4480 | 4480 | 4260 |
| 1100   | 4210 | 4210 | 4210 | 4210 | 4210 | 4210 | 4210 | 4210 | 4000 |
| 1200   | 3980 | 3980 | 3980 | 3980 | 3980 | 3980 | 3980 | 3980 | 3780 |
| 1300   | 3770 | 3770 | 3770 | 3770 | 3770 | 3770 | 3770 | 3770 | 3580 |
| 1400   | 3580 | 3580 | 3580 | 3580 | 3580 | 3580 | 3580 | 3580 | 3400 |
| 1500   | 3400 | 3400 | 3400 | 3400 | 3400 | 3400 | 3400 | 3400 | 3230 |

### FSV Mast (PN or PSC)

| A (mm) | 4000 | 4300 | 4700 | 5000 | 6000 | 7000 |
|--------|------|------|------|------|------|------|
| 600    | 5700 | 5700 | 5500 | 5500 | 5200 | 3700 |
| 700    | 5270 | 5270 | 5080 | 5080 | 4800 | 3420 |
| 760    | 5040 | 5040 | 4860 | 4860 | 4590 | 3270 |
| 800    | 4890 | 4890 | 4720 | 4720 | 4470 | 3180 |
| 900    | 4570 | 4570 | 4410 | 4410 | 4170 | 2970 |
| 1000   | 4290 | 4290 | 4140 | 4140 | 3910 | 2780 |
| 1100   | 4040 | 4040 | 3900 | 3900 | 3680 | 2620 |
| 1200   | 3820 | 3820 | 3680 | 3680 | 3480 | 2480 |
| 1300   | 3620 | 3620 | 3490 | 3490 | 3300 | 2350 |
| 1400   | 3440 | 3440 | 3320 | 3320 | 3140 | 2230 |
| 1500   | 3270 | 3270 | 3160 | 3160 | 2990 | 2130 |



A: Max. Fork Height  
B: Load Center  
W: Capacity

## MAST SPECIFICATIONS & RATED CAPACITIES

| Mast Type                                          | Maximum Fork Height | Overall Height |                       |                                                  | Free Lift             |                             | Dual Tire  |      |                            |
|----------------------------------------------------|---------------------|----------------|-----------------------|--------------------------------------------------|-----------------------|-----------------------------|------------|------|----------------------------|
|                                                    |                     | Lowered        | Extended              |                                                  | Without Load Backrest | With Standard Load Backrest | Tilt Range |      | Load Capacity at 600 mm LC |
|                                                    |                     |                | Without Load Backrest | With Standard Load Backrest                      |                       |                             |            |      |                            |
|                                                    |                     | FWD            | BWD                   | Pneumatic Tire/<br>Pneumatic-Shaped Cushion Tire |                       |                             |            |      |                            |
|                                                    | mm                  | mm             | mm                    | mm                                               | mm                    | deg                         | deg        | kg   |                            |
| Wide Visible Mast (V)                              | 3000                | 2460           | 3980                  | 4435                                             | 125                   | 125                         | 6          | 12   | 6000                       |
|                                                    | 3300                | 2610           | 4280                  | 4735                                             | 125                   | 125                         | 6          | 12   | 6000                       |
|                                                    | 3500                | 2710           | 4480                  | 4935                                             | 125                   | 125                         | 6          | 12   | 6000                       |
|                                                    | 3700                | 2810           | 4680                  | 5135                                             | 125                   | 125                         | 6          | 12   | 6000                       |
|                                                    | 4000                | 3060           | 4980                  | 5435                                             | 125                   | 125                         | 6          | 12   | 6000                       |
|                                                    | 4500                | 3310           | 5480                  | 5935                                             | 125                   | 125                         | 6          | 12   | 6000                       |
|                                                    | 5000                | 3560           | 5980                  | 6435                                             | 125                   | 125                         | 6          | 12   | 6000                       |
|                                                    | 5500                | 3810           | 6480                  | 6935                                             | 125                   | 125                         | 6          | 12   | 6000                       |
| 6000                                               | 4060                | 6980           | 7435                  | 125                                              | 125                   | 6                           | 12         | 5700 |                            |
| Wide Visible Full-Free Lift Three-Stage Mast (FSV) | 4000                | 2360           | 5060                  | 5435                                             | 1365                  | 990                         | 6          | 6    | 5700                       |
|                                                    | 4300                | 2460           | 5360                  | 5735                                             | 1465                  | 1090                        | 6          | 6    | 5700                       |
|                                                    | 4700                | 2550           | 5750                  | 6135                                             | 1565                  | 1180                        | 6          | 6    | 5500                       |
|                                                    | 5000                | 2810           | 6160                  | 6435                                             | 1715                  | 1440                        | 6          | 6    | 5500                       |
|                                                    | 6000                | 3110           | 7110                  | 7435                                             | 2065                  | 1740                        | 6          | 6    | 5200                       |
|                                                    | 7000                | 3560           | 8060                  | 8435                                             | 2565                  | 2190                        | 6          | 6    | 3700                       |

NOTE: Height of standard load backrest is 1370 mm.

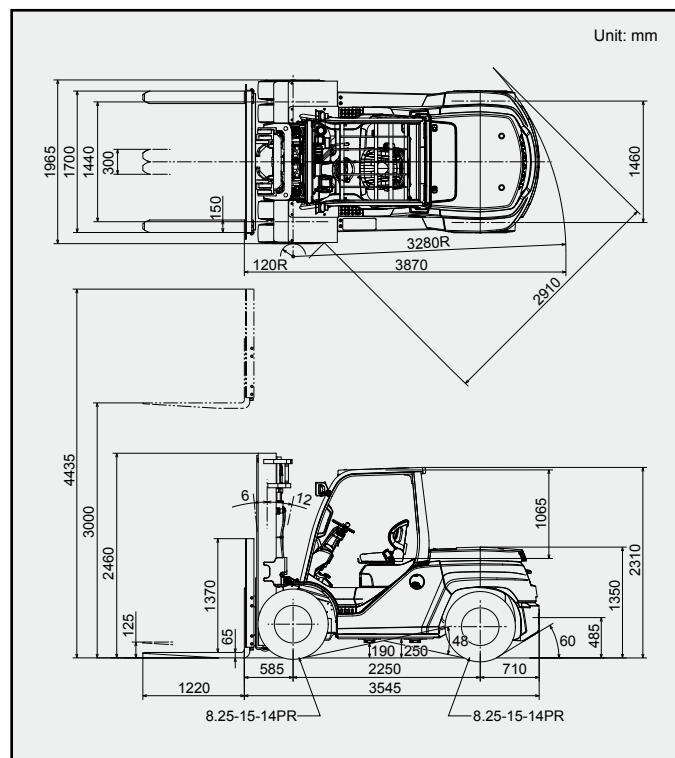
# 7,000 kg

## MAIN VEHICLE SPECIFICATIONS

|                        |                                                                        |                        |              |                |                      |
|------------------------|------------------------------------------------------------------------|------------------------|--------------|----------------|----------------------|
| Characteristics        | Manufacturer                                                           |                        |              |                | TOYOTA               |
|                        | Model                                                                  |                        |              |                | 8FD70N               |
|                        | Load Capacity                                                          |                        |              | kg             | 7000                 |
|                        | Load Center                                                            |                        |              | mm             | 600                  |
|                        | Power Type                                                             |                        |              |                | Diesel               |
|                        | Operator Position                                                      |                        |              |                | Rider Seated         |
|                        | Tire Type                                                              | Front/Rear             |              |                | Pneumatic            |
|                        | Wheels (x = driven)                                                    | Front/Rear             |              |                | 4x/2                 |
| Dimensions             | Maximum Fork Height (MFH)                                              |                        |              | mm             | 3000                 |
|                        | Free Lift                                                              |                        |              | mm             | 125                  |
|                        | Fork Size                                                              | T x W x L              | mm           |                | 65/150/1220          |
|                        | Fork Spread (Outside)                                                  | MAX./MIN.              | mm           |                | 1700/300             |
|                        | Tilt Range                                                             | FWD/BWD                | deg          |                | 6/12                 |
|                        | Length to Fork Face                                                    |                        |              | mm             | 3545                 |
|                        | Overall Width                                                          |                        |              | mm             | 1965                 |
|                        | Mast Lowered Height                                                    |                        |              | mm             | 2460                 |
|                        | Mast Extended Height                                                   |                        |              | mm             | 4435                 |
|                        | Overhead Guard Height                                                  |                        |              | mm             | 2310                 |
|                        | Turning Radius (Outside)                                               |                        |              | mm             | 3280                 |
|                        | Load Distance (Centerline of front axle to front face of forks)        |                        |              | mm             | 585                  |
|                        | Rear Overhang                                                          |                        |              | mm             | 710                  |
|                        | Basic Right Angle Stacking Aisle Width (Add load length and clearance) |                        |              | mm             | 3870                 |
| Performance            | Speeds                                                                 | Travel, Max. (FWD/RVS) | Full Load    | km/h           | 19.0/19.0            |
|                        |                                                                        |                        | No Load      | km/h           | 20.5/20.5            |
|                        |                                                                        | Lifting                | Full Load    | mm/sec         | 410                  |
|                        |                                                                        |                        | No Load      | mm/sec         | 440                  |
|                        |                                                                        | Lowering               | Full Load    | mm/sec         | 530                  |
|                        |                                                                        |                        | No Load      | mm/sec         | 480                  |
|                        | Max. Drawbar Pull                                                      |                        | Full Load    | N <kg>         | 45000<4590>          |
|                        |                                                                        |                        | No Load      | N <kg>         | 19500<1990>          |
|                        | Gradeability at 1.5 km/h *                                             |                        | Full Load    | % (tanθ)       | 21                   |
| Max. Gradeability *    |                                                                        | Full Load              | % (tanθ)     | 30             |                      |
|                        |                                                                        | No Load                | % (tanθ)     | 21             |                      |
| Weight                 | Total Weight                                                           |                        |              | kg             | 9125                 |
|                        | Weight Distribution                                                    | Full Load              | Front        | kg             | 14340                |
|                        |                                                                        |                        | Rear         | kg             | 1785                 |
|                        |                                                                        | No Load                | Front        | kg             | 3650                 |
|                        |                                                                        |                        | Rear         | kg             | 5475                 |
| Wheels and Tires       | Tires                                                                  | Number                 | Front/Rear   |                | 4/2                  |
|                        |                                                                        | Size                   | Front        |                | 8.25-15-14PR         |
|                        |                                                                        |                        | Rear         |                | 8.25-15-14PR         |
|                        | Wheelbase                                                              |                        |              | mm             | 2250                 |
|                        | Tread                                                                  | Front                  | mm           |                | 1440                 |
|                        |                                                                        | Rear                   | mm           |                | 1460                 |
|                        | Backrest Height                                                        |                        |              | mm             | 1370                 |
|                        | Overhead Guard Clearance                                               |                        |              | mm             | 1065                 |
|                        | Counterweight Height                                                   |                        |              | mm             | 1350                 |
|                        | Drawbar Pin Center Height                                              |                        |              | mm             | 485                  |
|                        | Step Height                                                            |                        | 1st/2nd      | mm             | 295/545              |
|                        | Floor Height                                                           |                        |              | mm             | 860                  |
|                        | Underclearance (Full load)                                             | Min. <Mast>            |              | mm             | 125                  |
|                        |                                                                        | Center of Wheelbase    |              | mm             | 250                  |
|                        | Grade Clearance                                                        | Frame/Counterweight    |              | % (tanθ)       | 48/60                |
|                        | Brake                                                                  | Service (Foot)         |              |                | Hydraulic            |
|                        |                                                                        | Parking                |              |                | Hand                 |
| Drive Unit and Control | Battery                                                                | Voltage/Capacity (5HR) |              | V/AH           | 12/64                |
|                        | Internal Combustion Engine                                             | Make/Model             |              |                | TOYOTA 14Z- II       |
|                        |                                                                        | Rated Power/r.p.m.     |              | kW (JIS ps)    | 66/2400 (90/2400)    |
|                        |                                                                        | Rated Torque/r.p.m.    |              | N-m (JIS kg-m) | 325/1000 (33.2/1000) |
|                        |                                                                        | Number of Cylinder     |              |                | 6                    |
|                        |                                                                        | Piston Displacement    |              | cc             | 5204                 |
|                        |                                                                        | Fuel Tank Capacity     |              | liter          | 130                  |
|                        | Transmission                                                           | Type                   |              |                | Powershift           |
| Stage                  |                                                                        | FWD/RVS                |              | 1/1            |                      |
| Operating Pressure     | For Attachments                                                        |                        | Mpa (kg/cm²) | 20.6(210)      |                      |

NOTE: \* Computed values.

## DIMENSIONAL DRAWINGS



## SPECIAL TREAD

|                  |              |         |
|------------------|--------------|---------|
| Front Tire Dual  | Dual         | Dual    |
| Front Tire Size  | 8.25-15-14PR | 8.25-15 |
| Overall Width mm | 1965         | 1965    |
| Tread, Front mm  | 1440         | 1440    |

## UNDERCLEARANCE mm

|                                      |     |
|--------------------------------------|-----|
| Mast (Full Load).....                | 125 |
| Drive Axle (Full Load) .....         | 205 |
| Steer Axle (No Load) .....           | 265 |
| Center of Wheelbase (Full Load)..... | 250 |
| Counterweight (No Load) .....        | 225 |

## RATED CAPACITIES

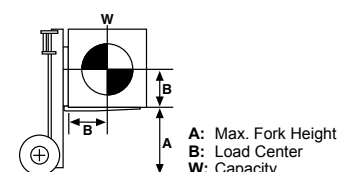
Unit: kg (W)

### V Mast (PN or PSC)

| A (mm) | 3000 | 3300 | 3500 | 3700 | 4000 | 4500 | 5000 | 5500 | 6000 |
|--------|------|------|------|------|------|------|------|------|------|
| 600    | 7000 | 7000 | 7000 | 7000 | 7000 | 7000 | 7000 | 6700 | 6500 |
| 700    | 6460 | 6460 | 6460 | 6460 | 6460 | 6460 | 6460 | 6180 | 5990 |
| 760    | 6170 | 6170 | 6170 | 6170 | 6170 | 6170 | 6170 | 5900 | 5730 |
| 800    | 5990 | 5990 | 5990 | 5990 | 5990 | 5990 | 5990 | 5730 | 5560 |
| 900    | 5590 | 5590 | 5590 | 5590 | 5590 | 5590 | 5590 | 5350 | 5190 |
| 1000   | 5230 | 5230 | 5230 | 5230 | 5230 | 5230 | 5230 | 5010 | 4860 |
| 1100   | 4920 | 4920 | 4920 | 4920 | 4920 | 4920 | 4920 | 4710 | 4570 |
| 1200   | 4650 | 4650 | 4650 | 4650 | 4650 | 4650 | 4650 | 4450 | 4320 |
| 1300   | 4400 | 4400 | 4400 | 4400 | 4400 | 4400 | 4400 | 4210 | 4090 |
| 1400   | 4180 | 4180 | 4180 | 4180 | 4180 | 4180 | 4180 | 4000 | 3880 |
| 1500   | 3980 | 3980 | 3980 | 3980 | 3980 | 3980 | 3980 | 3810 | 3690 |

### FSV Mast (PN or PSC)

| A (mm) | 4000 | 4300 | 4700 | 5000 | 6000 | 7000 |
|--------|------|------|------|------|------|------|
| 600    | 6700 | 6700 | 6700 | 6700 | 5700 | 4000 |
| 700    | 6190 | 6190 | 6190 | 6190 | 5270 | 3700 |
| 760    | 5920 | 5920 | 5920 | 5920 | 5040 | 3540 |
| 800    | 5760 | 5760 | 5760 | 5760 | 4900 | 3440 |
| 900    | 5380 | 5380 | 5380 | 5380 | 4580 | 3210 |
| 1000   | 5050 | 5050 | 5050 | 5050 | 4290 | 3010 |
| 1100   | 4750 | 4750 | 4750 | 4750 | 4040 | 2840 |
| 1200   | 4490 | 4490 | 4490 | 4490 | 3820 | 2680 |
| 1300   | 4260 | 4260 | 4260 | 4260 | 3620 | 2540 |
| 1400   | 4050 | 4050 | 4050 | 4050 | 3440 | 2420 |
| 1500   | 3860 | 3860 | 3860 | 3860 | 3280 | 2300 |



## MAST SPECIFICATIONS & RATED CAPACITIES

| Mast Type                                          | Maximum Fork Height | Overall Height |                       |                             | Free Lift             |                             | Dual Tire  |     |                                                     |
|----------------------------------------------------|---------------------|----------------|-----------------------|-----------------------------|-----------------------|-----------------------------|------------|-----|-----------------------------------------------------|
|                                                    |                     | Lowered        | Extended              |                             | Without Load Backrest | With Standard Load Backrest | Tilt Range |     | Load Capacity at 600 mm LC                          |
|                                                    |                     |                | Without Load Backrest | With Standard Load Backrest |                       |                             |            |     |                                                     |
|                                                    |                     |                |                       |                             |                       |                             | FWD        | BWD | Pneumatic Tire/<br>Pneumatic-Shaped<br>Cushion Tire |
|                                                    | mm                  | mm             | mm                    | mm                          | mm                    | mm                          | deg        | deg | kg                                                  |
| Wide Visible Mast (V)                              | 3000                | 2460           | 3980                  | 4435                        | 125                   | 125                         | 6          | 12  | 7000                                                |
|                                                    | 3300                | 2610           | 4280                  | 4735                        | 125                   | 125                         | 6          | 12  | 7000                                                |
|                                                    | 3500                | 2710           | 4480                  | 4935                        | 125                   | 125                         | 6          | 12  | 7000                                                |
|                                                    | 3700                | 2810           | 4680                  | 5135                        | 125                   | 125                         | 6          | 12  | 7000                                                |
|                                                    | 4000                | 3060           | 4980                  | 5435                        | 125                   | 125                         | 6          | 12  | 7000                                                |
|                                                    | 4500                | 3310           | 5480                  | 5935                        | 125                   | 125                         | 6          | 12  | 7000                                                |
|                                                    | 5000                | 3560           | 5980                  | 6435                        | 125                   | 125                         | 6          | 12  | 7000                                                |
|                                                    | 5500                | 3810           | 6480                  | 6935                        | 125                   | 125                         | 6          | 12  | 6700                                                |
|                                                    | 6000                | 4060           | 6980                  | 7435                        | 125                   | 125                         | 6          | 12  | 6500                                                |
| Wide Visible Full-Free Lift Three-Stage Mast (FSV) | 4000                | 2360           | 5060                  | 5435                        | 1365                  | 990                         | 6          | 6   | 6700                                                |
|                                                    | 4300                | 2460           | 5360                  | 5735                        | 1465                  | 1090                        | 6          | 6   | 6700                                                |
|                                                    | 4700                | 2550           | 5750                  | 6135                        | 1565                  | 1180                        | 6          | 6   | 6700                                                |
|                                                    | 5000                | 2810           | 6160                  | 6435                        | 1715                  | 1440                        | 6          | 6   | 6700                                                |
|                                                    | 6000                | 3110           | 7110                  | 7435                        | 2065                  | 1740                        | 6          | 6   | 5700                                                |
|                                                    | 7000                | 3560           | 8060                  | 8435                        | 2565                  | 2190                        | 6          | 6   | 4000                                                |

NOTE: Height of standard load backrest is 1370 mm.

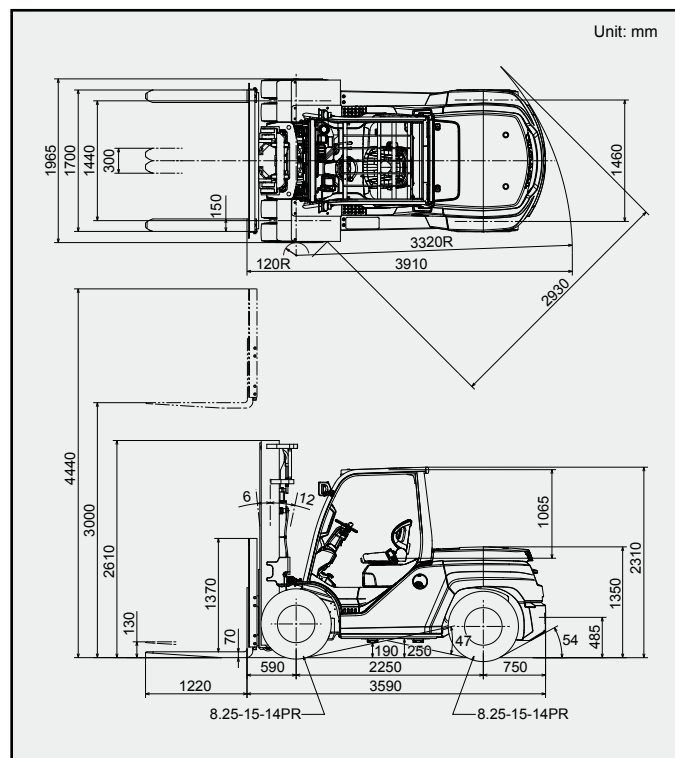
# 8,000 kg

## MAIN VEHICLE SPECIFICATIONS

|                            |                                                                        |                        |                        |                |                      |
|----------------------------|------------------------------------------------------------------------|------------------------|------------------------|----------------|----------------------|
| Characteristics            | Manufacturer                                                           |                        |                        |                | TOYOTA               |
|                            | Model                                                                  |                        |                        |                | 8FD80N               |
|                            | Load Capacity                                                          |                        |                        | kg             | 8000                 |
|                            | Load Center                                                            |                        |                        | mm             | 600                  |
|                            | Power Type                                                             |                        |                        |                | Diesel               |
|                            | Operator Position                                                      |                        |                        |                | Rider Seated         |
|                            | Tire Type                                                              | Front/Rear             |                        | Pneumatic      |                      |
|                            | Wheels (x = driven)                                                    | Front/Rear             |                        | 4x/2           |                      |
| Dimensions                 | Maximum Fork Height (MFH)                                              |                        |                        | mm             | 3000                 |
|                            | Free Lift                                                              |                        |                        | mm             | 130                  |
|                            | Fork Size                                                              | T x W x L              | mm                     | 70/150/1220    |                      |
|                            | Fork Spread (Outside)                                                  | MAX./MIN.              | mm                     | 1700/300       |                      |
|                            | Tilt Range                                                             | FWD/BWD                | deg                    | 6/12           |                      |
|                            | Length to Fork Face                                                    |                        |                        | mm             | 3590                 |
|                            | Overall Width                                                          |                        |                        | mm             | 1965                 |
|                            | Mast Lowered Height                                                    |                        |                        | mm             | 2610                 |
|                            | Mast Extended Height                                                   |                        |                        | mm             | 4440                 |
|                            | Overhead Guard Height                                                  |                        |                        | mm             | 2310                 |
|                            | Turning Radius (Outside)                                               |                        |                        | mm             | 3320                 |
|                            | Load Distance (Centerline of front axle to front face of forks)        |                        |                        | mm             | 590                  |
|                            | Rear Overhang                                                          |                        |                        | mm             | 750                  |
|                            | Basic Right Angle Stacking Aisle Width (Add load length and clearance) |                        |                        | mm             | 3910                 |
| Performance                | Speeds                                                                 | Travel, Max. (FWD/RVS) | Full Load              | km/h           | 19.0/19.0            |
|                            |                                                                        |                        | No Load                | km/h           | 20.5/20.5            |
|                            |                                                                        | Lifting                | Full Load              | mm/sec         | 370                  |
|                            |                                                                        |                        | No Load                | mm/sec         | 440                  |
|                            |                                                                        | Lowering               | Full Load              | mm/sec         | 530                  |
|                            |                                                                        |                        | No Load                | mm/sec         | 480                  |
|                            | Max. Drawbar Pull                                                      |                        | Full Load              | N <kg>         | 45000<4590>          |
|                            |                                                                        |                        | No Load                | N <kg>         | 19300<1970>          |
|                            | Gradeability at 1.5 km/h *                                             |                        | Full Load              | % (tanθ)       | 19                   |
| Max. Gradeability *        |                                                                        | Full Load              | % (tanθ)               | 27             |                      |
|                            |                                                                        | No Load                | % (tanθ)               | 18             |                      |
| Weight                     | Total Weight                                                           |                        |                        | kg             | 9980                 |
|                            | Weight Distribution                                                    | Full Load              | Front                  | kg             | 15880                |
|                            |                                                                        |                        | Rear                   | kg             | 2100                 |
|                            |                                                                        | No Load                | Front                  | kg             | 3650                 |
|                            |                                                                        |                        | Rear                   | kg             | 6330                 |
| Wheels and Tires           | Tires                                                                  | Number                 | Front/Rear             |                | 4/2                  |
|                            |                                                                        | Size                   | Front                  |                | 8.25-15-14PR         |
|                            |                                                                        |                        | Rear                   |                | 8.25-15-14PR         |
|                            | Wheelbase                                                              |                        |                        | mm             | 2250                 |
|                            | Tread                                                                  | Front                  | mm                     | 1440           |                      |
|                            |                                                                        | Rear                   | mm                     | 1460           |                      |
|                            | Backrest Height                                                        |                        |                        | mm             | 1370                 |
|                            | Overhead Guard Clearance                                               |                        |                        | mm             | 1065                 |
|                            | Counterweight Height                                                   |                        |                        | mm             | 1350                 |
|                            | Drawbar Pin Center Height                                              |                        |                        | mm             | 485                  |
|                            | Step Height                                                            |                        | 1st/2nd                | mm             | 295/545              |
|                            | Floor Height                                                           |                        |                        | mm             | 860                  |
|                            | Underclearance (Full load)                                             | Min. <Mast>            |                        | mm             | 125                  |
|                            |                                                                        | Center of Wheelbase    |                        | mm             | 250                  |
|                            | Grade Clearance                                                        | Frame/Counterweight    |                        | % (tanθ)       | 47/54                |
|                            | Brake                                                                  | Service (Foot)         |                        |                | Hydraulic            |
|                            |                                                                        | Parking                |                        |                | Hand                 |
|                            | Drive Unit and Control                                                 | Battery                | Voltage/Capacity (5HR) |                | V/AH                 |
| Internal Combustion Engine |                                                                        | Make/Model             |                        |                | TOYOTA 14Z- II       |
|                            |                                                                        | Rated Power/r.p.m.     |                        | kW (JIS ps)    | 66/2400 (90/2400)    |
|                            |                                                                        | Rated Torque/r.p.m.    |                        | N-m (JIS kg-m) | 325/1000 (33.2/1000) |
|                            |                                                                        | Number of Cylinder     |                        |                | 6                    |
|                            |                                                                        | Piston Displacement    |                        | cc             | 5204                 |
|                            |                                                                        | Fuel Tank Capacity     |                        | liter          | 130                  |
| Transmission               |                                                                        | Type                   |                        |                | Powershift           |
|                            | Stage                                                                  | FWD/RVS                |                        | 1/1            |                      |
| Operating Pressure         | For Attachments                                                        |                        | Mpa (kg/cm²)           | 20.6(210)      |                      |

NOTE: \* Computed values.

## DIMENSIONAL DRAWINGS

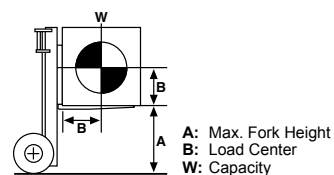


## RATED CAPACITIES

Unit: kg (W)

### V Mast (PN or PSC)

| A (mm) | 3000 | 3300 | 3500 | 3700 | 4000 | 4500 | 5000 | 5500 | 6000 |
|--------|------|------|------|------|------|------|------|------|------|
| 600    | 8000 | 8000 | 8000 | 8000 | 8000 | 8000 | 8000 | 7700 | 7500 |
| 700    | 7380 | 7380 | 7380 | 7380 | 7380 | 7380 | 7380 | 7100 | 6920 |
| 760    | 7050 | 7050 | 7050 | 7050 | 7050 | 7050 | 7050 | 6790 | 6610 |
| 800    | 6850 | 6850 | 6850 | 6850 | 6850 | 6850 | 6850 | 6590 | 6420 |
| 900    | 6390 | 6390 | 6390 | 6390 | 6390 | 6390 | 6390 | 6150 | 5990 |
| 1000   | 5990 | 5990 | 5990 | 5990 | 5990 | 5990 | 5990 | 5760 | 5610 |
| 1100   | 5630 | 5630 | 5630 | 5630 | 5630 | 5630 | 5630 | 5420 | 5280 |
| 1200   | 5320 | 5320 | 5320 | 5320 | 5320 | 5320 | 5320 | 5120 | 4990 |
| 1300   | 5040 | 5040 | 5040 | 5040 | 5040 | 5040 | 5040 | 4850 | 4720 |
| 1400   | 4780 | 4780 | 4780 | 4780 | 4780 | 4780 | 4780 | 4600 | 4480 |
| 1500   | 4560 | 4560 | 4560 | 4560 | 4560 | 4560 | 4560 | 4380 | 4270 |



## SPECIAL TREAD

|                  |              |         |
|------------------|--------------|---------|
| Front Tire Dual  | Dual         | Dual    |
| Front Tire Size  | 8.25-15-14PR | 8.25-15 |
| Overall Width mm | 1965         | 1965    |
| Tread, Front mm  | 1440         | 1440    |

## UNDERCLEARANCE mm

|                                      |     |
|--------------------------------------|-----|
| Mast (Full Load).....                | 125 |
| Drive Axle (Full Load) .....         | 215 |
| Steer Axle (No Load) .....           | 265 |
| Center of Wheelbase (Full Load)..... | 250 |
| Counterweight (No Load) .....        | 220 |

## MAST SPECIFICATIONS & RATED CAPACITIES

| Mast Type             | Maximum Fork Height | Overall Height |                       |                             | Free Lift             |                             | Dual Tire  |     |                                                     |
|-----------------------|---------------------|----------------|-----------------------|-----------------------------|-----------------------|-----------------------------|------------|-----|-----------------------------------------------------|
|                       |                     | Lowered        | Extended              |                             | Without Load Backrest | With Standard Load Backrest | Tilt Range |     | Load Capacity at 600 mm LC                          |
|                       |                     |                | Without Load Backrest | With Standard Load Backrest |                       |                             |            |     |                                                     |
|                       |                     |                |                       |                             |                       |                             | FWD        | BWD | Pneumatic Tire/<br>Pneumatic-Shaped<br>Cushion Tire |
|                       | mm                  | mm             | mm                    | mm                          | mm                    | mm                          | deg        | deg | kg                                                  |
| Wide Visible Mast (V) | 3000                | 2610           | 4085                  | 4400                        | 130                   | 130                         | 6          | 12  | 8000                                                |
|                       | 3300                | 2710           | 4385                  | 4740                        | 130                   | 130                         | 6          | 12  | 8000                                                |
|                       | 3500                | 2810           | 4585                  | 4940                        | 130                   | 130                         | 6          | 12  | 8000                                                |
|                       | 3700                | 3060           | 4785                  | 5140                        | 130                   | 130                         | 6          | 12  | 8000                                                |
|                       | 4000                | 3310           | 5085                  | 5440                        | 130                   | 130                         | 6          | 12  | 8000                                                |
|                       | 4500                | 3560           | 5585                  | 5940                        | 130                   | 130                         | 6          | 12  | 8000                                                |
|                       | 5000                | 3810           | 6085                  | 6440                        | 130                   | 130                         | 6          | 12  | 8000                                                |
|                       | 5500                | 4060           | 6585                  | 6940                        | 130                   | 130                         | 6          | 12  | 7700                                                |
|                       | 6000                | 4310           | 7085                  | 7440                        | 130                   | 130                         | 6          | 12  | 7500                                                |

NOTE: Height of standard load backrest is 1370 mm.

# STANDARD EQUIPMENT

**8FG35N,40N,45N,50N**

**8FD35N,40N,45N,50N,60N,70N,80N**

- Wide Visible Mast ( V ) [ MFH: 3,000 mm ]
- Load backrest (V and FSV masts)  
[Height: 1,220mm(8FG/FD35N,40N,45N)]  
[Height: 1,370mm(8FG/FD50N,8FD60N,70N,80N)]
- Alternator with IC regulator
- Intake heater (Diesel engine models)
- Super glow control system (Diesel engine models)
- Sedimenter (Diesel engine models)
- Same key for multiple forklifts
- 2-stator T/C
- Rear combination lights
- Tilt cylinder boots
- Radiator screen
- Cyclone air cleaner with snorkel air intake
- Engine protection system (Gasoline engine models)
- Electronic fuel injection system (Gasoline engine models)
- Radiator reservoir tank
- Operator Presence Sensing System (OPS)
- Double-action parking brake
- Assist grip
- Neutral safety switch
- Electrical shift control
- Full hydraulic power steering
- Tilt steering column
- Overhead guard sheet
- Overhead guard
- Hidden tilt cylinder
- Engine hood damper (Lockable)
- Jack point
- Drawbar pin
- Engine hood insulator
- Headlights
- Headlights guard
- Rear combination lights
- Integrated light & turn signal switch
- Hour meter
- Engine water temperature indicator
- Fuel meter
- Engine oil pressure warning light
- Charge warning lights
- Pre-heat indicator light (Diesel engine models)
- Sedimenter warning light (Diesel engine models)
- Electric horn
- Cup holder
- ORS seat

Availability and specifications are determined regionally and are subject to change without notice.  
Please consult your Toyota representative for details.

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# ENGINE POWERED FORKLIFT

**8FG/8FD** 3.5 to 8.0 Ton  
Series

