

## 3,000 – 4,500 lbs • Specifications

| Model                                    | 88RU18                               | 88RU23                               | 88DRU15                              |
|--|--------------------------------------|--------------------------------------|--------------------------------------|
| Type                                     | Single Reach                         | Single Reach                         | Double Reach                         |
| Load Capacity (with 24-inch load center) | 3500                                 | 4500                                 | 3000                                 |
| Body Frame Construction                  | Welded steel body and frame          | Welded steel body and frame          | Welded steel body and frame          |
| Steering Type                            | 180-degree electronic power steering | 180-degree electronic power steering | 180-degree electronic power steering |
| Brake Type                               | Electric Disc (foot)                 | Electric Disc (foot)                 | Electric Disc (foot)                 |

### PERFORMANCE DATA

| Model                               |     |                   |        | 88RU18  | 88RU23                 | 88DRU15                |
|-------------------------------------|-----|-------------------|--------|---------|------------------------|------------------------|
| Maximum Travel Speed                | 24V | Full Load/No Load | m.p.h. | 6.0/6.0 | —                      | —                      |
|                                     | 36V | Full Load/No Load | m.p.h. | 7.0/7.0 | 7.3/7.3 <sup>(1)</sup> | 7.3/7.3 <sup>(1)</sup> |
|                                     |     | Out of Free Lift  | m.p.h. | 2.5/2.5 | —/2.5                  | —/2.5                  |
| Lifting Speed                       | 24V | Full Load/No Load | f.p.m. | 40/60   | —                      | —                      |
|                                     | 36V | Full Load/No Load | f.p.m. | 70/85   | 65/100                 | 65/100                 |
| Lowering Speed                      |     |                   |        | 80/80   | 95/90                  | 95/90                  |
| Reach/Retract (to maximum capacity) | 24V | Full Load/No Load | sec.   | 5.0/4.0 | —                      | —                      |
|                                     | 36V | Full Load/No Load | sec.   | 4.5/3.5 | 4.0/3.0                | 5.0/4.0                |
| Grade Clearance                     |     |                   |        | 10      | 10                     | 10                     |

| Model                                   |           |                                  | 88RU18            | 88RU23                           | 88DRU15                          |                          |
|---|-----------|----------------------------------|-------------------|----------------------------------|----------------------------------|--------------------------|
| Compartment Dimensions                  | LxWxH     | in.                              | 38.75 x 14.4 x 32 | 38.75 x 16.4 x 32                | 38.75 x 16.4 x 32                |                          |
|   |           |                                  | 38.75 x 16.4 x 32 | 38.75 x 18.4 x 32 <sup>(3)</sup> | 38.75 x 18.4 x 32 <sup>(3)</sup> |                          |
|   |           |                                  | —                 | 38.75 x 20.9 x 32                | 38.75 x 20.9 x 32                |                          |
| Voltage Capacity (6-hour ratings)       | 24V       | V/AH                             | 24/875            | —                                | —                                |                          |
|   | 36V       | V/AH                             | 36/1000           | 36/1000                          | 36/1000                          |                          |
| Minimum & Maximum Weight <sup>(4)</sup> | min./max. | 38.75 x 14.4 x 32                | lbs.              | 1600/2300                        | —                                |                          |
|   |           | 38.75 x 16.4 x 32                | lbs.              | 2000/2300                        | 2000/2300                        |                          |
|   |           | 38.75 x 18.4 x 32 <sup>(3)</sup> | lbs.              | —                                | 2300/2600 <sup>(4)</sup>         | 2300/2600 <sup>(4)</sup> |
|   |           | 38.75 x 20.9 x 32                | lbs.              | —                                | 2400/2900 <sup>(4)</sup>         | 2400/2900 <sup>(4)</sup> |

### CONTROL TYPE

|                |     |            |            |            |
|----------------|-----|------------|------------|------------|
| Drive          |     | AC         | AC         | AC         |
| Load Handling  | 24V | DC         | —          | —          |
|                | 36V | AC         | AC         | AC         |
| Power Steering |     | Transistor | Transistor | Transistor |

### TIRES

| Type | Drive  | Polyurethane | Polyurethane | Polyurethane |
|------|--------|--------------|--------------|--------------|
| Size | Caster | Polyurethane | Polyurethane | Polyurethane |
|      | Load   | Polyurethane | Polyurethane | Polyurethane |
|      | Drive  | in.          | 13.5 x 6     | 13.5 x 6     |
| Size | Caster | in.          | 7 x 2.75     | 7 x 2.75     |
|      | Load   | in.          | 5 x 4        | 5 x 4        |

- (1) Maximum travel speed for 88RU23 and 88DRU15 models equipped with a 300" FSV mast or larger is 6.0 with full load and 6.5 with no load.  
 (2) Minimum battery weight is the lightest battery required to satisfy stability requirements of the lift trucks.  
 (3) Optional reduced battery compartment size achieved with battery spacer.  
 (4) Maximum fork height limited to 330 in. minimum battery weight above 330 in. is 2600 lbs.

## 3,000 – 4,500 lbs • Mast Specifications

### 88DRU15

| Mast Type | Maximum Fork Height (top of forks) | Overall Height |                             | Free Lift | Tilt Range <sup>(1)</sup>                  |     |
|-----------|------------------------------------|----------------|-----------------------------|-----------|--|-----|
|           |                                    | Lowered        | Extended                    |           | With Standard <sup>(1)</sup> Load Backrest | FWD |
|           |                                    |                | With Standard Load Backrest | in.       |  |     |
| FSV       | 192                                | 89             | 228                         | 41        | 3  | 4   |
|           | 210                                | 95             | 246                         | 47        | 3  | 4   |
|           | 240                                | 107            | 276                         | 59        | 3  | 4   |
|           | 258                                | 115            | 294                         | 67        | 3  | 4   |
|           | 270                                | 119            | 306                         | 71        | 3  | 4   |
|           | 300                                | 131            | 336                         | 83        | 3  | 4   |
|           | 330                                | 143            | 366                         | 95        | 3  | 4   |
|           | 360                                | 155            | 396                         | 107       | 3  | 4   |
|           | 366                                | 159            | 402                         | 111       | 3  | 4   |

- (1) Height of standard load backrest is 36 inches.  
 (2) Tilting load backrest.

# SPECIFICATIONS



3,000 - 4,500 lbs

REACH TRUCK  
AC POWERED



Toyota is the number one selling lift truck in the United States.

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

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Litho in U.S.A. (8M)

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## 3,000 – 4,500 lbs • Standard

### PERFORMANCE

- 36V (available on ALL models)
- 24V (8BRU18 only)
- AC Powered Drive System with Torque Control
- AC Hydraulic System (36V models only)
- Programmable performance parameter
- Multifunction control handle
- Multifunction digital display panel
  - Multifunctional hour meter
  - Time/date display
  - Programmable travel, acceleration, lift speeds and reach/retract; as well as coast control
  - Fault code memory
- Electronic power steering motor
- Series wound lift motor with pulse width modulation (PWM) and variable speed lifting (24V model only)
- Variable speed lift and lowering
- Two speed reach/retract
- UL-approved model type E (except with FSV 270" mast on 24V 8BRU18)

### OPERABILITY

- 180-degree electronic power steering
- Auto-position hold
- Regenerative braking
- Flexible side stance operator compartment
- Wide-view 3-stage mast (FSV)
- Electronically cushioned mast staging
- Pantograph hydraulic cushioning (retract only)
- Hydraulic deceleration at floor level
- 32 to 50 inch baseleg openings (inside dimensions) in one inch increments
- Polyurethane drive wheel
- Dual articulating polyurethane load wheels (bolt-on)
- Polyurethane caster wheel (dual)
- Tilting load backrest extension (3 degrees forward/4 degrees backward)
- 31 inch wide fork carriage
- 42 inch forks
- Electric disc brake
- Anti-static ground strap

### ERGONOMICS

- ERGOMAT® cushioned floor and brake pedal
- Integrated clipboard
- High visibility overhead guard
- Amenity trays
- Cup holder
- Safety glass mast guard
- Comfort-padded lean points

### SERVICEABILITY

- One-piece top cover with interlocking door
- Battery compartment rollers
- Battery retaining gates (adjustable)
- SB350 battery connector
- Battery discharge indicator with lift interrupt
- Brush wear indicator with protection on lift motor (24V truck only)
- Self-diagnostics
- Built-in analyzer
- Over temperature indicator with protection (on drive and lift motors)
- Self-adjusting maintenance free electric disc brake

### OPTIONAL EQUIPMENT

- Light and fan package with independent controls
- Power hook-up for onboard terminal
- 12V Power supply
- Corrosion conditioning model
- Cold storage conditioning model
- Freezer conditioning model
- Load weight display
- Integral Sideshifter
- Forward and reverse travel alarm
- Strobe light
- Overhead guard mounted work area lights
- Custom mast heights
- Mast lift limit switch with bypass
- Wire mesh mast guard
- 36, 44 or 48 inch tilting load backrest
- Low or narrow profile baselegs
- Various drive tire and load wheels
- Polished and tapered forks (42 inch only)
- Various fork lengths
- Various battery compartment sizes
- Fire extinguisher
- Tapered toe box (4"x3" and 5"x4")
- Extended operator backrest
- Knee pad
- Multi-position pillar mounted clip board

**Note:** Please check with your local Toyota sales professional for additional options.

## 3,000 – 4,500 lbs • Specifications

| Model |   | 8BRU18                | 8BRU23                       | 8BDRU15       |                   |
|-------|---|-----------------------|------------------------------|---------------|-------------------|
| A     | Maximum Fork Height                                 | in.                   | See Mast Specification Table |               |                   |
| B     | Mast Lowered Height                                 | in.                   |                              |               |                   |
| C     | Mast Extended Height                                | in.                   |                              |               |                   |
| D     | Free Lift   | in.                   |                              |               |                   |
| E     | Wheelbase <sup>(1)</sup>                            | in.                   | 60.5                         | 63            | 63                |
| F     | Length to Fork Face (Head Length) <sup>(1)(2)</sup> | in.                   | 51.2                         | 53.6          | 59.3              |
| G     | Truck Length <sup>(1)</sup>                         | in.                   | 75.2                         | 77.6          | 77.6              |
| H     | Powerunit Length <sup>(1)</sup>                     | in.                   | 34.8                         | 34.8          | 34.8              |
| I     | Powerunit Width                                     | in.                   | 40.5                         | 40.5          | 40.5              |
| J     | Powerunit Height                                    | in.                   | 53.5                         | 53.5          | 53.5              |
| K     | Carriage Width                                      | in.                   | 31                           | 31            | 31                |
| L     | Load Backrest Height                                | in.                   | 48                           | 48            | 36                |
| M     | Load Backrest Tilt Range                            | forward/backward deg. | 3/4                          | 3/4           | 3/4               |
| N     | Overhead Guard Height <sup>(1)</sup>                | in.                   | 95                           | 95            | 95                |
| O     | Baselegs Opening (inside dimensions)                | in.                   | 32-50                        | 32-50         | 32-50             |
| P     | Baselegs Overall Width (outside dimensions)         | in.                   | 41-61                        | 41-61         | 41-61             |
|       | Baseleg Width                                       | in.                   | 5.5                          | 5.5           | 5.5               |
|       | Fork Size (TxWxL)                                   | in.                   | 1.75 x 4 x 42                | 1.75 x 4 x 42 | 1.75 x 4 x 42     |
| Q     | Fork Adjustment                                     | in.                   | 16-29.5                      | 16-29.5       | 16-29.5           |
| R     | Step Height   | in.                   | 11.5                         | 11.5          | 11.5              |
| S     | Battery Roller Height                               | in.                   | 7                            | 7             | 7                 |
| T     | Bumper to centerline of drive wheel                 | in.                   | 9.1                          | 9.1           | 9.1               |
| U     | Underclearance (centerline of wheelbase)            | in.                   | 2                            | 2             | 2                 |
| V     | Reach Stroke  | in.                   | 23                           | 22            | 38.7              |
| W     | Maximum Reach                                       | in.                   | 28.7                         | 29.6          | 53 <sup>(4)</sup> |
| X     | Outside Turning Radius <sup>(1)</sup>               | in.                   | 72                           | 72.5          | 72.5              |

(1) Based on trucks equipped with 16.4 inch battery compartment. Subtract 2 inches for 14.4 inch compartment. Add 4.5 inches for 20.9 inch compartment.  
 (2) Add 2.5 inches for optional integral sideshifter.  
 (3) Overhead guard height with FSV 89"/192" mast is 89 inches.  
 (4) 143 inch OACH (Overall Collapsed Mast Height) and above is 52 inches, below 143 inch OACH is 53 inches.

## 3,000 – 4,500 lbs • Mast Specifications

### 8BRU18

| Mast Type | Maximum Fork Height (top of forks) | Overall Height |                                      | Free Lift With Standard Load Backrest <sup>(1)</sup> | Tilt Range <sup>(2)</sup> |          |
|-----------|------------------------------------|----------------|--------------------------------------|--|---------------------------|----------|
|           |                                    | Lowered        | Extended With Standard Load Backrest |  | FWD deg.                  | BWD deg. |
|           |                                    | in.            | in.                                  | in.  | in.                       | deg.     |
| FSV       | 192                                | 89             | 240                                  | 41   | 3                         | 4        |
|           | 210                                | 95             | 258                                  | 47   | 3                         | 4        |
|           | 240                                | 107            | 288                                  | 59   | 3                         | 4        |
|           | 258                                | 115            | 306                                  | 67   | 3                         | 4        |
|           | 270 <sup>(3)</sup>                 | 119            | 318                                  | 71   | 3                         | 4        |

### 8BRU23

| Mast Type | Maximum Fork Height (top of forks) | Overall Height |                                      | Free Lift With Standard Load Backrest | Tilt Range <sup>(2)</sup> |          |
|-----------|------------------------------------|----------------|--------------------------------------|---------------------------------------|---------------------------|----------|
|           |                                    | Lowered        | Extended With Standard Load Backrest |                                       | FWD deg.                  | BWD deg. |
|           |                                    | in.            | in.                                  | in.                                   | in.                       | deg.     |
| FSV       | 192                                | 89             | 240                                  | 41                                    | 3                         | 4        |
|           | 210                                | 95             | 258                                  | 47                                    | 3                         | 4        |
|           | 240                                | 107            | 288                                  | 59                                    | 3                         | 4        |
|           | 258                                | 115            | 306                                  | 67                                    | 3                         | 4        |
|           | 270                                | 119            | 318                                  | 71                                    | 3                         | 4        |
|           | 300                                | 131            | 348                                  | 83                                    | 3                         | 4        |
|           | 330                                | 143            | 378                                  | 95                                    | 3                         | 4        |
|           | 360                                | 155            | 408                                  | 107                                   | 3                         | 4        |
|           | 366                                | 159            | 414                                  | 111                                   | 3                         | 4        |

(1) Height of standard load backrest is 48 inches.  
 (2) Tilting load backrest.  
 (3) Not recommended for general applications. UL-approved model type-E not available on 24V trucks equipped with a 270 inch FSV mast.

## 3,000 – 4,500 lbs • Specifications

