

REACH TRUCK



2500 - 4500 LBS.

SPECIFICATIONS



RF1-SD | RF1-SDZ | RF1-HP | RF1-HPZ | RF1-BH | RF1-BE

CLASS
2

ELECTRIC MOTOR NARROW AISLE

ToyotaForklift.com

REACH TRUCK

CAPACITY
2500 - 4500 LBS.

LOAD CENTER
24 IN.

WHEELBASE
55.3 - 66.9 IN.

INDUSTRIES



Cold Storage



Distribution



Factory



Food Processing



Food Storage



General Manufacturing



General Warehousing



Retail

STANDARD FEATURES

PERFORMANCE

- 24 Volt Electrical System⁴
- 36 Volt Electrical System⁵
- AC Powered Drive System with Torque Control
- AC Hydraulic System
- Multifunction Control Handle
- Variable Speed Lift and Lowering
- Electric Power Steering Motor
- 7" Color Touchscreen Display Panel
 - Multifunctional Hour Meter
 - Time & Date Display
 - Programmable Travel, Acceleration, Lift/Lower Speeds, Reach/Retract & Coast Control
 - Fault Code Memory
 - Weight Display
- Two Speed Reach / Retract
- Current controlled proportional valve
- Lowering flow limiter
- Lift system relief valve
- UL "E" Construction

OPERABILITY

- 180-Degree Electronic Power Steering
- Auto-Position Hold
- Sidestance Operator Compartment
- Sidestance Model With Flip-Down Seat¹⁰
- Open-View 3-Stage Mast (FSW)
- Hydraulically Cushioned Mast Staging
- Hydraulic Cushioned Retract System
- Hydraulic Fork Deceleration at Floor Level
- 33 in. to 52 in. Base Leg Openings (ID)
 - in 1 in. increments^{1,2}
- Polyurethane Drive Tire (13.5 in. dia. x 6.0 in.)
- Tandem Articulated, Bolt-On Polyurethane
 - Load Wheels (5 in. x 3.62 in.)
 - Load Wheels (6 x 4 in.)
- Polyurethane Caster Wheel (8 in. x 4 in.)
- Electric Disc Brake
- Regenerative Plugging
- Ventilated Tractor Compartment w/ Door Mounted High Capacity Cooling Fan
- 36 in Tilting Load Backrest Extension (5° Fwd / 3° Bwd)
- 36 in Tilting Load Backrest Extension (3° Fwd / 4.5° Bwd)
- ITA Class II Hook-Type Carriage (32 in. Wide)
- Forks: 42 in. x 1.5 in. x 4 in. / 42 in. x 1.75 in. x 4 in.
- Anti-Static Ground Strap
- Proportional handle plugging
- Lift slowdown at max lift
- Tapered Toe Box 5" x 3.62"⁹
- Adjustable speed limit above freelif (0-3.5 mph)
- View-through Carriage

ERGONOMICS

- Bubble Cushioned Padded Floor & Brake Pedal
- Low Step Height
- High Visibility Overhead Guard
- Safety Glass Mast Guard³
- Comfort-Padded Lean Points
- Cushioned Knee Pad

SERVICEABILITY

- Battery Compartment Rollers
- Battery Retaining Gates (Adjustable)
- SB350 Red Connector⁴
- SB350 Grey Connector⁵
- Bolt-on, Ductile Iron Base Legs
- Battery Discharge Indicator w/ Lift Interrupt
- Self Diagnostics
- Built-In Analyzer
- Self-Adjusting Electric Disc Brake
- Emergency Power Disconnect Switch
- Electro-Mechanical Horn
- Key Switch
- Enclosed Battery Compartment:
 - 14.2 in. x 38.62 in. x 31 in.⁶
 - 16.2 in. x 38.62 in. x 31 in.
 - 18.2 in. x 38.62 in. x 31 in.⁷
 - 21.2 in. x 38.62 in. x 31 in.⁷
 - 23.8 in. x 38.62 in. x 31 in.⁸

¹ Specify base leg opening size (Inside Dimension).

² In order to straddle the load ensure that the baseleg opening size (ID) is at least 2 in. greater than the load width.

³ When the cold storage/freezer conditioning option is ordered, the safety glass mast guard is replaced with the wire mesh mast guard.

⁴ Standard on RF1-BE models only.

⁵ Standard on RF1-BH, RF1-SD and RF1-HP models only.

⁶ Available on RF1-BE and RF1-BH models only.

⁷ Available on RF1-BH, RF1-SD and RF1-HP models only.

⁸ Available on RF1-HC models only.

⁹ Double reach models only.

¹⁰ Available on RF1-SDZ and RF1-HPZ models only.

OPTIONAL EQUIPMENT

LOAD HANDLING

- Various fork lengths
- Forks side tapered 4" x 1.75"
- Forks side and top tapered 4" x 1.75" with floor lowered height
- Forks 5x1.5 (4500 lb. rated forks)
- Forks 4x1.5 (4500 lb. rated forks)
- Forks top tapered with floor lowered height
- Forks top tapered and polished with floor lowered height
- Custom fork lengths up to 48" (specify length)
- Less forks
- Forks lower to floor height
- Various tilting backrest extensions
- Custom mast height (1 in. increments)
- Remove sideshift
- Integral sideshifter, 4 in. each way

BODY

- Full height mast guard, glass
- Wire mesh mast guard, partial height
- Wire mesh mast guard, full-height
- Hinged rear operator guard, partial length
- Hinged rear operator guard, full length
- Overhead guard clear shield
- Overhead guard mesh shield
- Custom overhead guard height
- Steered caster
- Inertial dampener
- 3" underclearance
- Fire extinguisher, 2.5 lb. dry chemical

WHEELS AND TIRES

- Various drive tire types
- Various load wheel types
- Various caster wheel types
- Various Tapered Toe Box and Baseleg Options

LIGHTS, INDICATORS & MISC.

- Led overhead guard mounted work lights (pair)
- Operator compartment led dome light
- LED travel activated work lights (1 forward, 1 reverse)
- LED forward travel activated work light
- LED reverse travel activated work light
- LED strobe light options
- Special mounting for strobe light (bottom mounted)
- Blue spotlight, key-on, tractor first only
- Blue spotlight, key-on, both directions
- Various travel alarms
- Electronic horn

PRODUCTIVITY

- RF bracket options
- Power hook-up for on-board terminal (2 or 10 amp)
- Acculaser (red or green)
- Camera system cable
- Carriage-mounted camera system
- Height indicator
- Height and tilt indicator
- Weight height limit display
- Auto height select (includes reach interlock switch)
- High-Speed Lift/Regen Lower
- Load weight display
- Mast lift limit switch w/ bypass (1 in. increments)
- Mast lift limit switch w/o bypass (1 in. increments)
- Travel speed limit switch
- Mechanical lift stop
- Reach interlock switch

OPERABILITY AND COMFORT

- Sidestance operator compartment
- Rear OHG posts
- Steer tiller friction block
- Heavy-duty drive unit
- Steering wheel bar
- Secondary control handle
- Tiller 1" shorter
- Forward steering
- Reverse steering
- Compartment sensing system
- Compartment sensing system for cold storage/freezer
- Keyless on/off switch
- Electronic key (operator pin code entry)
- Operator compartment fan
- Heated handle and floor
- On-board, easy-attach power (for cold storage clothing)

BATTERY ACCESSORIES

- Optional battery connector colors
- Battery side gate interlock
- Various battery spacer options

SPECIAL MODELS

- UL Type "E" Rating
- UL type "EE" rating
- Fore-Aft Stance operator compartment
- Sit/Stand Stance operator compartment
- Special paint color with black mast
- Cold storage conditioning, freezer



TOYOTA

TOYOTA



AC POWERED

TRUCK SPECIFICATIONS

MODEL NUMBERS

| GENERAL DATA | | | RF1-BE1X35 | | RF1-BE1X40 | | RF1-BE2X25 | | |
|---|----------------------------|-----------------------|--|------------------------|--|------------------------|--|------------------------|------------|
| Type / Load Capacity ¹ | lb (kg) | | Single Reach / 3500 (1580) | | Single Reach / 4000 (1814) | | Double Reach / 2500 (1134) | | |
| Load Center | in. (mm) | | 24 (600) | | 24 (600) | | 24 (600) | | |
| Battery Compartment Size | in. | | 14.2 | 16.2 | 14.2 | 16.2 | 14.2 | 16.2 | |
| Power Type | | | Battery | | Battery | | Battery | | |
| Operator Position | | | Stand-Up Rider | | Stand-Up Rider | | Stand-Up Rider | | |
| EXTERIOR DIMENSIONS | | | RF1-BE1X35 BATTERY COMPARTMENT SIZE | | RF1-BE1X40 BATTERY COMPARTMENT SIZE | | RF1-BE2X25 BATTERY COMPARTMENT SIZE | | |
| | | | 14.2" | 16.2" | 14.2" | 16.2" | 14.2" | 16.2" | |
| A Maximum Fork Height (MFH) | in (mm) | | 270 (6858) | | 270 (6858) | | 264 (6706) | | |
| B Free Lift | in (mm) | | 73 (1854) | | 73 (1854) | | 80 (2032) | | |
| C Fork Lowered Height | in (mm) | | 3 (76) | | 3 (76) | | 3 (76) | | |
| D Tilt Range | Fwd/Bwd | degrees | 3/4.5 | | 3/4.5 | | 3/4.5 | | |
| E Mast Extended Height | in (mm) | | 307 (7798) | | 307 (7798) | | 302 (7671) | | |
| F Mast Lowered Height | in (mm) | | 115 (2921) | | 115 (2921) | | 118 (2997) | | |
| G Load Backrest Height | | | 36 (914) | | 36 (914) | | 36 (914) | | |
| H Overhead Guard Height | in (mm) | | See Mast Specifications Table | | See Mast Specifications Table | | See Mast Specifications Table | | |
| I Battery Roller Height | in (mm) | | 7 (178) | | 7 (178) | | 7 (178) | | |
| J Bumper to Centerline of Drive Wheel | | | 11.35 (288) | | 11.35 (288) | | 11.35 (288) | | |
| K Wheelbase | in (mm) | | 56.5 (1435) | 58.5 (1486) | 55.3 (1405) | 57.3 (1456) | 59.6 (1514) | 61.6 (1575) | |
| L Length to Fork Face | in (mm) | | 54 (1372) | 56 (1422) | 55.3 (1405) | 57.3 (1456) | 60 (1524) | 62 (1575) | |
| M Truck Length (length to end of base legs) | in (mm) | | 75.6 (1920) | 77.6 (1970) | 77.2 (1961) | 79.2 (2012) | 81.3 (2065) | 83.3 (2116) | |
| N Underclearance (center of wheelbase) | No Load | in (mm) | 2 (51) | | 2 (51) | | 2 (51) | | |
| O Truck Mast Overall Width | | in (mm) | 31 (787) | | 31 (787) | | 31 (787) | | |
| P Fork Size | T x W X L | in (mm) | 1.5 x 4 x 42 (38 x 102 x 1067) | | 1.75 x 4 x 42 (44 x 102 x 1067) | | 1.5 x 4 x 42 (38 x 102 x 1067) | | |
| Q Fork Spread (outer edge to edge) | Min./Max. | in (mm) | 15 (381) / 30 (762) | | 15 (381) / 30 (762) | | 15 (381) / 30 (762) | | |
| R Power Unit Height ³ | | in (mm) | 51.5 (1308) | | 51.5 (1308) | | 51.5 (1308) | | |
| S Power Unit Width | | in (mm) | 42.5 (1080) | | 42.5 (1080) | | 42.5 (1080) | | |
| T Base Leg Width | | | 5.5 (140) | | 5.5 (140) | | 5.25 (133) | | |
| U Base Leg Inside Dimension (ID) | in (mm) | | 33 to 52 (838 to 1321) | | 33 to 52 (838 to 1321) | | 33 to 52 (838 to 1321) | | |
| V Base Leg Outside Dimension (OD) | in (mm) | | 44 to 63 (1118 to 1600) | | 44 to 63 (1118 to 1600) | | 43.5 to 62.5 (1105 to 1588) | | |
| W Outside Turning Radius | in (mm) | | 70.8 (1798) | 72.8 (1849) | 72.1 (1831) | 74.1 (1882) | 73.6 (1869) | 75.6 (1920) | |
| Basic Right Angle Stacking Aisle Width ⁴ | | | Ask Dealer | | Ask Dealer | | Ask Dealer | | |
| Carriage Height | in (mm) | | 36 (914) | | 36 (914) | | 36 (914) | | |
| Reach Stroke | in (mm) | | 22.75 (578) | | 22.75 (578) | | 42 (1067) | | |
| Step Height | in (mm) | | 9.25 (235) | | 9.25 (235) | | 9.25 (235) | | |
| PERFORMANCE DATA | | | RF1-BE1X35 BATTERY COMPARTMENT SIZE | | RF1-BE1X40 BATTERY COMPARTMENT SIZE | | RF1-BE2X25 BATTERY COMPARTMENT SIZE | | |
| | | | 14.2" | 16.2" | 14.2" | 16.2" | 14.2" | 16.2" | |
| Speeds (Maximum) ⁵ | Travel Tractor First | Full Load | mph (km/h) | 5.5 (8.9) | 5.5 (8.9) | 5.5 (8.9) | 6.5 (10.5) | 6.5 (10.5) | |
| | | No Load | mph (km/h) | 6.5 (10.5) | 6.5 (10.5) | 6.5 (10.5) | 6.5 (10.5) | 6.5 (10.5) | |
| | Travel Forks First | Full Load | mph (km/h) | 5.5 (8.9) | 5.5 (8.9) | 5.5 (8.9) | 6.5 (10.5) | 6.5 (10.5) | |
| | | No Load | mph (km/h) | 6.5 (10.5) | 6.5 (10.5) | 6.5 (10.5) | 6.0 (9.7) | 6.0 (9.7) | |
| | Lifting | Full Load | fpm (mm/sec) | 40 (200) | 40 (200) | 40 (200) | 40 (200) | 40 (200) | |
| | | No Load | fpm (mm/sec) | 60 (300) | 60 (300) | 60 (300) | 60 (305) | 60 (305) | |
| | Lowering | Full Load | fpm (mm/sec) | 110 (559) | 110 (559) | 110 (559) | 110 (559) | 110 (559) | |
| | | No Load | fpm (mm/sec) | 110 (559) | 110 (559) | 110 (559) | 110 (559) | 110 (559) | |
| | Out of Free Lift | | mph (km/h) | 0 - 3.5 (0 - 5.6) | | 0 - 3.5 (0 - 5.6) | | 0 - 3.5 (0 - 5.6) | |
| | | Full Load | sec | 3.2 | | 3.2 | | 3.5 | |
| Reach / Retract | Full Load | sec | 3.2 | | 3.2 | | 3.5 | | |
| | No Load | sec | 3.2 | | 3.2 | | 3.5 | | |
| TRUCK WEIGHTS | | | RF1-BE1X35 BATTERY COMPARTMENT SIZE | | RF1-BE1X40 BATTERY COMPARTMENT SIZE | | RF1-BE2X25 BATTERY COMPARTMENT SIZE | | |
| | | | 14.2" | 16.2" | 14.2" | 16.2" | 14.2" | 16.2" | |
| Total Weight (without battery) | lb (kg) | | 5700 (2585) | | 5700 (2585) | | 6599 (2993) | | |
| TIRES | | | RF1-BE1X35 BATTERY COMPARTMENT SIZE | | RF1-BE1X40 BATTERY COMPARTMENT SIZE | | RF1-BE2X25 BATTERY COMPARTMENT SIZE | | |
| | | | 14.2" | 16.2" | 14.2" | 16.2" | 14.2" | 16.2" | |
| Tires | Tire Type | Drive / Caster / Load | Polyurethane | | Polyurethane | | Polyurethane | | |
| | Number (x = driven) | Drive / Caster / Load | 1x/1/4 | | 1x/1/4 | | 1x/1/4 | | |
| | | Drive | in (mm) | 13.5 x 6.0 (343 x 152) | | 13.5 x 6.0 (343 x 152) | | 13.5 x 6.0 (343 x 152) | |
| | Size (dia. X width) | Caster | in (mm) | 8 x 4 (203 x 102) | | 8 x 4 (203 x 102) | | 8 x 4 (203 x 102) | |
| Load | | in (mm) | 5 x 3.62 (127 x 92) | | 5 x 3.62 (127 x 92) | | 5 x 3.62 (127 x 92) | | |
| Suspension | | Caster | Spring Loaded | | Spring Loaded | | Spring Loaded | | |
| Grade Clearance | % | | 14 | | 14 | | 13 | | |
| Gradability | % | | 7 | | 7 | | 7 | 5 | |
| Brake Type | | | Electric Disc | | Electric Disc | | Electric Disc | | |
| POWER SYSTEM | | | RF1-BE1X35 BATTERY COMPARTMENT SIZE | | RF1-BE1X40 BATTERY COMPARTMENT SIZE | | RF1-BE2X25 BATTERY COMPARTMENT SIZE | | |
| | | | 14.2" | 16.2" | 14.2" | 16.2" | 14.2" | 16.2" | |
| Battery Type | | | Lead Acid | | Lead Acid | | Lead Acid | | |
| Battery (6-hour ratings) ² | Compartment Size (Maximum) | Length | in (mm) | 14.2 (361) | 16.2 (412) | 14.2 (361) | 16.2 (411) | 14.2 (361) | 16.2 (411) |
| | | Width | in (mm) | 38.62 (981) | | 38.62 (981) | | 38.62 (981) | |
| | Voltage / Capacity | Height | in (mm) | 31 (787) | | 31 (787) | | 31 (787) | |
| | | Maximum | V/AH | 24 / 1080 | | 24 / 1080 | | 24 / 1080 | |
| Weight | Minimum | lb (kg) | 1600 (726) | 2000 (907) | 1600 (726) | 2000 (907) | 1600 (726) | 2000 (907) | |
| | Maximum | lb (kg) | 2000 (907) | 2300 (1043) | 2000 (907) | 2300 (1043) | 2000 (907) | 2300 (1043) | |
| Electric Motors | Drive | hp (kw) | 6.3 (4.7) | | 6.3 (4.7) | | 6.3 (4.7) | | |
| | Load Handling | hp (kw) | 14.1 (10.5) | | 14.1 (10.5) | | 14.1 (11) | | |
| Control Type | Drive | | AC | | AC | | AC | | |
| | Load Handling | | AC | | AC | | AC | | |
| | Power Steering | | Transistor | | Transistor | | Transistor | | |

1 Please refer to the Mast Specifications.

2 Please refer to the Battery Compartment Specification Chart.

3 Add 8.5 in. (216 mm) for optional extended operator backrest.

4 Please refer to the Aisle Width Requirements for Right Angle Stacking Charts.

5 Maximum speed provided is after break-in period. Values vary with truck weight, rolling resistance, mast height, options, and battery condition.

TRUCK SPECIFICATIONS

MODEL NUMBERS

| GENERAL DATA | | | RF1-BH1X35 | | | RF1-BH1X40 | | | |
|---|----------------------------|-----------------------|--------------------------------|------------------------|-------------|--------------------------------|------------------------|--|--|
| Type / Load Capacity ¹ | lb (kg) | | Single Reach / 3500 (1588) | | | Single Reach / 4000 (1814) | | | |
| Load Center | in. (mm) | | 24 (600) | | | 24 (600) | | | |
| Battery Compartment Size | in. | | 13.5 | 16.5 | 18.5 | 14.2 | | | |
| Power Type | | | Battery | | | Battery | | | |
| Operator Position | | | Stand-Up Rider | | | Stand-Up Rider | | | |
| EXTERIOR DIMENSIONS | | | BATTERY COMPARTMENT SIZE | | | BATTERY COMPARTMENT SIZE | | | |
| | | | 13.5" | 16.5" | 18.5" | 14.2" | | | |
| A Maximum Fork Height (MFH) | in (mm) | | 270 (6858) | | | 268 (6807) | | | |
| B Free Lift | in (mm) | | 73 (1854) | | | 76 (1930) | | | |
| C Fork Lowered Height | in (mm) | | 3 (76) | | | 3 (76) | | | |
| D Tilt Range | Fwd/Bwd | degrees | 3/4.5 | | | 3/4.5 | | | |
| E Mast Extended Height | in (mm) | | 307 (7798) | | | 304 (7721) | | | |
| F Mast Lowered Height | in (mm) | | 115 (2921) | | | 118 (2997) | | | |
| G Load Backrest Height | | | 36 (914) | | | 36 (914) | | | |
| H Overhead Guard Height | in (mm) | | See Mast Specifications Table | | | See Mast Specifications Table | | | |
| I Battery Roller Height | in (mm) | | 7 (178) | | | 7 (178) | | | |
| J Bumper to Centerline of Drive Wheel | | | 11.35 (288) | | | 11.35 (288) | | | |
| K Wheelbase | in (mm) | | 56.5 (1435) | 58.5 (1486) | 60.5 (1537) | 58.1 (1476) | | | |
| L Length to Fork Face | in (mm) | | 54 (1372) | 56 (1422) | 58 (1473) | 55.3 (1405) | | | |
| M Truck Length (length to end of base legs) | in (mm) | | 75.6 (1920) | 77.6 (1971) | 79.6 (2021) | 77.2 (1961) | | | |
| N Underclearance (center of wheelbase) | No Load | in (mm) | 2 (51) | | | 2 (51) | | | |
| O Truck Mast Overall Width | | in (mm) | 31 (787) | | | 31 (787) | | | |
| P Fork Size | T x W X L | in (mm) | 1.5 x 4 x 42 (38 x 102 x 1067) | | | 1.5 x 4 x 42 (38 x 102 x 1067) | | | |
| Q Fork Spread (outer edge to edge) | Min./Max. | in (mm) | 15 (381) / 30 (762) | | | 15 (381) / 30 (762) | | | |
| R Power Unit Height ³ | | in (mm) | 51.5 (1308) | | | 51.5 (1308) | | | |
| S Power Unit Width | | in (mm) | 42.5 (1080) | | | 42.5 (1080) | | | |
| T Base Leg Width | | | 5.5 (140) | | | 5.5 (140) | | | |
| U Base Leg Inside Dimension (ID) | | in (mm) | 33 to 52 (838 to 1321) | | | 33 to 52 (838 to 1321) | | | |
| V Base Leg Outside Dimension (OD) | | in (mm) | 44 to 63 (1118 to 1600) | | | 44 to 63 (1118 to 1600) | | | |
| W Outside Turning Radius | | in (mm) | 70.8 (1798) | 72.8 (1849) | 74.8 (1900) | 72.1 (1831) | | | |
| Basic Right Angle Stacking Aisle Width ⁴ | | | See Chart | | | See Chart | | | |
| Carriage Height | | in (mm) | 36 (914) | | | 36 (914) | | | |
| Reach Stroke | | in (mm) | 22.75 (578) | | | 22.75 (578) | | | |
| Step Height | | in (mm) | 9.25 (235) | | | 9.25 (235) | | | |
| PERFORMANCE DATA | | | BATTERY COMPARTMENT SIZE | | | BATTERY COMPARTMENT SIZE | | | |
| | | | 13.5" | 16.5" | 18.5" | 14.2" | | | |
| Speeds (Maximum) ⁵ | Travel Tractor First | Full Load | 7.0 (11.3) | | | 7.0 (11.3) | | | |
| | | No Load | 7.5 (12.0) | | | 7.5 (12.0) | | | |
| | Travel Forks First | Full Load | 5.5 (8.9) | | | 5.5 (8.9) | | | |
| | | No Load | 7.5 (12.0) | | | 7.5 (12.0) | | | |
| | Lifting | Full Load | 70 (350) | | | 65 (330) | | | |
| | | No Load | 100 (500) | | | 115 (580) | | | |
| | Lowering | Full Load | 110 (559) | | | 110 (559) | | | |
| | | No Load | 110 (559) | | | 110 (559) | | | |
| | Out of Free Lift | | 0 - 3.5 (0 - 5.6) | | | 0 - 3.5 (0 - 5.6) | | | |
| | Reach / Retract | Full Load | 3.2 | | | 3.2 | | | |
| No Load | | 3.2 | | | 3.2 | | | | |
| TRUCK WEIGHTS | | | BATTERY COMPARTMENT SIZE | | | BATTERY COMPARTMENT SIZE | | | |
| | | | 13.5" | 16.5" | 18.5" | 14.2" | | | |
| Total Weight (without battery) | lb (kg) | | 6229 (2825) | | | 6229 (2825) | | | |
| TIRES | | | BATTERY COMPARTMENT SIZE | | | BATTERY COMPARTMENT SIZE | | | |
| | | | 13.5" | 16.5" | 18.5" | 14.2" | | | |
| Tires | Tire Type | Drive / Caster / Load | Polyurethane | | | Polyurethane | | | |
| | Size (dia. X width) | Number (x = driven) | 1x/1/4 | | | 1x/1/4 | | | |
| | | Drive | in (mm) | 13.5 x 6.0 (343 x 152) | | | 13.5 x 6.0 (343 x 152) | | |
| | | Caster | in (mm) | 8 x 4 (203 x 102) | | | 8 x 4 (203 x 102) | | |
| | Load | in (mm) | 5 x 3.62 (127 x 92) | | | 5 x 3.62 (127 x 92) | | | |
| Suspension | | Caster | Spring Loaded | | | Spring Loaded | | | |
| Grade Clearance | % | | 14 | | | 14 | | | |
| Gradability | % | | 7 | | | 7 | | | |
| Brake Type | | | Electric Disc | | | Electric Disc | | | |
| POWER SYSTEM | | | BATTERY COMPARTMENT SIZE | | | BATTERY COMPARTMENT SIZE | | | |
| | | | 13.5" | 16.5" | 18.5" | 14.2" | | | |
| Battery Type | | | Lead Acid | | | Lead Acid | | | |
| Battery (6-hour ratings) ² | Compartment Size (Maximum) | Length | in (mm) | 14.2 (361) | 16.2 (412) | 18.2 (463) | 14.23 (361) | | |
| | | Width | in (mm) | 38.62 (981) | | | 38.62 (981) | | |
| | | Height | in (mm) | 31 (787) | | | 31 (787) | | |
| | Voltage / Capacity | | 36 / 1240 | | | 36 / 1240 | | | |
| | Weight | Minimum | lb (kg) | 1600 (726) | 2000 (907) | 2300 (1043) | 1600 (726) | | |
| Maximum | | lb (kg) | 2000 (907) | 2300 (1043) | 2600 (1179) | 2000 (907) | | | |
| Electric Motors | Drive | hp (kw) | 7.1 (5.3) | | | 7.1 (5.3) | | | |
| | Load Handling | hp (kw) | 16.9 (12.6) | | | 16.9 (12.6) | | | |
| Control Type | Drive | | AC | | | AC | | | |
| | Load Handling | | AC | | | AC | | | |
| | Power Steering | | Transistor | | | Transistor | | | |

1 Please refer to the Mast Specifications.

2 Please refer to the Battery Compartment Specification Chart.

3 Add 8.5 in. (216 mm) for optional extended operator backrest.

4 Please refer to the Aisle Width Requirements for Right Angle Stacking Charts.

5 Maximum speed provided is after break-in period. Values vary with truck weight, rolling resistance, mast height, options, and battery condition.

MODEL NUMBERS

| GENERAL DATA | | | RF1-BH1X45 | | | RF1-BH2X25 | | | |
|---|----------------------------|-----------------------|--------------------------------|------------------------|-------------|--------------------------------|------------------------|-------------------------|--|
| Type / Load Capacity ¹ | lb (kg) | | Single Reach / 4500 (2041) | | | Double Reach / 2500 (1134) | | | |
| Load Center | in. (mm) | | 24 (600) | | | 24 (600) | | | |
| Battery Compartment Size | in. | | 16.2 | 18.2 | 21.2 | 14.2 | | 16.2 | |
| Power Type | | | Battery | | | Battery | | | |
| Operator Position | | | Stand-Up Rider | | | Stand-Up Rider | | | |
| EXTERIOR DIMENSIONS | | | BATTERY COMPARTMENT SIZE | | | BATTERY COMPARTMENT SIZE | | | |
| | | | 16.2" | 18.2" | 21.2" | 14.2" | | 16.2" | |
| A Maximum Fork Height (MFH) | in (mm) | | 330 (8382) | 372 (9449) | 372 (9449) | 252 (6401) | | | |
| B Free Lift | in (mm) | | 104 (2642) | 118 (2997) | 118 (2997) | 76 (1930) | | 73 (1854) | |
| C Fork Lowered Height | in (mm) | | 3 (76) | | | 3 (76) | | | |
| D Tilt Range | Fwd/Bwd | degrees | 3/4.5 | | | 3/4.5 | | | |
| E Mast Extended Height | in (mm) | | 366 (9296) | 408 (10363) | 408 (10363) | 290 (7366) | | | |
| F Mast Lowered Height | in (mm) | | 146 (3708) | 160 (4064) | 160 (4064) | 114 (2896) | | | |
| G Load Backrest Height | | | 36 (914) | | | 36 (914) | | | |
| H Overhead Guard Height | in (mm) | | See Mast Specifications Table | | | See Mast Specifications Table | | | |
| I Battery Roller Height | in (mm) | | 7 (178) | | | 7 (178) | | | |
| J Bumper to Centerline of Drive Wheel | | | 11.35 (288) | | | 11.35 (288) | | | |
| K Wheelbase | in (mm) | | 60.1 (1526) | 62.1 (1577) | 65.1 (1654) | 59.6 (1514) | | 61.6 (1565) | |
| L Length to Fork Face | in (mm) | | 57.3 (1455) | 59.3 (1506) | 62.3 (1582) | 60 (1524) | | 62 (1575) | |
| M Truck Length (length to end of base legs) | in (mm) | | 79.2 (2012) | 81.2 (2062) | 84.2 (2139) | 81.3 (2065) | | 83.3 (2116) | |
| N Underclearance (center of wheelbase) | No Load | in (mm) | 2 (51) | | | 2 (51) | | | |
| O Truck Mast Overall Width | | in (mm) | 31 (787) | | | 31 (787) | | | |
| P Fork Size | T x W x L | in (mm) | 1.5 x 4 x 42 (38 x 102 x 1067) | | | 1.5 x 4 x 42 (38 x 102 x 1067) | | | |
| Q Fork Spread (outer edge to edge) | Min./Max. | in (mm) | 15 (381) / 30 (762) | | | 15 (381) / 30 (762) | | | |
| R Power Unit Height ³ | | in (mm) | 51.5 (1308) | | | 51.5 (1308) | | | |
| S Power Unit Width | | in (mm) | 42.5 (1080) | | | 42.5 (1080) | | | |
| T Base Leg Width | | | 6.0 (152) | | | 5.25 (133) | | | |
| U Base Leg Inside Dimension (ID) | | in (mm) | 33 to 52 (838 to 1321) | | | 33 to 52 (838 to 1321) | | | |
| V Base Leg Outside Dimension (OD) | | in (mm) | 45 to 64 (1143 to 1626) | | | 43.5 to 62.5 (1105 to 1588) | | 44 to 63 (1118 to 1600) | |
| W Outside Turning Radius | | in (mm) | 74.2 (1885) | 76.2 (1935) | 79.2 (2012) | 73.6 (1869) | | 75.6 (1920) | |
| Basic Right Angle Stacking Aisle Width ⁴ | | | See Chart | | | See Chart | | | |
| Carriage Height | | in (mm) | 36 (914) | | | 38 (965) | | | |
| Reach Stroke | | in (mm) | 22.75 (578) | | | 42 (1067) | | | |
| Step Height | | in (mm) | 9.25 (235) | | | 9.25 (235) | | | |
| PERFORMANCE DATA | | | BATTERY COMPARTMENT SIZE | | | BATTERY COMPARTMENT SIZE | | | |
| | | | 16.2" | 18.2" | 21.2" | 14.2" | | 16.2" | |
| Speeds (Maximum) ⁵ | Travel Tractor First | Full Load | 7.0 (11.3) | | | 7.0 (11.3) | | | |
| | | No Load | 7.5 (12.0) | | | 7.5 (12.0) | | | |
| | Travel Forks First | Full Load | 5.5 (8.9) | | | 6.0 (9.7) | | | |
| | | No Load | 7.5 (12.0) | | | 7.5 (12.0) | | | |
| | Lifting | Full Load | 65 (333) | | | 75 (380) | | | |
| | | No Load | 115 (580) | | | 110 (560) | | | |
| | Lowering | Full Load | 110 (559) | | | 110 (560) | | | |
| | | No Load | 110 (559) | | | 110 (560) | | | |
| | Out of Free Lift | | 0 - 3.5 (0 - 5.6) | | | 0 - 3.5 (0 - 5.6) | | | |
| | Reach / Retract | Full Load | 3.2 | | | 3.5 | | | |
| No Load | | 3.2 | | | 3.5 | | | | |
| TRUCK WEIGHTS | | | BATTERY COMPARTMENT SIZE | | | BATTERY COMPARTMENT SIZE | | | |
| | | | 16.2" | 18.2" | 21.2" | 14.2" | | 16.2" | |
| Total Weight (without battery) | lb (kg) | | 6723 (3050) | 7148 (3242) | 7148 (3242) | 6534 (2964) | | | |
| TIRES | | | BATTERY COMPARTMENT SIZE | | | BATTERY COMPARTMENT SIZE | | | |
| | | | 16.2" | 18.2" | 21.2" | 14.2" | | 16.2" | |
| Tires | Tire Type | Drive / Caster / Load | Polyurethane | | | Polyurethane | | | |
| | Size (dia. X width) | Number (x = driven) | 1x/1/4 | | | 1x/1/4 | | | |
| | | Drive | in (mm) | 13.5 x 6.0 (343 x 152) | | | 13.5 x 6.0 (343 x 152) | | |
| | | Caster | in (mm) | 8 x 4 (203 x 102) | | | 8 x 4 (203 x 102) | | |
| | Load | in (mm) | 5 x 3.62 (127 x 92) | | | 5 x 3.62 (127 x 92) | | | |
| Suspension | | Caster | Spring Loaded | | | Spring Loaded | | | |
| Grade Clearance | % | | 14 | | | 13 | | | |
| Gradability | % | | 7 | | | 5 | | | |
| Brake Type | | | Electric Disc | | | Electric Disc | | | |
| POWER SYSTEM | | | BATTERY COMPARTMENT SIZE | | | BATTERY COMPARTMENT SIZE | | | |
| | | | 16.2" | 18.2" | 21.2" | 14.2" | | 16.2" | |
| Battery Type | | | Lead Acid | | | Lead Acid | | | |
| Battery (6-hour ratings) ² | Compartment Size (Maximum) | Length | in (mm) | 16.2 (412) | 18.2 (463) | 21.2 (539) | 14.2 (361) | 16.2 (412) | |
| | | Width | in (mm) | 38.62 (981) | | | 38.62 (981) | | |
| | | Height | in (mm) | 31 (787) | | | 31 (787) | | |
| | Voltage / Capacity | V/AH | | 36 / 1240 | | | 36 / 1240 | | |
| Weight | Minimum | lb (kg) | 2000 (907) | 2300 (1043) | 2600 (1179) | 1600 (726) | | 2000 (907) | |
| | Maximum | lb (kg) | 2300 (1043) | 2600 (1179) | 2900 (1315) | 2000 (907) | | 2300 (1043) | |
| Electric Motors | Drive | hp (kw) | 7.1 (5.3) | | | 7.1 (5.3) | | | |
| | Load Handling | hp (kw) | 16.9 (12.6) | | | 16.9 (12.6) | | | |
| Control Type | Drive | | AC | | | AC | | | |
| | Load Handling | | AC | | | AC | | | |
| | Power Steering | | Transistor | | | Transistor | | | |

1 Please refer to the Mast Specifications.

2 Please refer to the Battery Compartment Specification Chart.

3 Add 8.5 in. (216 mm) for optional extended operator backrest.

4 Please refer to the Aisle Width Requirements for Right Angle Stacking Charts.

5 Maximum speed provided is after break-in period. Values vary with truck weight, rolling resistance, mast height, options, and battery condition.

TRUCK SPECIFICATIONS

MODEL NUMBERS

| GENERAL DATA | | | RF1-BH2X30 | | | RF1-SD1X35 | | | |
|---|----------------------------|-----------------------|--------------------------------|------------------------|-------------|--------------------------------|------------------------|-------------|--|
| Type / Load Capacity ¹ | lb (kg) | | Double Reach / 3000 (1361) | | | Single Reach / 3500 (1588) | | | |
| Load Center | in. (mm) | | 24 (600) | | | 24 (600) | | | |
| Battery Compartment Size | in. | | 16 | 18 | 21 | 16.2 | | 18.2 | |
| Power Type | | | Battery | | | Battery | | | |
| Operator Position | | | Stand-Up Rider | | | Stand-Up Rider | | | |
| EXTERIOR DIMENSIONS | | | BATTERY COMPARTMENT SIZE | | | BATTERY COMPARTMENT SIZE | | | |
| | | | 16" | 18" | 21" | 16.2" | | 18.2" | |
| A Maximum Fork Height (MFH) | in (mm) | | 330 (8382) | 372 (9449) | 372 (9449) | | 301 (7645) | | |
| B Free Lift | in (mm) | | 108 (2743) | 122 (3099) | 122 (3099) | | 82 (2083) | | |
| C Fork Lowered Height | in (mm) | | | 3 (76) | | | 3 (76) | | |
| D Tilt Range | Fwd/Bwd | degrees | | 3/4.5 | | | 3/4.5 | | |
| E Mast Extended Height | in (mm) | | 368 (9347) | 410 (10414) | 410 (9119) | | 337 (8560) | | |
| F Mast Lowered Height | in (mm) | | 146 (3708) | 160 (4064) | 160 (4064) | | 131 (3327) | | |
| G Load Backrest Height | | | | 36 (914) | | | 36 (914) | | |
| H Overhead Guard Height | in (mm) | | See Mast Specifications Table | | | Contact Dealer | | | |
| I Battery Roller Height | in (mm) | | | 7 (178) | | | 7 (178) | | |
| J Bumper to Centerline of Drive Wheel | | | | 11.35 (288) | | | 11.35 (288) | | |
| K Wheelbase | in (mm) | | 61.6 (1565) | 63.3 (1608) | 66.3 (1684) | 58.5 (1486) | | 60.5 (1537) | |
| L Length to Fork Face | in (mm) | | 62 (1575) | 64 (1626) | 67 (1702) | 56.0 (1422) | | 58.0 (1473) | |
| M Truck Length (length to end of base legs) | in (mm) | | 83.3 (2116) | 85.3 (2067) | 88.3 (2243) | 77.6 (1971) | | 79.6 (2022) | |
| N Underclearance (center of wheelbase) | No Load | in (mm) | | 2 (51) | | | 2 (51) | | |
| O Truck Mast Overall Width | | in (mm) | | 31 (787) | | | 31 (787) | | |
| P Fork Size | T x W x L | in (mm) | 1.5 x 4 x 42 (38 x 102 x 1067) | | | 1.5 x 4 x 42 (38 x 102 x 1067) | | | |
| Q Fork Spread (outer edge to edge) | Min./Max. | in (mm) | 15 (381) / 30 (762) | | | 15 (381) / 30 (762) | | | |
| R Power Unit Height ³ | in (mm) | | 51.5 (1308) | | | 51.5 (1308) | | | |
| S Power Unit Width | in (mm) | | 42.5 (1080) | | | 42.5 (1080) | | | |
| T Base Leg Width | | | 5.25 (133) | | | 5.5 (140) | | | |
| U Base Leg Inside Dimension (ID) | in (mm) | | 33 to 52 (838 to 1321) | | | 33 to 52 (838 to 1321) | | | |
| V Base Leg Outside Dimension (OD) | in (mm) | | 43.5 to 62.5 (1105 to 1588) | | | 44 to 63 (1118 to 1600) | | | |
| W Outside Turning Radius | in (mm) | | 75.6 (1920) | 77.6 (1971) | 80.6 (2047) | 72.8 (1882) | | 74.8 (1900) | |
| Basic Right Angle Stacking Aisle Width ⁴ | | | See Chart | | | Contact Dealer | | | |
| Carriage Height | in (mm) | | 36 (914) | | | 36 (914) | | | |
| Reach Stroke | in (mm) | | 42 (1067) | | | 22.75 (578) | | | |
| Step Height | in (mm) | | 9.25 (235) | | | 9.25 (235) | | | |
| PERFORMANCE DATA | | | RF1-BH2X30 | | | RF1-SD1X35 | | | |
| | | | 16" | 18" | 21" | 16.2" | | 18.2" | |
| Speeds (Maximum) ⁵ | Travel Tractor First | Full Load | mph (km/h) | 7.0 (11.3) | | | 6.0 (9.7) | | |
| | | No Load | mph (km/h) | 7.5 (12.0) | | | 8.0 (12.1) | | |
| | Travel Forks First | Full Load | mph (km/h) | 6.0 (9.7) | | | 5.0 (8.0) | | |
| | | No Load | mph (km/h) | 7.5 (12.0) | | | 7.0 (11.3) | | |
| | Lifting | Full Load | fpm (mm/sec) | 75 (380) | | | 78 (400) | | |
| | | No Load | fpm (mm/sec) | 110 (560) | | | 150 (760) | | |
| | Lowering | Full Load | fpm (mm/sec) | 110 (559) | | | 110 (560) | | |
| | | No Load | fpm (mm/sec) | 110 (559) | | | 110 (560) | | |
| | Out of Free Lift | | mph (km/h) | 0 - 3.5 (0 - 5.6) | | | 0 - 3.5 (0 - 5.6) | | |
| | Reach / Retract | Full Load | sec | 3.5 | | | 2.5 | | |
| No Load | | sec | 3.5 | | | 2.5 | | | |
| TRUCK WEIGHTS | | | RF1-BH2X30 | | | RF1-SD1X35 | | | |
| | | | 16" | 18" | 21" | 16.2" | | 18.2" | |
| Total Weight (without battery) | lb (kg) | | 7093 (3217) | 7518 (3410) | 7518 (3410) | 5835 (2646) | | | |
| TIRES | | | RF1-BH2X30 | | | RF1-SD1X35 | | | |
| | | | 16" | 18" | 21" | 16.2" | | 18.2" | |
| Tires | Tire Type | Drive / Caster / Load | Polyurethane | | | Polyurethane | | | |
| | Size (dia. X width) | Number (x = driven) | 1x/1/4 | | | 1x/1/4 | | | |
| | | Drive | in (mm) | 13.5 x 6.0 (343 x 152) | | | 13.5 x 6.0 (343 x 152) | | |
| | | Caster | in (mm) | 8 x 4 (203 x 102) | | | 8 x 4 (203 x 102) | | |
| | Load | in (mm) | 5 x 3.62 (127 x 92) | | | 5 x 3.62 (127 x 92) | | | |
| Suspension | | Caster | Spring Loaded | | | Spring Loaded | | | |
| Grade Clearance | % | | 10 | | | 13 | | | |
| Gradability | % | | 5 | | | 7 | | | |
| Brake Type | | | Electric Disc | | | Electric Disc | | | |
| POWER SYSTEM | | | RF1-BH2X30 | | | RF1-SD1X35 | | | |
| | | | 16" | 18" | 21" | 16.2" | | 18.2" | |
| Battery (6-hour ratings) ² | Compartment Size (Maximum) | Length | in (mm) | 16.22 (411) | 18.22 (462) | 21.22 (538) | 16.22 (412) | 18.22 (463) | |
| | | Width | in (mm) | 38.62 (981) | | | 38.62 (981) | | |
| | Voltage / Capacity | Height | in (mm) | 31 (787) | | | 31 (787) | | |
| | | Maximum | V/AH | 36 / 1240 | | | 36 / 1240 | | |
| | | Weight | lb (kg) | 2000 (907) | 2300 (1043) | 2600 (1179) | 2000 (907) | 2300 (1043) | |
| Electric Motors | Drive | hp (kw) | 7.1 (5.3) | | | 7.1 (5.3) | | | |
| | Load Handling | hp (kw) | 16.9 (12.6) | | | 21.2 (15.8) | | | |
| Control Type | Drive | | AC | | | AC | | | |
| | Load Handling | | AC | | | AC | | | |
| | Power Steering | | Transistor | | | Transistor | | | |

1 Please refer to the Mast Specifications.

2 Please refer to the Battery Compartment Specification Chart.

3 Add 8.5 in. (216 mm) for optional extended operator backrest.

4 Please refer to the Aisle Width Requirements for Right Angle Stacking Charts.

5 Maximum speed provided is after break-in period. Values vary with truck weight, rolling resistance, mast height, options, and battery condition.

MODEL NUMBERS

| GENERAL DATA | | | RF1-SD1X45 | | | RF1-SD2X32 | | | | |
|---|----------------------------|-----------------------|---------------------------------|------------------------|-------------|--------------------------------|------------------------|-------------|-------------|-------------|
| Type / Load Capacity ¹ | lb (kg) | | Single Reach / 4500 (2041) | | | Double Reach / 3200 (1451) | | | | |
| Load Center | in. (mm) | | 24 (600) | | | 24 (600) | | | | |
| Battery Compartment Size | in. | | 16.2 | 18.2 | 21.2 | 16.2 | 18.2 | 21.2 | | |
| Power Type | | | Battery | | | Battery | | | | |
| Operator Position | | | Stand-Up Rider | | | Stand-Up Rider | | | | |
| EXTERIOR DIMENSIONS | | | BATTERY COMPARTMENT SIZE | | | BATTERY COMPARTMENT SIZE | | | | |
| | | | 16.2" | 18.2" | 21.2" | 16.2" | 18.2" | 21.2" | | |
| A Maximum Fork Height (MFH) | in (mm) | | 330 (8382) | 372 (9449) | 372 (9449) | 330 (8382) | 372 (9449) | 372 (9449) | | |
| B Free Lift | in (mm) | | 97 (2464) | 111 (2819) | 111 (2819) | 101 (2565) | 115 (2921) | 115 (2921) | | |
| C Fork Lowered Height | in (mm) | | | 3 (76) | | | 3 (76) | | | |
| D Tilt Range | Fwd/Bwd | degrees | | 3/4.5 | | | 3/4.5 | | | |
| E Mast Extended Height | in (mm) | | 366 (9296) | 408 (10363) | 408 (10363) | 368 (9347) | 410 (10414) | 410 (10414) | | |
| F Mast Lowered Height | in (mm) | | 146 (3708) | 160 (4064) | 160 (4064) | 146 (3708) | 160 (4064) | 160 (4064) | | |
| G Load Backrest Height | | | | 36 (914) | | | 36 (914) | | | |
| H Overhead Guard Height | in (mm) | | Contact Dealer | | | Contact Dealer | | | | |
| I Battery Roller Height | in (mm) | | 7 (178) | | | 7 (178) | | | | |
| J Bumper to Centerline of Drive Wheel | | | 11.35 (288) | | | 11.35 (288) | | | | |
| K Wheelbase | in (mm) | | 60.1 (1527) | 62.1 (1577) | 65.1 (1654) | 61.6 (1565) | 63.6 (1615) | 66.6 (1692) | | |
| L Length to Fork Face | in (mm) | | 57.3 (1455) | 59.3 (1506) | 62.3 (1582) | 62.0 (1575) | 64.0 (1626) | 67.0 (1702) | | |
| M Truck Length (length to end of base legs) | in (mm) | | 79.2 (2012) | 81.2 (2062) | 84.2 (2139) | 83.3 (2116) | 85.3 (2167) | 88.3 (2243) | | |
| N Underclearance (center of wheelbase) | No Load | in (mm) | 2 (51) | | | 2 (51) | | | | |
| O Truck Mast Overall Width | | in (mm) | 31 (787) | | | 31 (787) | | | | |
| P Fork Size | T x W X L | in (mm) | 1.75 x 4 x 42 (44 x 102 x 1067) | | | 1.5 x 4 x 42 (38 x 102 x 1067) | | | | |
| Q Fork Spread (outer edge to edge) | Min./Max. | in (mm) | 15 (381) / 30 (762) | | | 15 (381) / 30 (762) | | | | |
| R Power Unit Height ³ | | in (mm) | 51.5 (1308) | | | 51.5 (1308) | | | | |
| S Power Unit Width | | in (mm) | 42.5 (1080) | | | 42.5 (1080) | | | | |
| T Base Leg Width | | | 5.5 (140) | | | 5.25 (133) | | | | |
| U Base Leg Inside Dimension (ID) | | in (mm) | 33 to 52 (838 to 1321) | | | 33 to 52 (838 to 1321) | | | | |
| V Base Leg Outside Dimension (OD) | | in (mm) | 44 to 63 (1118 to 1600) | | | 43.5 to 62.5 (1105 to 1588) | | | | |
| W Outside Turning Radius | | in (mm) | 74.1 (1882) | 76.1 (1933) | 79.1 (2009) | 75.6 (1920) | 77.6 (1971) | 78.6 (1996) | | |
| Basic Right Angle Stacking Aisle Width ⁴ | | | Contact Dealer | | | Contact Dealer | | | | |
| Carriage Height | in (mm) | | 36 (914) | | | 36 (914) | | | | |
| Reach Stroke | in (mm) | | 22.75 (578) | | | 42 (1067) | | | | |
| Step Height | in (mm) | | 9.25 (235) | | | 9.25 (235) | | | | |
| PERFORMANCE DATA | | | BATTERY COMPARTMENT SIZE | | | BATTERY COMPARTMENT SIZE | | | | |
| | | | 16.2" | 18.2" | 21.2" | 16.2" | 18.2" | 21.2" | | |
| Speeds (Maximum) ⁵ | Travel Tractor First | Full Load | 7.5 (12.1) | | | 7.0 (11.3) | | | | |
| | | No Load | 8.0 (12.9) | | | 8.0 (12.9) | | | | |
| | Travel Forks First | Full Load | 5.0 (8.0) | | | 6.0 (9.7) | | | | |
| | | No Load | 7.0 (11.3) | | | 8.0 (12.9) | | | | |
| | Lifting | Full Load | 80 (410) | | | 110 (560) | 90 (460) | 90 (460) | | |
| | | No Load | 150 (760) | | | 150 (760) | 150 (760) | 115 (580) | | |
| | Lowering | Full Load | 110 (560) | | | 110 (560) | | | | |
| | | No Load | 110 (560) | | | 110 (560) | | | | |
| | Out of Free Lift | | 0 - 3.5 (0 - 5.6) | | | 0 - 3.5 (0 - 5.6) | | | | |
| | Reach / Retract | Full Load | 2.5 | | | 3.6 | | | | |
| No Load | | 2.3 | | | 3.5 | | | | | |
| TRUCK WEIGHTS | | | BATTERY COMPARTMENT SIZE | | | BATTERY COMPARTMENT SIZE | | | | |
| | | | 16.2" | 18.2" | 21.2" | 16.2" | 18.2" | 21.2" | | |
| Total Weight (without battery) | lb (kg) | | 6723 (3050) | 7148 (3242) | 7180 (3257) | 7093 (3217) | 7518 (3410) | 7550 (3425) | | |
| TIRES | | | BATTERY COMPARTMENT SIZE | | | BATTERY COMPARTMENT SIZE | | | | |
| | | | 16.2" | 18.2" | 21.2" | 16.2" | 18.2" | 21.2" | | |
| Tires | Tire Type | Drive / Caster / Load | Polyurethane | | | Polyurethane | | | | |
| | Size (dia. X width) | Number (x = driven) | 1x/1/4 | | | 1x/1/4 | | | | |
| | | Drive | in (mm) | 13.5 x 6.0 (343 x 152) | | | 13.5 x 6.0 (343 x 152) | | | |
| | | Caster | in (mm) | 8 x 4 (203 x 102) | | | 8 x 4 (203 x 102) | | | |
| Suspension | Load | in (mm) | 5 x 3.62 (127 x 92) | | | 5 x 3.62 (127 x 92) | | | | |
| | Caster | | Spring Loaded | | | Spring Loaded | | | | |
| Grade Clearance | % | | 13 | | | 13 | | | | |
| Gradability | % | | 7 | | | 7 | | | | |
| Brake Type | | | Electric Disc | | | Electric Disc | | | | |
| POWER SYSTEM | | | BATTERY COMPARTMENT SIZE | | | BATTERY COMPARTMENT SIZE | | | | |
| | | | 16.2" | 18.2" | 21.2" | 16.2" | 18.2" | 21.2" | | |
| Battery (6-hour ratings) ² | Compartment Size (Maximum) | Length | in (mm) | 16.22 (412) | 18.22 (463) | 21.22 (539) | 16.22 (412) | 18.22 (463) | 21.22 (539) | |
| | | Width | in (mm) | 38.62 (981) | | | 38.62 (981) | | | |
| | | Height | in (mm) | 31 (787) | | | 31 (787) | | | |
| | Voltage / Capacity | Maximum | V/AH | 36 / 1240 | | | 36 / 1240 | | | |
| | | Weight | Minimum | lb (kg) | 2000 (907) | 2300 (1043) | 2600 (1179) | 2000 (907) | 2300 (1043) | 2600 (1179) |
| | | | Maximum | lb (kg) | 2300 (1043) | 2600 (1179) | 2900 (1315) | 2300 (1043) | 2600 (1179) | 2900 (1315) |
| Electric Motors | Drive | hp (kw) | 7.1 (5.3) | | | 7.1 (5.3) | | | | |
| | Load Handling | hp (kw) | 21.2 (15.8) | | | 21.2 (15.8) | | | | |
| Control Type | Drive | | AC | | | AC | | | | |
| | Load Handling | | AC | | | AC | | | | |
| | Power Steering | | Transistor | | | Transistor | | | | |

1 Please refer to the Mast Specifications.

2 Please refer to the Battery Compartment Specification Chart.

3 Add 8.5 in. (216 mm) for optional extended operator backrest.

4 Please refer to the Aisle Width Requirements for Right Angle Stacking Charts.

5 Maximum speed provided is after break-in period. Values vary with truck weight, rolling resistance, mast height, options, and battery condition.

TRUCK SPECIFICATIONS

MODEL NUMBERS

| GENERAL DATA | | | RF1-HP1X45 | | RF1-HP2X32 | | RF1-SD1Z45 | | |
|---|----------------------------|-----------------------|--|------------------------|--|------------------------|--|------------------------|-------------|
| Type / Load Capacity ¹ | lb (kg) | | Single Reach / 4500 (2041) | | Double Reach / 3200 (1451) | | Single Reach 4500 (2041) | | |
| Load Center | in. (mm) | | 24 (600) | | 24 (600) | | 24 (600) | | |
| Battery Compartment Size | in. | | 18.2 | 21.2 | 18.2 | 21.2 | 18.3 | 21.3 | |
| Power Type | | | Battery | | Battery | | Battery | | |
| Operator Position | | | Stand-Up Rider | | Stand-Up Rider | | Stand-Up Rider | | |
| EXTERIOR DIMENSIONS | | | RF1-HP1X45 BATTERY COMPARTMENT SIZE | | RF1-HP2X32 BATTERY COMPARTMENT SIZE | | RF1-SD1Z45 BATTERY COMPARTMENT SIZE | | |
| | | | 18.2" | 21.2" | 18.2" | 21.2" | 18.3" | 21.3" | |
| A Maximum Fork Height (MFH) | in (mm) | | 400 (10160) | 444 (11278) | 400 (10160) | 444 (11278) | 372 (9449) | | |
| B Free Lift | in (mm) | | 118 (2997) | 135 (3429) | 122 (3099) | 139 (3531) | 117 (2972) | | |
| C Fork Lowered Height | in (mm) | | 3 (76) | | 3 (76) | | 3 (76) | | |
| D Tilt Range | Fwd/Bwd | degrees | 3/4.5 | | 3/4.5 | | 3/4.5 | | |
| E Mast Extended Height | in (mm) | | 436 (11074) | 480 (12192) | 438 (11125) | 482 (12243) | 408 (10363) | | |
| F Mast Lowered Height | in (mm) | | 167 (4242) | 184 (4674) | 167 (4242) | 184 (4674) | 160 (4064) | | |
| G Load Backrest Height | | | 36 (914) | | 36 (914) | | 36 (914) | | |
| H Overhead Guard Height | in (mm) | | Contact Dealer | | Contact Dealer | | Contact Dealer | | |
| I Battery Roller Height | in (mm) | | 7 (178) | | 7 (178) | | 7 (178) | | |
| J Bumper to Centerline of Drive Wheel | | | 11.35 (288) | | 11.35 (288) | | 11.35 (288) | | |
| K Wheelbase | in (mm) | | 63.9 (1623) | 66.9 (1699) | 65.1 (1654) | 68.1 (1730) | 62.1 (1527) | 65.1 (1654) | |
| L Length to Fork Face | in (mm) | | 62.2 (1580) | 65.2 (1656) | 66.8 (1697) | 69.8 (1773) | 60.3 (1531) | 63.3 (1608) | |
| M Truck Length (length to end of base legs) | in (mm) | | 84.5 (2146) | 87.5 (2223) | 86.8 (2205) | 89.8 (2281) | 83.2 (2113) | 86.2 (2189) | |
| N Underclearance (center of wheelbase) | No Load | in (mm) | 2 (51) | | 2 (51) | | 2 (51) | | |
| O Truck Mast Overall Width | | in (mm) | 35.5 (902) | | 35.5 (902) | | 31 (787) | | |
| P Fork Size | T x W x L | in (mm) | 1.75 x 4 x 42 (44 x 102 x 1067) | | 1.5 x 4 x 42 (38 x 102 x 1067) | | 1.75 x 4 x 42 (44 x 102 x 1067) | | |
| Q Fork Spread (outer edge to edge) | Min./Max. | in (mm) | 15 (381) / 30 (762) | | 15 (381) / 30 (762) | | 15 (381) / 30 (762) | | |
| R Power Unit Height ³ | | in (mm) | 51.5 (1308) | | 51.5 (1308) | | 60 (1524) | | |
| S Power Unit Width | | in (mm) | 42.5 (1080) | | 42.5 (1080) | | 49.5 (1257) | | |
| T Base Leg Width | | | 6.0 (152) | | 5.25 (133) | | 5.5 (140) | | |
| U Base Leg Inside Dimension (ID) | in (mm) | | 42 to 52 (1067 to 1321) | | 37 to 52 (940 to 1321) | | 33 to 52 (838 to 1321) | | |
| V Base Leg Outside Dimension (OD) | in (mm) | | 54 to 64 (1372 to 1626) | | 47.5 to 62.5 (1207 to 1588) | | 44 to 63 (1118 to 1600) | | |
| W Outside Turning Radius | in (mm) | | 79.6 (2022) | 82.6 (2098) | 79.6 (2022) | 82.6 (2098) | 80.1 (2034) | 83.1 (2111) | |
| Basic Right Angle Stacking Aisle Width ⁴ | | | Contact Dealer | | Contact Dealer | | Contact Dealer | | |
| Carriage Height | in (mm) | | 36 (914) | | 36 (914) | | 36 (914) | | |
| Reach Stroke | in (mm) | | 22.75 (578) | | 42 (1067) | | 22.75 (578) | | |
| Step Height | in (mm) | | 9.25 (235) | | 9.25 (235) | | 9.25 (235) | | |
| PERFORMANCE DATA | | | RF1-HP1X45 BATTERY COMPARTMENT SIZE | | RF1-HP2X32 BATTERY COMPARTMENT SIZE | | RF1-SD1Z45 BATTERY COMPARTMENT SIZE | | |
| | | | 18.2" | 21.2" | 18.2" | 21.2" | 18.3" | 21.3" | |
| Speeds (Maximum) ⁵ | Travel Tractor First | Full Load | mph (km/h) | 6.0 (9.7) | 7.0 (11.2) | 7.5 (12.1) | | | |
| | | No Load | mph (km/h) | 8.0 (12.1) | 8.0 (12.1) | 8.0 (12.9) | | | |
| | Travel Forks First | Full Load | mph (km/h) | 6.0 (9.7) | 6.0 (9.7) | 5.0 (8.0) | | | |
| | | No Load | mph (km/h) | 7.0 (11.3) | 7.5 (12.1) | 7.0 (11.3) | | | |
| | Lifting | Full Load | fpm (mm/sec) | 95 (480) | 110 (560) | 80 (410) | | | |
| | | No Load | fpm (mm/sec) | 160 (810) | 160 (810) | 150 (760) | | | |
| | Lowering | Full Load | fpm (mm/sec) | 110 (560) | 110 (560) | 110 (560) | | | |
| | | No Load | fpm (mm/sec) | 110 (560) | 110 (560) | 110 (560) | | | |
| | Out of Free Lift | | mph (km/h) | 0 - 3.5 (0 - 5.6) | | 0 - 3.5 (0 - 5.6) | | 0 - 3.5 (0 - 5.6) | |
| | | Full Load | sec | 2.4 | | 3.6 | | 2.5 | |
| Reach / Retract | No Load | sec | 2.4 | | 3.6 | | 2.3 | | |
| | | | | | | | | | |
| TRUCK WEIGHTS | | | RF1-HP1X45 BATTERY COMPARTMENT SIZE | | RF1-HP2X32 BATTERY COMPARTMENT SIZE | | RF1-SD1Z45 BATTERY COMPARTMENT SIZE | | |
| | | | 18.2" | 21.2" | 18.2" | 21.2" | 18.3" | 21.3" | |
| Total Weight (without battery) | lb (kg) | | 8250 (3742) | 8370 (3796) | 8620 (3910) | 8740 (3964) | 7508 (3406) | | |
| TIRES | | | RF1-HP1X45 BATTERY COMPARTMENT SIZE | | RF1-HP2X32 BATTERY COMPARTMENT SIZE | | RF1-SD1Z45 BATTERY COMPARTMENT SIZE | | |
| | | | 18.2" | 21.2" | 18.2" | 21.2" | 18.3" | 21.3" | |
| Tires | Tire Type | Drive / Caster / Load | Polyurethane | | Polyurethane | | Polyurethane | | |
| | Number (x = driven) | Drive / Caster / Load | 1x/1/4 | | 1x/1/4 | | 1x/1/4 | | |
| | Size (dia. X width) | Drive | in (mm) | 13.5 x 6.0 (343 x 152) | | 13.5 x 6.0 (343 x 152) | | 13.5 x 6.0 (343 x 152) | |
| | | Caster | in (mm) | 8 x 4 (203 x 102) | | 8 x 4 (203 x 102) | | 8 x 4 (203 x 102) | |
| | Load | in (mm) | 6 x 4 (152 x 102) | | 5 x 3.62 (127 x 92) | | 5 x 3.62 (127 x 92) | | |
| Suspension | | Caster | Spring Loaded | | Spring Loaded | | Spring Loaded | | |
| Grade Clearance | % | | 10 | | 10 | | 13 | | |
| Gradability | % | | 5 | | 5 | | 7 | | |
| Brake Type | | | Electric Disc | | Electric Disc | | Electric Disc | | |
| POWER SYSTEM | | | RF1-HP1X45 BATTERY COMPARTMENT SIZE | | RF1-HP2X32 BATTERY COMPARTMENT SIZE | | RF1-SD1Z45 BATTERY COMPARTMENT SIZE | | |
| | | | 18.2" | 21.2" | 18.2" | 21.2" | 18.3" | 21.3" | |
| Battery Type | | | Lead Acid | | Lead Acid | | Lead Acid | | |
| Battery (6-hour ratings) ² | Compartment Size (Maximum) | Length | in (mm) | 18.22 (463) | 21.22 (539) | 18.22 (463) | 21.22 (539) | 18.27 (464) | 21.27 (540) |
| | | Width | in (mm) | 38.62 (981) | | 38.62 (981) | | 38.62 (981) | |
| | Height | in (mm) | 31 (787) | | 31 (787) | | 31 (787) | | |
| | Voltage / Capacity | Maximum | V/AH | 36 / 1240 | | 36 / 1240 | | 36 / 1240 | |
| Weight | Minimum | lb (kg) | 2300 (1043) | 2600 (1179) | 2300 (1043) | 2600 (1179) | 2300 (1043) | 2600 (1179) | |
| | Maximum | lb (kg) | 2600 (1179) | 2900 (1315) | 2600 (1179) | 2900 (1315) | 2600 (1179) | 2900 (1315) | |
| Electric Motors | Drive | hp (kw) | 7.1 (5.3) | | 7.1 (5.3) | | 7.1 (5.3) | | |
| | Load Handling | hp (kw) | 29.5 (22) | | 29.5 (22) | | 21.2 (15.8) | | |
| Control Type | Drive | | AC | | AC | | AC | | |
| | Load Handling | | AC | | AC | | AC | | |
| | Power Steering | | Transistor | | Transistor | | Transistor | | |

1 Please refer to the Mast Specifications.

2 Please refer to the Battery Compartment Specification Chart.

3 Add 8.5 in. (216 mm) for optional extended operator backrest.

4 Please refer to the Aisle Width Requirements for Right Angle Stacking Charts.

5 Maximum speed provided is after break-in period. Values vary with truck weight, rolling resistance, mast height, options, and battery condition.

MODEL NUMBERS

| GENERAL DATA | | | RF1-SD2Z32 | | RF1-HP1Z45 | | RF1-HP2Z32 | | |
|---|----------------------------|-----------------------|---|------------------------|---|------------------------|---|------------------------|--|
| Type / Load Capacity ¹ | lb (kg) | | Double Reach 3200 (1451) | | Single Reach 4500 (2041) | | Double Reach 3200 (1451) | | |
| Load Center | in. (mm) | | 24 (600) | | 24 (600) | | 24 (600) | | |
| Battery Compartment Size | in. | | 18.3 | 21.3 | 18.3 | 21.3 | 18.3 | 21.3 | |
| Power Type | | | Battery | | Battery | | Battery | | |
| Operator Position | | | Stand-Up Rider | | Stand-Up Rider | | Stand-Up Rider | | |
| EXTERIOR DIMENSIONS | | | RF1-SD2Z32 BATTERY COMPARTMENT SIZE 18.3" 21.3" | | RF1-HP1Z45 BATTERY COMPARTMENT SIZE 18.3" 21.3" | | RF1-HP2Z32 BATTERY COMPARTMENT SIZE 18.3" 21.3" | | |
| A Maximum Fork Height (MFH) | in (mm) | | 372 (9449) | | 400 (10160) | | 400 (10160) | | |
| B Free Lift | in (mm) | | 121 (3073) | | 117 (2972) | | 122 (3099) | | |
| C Fork Lowered Height | in (mm) | | 3 (76) | | 3 (76) | | 3 (76) | | |
| D Tilt Range | Fwd/Bwd | degrees | 3/4.5 | | 3/4.5 | | 3/4.5 | | |
| E Mast Extended Height | in (mm) | | 410 (10414) | | 436 (11074) | | 438 (11125) | | |
| F Mast Lowered Height | in (mm) | | 160 (4064) | | 167 (4242) | | 167 (4242) | | |
| G Load Backrest Height | | | 36 (914) | | 36 (914) | | 36 (914) | | |
| H Overhead Guard Height | in (mm) | | Contact Dealer | | Contact Dealer | | Contact Dealer | | |
| I Battery Roller Height | in (mm) | | 7 (178) | | 7 (178) | | 7 (178) | | |
| J Bumper to Centerline of Drive Wheel | | | 11.35 (288) | | 11.35 (288) | | 11.35 (288) | | |
| K Wheelbase | in (mm) | | 63.6 (1615) | | 63.9 (1623) | | 65.1 (1654) | | |
| L Length to Fork Face | in (mm) | | 66.0 (1676) | | 64.2 (1580) | | 68.8 (1697) | | |
| M Truck Length (length to end of base legs) | in (mm) | | 87.3 (2116) | | 86.5 (2146) | | 88.8 (2205) | | |
| N Underclearance (center of wheelbase) | No Load | in (mm) | 2 (51) | | 2 (51) | | 2 (51) | | |
| O Truck Mast Overall Width | | in (mm) | 31 (787) | | 35.5 (902) | | 35.5 (902) | | |
| P Fork Size | T x W X L | in (mm) | 1.5 x 4 x 42 (38 x 102 x 1067) | | 1.75 x 4 x 42 (44 x 102 x 1067) | | 1.5 x 4 x 42 (38 x 102 x 1067) | | |
| Q Fork Spread (outer edge to edge) | Min./Max. | in (mm) | 15 (381) / 30 (762) | | 15 (381) / 30 (762) | | 15 (381) / 30 (762) | | |
| R Power Unit Height ³ | | in (mm) | 60 (1524) | | 60 (1524) | | 60 (1524) | | |
| S Power Unit Width | | in (mm) | 49.5 (1257) | | 49.5 (1257) | | 49.5 (1257) | | |
| T Base Leg Width | | | 5.25 (133) | | 6.0 (152) | | 5.25 (133) | | |
| U Base Leg Inside Dimension (ID) | | in (mm) | 33 to 52 (838 to 1321) | | 42 to 52 (1067 to 1321) | | 42 to 52 (1067 to 1321) | | |
| V Base Leg Outside Dimension (OD) | | in (mm) | 43.5 to 62.5 (1105 to 1588) | | 54 to 64 (1372 to 1626) | | 52.5 to 62.5 (1334 to 1588) | | |
| W Outside Turning Radius | | in (mm) | 82.6 (2098) | | 83.5 (2120) | | 84.5 (2146) | | |
| Basic Right Angle Stacking Aisle Width ⁴ | | | Contact Dealer | | Contact Dealer | | Contact Dealer | | |
| Carriage Height | in (mm) | | 38 (965) | | 36 (914) | | 38 (965) | | |
| Reach Stroke | in (mm) | | 42 (1067) | | 22.75 (578) | | 42 (1067) | | |
| Step Height | in (mm) | | 9.25 (235) | | 9.25 (235) | | 9.25 (235) | | |
| PERFORMANCE DATA | | | RF1-SD2Z32 BATTERY COMPARTMENT SIZE 18.3" 21.3" | | RF1-HP1Z45 BATTERY COMPARTMENT SIZE 18.3" 21.3" | | RF1-HP2Z32 BATTERY COMPARTMENT SIZE 18.3" 21.3" | | |
| Speeds (Maximum) ⁵ | Travel Tractor First | Full Load | mph (km/h) | 7.0 (11.3) | | 6.0 (9.7) | | 6.0 (9.7) | |
| | | No Load | mph (km/h) | 8.0 (12.9) | | 8.0 (12.1) | | 8.0 (12.1) | |
| | Travel Forks First | Full Load | mph (km/h) | 6.0 (9.7) | | 6.0 (9.7) | | 6.0 (9.7) | |
| | | No Load | mph (km/h) | 8.0 (12.9) | | 7.0 (11.3) | | 7.5 (12.1) | |
| | Lifting | Full Load | fpm (mm/sec) | 90 (460) | | 95 (480) | | 110 (560) | |
| | | No Load | fpm (mm/sec) | 150 (760) | | 160 (810) | | 160 (810) | |
| | Lowering | Full Load | fpm (mm/sec) | 110 (560) | | 110 (560) | | 110 (560) | |
| | | No Load | fpm (mm/sec) | 110 (560) | | 110 (560) | | 110 (560) | |
| | Out of Free Lift | | mph (km/h) | 0 - 3.5 (0 - 5.6) | | 0 - 3.5 (0 - 5.6) | | 0 - 3.5 (0 - 5.6) | |
| | Reach / Retract | Full Load | sec | 3.6 | | 2.4 | | 3.6 | |
| No Load | | sec | 3.5 | | 2.4 | | 3.6 | | |
| TRUCK WEIGHTS | | | RF1-SD2Z32 BATTERY COMPARTMENT SIZE 18.3" 21.3" | | RF1-HP1Z45 BATTERY COMPARTMENT SIZE 18.3" 21.3" | | RF1-HP2Z32 BATTERY COMPARTMENT SIZE 18.3" 21.3" | | |
| Total Weight (without battery) | lb (kg) | | 7878 (3573) | | 8585 (3894) | | 8980 (4073) | | |
| | | | 8730 (3960) | | 9100 (4128) | | | | |
| TIRES | | | RF1-SD2Z32 BATTERY COMPARTMENT SIZE 18.3" 21.3" | | RF1-HP1Z45 BATTERY COMPARTMENT SIZE 18.3" 21.3" | | RF1-HP2Z32 BATTERY COMPARTMENT SIZE 18.3" 21.3" | | |
| Tires | Tire Type | Drive / Caster / Load | Polyurethane | | Polyurethane | | Polyurethane | | |
| | Number (x = driven) | Drive / Caster / Load | 1x/1/4 | | 1x/1/4 | | 1x/1/4 | | |
| | Size (dia. X width) | Drive | in (mm) | 13.5 x 6.0 (343 x 152) | | 13.5 x 6.0 (343 x 152) | | 13.5 x 6.0 (343 x 152) | |
| | | Caster | in (mm) | 8 x 4 (203 x 102) | | 8 x 4 (203 x 102) | | 8 x 4 (203 x 102) | |
| | Load | in (mm) | 5 x 3.62 (127 x 92) | | 6 x 4 (152 x 102) | | 5 x 3.62 (127 x 92) | | |
| Suspension | | Caster | Spring Loaded | | Spring Loaded | | Spring Loaded | | |
| Grade Clearance | % | | 13 | | 10 | | 10 | | |
| Gradability | % | | 7 | | 5 | | 5 | | |
| Brake Type | | | Electric Disc | | Electric Disc | | Electric Disc | | |
| POWER SYSTEM | | | RF1-SD2Z32 BATTERY COMPARTMENT SIZE 18.3" 21.3" | | RF1-HP1Z45 BATTERY COMPARTMENT SIZE 18.3" 21.3" | | RF1-HP2Z32 BATTERY COMPARTMENT SIZE 18.3" 21.3" | | |
| Battery Type | | | Lead Acid | | Lead Acid | | Lead Acid | | |
| Battery (6-hour ratings) ² | Compartment Size (Maximum) | Length | in (mm) | 18.27 (464) | | 18.27 (464) | | 18.27 (464) | |
| | | Width | in (mm) | 21.27 (540) | | 21.27 (540) | | 21.27 (540) | |
| | | Height | in (mm) | 38.62 (981) | | 38.62 (981) | | 38.62 (981) | |
| | Voltage / Capacity | Maximum | V/AH | 36 / 1240 | | 36 / 1240 | | 36 / 1240 | |
| Weight | Minimum | lb (kg) | 2300 (1043) | | 2300 (1043) | | 2300 (1043) | | |
| | Maximum | lb (kg) | 2600 (1179) | | 2600 (1179) | | 2600 (1179) | | |
| Electric Motors | Drive | hp (kw) | 71 (5.3) | | 71 (5.3) | | 71 (5.3) | | |
| | Load Handling | hp (kw) | 21.2 (15.8) | | 29.5 (22) | | 29.5 (22) | | |
| Control Type | Drive | | AC | | AC | | AC | | |
| | Load Handling | | AC | | AC | | AC | | |
| | Power Steering | | Transistor | | Transistor | | Transistor | | |

1 Please refer to the Mast Specifications.

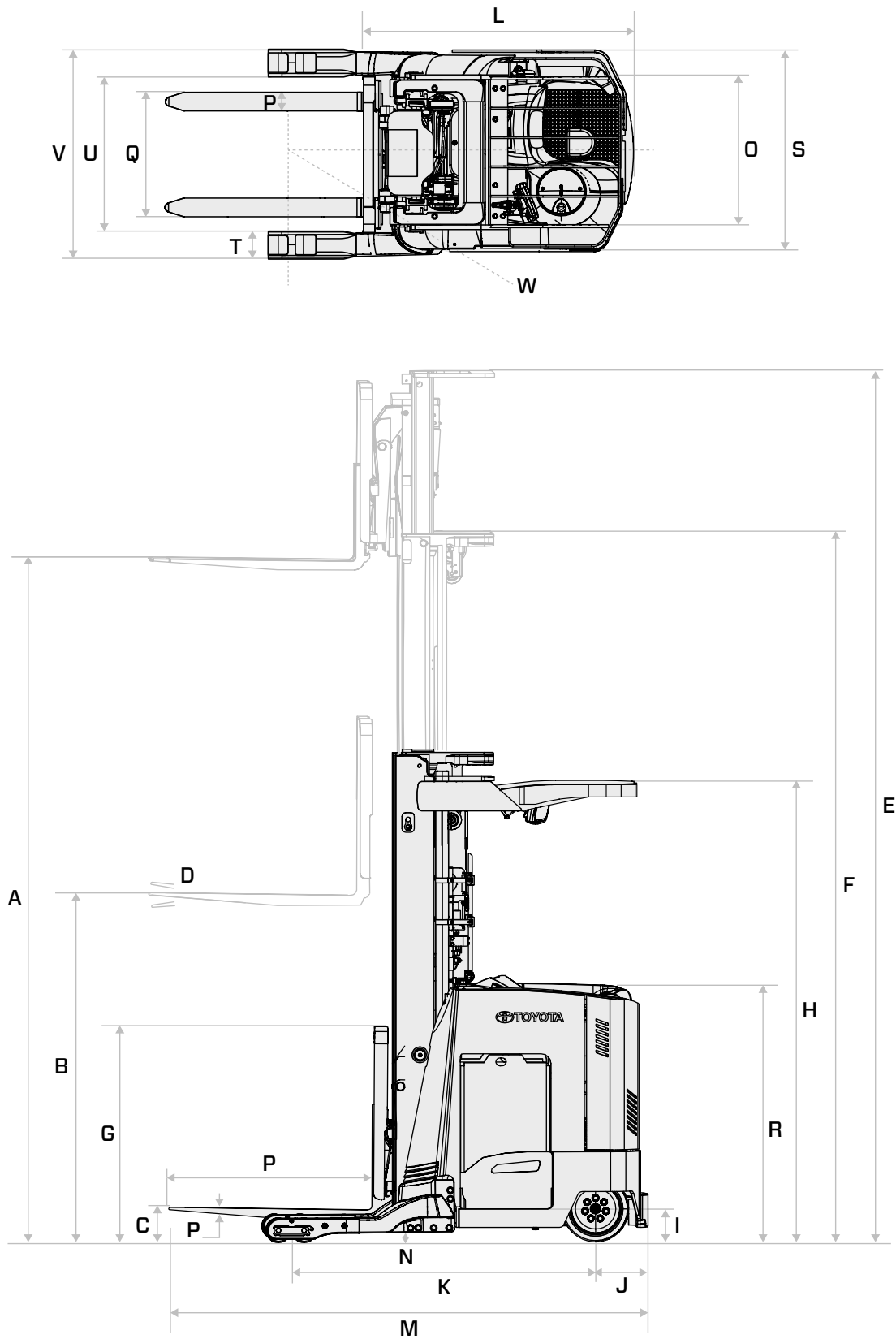
2 Please refer to the Battery Compartment Specification Chart.

3 Add 8.5 in. (216 mm) for optional extended operator backrest.

4 Please refer to the Aisle Width Requirements for Right Angle Stacking Charts.

5 Maximum speed provided is after break-in period. Values vary with truck weight, rolling resistance, mast height, options, and battery condition.

EXTERIOR DIMENSIONS



MAST SPECIFICATIONS

| MAST TYPE | MAXIMUM FORK HEIGHT (TOP OF FORKS) | OVERALL HEIGHT | | FREE LIFT WITH STANDARD 36" LOAD BACKREST | OVERHEAD GUARD HEIGHT | OPERATOR COMPARTMENT HEIGHT | TILT RANGE ¹ | |
|---|---------------------------------------|----------------|------------------------------------|--|-----------------------------|-----------------------------------|-------------------------|-----|
| | | LOWERED | EXTENDED | | | | FWD | BWD |
| | | | WITH STANDARD 36" LOAD BACKREST | deg | | | | |
| in (mm) | | | | | | | | |
| RF1-BE1X35 | | | | | | | | |
| Wide Visible Full-Free Lift Three-Stage Four-Cylinder Mast (FSW) | 192 (4877) | 87 (2210) | 228 (5791) | 43 (1092) | 86.75 (2203) | 75.5 (1917) | 3 | 4.5 |
| | 195 (4953) | 88 (2235) | 231 (5867) | 46 (1168) | 87.75 (2229) | 76.5 (1943) | 3 | 4.5 |
| | 204 (5182) | 91 (2311) | 240 (6096) | 49 (1245) | 90.75 (2305) | 79.5 (2019) | 3 | 4.5 |
| | 216 (5486) | 95 (2413) | 252 (6401) | 53 (1346) | 94.75 (2407) | 83.5 (2121) | 3 | 4.5 |
| | 231 (5867) | 100 (2540) | 267 (6782) | 58 (1473) | 93.0 (2362) | 81.75 (2076) | 3 | 4.5 |
| | 252 (6401) | 107 (2718) | 288 (7315) | 65 (1651) | 90.8 (2306) | 79.55 (2020) | 3 | 4.5 |
| 270 (6858) | 115 (2921) | 307 (7798) | 73 (1854) | 90.8 (2306) | 79.55 (2020) | 3 | 4.5 | |

| MAST TYPE | MAXIMUM FORK HEIGHT (TOP OF FORKS) | OVERALL HEIGHT | | FREE LIFT WITH STANDARD 36" LOAD BACKREST | OVERHEAD GUARD HEIGHT | OPERATOR COMPARTMENT HEIGHT | TILT RANGE ¹ | |
|---|---------------------------------------|----------------|------------------------------------|--|-----------------------------|-----------------------------------|-------------------------|-----|
| | | LOWERED | EXTENDED | | | | FWD | BWD |
| | | | WITH STANDARD 36" LOAD BACKREST | deg | | | | |
| in (mm) | | | | | | | | |
| RF1-BE1X40 | | | | | | | | |
| Wide Visible Full-Free Lift Three-Stage Four-Cylinder Mast (FSW) | 193 (4902) | 89 (2261) | 229 (5817) | 47 (1194) | 88.75 (2254) | 77.5 (1968) | 3 | 4.5 |
| | 196 (4978) | 90 (2286) | 232 (5893) | 48 (1219) | 89.75 (2280) | 78.5 (1994) | 3 | 4.5 |
| | 211 (5359) | 95 (2413) | 247 (6274) | 53 (1346) | 94.75 (2407) | 89.75 (2280) | 3 | 4.5 |
| | 226 (5740) | 102 (2591) | 262 (6654) | 60 (1524) | 95.0 (2413) | 83.75 (2127) | 3 | 4.5 |
| | 241 (6121) | 107 (2718) | 277 (7036) | 65 (1651) | 90.8 (2306) | 79.55 (2020) | 3 | 4.5 |
| | 250 (6350) | 110 (2794) | 286 (7264) | 68 (1727) | 90.8 (2306) | 79.55 (2020) | 3 | 4.5 |
| | 268 (6807) | 118 (2997) | 304 (7721) | 76 (1930) | 90.8 (2306) | 79.55 (2020) | 3 | 4.5 |

| MAST TYPE | MAXIMUM FORK HEIGHT (TOP OF FORKS) | OVERALL HEIGHT | | FREE LIFT WITH STANDARD 36" LOAD BACKREST | OVERHEAD GUARD HEIGHT | OPERATOR COMPARTMENT HEIGHT | TILT RANGE ¹ | |
|---|---------------------------------------|----------------|------------------------------------|--|-----------------------------|-----------------------------------|-------------------------|-----|
| | | LOWERED | EXTENDED | | | | FWD | BWD |
| | | | WITH STANDARD 36" LOAD BACKREST | deg | | | | |
| in (mm) | | | | | | | | |
| RF1-BE2X25 | | | | | | | | |
| Wide Visible Full-Free Lift Three-Stage Four-Cylinder Mast (FSW) | 189 (4800) | 89 (2260) | 227 (5766) | 47 (1194) | 88.75 (2254) | 77.5 (1968) | 3 | 4.5 |
| | 207 (5258) | 95 (2413) | 245 (6223) | 57 (1448) | 94.75 (2407) | 94.75 (2407) | 3 | 4.5 |
| | 216 (5486) | 100 (2540) | 254 (6452) | 62 (1575) | 93 (2362) ² | 81.75 (2076) ³ | 3 | 4.5 |
| | 237 (6020) | 107 (2718) | 275 (6985) | 69 (1752) | 90.8 (2306) | 79.55 (2020) | 3 | 4.5 |
| | 252 (6401) | 114 (2896) | 290 (7366) | 76 (1930) | 90.8 (2306) | 79.55 (2020) | 3 | 4.5 |
| | 264 (6706) | 118 (2997) | 302 (7671) | 80 (2032) | 90.8 (2306) | 79.55 (2020) | 3 | 4.5 |

| MAST TYPE | MAXIMUM FORK HEIGHT ⁴ (TOP OF FORKS) | OVERALL HEIGHT | | FREE LIFT WITH STANDARD 36" LOAD BACKREST | OVERHEAD GUARD HEIGHT | OPERATOR COMPARTMENT HEIGHT | TILT RANGE ¹ | |
|---|--|----------------|------------------------------------|--|-----------------------------|-----------------------------------|-------------------------|-----|
| | | LOWERED | EXTENDED | | | | FWD | BWD |
| | | | WITH STANDARD 36" LOAD BACKREST | deg | | | | |
| in (mm) | | | | | | | | |
| RF1-BH1X35 | | | | | | | | |
| Wide Visible Full-Free Lift Three-Stage Four-Cylinder Mast (FSW) | 192 (4877) | 87 (2210) | 228 (5791) | 43 (1092) | 86.75 (2203) | 75.5 (1918) | 3 | 4.5 |
| | 195 (4953) | 88 (2335) | 231 (5867) | 46 (1168) | 87.75 (2229) | 76.5 (1943) | 3 | 4.5 |
| | 204 (5182) | 91 (2311) | 240 (6096) | 49 (1245) | 90.75 (2305) | 79.5 (2019) | 3 | 4.5 |
| | 216 (5486) | 95 (2413) | 252 (6401) | 53 (1346) | 94.75 (2407) | 83.5 (2121) | 3 | 4.5 |
| | 231 (5867) | 100 (2540) | 267 (6782) | 58 (1473) | 93.0 (2362) | 81.75 (2076) | 3 | 4.5 |
| | 252 (6401) | 107 (2718) | 288 (7315) | 65 (1651) | 90.8 (2306) | 79.55 (2021) | 3 | 4.5 |
| | 270 (6858) | 115 (2921) | 307 (7798) | 73 (1854) | 90.8 (2306) | 79.55 (2021) | 3 | 4.5 |

| MAST TYPE | MAXIMUM FORK HEIGHT ⁴ (TOP OF FORKS) | OVERALL HEIGHT | | FREE LIFT WITH STANDARD 36" LOAD BACKREST | OVERHEAD GUARD HEIGHT | OPERATOR COMPARTMENT HEIGHT | TILT RANGE ¹ | |
|---|--|----------------|------------------------------------|--|-----------------------------|-----------------------------------|-------------------------|-----|
| | | LOWERED | EXTENDED | | | | FWD | BWD |
| | | | WITH STANDARD 36" LOAD BACKREST | deg | | | | |
| in (mm) | | | | | | | | |
| RF1-BH1X40 | | | | | | | | |
| Wide Visible Full-Free Lift Three-Stage Four-Cylinder Mast (FSW) | 193 (4902) | 89 (2261) | 229 (5817) | 47 (1194) | 88.75 (2254) | 77.5 (1968) | 3 | 4.5 |
| | 196 (4978) | 90 (2286) | 232 (5893) | 48 (1219) | 89.75 (2280) | 78.5 (1994) | 3 | 4.5 |
| | 211 (5359) | 95 (2413) | 247 (6274) | 53 (1346) | 94.75 (2407) | 83.5 (2121) | 3 | 4.5 |
| | 226 (5740) | 102 (2591) | 262 (6654) | 60 (1524) | 95.0 (2413) | 83.75 (2127) | 3 | 4.5 |
| | 241 (6121) | 107 (2718) | 277 (7036) | 65 (1651) | 90.8 (2306) | 79.55 (2020) | 3 | 4.5 |
| | 250 (6350) | 110 (2794) | 286 (7264) | 68 (1727) | 90.8 (2306) | 79.55 (2020) | 3 | 4.5 |
| | 268 (6807) | 118 (2997) | 304 (7721) | 76 (1930) | 90.8 (2306) | 79.55 (2020) | 3 | 4.5 |

¹ Tilting Load Backrest.

² Overhead Guard Height for 16.2 in. (411 mm) battery compartment is 96 in. (2438 mm).

NOTE: Height of standard load backrest is 36 in (914 mm).

³ Operator compartment height with 16.2 in. (411 mm) battery compartment is 84.75 in. (2138 mm).

⁴ Recommended lift-off height is 10 in. (254 mm) higher than top beam height.

MAST SPECIFICATIONS

| MAST TYPE | MAXIMUM FORK HEIGHT ¹ (TOP OF FORKS) | OVERALL HEIGHT | | FREE LIFT | OVERHEAD GUARD HEIGHT | OPERATOR COMPARTMENT HEIGHT | TILT RANGE ² | |
|--|--|----------------|---------------------------------|---------------------------------|-----------------------|-----------------------------|-------------------------|-----|
| | | LOWERED | EXTENDED | WITH STANDARD 36" LOAD BACKREST | | | FWD | BWD |
| | | | WITH STANDARD 36" LOAD BACKREST | | | | | |
| in (mm) | | | | | | | | |
| RF1-BH1X45 | | | | | | | | |
| Wide Visible Full-Free Lift Three-Stage Four-Cylinder Mast (FSW) | 193 (4902) | 89 (2261) | 229 (5817) | 47 (1194) | 88.75 (2254) | 77.5 (1968) | 3 | 4.5 |
| | 196 (4978) | 90 (2286) | 232 (5893) | 48 (1219) | 89.75 (2280) | 78.5 (1994) | 3 | 4.5 |
| | 211 (5359) | 95 (2413) | 247 (6274) | 53 (1346) | 94.75 (2407) | 83.5 (2121) | 3 | 4.5 |
| | 226 (5740) | 102 (2591) | 262 (6654) | 60 (1524) | 95.0 (2413) | 83.75 (2127) | 3 | 4.5 |
| | 241 (6121) | 107 (2718) | 277 (7036) | 65 (1651) | 90.8 (2306) | 79.55 (2021) | 3 | 4.5 |
| | 250 (6350) | 110 (2794) | 286 (7264) | 68 (1727) | 90.8 (2306) | 79.55 (2021) | 3 | 4.5 |
| | 268 (6807) | 118 (2997) | 304 (7721) | 76 (1930) | 90.8 (2306) | 79.55 (2021) | 3 | 4.5 |
| | 280 (7112) | 122 (3099) | 316 (8026) | 80 (2032) | 90.8 (2306) | 79.55 (2021) | 3 | 4.5 |
| | 301 (7645) | 131 (3327) | 337 (8560) | 89 (2260) | 90.8 (2306) | 79.55 (2021) | 3 | 4.5 |
| | 321 (8153) | 142 (3607) | 357 (9068) | 101 (2565) | 90.8 (2306) | 79.55 (2021) | 3 | 4.5 |
| | 330 (8382) | 146 (3708) | 366 (9296) | 104 (2642) | 90.8 (2306) | 79.55 (2021) | 3 | 4.5 |
| | 336 (8534) | 148 (3759) | 372 (9449) | 106 (2692) | 90.8 (2306) | 79.55 (2021) | 3 | 4.5 |
| | 348 (8839) | 152 (3861) | 384 (9754) | 110 (2794) | 90.8 (2306) | 79.55 (2021) | 3 | 4.5 |
| | 360 (9144) | 156 (3962) | 396 (10058) | 114 (2896) | 90.8 (2306) | 79.55 (2021) | 3 | 4.5 |
| 366 (9296) | 158 (4013) | 402 (10211) | 116 (2946) | 90.8 (2306) | 79.55 (2021) | 3 | 4.5 | |
| 372 (9449) | 160 (4064) | 408 (10363) | 118 (2997) | 90.8 (2306) | 79.55 (2021) | 3 | 4.5 | |

| MAST TYPE | MAXIMUM FORK HEIGHT ¹ (TOP OF FORKS) | OVERALL HEIGHT | | FREE LIFT | OVERHEAD GUARD HEIGHT | OPERATOR COMPARTMENT HEIGHT | TILT RANGE ² | |
|--|--|----------------|---------------------------------|---------------------------------|-----------------------|-----------------------------|-------------------------|-----|
| | | LOWERED | EXTENDED | WITH STANDARD 36" LOAD BACKREST | | | FWD | BWD |
| | | | WITH STANDARD 36" LOAD BACKREST | | | | | |
| in (mm) | | | | | | | | |
| RF1-BH2X25 | | | | | | | | |
| Wide Visible Full-Free Lift Three-Stage Four-Cylinder Mast (FSW) | 189 (4800) | 89 (2260) | 227 (5766) | 47 (1194) | 88.75 (2254) | 77.5 (1968) | 3 | 4.5 |
| | 207 (5258) | 95 (2413) | 245 (6223) | 57 (1448) | 94.75 (2407) | 83.5 (2121) | 3 | 4.5 |
| | 216 (5486) | 100 (2540) | 254 (6452) | 62 (1575) | 93 (2362) | 81.75 (2076) | 3 | 4.5 |
| | 237 (6020) | 107 (2718) | 275 (6985) | 69 (1752) | 90.8 (2306) | 79.55 (2021) | 3 | 4.5 |
| | 252 (6401) | 114 (2896) | 290 (7366) | 76 (1930) | 90.8 (2306) | 79.55 (2021) | 3 | 4.5 |
| | 264 (6706) | 118 (2997) | 302 (7671) | 80 (2032) | 90.8 (2306) | 79.55 (2021) | 3 | 4.5 |

| MAST TYPE | MAXIMUM FORK HEIGHT ¹ (TOP OF FORKS) | OVERALL HEIGHT | | FREE LIFT | OVERHEAD GUARD HEIGHT | OPERATOR COMPARTMENT HEIGHT | TILT RANGE ² | |
|--|--|----------------|---------------------------------|---------------------------------|-----------------------|-----------------------------|-------------------------|-----|
| | | LOWERED | EXTENDED ³ | WITH STANDARD 36" LOAD BACKREST | | | FWD | BWD |
| | | | WITH STANDARD 36" LOAD BACKREST | | | | | |
| in (mm) | | | | | | | | |
| RF1-BH2X30 | | | | | | | | |
| Wide Visible Full-Free Lift Three-Stage Four-Cylinder Mast (FSW) | 189 (4800) | 89 (2261) | 227 (5766) | 47 (1194) | 88.75 (2254) | 77.5 (1968) | 3 | 4.5 |
| | 207 (5258) | 95 (2413) | 245 (6223) | 57 (1448) | 94.75 (2407) | 83.5 (2121) | 3 | 4.5 |
| | 216 (5486) | 100 (2540) | 254 (6452) | 62 (1574) | 93 (2362) | 81.75 (2076) | 3 | 4.5 |
| | 237 (6020) | 107 (2718) | 275 (6985) | 69 (1752) | 90.8 (2306) | 79.55 (2021) | 3 | 4.5 |
| | 252 (6401) | 114 (2896) | 290 (7366) | 76 (1930) | 90.8 (2306) | 79.55 (2021) | 3 | 4.5 |
| | 264 (6706) | 118 (2997) | 302 (7671) | 80 (2032) | 90.8 (2306) | 79.55 (2021) | 3 | 4.5 |
| | 276 (7010) | 122 (3099) | 314 (7976) | 84 (2133) | 90.8 (2306) | 79.55 (2021) | 3 | 4.5 |
| | 288 (7315) | 128 (3251) | 326 (8280) | 90 (2286) | 90.8 (2306) | 79.55 (2021) | 3 | 4.5 |
| | 302 (7671) | 135 (3429) | 340 (8636) | 97 (2464) | 90.8 (2306) | 79.55 (2021) | 3 | 4.5 |
| | 315 (8001) | 141 (3581) | 353 (8966) | 103 (2616) | 90.8 (2306) | 79.55 (2021) | 3 | 4.5 |
| | 321 (8153) | 142 (3607) | 359 (9119) | 104 (2642) | 90.8 (2306) | 79.55 (2021) | 3 | 4.5 |
| | 330 (8382) | 146 (3708) | 368 (9347) | 108 (2743) | 90.8 (2306) | 79.55 (2021) | 3 | 4.5 |
| | 336 (8534) | 148 (3759) | 374 (9500) | 110 (2794) | 90.8 (2306) | 79.55 (2021) | 3 | 4.5 |
| | 348 (8839) | 152 (3861) | 386 (9804) | 114 (2896) | 90.8 (2306) | 79.55 (2021) | 3 | 4.5 |
| | 360 (9144) | 156 (3962) | 398 (10109) | 118 (2997) | 90.8 (2306) | 79.55 (2021) | 3 | 4.5 |
| | 366 (9296) | 158 (4013) | 404 (10262) | 120 (3048) | 90.8 (2306) | 79.55 (2021) | 3 | 4.5 |
| 372 (9449) | 160 (4064) | 410 (10414) | 122 (3099) | 90.8 (2306) | 79.55 (2021) | 3 | 4.5 | |

1 Recommended lift-off height is 10 in. (254 mm) higher than top beam height.
 2 Tilting Load Backrest.
 3 Masts with an extended height of 336 in. (8534 mm) and greater only available on 18.2 in. (462 mm) and 21.2 in. (538 mm) models.

| MAST TYPE | MAXIMUM FORK HEIGHT ¹ (TOP OF FORKS) | OVERALL HEIGHT | | FREE LIFT | OVERHEAD GUARD HEIGHT | OPERATOR COMPARTMENT HEIGHT | TILT RANGE ² | |
|--|--|----------------|---------------------------------|---------------------------------|-----------------------|-----------------------------|-------------------------|-----|
| | | LOWERED | EXTENDED | WITH STANDARD 36" LOAD BACKREST | | | FWD | BWD |
| | | | WITH STANDARD 36" LOAD BACKREST | | | | | |
| in (mm) | | | | | | | | |
| RF1-SD1X35 | | | | | | | | |
| Wide Visible Full-Free Lift Three-Stage Four-Cylinder Mast (FSW) | 193 (4902) | 89 (2261) | 229 (5817) | 34 (863) | 87.4 (2219) | 76.15 (1934) | 3 | 4.5 |
| | 211 (5359) | 95 (2413) | 247 (6274) | 46 (1168) | 93.4 (2372) | 82.15 (2087) | 3 | 4.5 |
| | 217 (5512) | 99 (2515) | 253 (6426) | 50 (1270) | 93.4 (2372) | 82.15 (2087) | 3 | 4.5 |
| | 241 (6121) | 107 (2718) | 277 (7036) | 58 (1473) | 93.4 (2372) | 82.15 (2087) | 3 | 4.5 |
| | 250 (6350) | 110 (2794) | 286 (7264) | 61 (1549) | 93.4 (2372) | 82.15 (2087) | 3 | 4.5 |
| | 271 (6883) | 119 (3023) | 307 (7798) | 70 (1778) | 93.4 (2372) | 82.15 (2087) | 3 | 4.5 |
| | 280 (7112) | 122 (3099) | 316 (8026) | 73 (1854) | 93.4 (2372) | 82.15 (2087) | 3 | 4.5 |
| 301 (7645) | 131 (3327) | 337 (8560) | 82 (2083) | 93.4 (2372) | 82.15 (2087) | 3 | 4.5 | |

| MAST TYPE | MAXIMUM FORK HEIGHT ¹ (TOP OF FORKS) | OVERALL HEIGHT | | FREE LIFT | OVERHEAD GUARD HEIGHT | OPERATOR COMPARTMENT HEIGHT | TILT RANGE ² | |
|--|--|----------------|---------------------------------|---------------------------------|-----------------------|-----------------------------|-------------------------|-----|
| | | LOWERED | EXTENDED | WITH STANDARD 36" LOAD BACKREST | | | FWD | BWD |
| | | | WITH STANDARD 36" LOAD BACKREST | | | | | |
| in (mm) | | | | | | | | |
| RF1-SD1X45 | | | | | | | | |
| Wide Visible Full-Free Lift Three-Stage Four-Cylinder Mast (FSW) | 193 (4902) | 89 (2260) | 229 (5817) | 34 (863) | 87.4 (2220) | 76.15 (1934) | 3 | 4.5 |
| | 211 (5359) | 95 (2413) | 247 (6274) | 46 (1168) | 93.4 (2372) | 82.15 (2087) | 3 | 4.5 |
| | 226 (5740) | 102 (2591) | 262 (6655) | 50 (1270) | 93.4 (2372) | 82.15 (2087) | 3 | 4.5 |
| | 241 (6121) | 107 (2718) | 277 (7036) | 58 (1473) | 93.4 (2372) | 82.15 (2087) | 3 | 4.5 |
| | 250 (6350) | 110 (2794) | 286 (7264) | 61 (1549) | 93.4 (2372) | 82.15 (2087) | 3 | 4.5 |
| | 268 (6807) | 118 (2997) | 304 (7722) | 69 (1753) | 93.4 (2372) | 82.15 (2087) | 3 | 4.5 |
| | 280 (7112) | 122 (3099) | 316 (8026) | 73 (1854) | 93.4 (2372) | 82.15 (2087) | 3 | 4.5 |
| | 301 (7645) | 131 (3327) | 337 (8560) | 82 (2083) | 93.4 (2372) | 82.15 (2087) | 3 | 4.5 |
| | 321 (8153) | 142 (3607) | 357 (9068) | 93 (2362) | 93.4 (2372) | 82.15 (2087) | 3 | 4.5 |
| | 330 (8382) | 146 (3708) | 366 (9296) | 97 (2464) | 93.4 (2372) | 82.15 (2087) | 3 | 4.5 |
| | 336 (8534) | 148 (3759) | 372 (9449) | 99 (2515) | 93.4 (2372) | 82.15 (2087) | 3 | 4.5 |
| | 348 (8839) | 152 (3861) | 384 (9754) | 103 (2616) | 93.4 (2372) | 82.15 (2087) | 3 | 4.5 |
| | 360 (9144) | 156 (3962) | 396 (10058) | 107 (2718) | 93.4 (2372) | 82.15 (2087) | 3 | 4.5 |
| 372 (9449) | 160 (4064) | 408 (10363) | 111 (2819) | 93.4 (2372) | 82.15 (2087) | 3 | 4.5 | |

| MAST TYPE | MAXIMUM FORK HEIGHT ¹ (TOP OF FORKS) | OVERALL HEIGHT | | FREE LIFT | OVERHEAD GUARD HEIGHT | OPERATOR COMPARTMENT HEIGHT | TILT RANGE ² | |
|--|--|----------------|---------------------------------|---------------------------------|-----------------------|-----------------------------|-------------------------|-----|
| | | LOWERED | EXTENDED | WITH STANDARD 36" LOAD BACKREST | | | FWD | BWD |
| | | | WITH STANDARD 36" LOAD BACKREST | | | | | |
| in (mm) | | | | | | | | |
| RF1-SD2X32 | | | | | | | | |
| Wide Visible Full-Free Lift Three-Stage Four-Cylinder Mast (FSW) | 189 (4800) | 89 (2260) | 227 (5766) | 38 (965) | 87.4 (2220) | 76.15 (1934) | 3 | 4.5 |
| | 207 (5258) | 95 (2413) | 245 (6223) | 50 (1270) | 93.4 (2372) | 82.15 (2087) | 3 | 4.5 |
| | 216 (5486) | 100 (2540) | 254 (6452) | 55 (1397) | 93.4 (2372) | 82.15 (2087) | 3 | 4.5 |
| | 237 (6020) | 107 (2718) | 275 (6985) | 62 (1579) | 93.4 (2372) | 82.15 (2087) | 3 | 4.5 |
| | 252 (6401) | 114 (2896) | 290 (7366) | 69 (1753) | 93.4 (2372) | 82.15 (2087) | 3 | 4.5 |
| | 264 (6706) | 118 (2997) | 302 (7671) | 73 (1854) | 93.4 (2372) | 82.15 (2087) | 3 | 4.5 |
| | 276 (7010) | 122 (3099) | 314 (7976) | 77 (1956) | 93.4 (2372) | 82.15 (2087) | 3 | 4.5 |
| | 288 (7315) | 128 (3251) | 326 (8280) | 83 (2108) | 93.4 (2372) | 82.15 (2087) | 3 | 4.5 |
| | 302 (7671) | 135 (3429) | 340 (8636) | 90 (2286) | 93.4 (2372) | 82.15 (2087) | 3 | 4.5 |
| | 315 (8001) | 141 (3581) | 353 (8966) | 96 (2438) | 93.4 (2372) | 82.15 (2087) | 3 | 4.5 |
| | 321 (8153) | 142 (3607) | 359 (9119) | 97 (2464) | 93.4 (2372) | 82.15 (2087) | 3 | 4.5 |
| | 330 (8382) | 146 (3708) | 368 (9347) | 101 (2565) | 93.4 (2372) | 82.15 (2087) | 3 | 4.5 |
| | 336 (8534) | 148 (3759) | 374 (9500) | 103 (2616) | 93.4 (2372) | 82.15 (2087) | 3 | 4.5 |
| | 348 (8839) | 152 (3861) | 386 (9804) | 107 (2718) | 93.4 (2372) | 82.15 (2087) | 3 | 4.5 |
| | 360 (9144) | 156 (3962) | 398 (10109) | 111 (2819) | 93.4 (2372) | 82.15 (2087) | 3 | 4.5 |
| 372 (9449) | 160 (4064) | 410 (10414) | 115 (2921) | 93.4 (2372) | 82.15 (2087) | 3 | 4.5 | |

1 Recommended lift-off height is 10 in. (254 mm) higher than top beam height.
2 Tilting Load Backrest.

MAST SPECIFICATIONS

| MAST TYPE | MAXIMUM FORK HEIGHT ¹ (TOP OF FORKS) | OVERALL HEIGHT | | FREE LIFT | OVERHEAD GUARD HEIGHT | OPERATOR COMPARTMENT HEIGHT | TILT RANGE ² | |
|--|--|----------------|---------------------------------|---------------------------------|-----------------------|-----------------------------|-------------------------|-----|
| | | LOWERED | EXTENDED | WITH STANDARD 36" LOAD BACKREST | | | FWD | BWD |
| | | | WITH STANDARD 36" LOAD BACKREST | | | | | |
| in (mm) | | | | | | | | |
| RF1-HP1X45 | | | | | | | | |
| Wide Visible Full-Free Lift Three-Stage Four-Cylinder Mast (FSW) | 346 (8788) | 149 (3785) | 382 (9703) | 100 (2540) | 93.4 (2372) | 82.15 (2087) | 3 | 4.5 |
| | 370 (9398) | 157 (3988) | 406 (10312) | 108 (2743) | 93.4 (2372) | 82.15 (2087) | 3 | 4.5 |
| | 376 (9550) | 159 (4039) | 412 (10465) | 110 (2794) | 93.4 (2372) | 82.15 (2087) | 3 | 4.5 |
| | 400 (10160) | 167 (4242) | 436 (11074) | 118 (2997) | 93.4 (2372) | 82.15 (2087) | 3 | 4.5 |
| | 421 (10693) | 174 (4420) | 457 (11608) | 125 (3175) | 93.4 (2372) | 82.15 (2087) | 3 | 4.5 |
| | 444 (11278) | 184 (4674) | 480 (12192) | 135 (3429) | 93.4 (2372) | 82.15 (2087) | 3 | 4.5 |
| RF1-HP2X32 | | | | | | | | |
| Wide Visible Full-Free Lift Three-Stage Four-Cylinder Mast (FSW) | 346 (8788) | 149 (3785) | 384 (9754) | 104 (2642) | 93.4 (2372) | 82.15 (2087) | 3 | 4.5 |
| | 370 (9398) | 157 (3988) | 408 (10363) | 112 (2642) | 93.4 (2372) | 82.15 (2087) | 3 | 4.5 |
| | 376 (9550) | 159 (4039) | 414 (10516) | 114 (2896) | 93.4 (2372) | 82.15 (2087) | 3 | 4.5 |
| | 400 (10160) | 167 (4242) | 438 (11125) | 122 (3099) | 93.4 (2372) | 82.15 (2087) | 3 | 4.5 |
| | 421 (10693) | 174 (4420) | 459 (11659) | 129 (3277) | 93.4 (2372) | 82.15 (2087) | 3 | 4.5 |
| | 444 (11278) | 184 (4674) | 482 (12243) | 139 (3531) | 93.4 (2372) | 82.15 (2087) | 3 | 4.5 |
| RF1-SD1Z45 | | | | | | | | |
| Wide Visible Full-Free Lift Three-Stage Four-Cylinder Mast (FSW) | 193 (4902) | 89 (2260) | 229 (5817) | 46 (1168) | 87.4 (2220) | 76.15 (1934) | 3 | 4.5 |
| | 211 (5359) | 95 (2413) | 247 (6274) | 52 (1321) | 93.4 (2372) | 82.15 (2087) | 3 | 4.5 |
| | 226 (5740) | 102 (2591) | 262 (6655) | 59 (1499) | 93.4 (2372) | 82.15 (2087) | 3 | 4.5 |
| | 241 (6121) | 107 (2718) | 277 (7036) | 64 (1626) | 93.4 (2372) | 82.15 (2087) | 3 | 4.5 |
| | 250 (6350) | 110 (2794) | 286 (7264) | 67 (1702) | 93.4 (2372) | 82.15 (2087) | 3 | 4.5 |
| | 268 (6807) | 118 (2997) | 304 (7722) | 75 (1905) | 93.4 (2372) | 82.15 (2087) | 3 | 4.5 |
| | 280 (7112) | 122 (3099) | 316 (8026) | 79 (2007) | 93.4 (2372) | 82.15 (2087) | 3 | 4.5 |
| | 301 (7645) | 131 (3327) | 337 (8560) | 88 (2235) | 93.4 (2372) | 82.15 (2087) | 3 | 4.5 |
| | 321 (8153) | 142 (3607) | 357 (9068) | 100 (2540) | 93.4 (2372) | 82.15 (2087) | 3 | 4.5 |
| | 330 (8382) | 146 (3708) | 366 (9296) | 103 (2616) | 93.4 (2372) | 82.15 (2087) | 3 | 4.5 |
| | 336 (8534) | 148 (3759) | 372 (9449) | 105 (2667) | 93.4 (2372) | 82.15 (2087) | 3 | 4.5 |
| | 348 (8839) | 152 (3861) | 384 (9754) | 109 (2769) | 93.4 (2372) | 82.15 (2087) | 3 | 4.5 |
| | 360 (9144) | 156 (3962) | 396 (10058) | 113 (2870) | 93.4 (2372) | 82.15 (2087) | 3 | 4.5 |
| | 372 (9449) | 160 (4064) | 408 (10363) | 117 (2972) | 93.4 (2372) | 82.15 (2087) | 3 | 4.5 |

1 Recommended lift-off height is 10 in. (254 mm) higher than top beam height.
 2 Tilting Load Backrest.

| MAST TYPE | MAXIMUM FORK HEIGHT ¹ (TOP OF FORKS) | OVERALL HEIGHT | | FREE LIFT | OVERHEAD GUARD HEIGHT | OPERATOR COMPARTMENT HEIGHT | TILT RANGE ² | |
|--|--|----------------|---------------------------------|---------------------------------|-----------------------|-----------------------------|-------------------------|-----|
| | | LOWERED | EXTENDED | WITH STANDARD 36" LOAD BACKREST | | | FWD | BWD |
| | | | WITH STANDARD 36" LOAD BACKREST | | | | | |
| in (mm) | | | | | | | | |
| RF1-SD2Z32 | | | | | | | | |
| Wide Visible Full-Free Lift Three-Stage Four-Cylinder Mast (FSW) | 189 (4800) | 89 (2260) | 227 (5766) | 50 (1270) | 87.4 (2220) | 76.15 (1934) | 3 | 4.5 |
| | 207 (5258) | 95 (2413) | 245 (6223) | 56 (1422) | 93.4 (2372) | 82.15 (2087) | 3 | 4.5 |
| | 216 (5486) | 100 (2540) | 254 (6452) | 61 (1549) | 93.4 (2372) | 82.15 (2087) | 3 | 4.5 |
| | 237 (6020) | 107 (2718) | 275 (6985) | 68 (1727) | 93.4 (2372) | 82.15 (2087) | 3 | 4.5 |
| | 252 (6401) | 114 (2896) | 290 (7366) | 75 (1905) | 93.4 (2372) | 82.15 (2087) | 3 | 4.5 |
| | 264 (6706) | 118 (2997) | 302 (7671) | 79 (2006) | 93.4 (2372) | 82.15 (2087) | 3 | 4.5 |
| | 276 (7010) | 122 (3099) | 314 (7976) | 83 (2108) | 93.4 (2372) | 82.15 (2087) | 3 | 4.5 |
| | 288 (7315) | 128 (3251) | 326 (8280) | 89 (2260) | 93.4 (2372) | 82.15 (2087) | 3 | 4.5 |
| | 302 (7671) | 135 (3429) | 340 (8636) | 96 (2438) | 93.4 (2372) | 82.15 (2087) | 3 | 4.5 |
| | 315 (8001) | 141 (3581) | 353 (8966) | 102 (2591) | 93.4 (2372) | 82.15 (2087) | 3 | 4.5 |
| | 321 (8153) | 142 (3607) | 359 (9119) | 103 (2616) | 93.4 (2372) | 82.15 (2087) | 3 | 4.5 |
| | 330 (8382) | 146 (3708) | 368 (9347) | 107 (2717) | 93.4 (2372) | 82.15 (2087) | 3 | 4.5 |
| | 336 (8534) | 148 (3759) | 374 (9500) | 109 (2769) ³ | 93.4 (2372) | 82.15 (2087) | 3 | 4.5 |
| | 348 (8839) | 152 (3861) | 386 (9804) | 113 (2870) ³ | 93.4 (2372) | 82.15 (2087) | 3 | 4.5 |
| | 360 (9144) | 156 (3962) | 398 (10109) | 117 (2972) ³ | 93.4 (2372) | 82.15 (2087) | 3 | 4.5 |
| 372 (9449) | 160 (4064) | 410 (10414) | 121 (3073) ³ | 93.4 (2372) | 82.15 (2087) | 3 | 4.5 | |

| MAST TYPE | MAXIMUM FORK HEIGHT ¹ (TOP OF FORKS) | OVERALL HEIGHT | | FREE LIFT | OVERHEAD GUARD HEIGHT | OPERATOR COMPARTMENT HEIGHT | TILT RANGE ² | |
|--|--|----------------|---------------------------------|---------------------------------|-----------------------|-----------------------------|-------------------------|-----|
| | | LOWERED | EXTENDED | WITH STANDARD 36" LOAD BACKREST | | | FWD | BWD |
| | | | WITH STANDARD 36" LOAD BACKREST | | | | | |
| in (mm) | | | | | | | | |
| RF1-HP1Z45 | | | | | | | | |
| Wide Visible Full-Free Lift Three-Stage Four-Cylinder Mast (FSW) | 346 (8788) | 149 (3785) | 382 (9703) | 100 (2540) | 93.4 (2372) | 82.15 (2087) | 3 | 4.5 |
| | 370 (9398) | 157 (3988) | 406 (10312) | 108 (2743) | 93.4 (2372) | 82.15 (2087) | 3 | 4.5 |
| | 376 (9550) | 159 (4039) | 412 (10465) | 110 (2794) | 93.4 (2372) | 82.15 (2087) | 3 | 4.5 |
| | 400 (10160) | 167 (4242) | 436 (11074) | 118 (2997) | 93.4 (2372) | 82.15 (2087) | 3 | 4.5 |
| | 421 (10693) | 174 (4420) | 457 (11608) | 125 (3175) | 93.4 (2372) | 82.15 (2087) | 3 | 4.5 |
| | 444 (11278) | 184 (4674) | 480 (12192) | 135 (3429) | 93.4 (2372) | 82.15 (2087) | 3 | 4.5 |

| MAST TYPE | MAXIMUM FORK HEIGHT ¹ (TOP OF FORKS) | OVERALL HEIGHT | | FREE LIFT | OVERHEAD GUARD HEIGHT | OPERATOR COMPARTMENT HEIGHT | TILT RANGE ² | |
|--|--|----------------|---------------------------------|---------------------------------|-----------------------|-----------------------------|-------------------------|-----|
| | | LOWERED | EXTENDED | WITH STANDARD 36" LOAD BACKREST | | | FWD | BWD |
| | | | WITH STANDARD 36" LOAD BACKREST | | | | | |
| in (mm) | | | | | | | | |
| RF1-HP2Z32 | | | | | | | | |
| Wide Visible Full-Free Lift Three-Stage Four-Cylinder Mast (FSW) | 346 (8788) | 149 (3785) | 384 (9754) | 104 (2642) | 93.4 (2372) | 82.15 (2087) | 3 | 4.5 |
| | 370 (9398) | 157 (3988) | 408 (10363) | 112 (2642) | 93.4 (2372) | 82.15 (2087) | 3 | 4.5 |
| | 376 (9550) | 159 (4039) | 414 (10516) | 114 (2896) | 93.4 (2372) | 82.15 (2087) | 3 | 4.5 |
| | 400 (10160) | 167 (4242) | 438 (11125) | 122 (3099) | 93.4 (2372) | 82.15 (2087) | 3 | 4.5 |
| | 421 (10693) | 174 (4420) | 459 (11659) | 129 (3277) | 93.4 (2372) | 82.15 (2087) | 3 | 4.5 |
| | 444 (11278) | 184 (4674) | 482 (12243) | 139 (3531) | 93.4 (2372) | 82.15 (2087) | 3 | 4.5 |

1 Recommended lift-off height is 10 in. (254 mm) higher than top beam height.
2 Tilting Load Backrest.
3 Subtract 4 in. (102 mm) for 21.3 in. (541) battery compartment.

AISLE WIDTH REQUIREMENTS FOR RIGHT-ANGLE STACKING

| | LOAD WIDTH | | | | | |
|-------------------|------------------|--------------|--------------|--------------|--------------|--------------|
| | in (mm) | 40 (1020) | 44 (1120) | 48 (1220) | 54 (1370) | 60 (1520) |
| RF1-BE1X35 | | | | | | |
| Load Length | 30 (762) | 82.5 (2095) | 82.5 (2095) | 82.5 (2095) | 82.5 (2095) | 82.5 (2095) |
| | 36 (914) | 82.5 (2095) | 82.5 (2095) | 82.5 (2095) | 82.5 (2095) | 82.5 (2095) |
| | 40 (1016) | 87 (2210) | 86.5 (2197) | 86 (2184) | 85.2 (2164) | 84.4 (2144) |
| | 44 (1118) | 92 (2337) | 91.5 (2325) | 91 (2311) | 90.3 (2394) | 89.6 (2276) |
| | 48 (1219) | 96.7 (2456) | 96.3 (2446) | 95.8 (2433) | 95.2 (2418) | 94.6 (2403) |
| | 54 (1372) | 103.5 (2629) | 103.1 (2619) | 102.8 (2611) | 102.2 (2596) | 101.7 (2583) |
| | 60 (1524) | 110.1 (2796) | 109.8 (2789) | 109.4 (2779) | 109 (2769) | 108.5 (2756) |

Min. Aisle Width - 14.2 (361) Battery Compartment, with sideshift
4 in. (102 mm) Clearance Each Side of Load

- Add 2 in. (51 mm) for 16.2 (411) Battery Compartment.
- Add a minimum of 6 in. (152 mm) to 12 in. (305 mm) for easy maneuvering.
- For baseleg inner dimensions greater than 41 inches, add 2 in. to aisle width requirements

| | LOAD WIDTH | | | | | |
|-------------------|------------------|--------------|--------------|--------------|--------------|--------------|
| | in (mm) | 40 (1016) | 44 (1118) | 48 (1219) | 54 (1372) | 60 (1524) |
| RF1-BE1X40 | | | | | | |
| Load Length | 30 (762) | 85.3 (2167) | 85.3 (2167) | 85.3 (2167) | 85.3 (2167) | 85.3 (2167) |
| | 36 (914) | 85.3 (2167) | 85.3 (2167) | 85.3 (2167) | 85.3 (2167) | 85.3 (2167) |
| | 40 (1016) | 90 (2286) | 89.5 (2273) | 88.9 (2258) | 88.1 (2238) | 87.3 (2217) |
| | 44 (1118) | 95 (2413) | 94.5 (2400) | 94 (2388) | 93.3 (2370) | 92.6 (2352) |
| | 48 (1219) | 99.7 (2532) | 99.3 (2522) | 98.9 (2512) | 98.3 (2497) | 97.6 (2479) |
| | 54 (1372) | 106.6 (2708) | 106.2 (2697) | 105.9 (2690) | 105.3 (2675) | 104.8 (2662) |
| | 60 (1524) | 113.2 (2875) | 112.9 (2868) | 112.6 (2860) | 112.1 (2847) | 111.6 (2835) |

Min. Aisle Width - 14.2 (361) Battery Compartment, with sideshift
4 in. (102 mm) Clearance Each Side of Load

- Add 2 in. (51 mm) for 16.2 (411) Battery Compartment.
- Add a minimum of 6 in. (152 mm) to 12 in. (305 mm) for easy maneuvering.
- For baseleg inner dimensions greater than 41 inches, add 2 in. to aisle width requirements

| | LOAD WIDTH | | | | | |
|---------------------------------------|------------------|--------------|--------------|--------------|--------------|--------------|
| | in (mm) | 40 (1020) | 44 (1120) | 48 (1220) | 54 (1370) | 60 (1520) |
| RF1-BE2X25 (UNDER RACK METHOD) | | | | | | |
| Load Length | 40 (1016) | 94.0 (2387) | 93.6 (2377) | 93.1 (2365) | 92.4 (2347) | 91.7 (2329) |
| | 42 (1067) | 96.3 (2446) | 95.8 (2433) | 95.5 (2426) | 94.8 (2408) | 94.1 (2390) |
| | 44 (1118) | 98.7 (2507) | 98.3 (2497) | 97.9 (2487) | 97.3 (2471) | 96.6 (2454) |
| | 48 (1219) | 103.3 (2624) | 102.9 (2614) | 102.5 (2604) | 102.0 (2591) | 101.4 (2576) |

Min. Aisle Width - 14.2 (361) Battery Compartment, with sideshift
4 in. (100 mm) Clearance Each Side of Load

- Add 2 in. (51 mm) for 16.2 in. (411 mm) Battery Compartment.
- Add a minimum of 6 in. (150 mm) to 12 in. (305 mm) for easy maneuvering.

| | LOAD WIDTH | | | | | |
|-------------------------------------|------------------|--------------|-------------|-------------|-------------|-------------|
| | in (mm) | 40 (1020) | 44 (1120) | 48 (1220) | 54 (1370) | 60 (1520) |
| RF1-BE2X25 (STRADDLE METHOD) | | | | | | |
| Load Length | 40 (1016) | 89.9 (2383) | 89.3 (2268) | 88.5 (2248) | 87.5 (2222) | 87.0 (2210) |
| | 42 (1067) | 94.3 (2395) | 93.2 (2367) | 93.2 (2367) | 91.6 (2327) | 90.1 (2288) |
| | 44 (1118) | 95.2 (2418) | 94.6 (2403) | 94.0 (2388) | 93.1 (2365) | 92.1 (2339) |
| | 48 (1219) | 100.0 (2540) | 99.7 (2532) | 99.1 (2517) | 98.3 (2497) | 97.5 (2477) |

Min. Aisle Width - 14.2 (361) Battery Compartment, with sideshift
6 in. (152 mm) Clearance Each Side of Load

- Add 2 in. (51 mm) for 16.2 in. (411 mm) Battery Compartment.
- Add a minimum of 6 in. (150 mm) to 12 in. (305 mm) for easy maneuvering.

| | LOAD WIDTH | | | | | |
|-------------------|------------------|--------------|--------------|--------------|--------------|--------------|
| | in (mm) | 40 (1020) | 44 (1120) | 48 (1220) | 54 (1370) | 60 (1520) |
| RF1-BH1X35 | | | | | | |
| Load Length | 30 (762) | 82.5 (2095) | 82.5 (2095) | 82.5 (2095) | 82.5 (2095) | 82.5 (2095) |
| | 36 (914) | 82.5 (2095) | 82.5 (2095) | 82.5 (2095) | 82.5 (2095) | 82.5 (2095) |
| | 40 (1016) | 87 (2210) | 86.5 (2197) | 86 (2184) | 85.2 (2164) | 84.4 (2144) |
| | 44 (1118) | 92 (2337) | 91.5 (2325) | 91 (2311) | 90.3 (2394) | 89.6 (2276) |
| | 48 (1219) | 96.7 (2456) | 96.3 (2446) | 95.8 (2433) | 95.2 (2418) | 94.6 (2403) |
| | 54 (1372) | 103.5 (2629) | 103.1 (2619) | 102.8 (2611) | 102.2 (2596) | 101.7 (2583) |
| | 60 (1524) | 110.1 (2796) | 109.8 (2789) | 109.4 (2779) | 109 (2769) | 108.5 (2756) |

Min. Aisle Width - 14.2 in. (361 mm) Battery Compartment, with Sideshift
4 in. (102 mm) Clearance Each Side of Load

- Includes Integral Sideshift.
- Add 2 in. (51 mm) for 16.2 in. (411 mm) Battery Compartment.
- Add 4 in. (102 mm) for 18.2 in. (462 mm) Battery Compartment.
- Add a minimum of 6 in. (152 mm) to 12 in. (305 mm) for easy maneuvering.
- For loads less than 40 in. (1016 mm) wide or baseleg opening greater than 41 in. (1041 mm), add 2 in. (51 mm).
- Push-back Rack: Right Angle Stacking Aisle width is calculated by truck head length + load length + clearance (easy maneuvering and throughput requirements). Using bottom load beams is recommended to push the load back with the truck (not the reach mechanism).

| | LOAD WIDTH | | | | | |
|-------------------|------------------|--------------|--------------|--------------|--------------|--------------|
| | in (mm) | 40 (1016) | 44 (1118) | 48 (1219) | 54 (1372) | 60 (1524) |
| RF1-BH1X40 | | | | | | |
| Load Length | 30 (762) | 83.3 (2116) | 83.3 (2116) | 83.3 (2116) | 83.3 (2116) | 83.3 (2116) |
| | 36 (914) | 83.3 (2116) | 83.3 (2116) | 83.3 (2116) | 83.3 (2116) | 83.3 (2116) |
| | 40 (1016) | 88 (2235) | 87.5 (2223) | 86.9 (2207) | 86.1 (2187) | 85.3 (2167) |
| | 44 (1118) | 93 (2362) | 92.5 (2350) | 92 (2337) | 91.3 (2319) | 90.6 (2301) |
| | 48 (1219) | 97.7 (2482) | 97.3 (2471) | 96.9 (2461) | 96.3 (2446) | 95.6 (2428) |
| | 54 (1372) | 104.6 (2657) | 104.2 (2647) | 103.9 (2639) | 103.3 (2624) | 102.8 (2611) |
| | 60 (1524) | 111.2 (2824) | 110.9 (2817) | 110.6 (2809) | 110.1 (2797) | 109.6 (2784) |

Min. Aisle Width - 14.2 in. (361 mm) Battery Compartment, with Sideshift
4 in. (100 mm) Clearance Each Side of Load

- Includes Integral Sideshift.
- Add a minimum of 6 in. (152 mm) to 12 in. (305 mm) for easy maneuvering.
- For loads less than 40 in. (1016 mm) wide or baseleg opening greater than 41 in. (1041 mm), add 2 in. (51 mm).
- Push-back Rack: Right Angle Stacking Aisle width is calculated by truck head length + load length + clearance (easy maneuvering and throughput requirements). Using bottom load beams is recommended to push the load back with the truck (not the reach mechanism).

| | LOAD WIDTH | | | | | |
|-------------------|------------------|--------------|--------------|--------------|--------------|--------------|
| | in (mm) | 40 (1016) | 44 (1118) | 48 (1219) | 54 (1372) | 60 (1524) |
| RF1-BH1X45 | | | | | | |
| Load Length | 30 (762) | 85.3 (2167) | 85.3 (2167) | 85.3 (2167) | 85.3 (2167) | 85.3 (2167) |
| | 36 (914) | 85.3 (2167) | 85.3 (2167) | 85.3 (2167) | 85.3 (2167) | 85.3 (2167) |
| | 40 (1016) | 90 (2286) | 89.5 (2273) | 88.9 (2258) | 88.1 (2238) | 87.3 (2217) |
| | 44 (1118) | 95 (2413) | 94.5 (2400) | 94 (2388) | 93.3 (2370) | 92.6 (2352) |
| | 48 (1219) | 99.7 (2532) | 99.3 (2522) | 98.9 (2512) | 98.3 (2497) | 97.6 (2479) |
| | 54 (1372) | 106.6 (2708) | 106.2 (2697) | 105.9 (2690) | 105.3 (2675) | 104.8 (2662) |
| | 60 (1524) | 113.2 (2875) | 112.9 (2868) | 112.6 (2860) | 112.1 (2847) | 111.6 (2835) |

Min. Aisle Width - 16.2 (411) Battery Compartment, with sideshift
4 in. (100 mm) Clearance Each Side of Load

- Includes Integral Sideshift.
- Add 2 in. (51 mm) for 18.2 (462) Battery Compartment.
- Add 5 in. (127 mm) for 21.2 (538) Battery Compartment.
- Add a minimum of 6 in. (152 mm) to 12 in. (305 mm) for easy maneuvering.
- For loads less than 40 in. (1016 mm) wide or baseleg opening greater than 41 in. (1041 mm), add 2 in. (51 mm).
- Push-back Rack: Right Angle Stacking Aisle width is calculated by truck head length + load length + clearance (easy maneuvering and throughput requirements). Using bottom load beams is recommended to push the load back with the truck (not the reach mechanism).

| | LOAD WIDTH | | | | | |
|---------------------------------------|------------------|--------------|--------------|--------------|--------------|--------------|
| | in (mm) | 40 (1016) | 44 (1118) | 48 (1219) | 54 (1372) | 60 (1524) |
| RF1-BH2X25 (UNDER RACK METHOD) | | | | | | |
| Load Length | 40 (1016) | 94.0 (2387) | 93.6 (2377) | 93.1 (2365) | 92.4 (2347) | 91.7 (2329) |
| | 42 (1067) | 96.3 (2446) | 95.8 (2433) | 95.5 (2426) | 94.8 (2408) | 94.1 (2390) |
| | 44 (1118) | 98.7 (2507) | 98.3 (2497) | 97.9 (2487) | 97.3 (2471) | 96.6 (2454) |
| | 48 (1219) | 103.3 (2624) | 102.9 (2614) | 102.5 (2604) | 102.0 (2591) | 101.4 (2576) |

Min. Aisle Width - 14.2 in. (361 mm) Battery Compartment, with Sideshift
4 in. (102 mm) Clearance Each Side of Load

- Includes Integral Sideshift
- Add a minimum of 6 in. (152 mm) to 12 in. (305 mm) for easy maneuvering.
- Add 2 in. (51 mm) for 16.2 in. (411 mm) Battery Compartment.
- Push-back Rack: Right Angle Stacking Aisle width is calculated by truck head length + load length + clearance (easy maneuvering and throughput requirements). Using bottom load beams is recommended to push the load back with the truck (not the reach mechanism).

AISLE WIDTH REQUIREMENTS FOR RIGHT-ANGLE STACKING

| | LOAD WIDTH | | | | | |
|-------------------------------------|------------------|--------------|-------------|-------------|-------------|-------------|
| | in (mm) | 40 (1016) | 44 (1118) | 48 (1219) | 54 (1372) | 60 (1524) |
| RF1-BH2X25 (STRADDLE METHOD) | | | | | | |
| Load Length | 40 (1016) | 89.9 (2383) | 89.3 (2268) | 88.5 (2248) | 87.5 (1372) | 87.0 (2210) |
| | 42 (1067) | 94.3 (2395) | 93.2 (2367) | 93.2 (2367) | 91.6 (2327) | 90.1 (2288) |
| | 44 (1118) | 95.2 (2418) | 94.6 (2403) | 94.0 (2388) | 93.1 (2365) | 92.1 (2339) |
| | 48 (1219) | 100.0 (2540) | 99.7 (2532) | 99.1 (2517) | 98.3 (2497) | 97.5 (2477) |

Min. Aisle Width - 14.2 in. (361 mm) Battery Compartment, with Sideshift
6 in. (152 mm) Clearance Each Side of Load

- Includes Integral Sideshift.
- Add a minimum of 6 in. (152 mm) to 12 in. (305 mm) for easy maneuvering.
- Add 2 in. (51 mm) for 16.2 in. (411 mm) Battery Compartment.
- Push-back Rack: Right Angle Stacking Aisle width is calculated by truck head length + load length + clearance (easy maneuvering and throughput requirements). Using bottom load beams is recommended to push the load back with the truck (not the reach mechanism).

| | LOAD WIDTH | | | | | |
|---------------------------------------|------------------|--------------|--------------|--------------|--------------|--------------|
| | in (mm) | 40 (1020) | 44 (1120) | 48 (1220) | 54 (1370) | 60 (1520) |
| RF1-BH2X30 (UNDER RACK METHOD) | | | | | | |
| Load Length | 40 (1016) | 96.0 (2438) | 95.5 (2426) | 95.0 (2413) | 94.4 (2398) | 93.7 (2380) |
| | 42 (1067) | 98.3 (2497) | 97.8 (2484) | 97.5 (2477) | 96.8 (2459) | 96.1 (2441) |
| | 44 (1118) | 100.7 (2558) | 100.3 (2548) | 99.8 (2535) | 99.2 (2520) | 98.6 (2504) |
| | 48 (1219) | 105.2 (2672) | 104.9 (2664) | 104.5 (2654) | 103.9 (2639) | 103.4 (2626) |

Min. Aisle Width - 16.2 (411) Battery Compartment, with sideshift
4 in. (100 mm) Clearance Each Side of Load

- Includes Integral Sideshift
- Add 2 in. (51 mm) for 18.2 in. (462 mm) Battery Compartment.
- Add 5 in. (127 mm) for 21.2 (538) Battery Compartment.
- Add a minimum of 6 in. (152 mm) to 12 in. (305 mm) for easy maneuvering.
- Push-back Rack: Right Angle Stacking Aisle width is calculated by truck head length + load length + clearance (easy maneuvering and throughput requirements). Using bottom load beams is recommended to push the load back with the truck (not the reach mechanism).

| | LOAD WIDTH | | | | | |
|-------------------------------------|------------------|--------------|--------------|--------------|--------------|-------------|
| | in (mm) | 40 (1020) | 44 (1120) | 48 (1220) | 54 (1370) | 60 (1520) |
| RF1-BH2X30 (STRADDLE METHOD) | | | | | | |
| Load Length | 40 (1016) | 91.9 (2334) | 89.1 (2316) | 90.4 (2296) | 89.5 (2273) | 89.0 (2261) |
| | 42 (1067) | 96.3 (2446) | 95.2 (2418) | 95.2 (2418) | 93.6 (2377) | 92.1 (2339) |
| | 44 (1118) | 97.2 (2469) | 96.6 (2454) | 95.9 (2436) | 95.0 (2413) | 94.1 (2390) |
| | 48 (1219) | 101.9 (2588) | 101.7 (2583) | 101.1 (2568) | 100.2 (2545) | 99.5 (2527) |

Min. Aisle Width - 16.2 (411) Battery Compartment, with sideshift
6 in. (152 mm) Clearance Each Side of Load

- Includes Integral Sideshift.
- Add a minimum of 6 in. (152 mm) to 12 in. (305 mm) for easy maneuvering.
- Add 2 in. (51 mm) for 18.2 in. (462 mm) Battery Compartment.
- Add 5 in. (127 mm) for 21.2 (538) Battery Compartment.
- Push-back Rack: Right Angle Stacking Aisle width is calculated by truck head length + load length + clearance (easy maneuvering and throughput requirements). Using bottom load beams is recommended to push the load back with the truck (not the reach mechanism).

| | LOAD WIDTH | | | | | |
|-------------------|------------------|------------|------------|------------|------------|------------|
| | in (mm) | 40 (1016) | 44 (1118) | 48 (1219) | 54 (1372) | 60 (1524) |
| RF1-SD1X35 | | | | | | |
| Load Length | 30 (762) | 87 (2210) | 87 (2210) | 87 (2210) | 87 (2210) | 87 (2210) |
| | 36 (914) | 87 (2210) | 87 (2210) | 87 (2210) | 87 (2210) | 87 (2210) |
| | 40 (1016) | 91 (2311) | 91 (2311) | 90 (2286) | 89 (2261) | 88 (2235) |
| | 44 (1118) | 96 (2438) | 96 (2438) | 95 (2413) | 94 (2388) | 94 (2388) |
| | 48 (1219) | 101 (2565) | 100 (2540) | 100 (2540) | 99 (2515) | 99 (2515) |
| | 54 (1372) | 107 (2718) | 107 (2718) | 107 (2718) | 106 (2692) | 106 (2692) |
| | 60 (1524) | 114 (2896) | 114 (2896) | 113 (2870) | 113 (2870) | 112 (2845) |

Min. Aisle Width - 16.2 in. (411 mm) Battery Compartment, with Sideshift
4 in. (102 mm) Clearance Each Side of Load

- Includes Integral Sideshift
- Add a minimum of 6 in. (152 mm) to 12 in. (305 mm) for easy maneuvering.
- Add 2 in. (51 mm) for 18.2 in. (462 mm) Battery Compartment.
- Push-back Rack: Right Angle Stacking Aisle width is calculated by truck head length + load length + clearance (easy maneuvering and throughput requirements). Using bottom load beams is recommended to push the load back with the truck (not the reach mechanism).

| | LOAD WIDTH | | | | | |
|-------------------|------------------|------------|------------|------------|------------|------------|
| | in (mm) | 40 (1016) | 44 (1118) | 48 (1219) | 54 (1372) | 60 (1524) |
| RF1-SD1X45 | | | | | | |
| Load Length | 30 (762) | 87 (2210) | 87 (2210) | 87 (2210) | 87 (2210) | 87 (2210) |
| | 36 (914) | 87 (2210) | 87 (2210) | 87 (2210) | 87 (2210) | 87 (2210) |
| | 40 (1016) | 91 (2311) | 91 (2311) | 90 (2286) | 89 (2261) | 88 (2235) |
| | 44 (1118) | 96 (2438) | 96 (2438) | 95 (2413) | 94 (2388) | 94 (2388) |
| | 48 (1219) | 101 (2565) | 100 (2540) | 100 (2540) | 99 (2515) | 99 (2515) |
| | 54 (1372) | 107 (2718) | 107 (2718) | 107 (2718) | 106 (2692) | 106 (2692) |
| | 60 (1524) | 114 (2896) | 114 (2896) | 113 (2870) | 113 (2870) | 112 (2845) |

Min. Aisle Width - 16.2 in. (411 mm) Battery Compartment, with Sideshift
4 in. (102 mm) Clearance Each Side of Load

- Subtract 1 in. (25 mm) for trucks without Sideshift.
- Add a minimum of 6 in. (152 mm) to 12 in. (305 mm) for easy maneuvering.
- Add 2 in. (51 mm) for 18.2 in. (462 mm) Battery Compartment.
- Add 5 in. (127 mm) for 21.2 in. (538 mm) Battery Compartment.

| | LOAD WIDTH | | | | | |
|-------------------|------------------|--------------|--------------|--------------|--------------|--------------|
| | in (mm) | 40 (1016) | 44 (1118) | 48 (1219) | 54 (1372) | 60 (1524) |
| RF1-SD2X32 | | | | | | |
| Load Length | 40 (1016) | 97.5 (2477) | 97.0 (2464) | 96.6 (2454) | 95.9 (2436) | 95.2 (2418) |
| | 42 (1067) | 98.0 (2489) | 98.0 (2489) | 97.0 (2464) | 97.0 (2464) | 97.0 (2464) |
| | 44 (1118) | 102.1 (2593) | 101.7 (2583) | 101.3 (2573) | 100.7 (2558) | 100.0 (2540) |
| | 48 (1219) | 106.8 (2713) | 106.2 (2698) | 105.8 (2687) | 105.3 (2675) | 104.7 (2659) |

Min. Aisle Width - 16.2 in. (361 mm) Battery Compartment, with Sideshift
4 in. (102 mm) Clearance Each Side of Load

- Includes Integral Sideshift
- Add a minimum of 6 in. (152 mm) to 12 in. (305 mm) for easy maneuvering.
- Add 2 in. (51 mm) for 18.2 in. (411 mm) Battery Compartment.
- Add 5 in. (127 mm) for 21.2 in. (538 mm) Battery Compartment

| | LOAD WIDTH | | | | | |
|-------------------|------------------|------------|------------|------------|------------|------------|
| | in (mm) | 40 (1016) | 44 (1118) | 48 (1219) | 54 (1372) | 60 (1524) |
| RF1-HP1X45 | | | | | | |
| Load Length | 30 (762) | 92 (2337) | 92 (2337) | 92 (2337) | 92 (2337) | 92 (2337) |
| | 36 (914) | 92 (2337) | 92 (2337) | 92 (2337) | 92 (2337) | 92 (2337) |
| | 40 (1016) | 96 (2438) | 96 (2438) | 95 (2413) | 95 (2413) | 94 (2388) |
| | 44 (1118) | 101 (2565) | 100 (2540) | 100 (2540) | 99 (2514) | 99 (2514) |
| | 48 (1219) | 106 (2692) | 106 (2692) | 105 (2667) | 104 (2642) | 104 (2642) |
| | 54 (1372) | 112 (2844) | 112 (2844) | 112 (2844) | 111 (2819) | 111 (2819) |
| | 60 (1524) | 119 (3022) | 119 (3022) | 118 (2997) | 118 (2997) | 117 (2971) |

Min. Aisle Width - 18.2 in. (462 mm) Battery Compartment, with Sideshift
4 in. (102 mm) Clearance Each Side of Load

- Includes Integral Sideshift
- Add a minimum of 6 in. (152 mm) to 12 in. (305 mm) for easy maneuvering.
- Add 3 in. (76 mm) for 21.2 in. (538 mm) Battery Compartment.

| | LOAD WIDTH | | | | | |
|---------------------------------------|------------------|--------------|--------------|--------------|--------------|--------------|
| | in (mm) | 40 (1016) | 44 (1118) | 48 (1219) | 54 (1372) | 60 (1524) |
| RF1-HP2X32 (UNDER RACK METHOD) | | | | | | |
| Load Length | 40 (1016) | 102.4 (2601) | 102.0 (2591) | 101.5 (2578) | 100.9 (2563) | 100.2 (2545) |
| | 42 (1067) | 102.0 (2591) | 102.0 (2591) | 101.0 (2565) | 101.0 (2565) | 101.0 (2565) |
| | 44 (1118) | 107.0 (2718) | 106.6 (2708) | 106.2 (2697) | 105.6 (2682) | 105.0 (2667) |
| | 48 (1219) | 111.5 (2832) | 111.1 (2822) | 110.7 (2812) | 110.2 (2799) | 109.6 (2784) |

Min. Aisle Width - 18.2 in. (462 mm) Battery Compartment, with Sideshift
4 in. (102 mm) Clearance Each Side of Load

- Includes Integral Sideshift
- Add a minimum of 6 in. (152 mm) to 12 in. (305 mm) for easy maneuvering.
- Add 3 in. (76 mm) for 21.2 in. (538 mm) Battery Compartment.

AISLE WIDTH REQUIREMENTS FOR RIGHT-ANGLE STACKING

| | LOAD WIDTH | | | | | |
|-------------------------------------|------------------|--------------|--------------|--------------|--------------|--------------|
| | in (mm) | 40 (1016) | 44 (1118) | 48 (1219) | 54 (1372) | 60 (1524) |
| RF1-HP2X32 (STRADDLE METHOD) | | | | | | |
| Load Length | 40 (1016) | 98.4 (2499) | 97.7 (2481) | 97.1 (2466) | 96.1 (2441) | 95.1 (2415) |
| | 42 (1067) | 101.0 (2565) | 100.4 (2550) | 99.7 (2532) | 98.8 (2509) | 98.0 (2489) |
| | 44 (1118) | 103.6 (2631) | 103.0 (2616) | 102.4 (2601) | 101.5 (2578) | 100.6 (2555) |
| | 48 (1219) | 108.5 (2753) | 107.9 (2740) | 107.4 (2728) | 106.6 (2707) | 105.8 (2687) |

Min. Aisle Width - 18.2 in. (462 mm) Battery Compartment, with Sideshift
6 in. (152 mm) Clearance Each Side of Load

- Includes Integral Sideshift
- Add a minimum of 6 in. (152 mm) to 12 in. (305 mm) for easy maneuvering.
- Add 3 in. (76 mm) for 21.2 in. (538 mm) Battery Compartment.

| | LOAD WIDTH | | | | | |
|-------------------|------------------|------------|------------|------------|------------|------------|
| | in (mm) | 40 (1016) | 44 (1118) | 48 (1219) | 54 (1372) | 60 (1524) |
| RF1-SD1Z45 | | | | | | |
| Load Length | 30 (762) | 90 (2286) | 90 (2286) | 90 (2286) | 90 (2286) | 90 (2286) |
| | 36 (914) | 90 (2286) | 90 (2286) | 90 (2286) | 90 (2286) | 90 (2286) |
| | 40 (1016) | 94 (2388) | 93 (2362) | 93 (2362) | 93 (2362) | 92 (2337) |
| | 44 (1118) | 99 (2514) | 99 (2514) | 98 (2489) | 98 (2489) | 97 (2463) |
| | 48 (1219) | 104 (2642) | 103 (2616) | 103 (2616) | 102 (2590) | 102 (2590) |
| | 54 (1372) | 110 (2794) | 110 (2794) | 110 (2794) | 109 (2768) | 109 (2768) |
| | 60 (1524) | 117 (2971) | 117 (2971) | 116 (2946) | 116 (2946) | 115 (2921) |

Min. Aisle Width - 18.3 in. (465 mm) Battery Compartment, with Sideshift
4 in. (102 mm) Clearance Each Side of Load

- Subtract 1 in. (25 mm) for trucks without Sideshift.
- Add a minimum of 6 in. (152 mm) to 12 in. (305 mm) for easy maneuvering.
- Add 3 in. (76 mm) for 21.3 in. (541 mm) Battery Compartment.
- For loads less than 40 in. (1016 mm) wide or baseleg opening greater than 41 in. (1041 mm), add 2 in. (51 mm) to aisle width requirements.

| | LOAD WIDTH | | | | | |
|---------------------------------------|------------------|--------------|--------------|--------------|--------------|--------------|
| | in (mm) | 40 (1016) | 44 (1118) | 48 (1219) | 54 (1372) | 60 (1524) |
| RF1-SD2Z32 (UNDER RACK METHOD) | | | | | | |
| Load Length | 40 (1016) | 101.6 (2581) | 101.2 (2570) | 100.8 (2560) | 100.2 (2545) | 99.6 (2530) |
| | 42 (1067) | 103.0 (2616) | 103.0 (2616) | 102.0 (2590) | 102.0 (2590) | 102.0 (2590) |
| | 44 (1118) | 106.1 (2695) | 105.7 (2685) | 105.3 (2675) | 104.7 (2659) | 104.2 (2647) |
| | 48 (1219) | 110.4 (2804) | 110.1 (2797) | 109.7 (2786) | 109.2 (2774) | 108.7 (2761) |

Min. Aisle Width - 18.3 in. (465 mm) Battery Compartment, with Sideshift
4 in. (102 mm) Clearance Each Side of Load

- Subtract 1 in. (25 mm) for trucks without Sideshift.
- Add a minimum of 6 in. (152 mm) to 12 in. (305 mm) for easy maneuvering.
- Add 3 in. (76 mm) for 21.3 in. (541 mm) Battery Compartment.
- For loads less than 40 in. (1016 mm) wide or baseleg opening greater than 41 in. (1041 mm), add 2 in. (51 mm) to aisle width requirements.

| | LOAD WIDTH | | | | | |
|-------------------------------------|------------------|------------|------------|------------|------------|------------|
| | in (mm) | 40 (1016) | 44 (1118) | 48 (1219) | 54 (1372) | 60 (1524) |
| RF1-SD2Z32 (STRADDLE METHOD) | | | | | | |
| Load Length | 40 (1016) | 96 (2438) | 97 (2463) | 98 (2489) | 101 (2565) | 103 (2616) |
| | 42 (1067) | 99 (2514) | 100 (2540) | 100 (2540) | 101 (2565) | 103 (2616) |
| | 44 (1118) | 100 (2540) | 100 (2540) | 101 (2565) | 102 (2590) | 103 (2616) |
| | 48 (1219) | 104 (2641) | 104 (2641) | 104 (2641) | 104 (2641) | 104 (2641) |

Min. Aisle Width - 18.3 in. (465 mm) Battery Compartment, with Sideshift
6 in. (152 mm) Clearance Each Side of Load

- Subtract 1 in. (25 mm) for trucks without Sideshift.
- Add a minimum of 6 in. (152 mm) to 12 in. (305 mm) for easy maneuvering.
- Add 3 in. (76 mm) for 21.3 in. (541 mm) Battery Compartment.
- For loads less than 40 in. (1016 mm) wide or baseleg opening greater than 41 in. (1041 mm), add 2 in. (51 mm) to aisle width requirements.

| | LOAD WIDTH | | | | | |
|-------------------|------------------|------------|------------|------------|------------|------------|
| | in (mm) | 40 (1016) | 44 (1118) | 48 (1219) | 54 (1372) | 60 (1524) |
| RF1-HP1Z45 | | | | | | |
| Load Length | 30 (762) | 94 (2388) | 94 (2388) | 94 (2388) | 94 (2388) | 94 (2388) |
| | 36 (914) | 94 (2388) | 94 (2388) | 94 (2388) | 94 (2388) | 94 (2388) |
| | 40 (1016) | 98 (2488) | 98 (2488) | 97 (2464) | 97 (2464) | 96 (2438) |
| | 44 (1118) | 103 (2616) | 103 (2616) | 102 (2591) | 102 (2591) | 101 (2565) |
| | 48 (1219) | 108 (2743) | 107 (2718) | 107 (2718) | 106 (2692) | 106 (2692) |
| | 54 (1372) | 114 (2896) | 114 (2896) | 114 (2896) | 113 (2870) | 112 (2845) |
| | 60 (1524) | 121 (3073) | 121 (3073) | 120 (3048) | 120 (3048) | 120 (3048) |

Min. Aisle Width - 18.3 in. (465 mm) Battery Compartment, with Sideshift
4 in. (102 mm) Clearance Each Side of Load

- Subtract 1 in. (25 mm) for trucks without Sideshift.
- Add a minimum of 6 in. (152 mm) to 12 in. (305 mm) for easy maneuvering.
- Add 3 in. (76 mm) for 21.3 in. (541 mm) Battery Compartment.
- For loads less than 40 in. (1016 mm) wide or baseleg opening greater than 41 in. (1041 mm), add 2 in. (51 mm) to aisle width requirements.

| | LOAD WIDTH | | | | | |
|---------------------------------------|------------------|--------------|--------------|--------------|--------------|--------------|
| | in (mm) | 40 (1016) | 44 (1118) | 48 (1219) | 54 (1372) | 60 (1524) |
| RF1-HP2Z32 (UNDER RACK METHOD) | | | | | | |
| Load Length | 40 (1016) | 104.5 (2654) | 104.1 (2644) | 103.7 (2634) | 103.1 (2619) | 102.5 (2604) |
| | 42 (1067) | 105.0 (2667) | 105.0 (2667) | 104.0 (2641) | 104.0 (2641) | 104.0 (2641) |
| | 44 (1118) | 108.9 (2766) | 108.6 (2758) | 108.2 (2748) | 107.7 (2736) | 107.1 (2720) |
| | 48 (1219) | 113.3 (2878) | 112.9 (2868) | 112.6 (2860) | 112.1 (2847) | 111.6 (2835) |

Min. Aisle Width - 18.3 in. (465 mm) Battery Compartment, with Sideshift
4 in. (102 mm) Clearance Each Side of Load

- Subtract 1 in. (25 mm) for trucks without Sideshift.
- Add a minimum of 6 in. (152 mm) to 12 in. (305 mm) for easy maneuvering.
- Add 3 in. (76 mm) for 21.3 in. (541 mm) Battery Compartment.
- For loads less than 40 in. (1016 mm) wide or baseleg opening greater than 41 in. (1041 mm), add 2 in. (51 mm) to aisle width requirements.

| | LOAD WIDTH | | | | | |
|-------------------------------------|------------------|------------|------------|------------|------------|------------|
| | in (mm) | 40 (1016) | 44 (1118) | 48 (1219) | 54 (1372) | 60 (1524) |
| RF1-HP2Z32 (STRADDLE METHOD) | | | | | | |
| Load Length | 40 (1016) | 98 (2489) | 99 (2514) | 100 (2540) | 103 (2616) | 105 (2667) |
| | 42 (1067) | 101 (2565) | 102 (2590) | 102 (2590) | 103 (2616) | 105 (2667) |
| | 44 (1118) | 102 (2590) | 102 (2590) | 103 (2616) | 104 (2641) | 105 (2667) |
| | 48 (1219) | 106 (2692) | 106 (2692) | 106 (2692) | 106 (2692) | 106 (2692) |

Min. Aisle Width - 18.3 in. (465 mm) Battery Compartment, with Sideshift
6 in. (152 mm) Clearance Each Side of Load

- Subtract 1 in. (25 mm) for trucks without Sideshift.
- Add a minimum of 6 in. (152 mm) to 12 in. (305 mm) for easy maneuvering.
- Add 3 in. (76 mm) for 21.3 in. (541 mm) Battery Compartment.
- For loads less than 40 in. (1016 mm) wide or baseleg opening greater than 41 in. (1041 mm), add 2 in. (51 mm) to aisle width requirements.

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