

HIGH-CAPACITY REACH TRUCK



3200 - 4500 LBS.

SPECIFICATIONS



RF1-HCX | RF1-HCZ

CLASS
2

ELECTRIC MOTOR NARROW AISLE

ToyotaForklift.com



HIGH-CAPACITY REACH TRUCK

CAPACITY
3200 - 4500 LBS.

LOAD CENTER
24 IN.

MAXIMUM FORK HEIGHT
542 IN.

INDUSTRIES



Distribution



Food Storage



Freezer



General
Warehousing

STANDARD EQUIPMENT

PERFORMANCE

- 36 Volt Electrical System
- AC Powered Drive System with Torque Control
- AC Hydraulic System
- Multifunction Control Handle
- High speed lift and lowering with regenerative 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
- Fore-Aft Stance Operator Compartment
- Sidestance model with flip-down seat⁴
- Open-View 3-Stage Mast (FSW)
- Hydraulically Cushioned Mast Staging
- Hydraulic Cushioned Reach and 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 with Door-Mounted High-Capacity Cooling Fan
- 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
- 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
- Flip-down Seat⁴
- Adjustable height steer tiller⁴

SERVICEABILITY

- Battery Compartment Rollers
- Battery Retaining Gates (Adjustable)
- SB350 Gray Connector
- 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:
 - 21.2 in. x 38.62 in. x 31 in.
 - 23.8 in. x 38.62 in. x 31 in.

¹ Specify base leg opening size (Inside Dimension).

² When ordering the truck without a Sideshifter, 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 Available on RF1-HCZ models only.

OPTION AVAILABILITY CHART

LOAD HANDLING

- | | | |
|---|--|--|
| <ul style="list-style-type: none"> • Various Fork Length Options • Forks, Side Tapered 4" x 1.75" • Forks, Side and Top Tapered 4" x 1.75" with Floor Lowered Height • Forks, 5 x 1.5 (4500 lb. Rated Forks) • Forks, 4 x 1.5 (4500 lb. Rated Forks) • Forks, Top Tapered with Floor Lowered Height | <ul style="list-style-type: none"> • Forks, Top Tapered and Polished with Floor Lowered Height • Less Forks • Forks Lower to Floor Height • Various Tilting Load Backrest Extension Options • Narrow Drive-In Rack Mast | <ul style="list-style-type: none"> • Custom Mast Height (1 in. increments), Non-standard Overlap, Requires Next Higher Mast • Custom Mast Height (1 in. increments), Standard Overlap, Requires Next Higher Mast • Remove Sideshift • Integral Sideshifter, 4 in. Each Way |
|---|--|--|

BODY

- | | | |
|---|---|--|
| <ul style="list-style-type: none"> • Full Height Mast Guard, Glass • Wire Mesh Mast Guard, Partial Height • Wire Mesh Mast Guard, Full Height • Overhead Guard Clear Shield | <ul style="list-style-type: none"> • Overhead Guard Mesh Shield • Hinged Rear Operator Guard, Partial Length • Hinged Rear Operator Guard, Full Length • Custom Overhead Guard Height | <ul style="list-style-type: none"> • Inertial Dampener • Fire Extinguisher, 2.5 lb. Dry Chemical |
|---|---|--|

LIGHTS, INDICATORS & MISC.

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|---|--|--|
| <ul style="list-style-type: none"> • LED Overhead Guard Mounted Work Lights (Pair) • Operator Compartment LED Dome Light • LED Travel Activated Work Lights (1 Forward, 1 Reverse) | <ul style="list-style-type: none"> • LED Forward Travel Activated Work Light • LED Reverse Travel Activated Work Light • LED Strobe Light Options • Special Mounting for Strobe Light (Bottom Mounted) | <ul style="list-style-type: none"> • Blue Spot Light, Key-on, Tractor First Only • Blue Spot Light, Key-on, Both Directions • Various Travel Alarm Options • Electronic Horn |
|---|--|--|

WHEELS AND TIRES

- | | |
|---|---|
| <ul style="list-style-type: none"> • Various Drive Tire Options • Various Caster and Load Wheel Options | <ul style="list-style-type: none"> • Various Tapered Toe Box and Baseleg Options |
|---|---|

PRODUCTIVITY

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|---|---|--|
| <ul style="list-style-type: none"> • Various RF Bracket Options • Power Hook-Up for On-Board Terminal (2 amp) • Power Hook-Up for On-Board Terminal (10 amp) • Acculaser (Red) • Acculaser (Green) | <ul style="list-style-type: none"> • Camera System Cable • Carriage-Mounted Camera System • Height Indicator • Height and Tilt Indicator • Weight Height Limit Display • Auto Height Select (Includes Reach Interlock Switch) | <ul style="list-style-type: none"> • 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

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|---|---|---|
| <ul style="list-style-type: none">• Rear OHG Posts• Rear OHG Posts for Drive-In Rack• Heavy Duty Drive Unit• Steer Tiller Friction Block• Steering Wheel Bar• Secondary Control Handle• Tiller 1” Shorter | <ul style="list-style-type: none">• Forward Steering• Reverse Steering• Operator Compartment Sensing System• Operator Compartment Sensing System for Cold Storage/Freezer• Keyless On/Off Switch• Electronic Key (Operator PIN Code Entry) | <ul style="list-style-type: none">• Operator Compartment Fan• Heated Handle and Floor• Heated Seat• On-board Easy Attach Power (For Cold Storage Clothing) |
|---|---|---|

BATTERY ACCESSORIES

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|---|--|
| <ul style="list-style-type: none">• Various Battery Connector Options• Battery Access and Connector, Drive Tire Side | <ul style="list-style-type: none">• Battery Side Gate Interlock• Various Battery Spacer Options |
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SPECIAL MODELS

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|--|---|--|
| <ul style="list-style-type: none">• UL Type “E” Rating• UL Type “EE” Rating | <ul style="list-style-type: none">• Sidestance Operator Compartment• Special Paint Color with Black Mast | <ul style="list-style-type: none">• Cold Storage Conditioning, Freezer |
|--|---|--|

TRUCK SPECIFICATIONS

TRUCK SPECIFICATIONS				MODEL NUMBERS			
GENERAL DATA				RF1-HC2X32		RF1-HC1X45	
Load Center		in (mm)		24 (600)		24 (600)	
Load Capacity¹		lb (kg)		3200 (1451)		4500 (2041)	
Battery Compartment Size				21.2	23.8	21.2	23.8
Power Type				Battery		Battery	
Operator Position				Stand-Up Rider		Stand-Up Rider	
EXTERIOR DIMENSIONS				RF1-HC2X32 BATTERY COMPARTMENT SIZE 21.2" 23.8"		RF1-HC1X45 BATTERY COMPARTMENT SIZE 21.2" 23.8"	
A	Fork Lowered Height	in (mm)		3 (76)		3 (76)	
B	Maximum Fork Height (MFH)¹	in (mm)		444 (11278)	542 (13767)	444 (11278)	542 (13767)
C	Free Lift	in (mm)		139 (3531)	185 (4699)	141 (3581)	187 (4750)
D	Tilt Range	Fwd/Bwd	degrees	3/4.5		3/4.5	
E	Mast Lowered Height	in (mm)		184 (4674)	230 (5842)	184 (4674)	230 (5842)
F	Mast Extended Height	in (mm)		482 (12243)	580 (14732)	480 (12192)	578 (14681)
G	Overhead Guard Height¹	in (mm)		Contact Dealer		Contact Dealer	
H	Reach Stroke	in (mm)		42 (1067)		22.75 (578)	
I	Wheelbase³	in (mm)		66.1 (1679)	68.6 (1742)	64.9 (1648)	67.4 (1712)
J	Battery Roller Height	in (mm)		7 (178)		7 (178)	
K	Bumper to Centerline of Drive Wheel	in (mm)		11.35 (288)		11.35 (288)	
L	Underclearance (center of wheelbase)	No Load	in (mm)	2 (51)		2 (51)	
M	Head Length (Length to Fork Face)³	in (mm)		69.8 (1773)	72.3 (1836)	65.2 (1656)	67.7 (1720)
N	Truck Length (Length to End of Base Legs)³	in (mm)		89.8 (2281)	92.3 (2344)	85.5 (2172)	88.0 (2235)
O	Truck Mast Overall Width²	in (mm)		32 (813)		32 (813)	
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)	
Q	Fork Spread (outer edge to edge)	Max./Max.	in (mm)	15 (381) / 30 (762)		15 (381) / 30 (762)	
R	Base Leg Width	in (mm)		47.5 to 62.5 (1207 to 1588)		47.5 to 62.5 (1207 to 1588)	
S	Base Leg Inside Dimension (ID)	in (mm)		37 to 52 (940 to 1321)		42 to 52 (1067 to 1321)	
T	Base Leg Outside Dimension (OD)	in (mm)		47.5 to 62.5 (1207 to 1588)		54 to 64 (1372 to 1626)	
U	Power Unit Width	in (mm)		49.5 (1257)		49.5 (1257)	
V	Power Unit Height⁴	in (mm)		51.5 (1308)		51.5 (1308)	
W	Outside Turning Radius	in (mm)		82.6 (2022)	85.1 (2162)	82.6 (2022)	85.1 (2162)
	Basic Right Angle Stacking Aisle Width¹			Contact Dealer		Contact Dealer	
	Carriage Height	in (mm)		36 (914)		36 (914)	
	Step Height	in (mm)		9.25 (235)		9.25 (235)	
PERFORMANCE DATA				RF1-HC2X32 BATTERY COMPARTMENT SIZE 21.2" 23.8"		RF1-HC1X45 BATTERY COMPARTMENT SIZE 21.2" 23.8"	
Travel Speed⁵	Maximum		mph (km/h)	7.5 (12.0)		7.5 (12.1)	
Suspension		Caster		Spring Loaded		Spring Loaded	
Gradability		%		5		5	
Grade Clearance		%		10		13	
TRUCK WEIGHTS				RF1-HC2X32 BATTERY COMPARTMENT SIZE 21.2" 23.8"		RF1-HC1X45 BATTERY COMPARTMENT SIZE 21.2" 23.8"	
Total Weight	Without Battery	lb (kg)		9596 (4353)	10637 (4825)	9275 (4207)	10316 (4679)
TIRES				RF1-HC2X32 BATTERY COMPARTMENT SIZE 21.2" 23.8"		RF1-HC1X45 BATTERY COMPARTMENT SIZE 21.2" 23.8"	
Tires	Tire Type	Drive / Caster / Load		Polyurethane		Polyurethane	
	Number (x = driven)	Drive / Caster / Load		1x / 1 / 4		1x / 1 / 4	
	Size (dia. X width)	Drive / Caster / Load	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)	
Brake Pedal		Load	in (mm)	5 x 3.62 (127 x 92)		6 x 4 (152 x 102)	
				Electric Disc		Electric Disc	
POWER SYSTEM				RF1-HC2X32 BATTERY COMPARTMENT SIZE 21.2" 23.8"		RF1-HC1X45 BATTERY COMPARTMENT SIZE 21.2" 23.8"	
Battery Type				Lead Acid		Lead Acid	
Battery¹ (6-hour ratings)	Compartment Size (Maximum)	Length	in (mm)	21.22 (539)	23.77 (604)	21.22 (539)	23.77 (604)
		Width	in (mm)	38.62 (981)		38.62 (981)	
		Height	in (mm)	31 (787)		31 (787)	
	Voltage / Capacity	Maximum	V / AH	36 / 1240	36 / 1395	36 / 1240	36 / 1395
	Weight	Min.	lb (kg)	2300 (1043)	2600 (1179)	2600 (1179)	3100 (1406)
		Max.	lb (kg)	2600 (1179)	2900 (1315)	2900 (1315)	3600 (1633)
Electric Motors		Drive	hp (kw)	7.1 (5.3)		7.1 (5.3)	
		Load Handling	hp (kw)	29.5 (22)		29.5 (22)	
Control Type	Drive			AC		AC	
	Load Handling			AC		AC	
	Power Steering			Transistor		Transistor	

1 Please contact your local Toyota dealer for more information.

2 Add 3.0 in. (76 mm) at OHG side plates. Be aware of clearance between mast OAW and Drive-in rails.

3 Subtract 1 in.without sideshift.

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

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-HC2Z32		RF1-HC1Z45	
Load Center			in (mm)	24 (600)		24 (600)	
Load Capacity¹			lb (kg)	3200 (1451)		4500 (2041)	
Battery Compartment Size				21.2	23.8	21.2	23.8
Power Type				Battery		Battery	
Operator Position				Stand-Up Rider		Stand-Up Rider	
EXTERIOR DIMENSIONS				RF1-HC2Z32 BATTERY COMPARTMENT SIZE 21.2" 23.8"		RF1-HC1Z45 BATTERY COMPARTMENT SIZE 21.2" 23.8"	
A Fork Lowered Height			in (mm)	3 (76)		3 (76)	
B Maximum Fork Height (MFH)¹			in (mm)	444 (11278)	542 (13767)	444 (11278)	542 (13767)
C Free Lift			in (mm)	139 (3531)	185 (4699)	141 (3581)	187 (4750)
D Tilt Range		Fwd/Bwd	degrees	3/4.5		3/4.5	
E Mast Lowered Height			in (mm)	184 (4674)	230 (5842)	184 (4674)	230 (5842)
F Mast Extended Height			in (mm)	482 (12243)	580 (14732)	480 (12192)	578 (14681)
G Overhead Guard Height¹			in (mm)	Contact Dealer		Contact Dealer	
H Reach Stroke			in (mm)	42 (1067)		22.75 (578)	
I Wheelbase³			in (mm)	68.1 (1729)	70.6 (1793)	66.9 (1699)	69.4 (1763)
J Battery Roller Height			in (mm)	7 (178)		7 (178)	
K Bumper to Centerline of Drive Wheel			in (mm)	11.35 (288)		11.35 (288)	
L Underclearance (center of wheelbase)			No Load in (mm)	2 (51)		2 (51)	
M Head Length (Length to Fork Face)³			in (mm)	71.8 (1823)	74.3 (1887)	67.2 (1707)	69.7 (1770)
N Truck Length (Length to End of Base Legs)³			in (mm)	91.8 (2332)	94.3 (2395)	89.5 (2273)	92.0 (2337)
O Truck Mast Overall Width²			in (mm)	32 (813)		32 (813)	
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)	
Q Fork Spread (outer edge to edge)		Max./Max.	in (mm)	15 (381) / 30 (762)		15 (381) / 30 (762)	
R Base Leg Width			in (mm)	47.5 to 62.5 (1207 to 1588)		47.5 to 62.5 (1207 to 1588)	
S Base Leg Inside Dimension (ID)			in (mm)	42 to 52 (1067 to 1321)		42 to 52 (1067 to 1321)	
T Base Leg Outside Dimension (OD)			in (mm)	52.5 to 62.5 (1334 to 1588)		54 to 64 (1372 to 1626)	
U Power Unit Width			in (mm)	49.5 (1257)		49.5 (1257)	
V Power Unit Height⁴			in (mm)	60 (1524)		60 (1524)	
W Outside Turning Radius			in (mm)	87.5 (2146)	90.0 (2286)	86.5 (2197)	89.0 (2261)
Basic Right Angle Stacking Aisle Width¹				Contact Dealer		Contact Dealer	
Carriage Height			in (mm)	38 (965)		36 (914)	
Step Height			in (mm)	9.25 (235)		9.25 (235)	
PERFORMANCE DATA				RF1-HC2Z32 BATTERY COMPARTMENT SIZE 21.2" 23.8"		RF1-HC1Z45 BATTERY COMPARTMENT SIZE 21.2" 23.8"	
Travel Speed⁵		Maximum	mph (km/h)	8.0 (12.1)		8.0 (12.1)	
Suspension		Caster		Spring Loaded		Spring Loaded	
Gradability			%	5		5	
Grade Clearance			%	10		10	
TRUCK WEIGHTS				RF1-HC2Z32 BATTERY COMPARTMENT SIZE 21.2" 23.8"		RF1-HC1Z45 BATTERY COMPARTMENT SIZE 21.2" 23.8"	
Total Weight		Without Battery	lb (kg)	9596 (4353)	10637 (4825)	9275 (4207)	10316 (4679)
TIRES				RF1-HC2Z32 BATTERY COMPARTMENT SIZE 21.2" 23.8"		RF1-HC1Z45 BATTERY COMPARTMENT SIZE 21.2" 23.8"	
Tires	Tire Type	Drive / Caster / Load		Polyurethane		Polyurethane	
	Number (x = driven)	Drive / Caster / Load		1x / 1 / 4		1x / 1 / 4	
	Size (dia. X width)	Drive / Caster / Load	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)		6 x 4 (152 x 102)		
Brake Pedal				Electric Disc		Electric Disc	
POWER SYSTEM				RF1-HC2Z32 BATTERY COMPARTMENT SIZE 21.2" 23.8"		RF1-HC1Z45 BATTERY COMPARTMENT SIZE 21.2" 23.8"	
Battery Type				Lead Acid		Lead Acid	
Battery¹ (6-hour ratings)	Compartment Size (Maximum)	Length	in (mm)	21.27 (540)	23.77 (604)	21.27 (540)	23.77 (604)
		Width	in (mm)	38.62 (981)		38.62 (981)	
		Height	in (mm)	31 (787)		31 (787)	
	Voltage / Capacity	Maximum	V / AH	36 / 1240	36 / 1395	36 / 1240	36 / 1395
	Weight	Min.	lb (kg)	2600 (1179)	3100 (1406)	2600 (1179)	3100 (1406)
		Max.	lb (kg)	2900 (1315)	3600 (1633)	2900 (1315)	3600 (1633)
Electric Motors		Drive	hp (kw)	7.1 (5.3)		7.1 (5.3)	
		Load Handling	hp (kw)	29.5 (22)		29.5 (22)	
Control Type	Drive			AC		AC	
	Load Handling			AC		AC	
	Power Steering			Transistor		Transistor	

¹ Please contact your local Toyota dealer for more information.

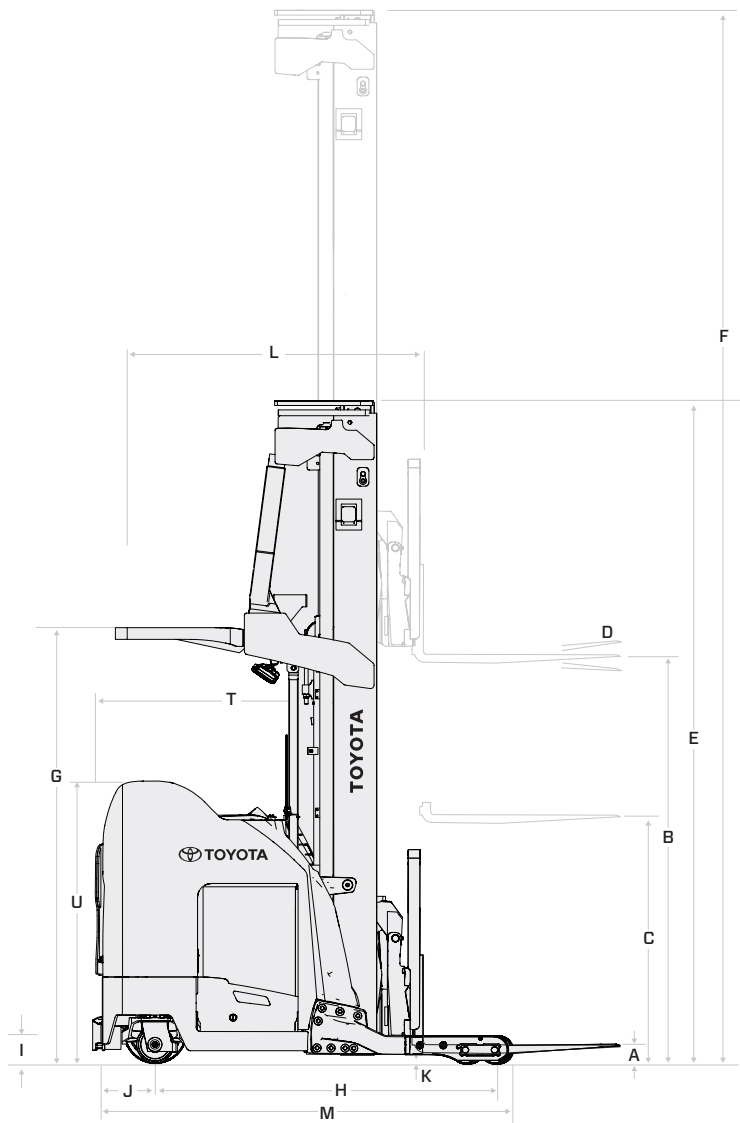
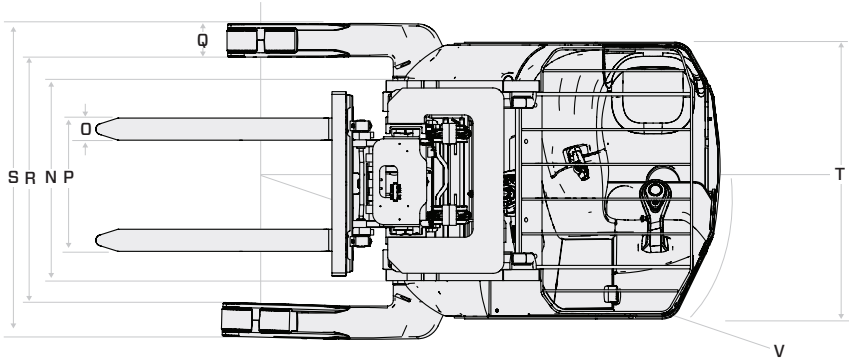
² Add 3.0 in. (76 mm) at OHG side plates. Be aware of clearance between mast OAW and Drive-in rails.

³ Subtract 1 in. without sideshift.

⁴ Add 8.5 in. (216 mm) for optional extended operator backrest.

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 HEIGHT¹ (TOP OF FORKS)	OVERALL HEIGHT		FREE LIFT	OVERHEAD GUARD HEIGHT	OVERHEAD COMPARTMENT HEIGHT	TILT RANGE²	
		LOWERED	EXTENDED				FWD	BWD
			WITH STANDARD 36" LOAD BACKREST	WITH STANDARD 36" LOAD BACKREST				
	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	deg	deg
RF1-HC1X45								
Clear View Full-Free Lift Three-Stage Mast (FSW)	366 (9296)	158 (4013)	402 (10211)	109 (2768)	93.4 (2372)	82.15 (2087)	3	4.5
	378 (9601)	162 (4115)	414 (10516)	113 (2870)	93.4 (2372)	82.15 (2087)	3	4.5
	390 (9906)	166 (4216)	426 (10820)	117 (2972)	93.4 (2372)	82.15 (2087)	3	4.5
	399 (10135)	169 (4293)	435 (11049)	126 (3200)	93.4 (2372)	82.15 (2087)	3	4.5
	423 (10744)	177 (4496)	459 (11659)	134 (3404)	93.4 (2372)	82.15 (2087)	3	4.5
	444 (11278)	184 (4674)	480 (12192)	141 (3581)	93.4 (2372)	82.15 (2087)	3	4.5
	460 (11684)	196 (4978)	496 (12598)	153 (3886)	93.4 (2372)	82.15 (2087)	3	4.5
	475 (12065)	202 (5131)	511 (12979)	159 (4039)	93.4 (2372)	82.15 (2087)	3	4.5
	490 (12446)	209 (5309)	526 (13360)	166 (4216)	93.4 (2372)	82.15 (2087)	3	4.5
	505 (12827)	214 (5436)	541 (13741)	171 (4343)	93.4 (2372)	82.15 (2087)	3	4.5
	521 (13233)	223 (5664)	557 (14148)	180 (4572)	93.4 (2372)	82.15 (2087)	3	4.5
	533 (13538)	227 (5766)	569 (14453)	184 (4674)	93.4 (2372)	82.15 (2087)	3	4.5
	542 (13767)	230 (5842)	578 (14681)	187 (4750)	93.4 (2372)	82.15 (2087)	3	4.5

MAST TYPE	MAXIMUM FORK HEIGHT¹ (TOP OF FORKS)	OVERALL HEIGHT		FREE LIFT	OVERHEAD GUARD HEIGHT	OVERHEAD COMPARTMENT HEIGHT	TILT RANGE²	
		LOWERED	EXTENDED				FWD	BWD
			WITH STANDARD 36" LOAD BACKREST	WITH STANDARD 36" LOAD BACKREST				
	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	deg	deg
RF1-HC2X32								
Clear View Full-Free Lift Three-Stage Mast (FSW)	366 (9296)	158 (4013)	404 (10262)	113 (2870)	93.4 (2372)	82.15 (2087)	3	4.5
	378 (9601)	162 (4115)	416 (10566)	117 (2972)	93.4 (2372)	82.15 (2087)	3	4.5
	390 (9906)	166 (4216)	428 (10871)	121 (3073)	93.4 (2372)	82.15 (2087)	3	4.5
	399 (10135)	169 (4293)	437 (11100)	124 (3150)	93.4 (2372)	82.15 (2087)	3	4.5
	423 (10744)	177 (4496)	461 (11709)	132 (3353)	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
	460 (11684)	196 (4978)	498 (12649)	151 (3835)	93.4 (2372)	82.15 (2087)	3	4.5
	475 (12065)	202 (5131)	513 (13030)	157 (3988)	93.4 (2372)	82.15 (2087)	3	4.5
	490 (12446)	209 (5309)	528 (13411)	164 (4166)	93.4 (2372)	82.15 (2087)	3	4.5
	505 (12827)	214 (5436)	543 (13792)	169 (4293)	93.4 (2372)	82.15 (2087)	3	4.5
	521 (13233)	223 (5664)	559 (14199)	178 (4521)	93.4 (2372)	82.15 (2087)	3	4.5
	533 (13538)	227 (5766)	571 (14503)	182 (4623)	93.4 (2372)	82.15 (2087)	3	4.5
	542 (13767)	230 (5842)	580 (14732)	185 (4699)	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 HEIGHT¹ (TOP OF FORKS)	OVERALL HEIGHT		FREE LIFT	OVERHEAD GUARD HEIGHT	OVERHEAD COMPARTMENT HEIGHT	TILT RANGE²	
		LOWERED	EXTENDED	WITH STANDARD 36" LOAD BACKREST			FWD	BWD
			WITH STANDARD 36" LOAD BACKREST					
	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	deg	deg
RF1-HC1Z45								
Clear View Full-Free Lift Three-Stage Mast (FSW)	366 (9296)	158 (4013)	402 (10211)	109 (2768)	93.4 (2372)	82.15 (2087)	3	4.5
	378 (9601)	162 (4115)	414 (10516)	113 (2870)	93.4 (2372)	82.15 (2087)	3	4.5
	390 (9906)	166 (4216)	426 (10820)	117 (2972)	93.4 (2372)	82.15 (2087)	3	4.5
	399 (10135)	169 (4293)	435 (11049)	126 (3200)	93.4 (2372)	82.15 (2087)	3	4.5
	423 (10744)	177 (4496)	459 (11659)	134 (3404)	93.4 (2372)	82.15 (2087)	3	4.5
	444 (11278)	184 (4674)	480 (12192)	141 (3581)	93.4 (2372)	82.15 (2087)	3	4.5
	460 (11684)	196 (4978)	496 (12598)	153 (3886)	93.4 (2372)	82.15 (2087)	3	4.5
	475 (12065)	202 (5131)	511 (12979)	159 (4039)	93.4 (2372)	82.15 (2087)	3	4.5
	490 (12446)	209 (5309)	526 (13360)	166 (4216)	93.4 (2372)	82.15 (2087)	3	4.5
	505 (12827)	214 (5436)	541 (13741)	171 (4343)	93.4 (2372)	82.15 (2087)	3	4.5
	521 (13233)	223 (5664)	557 (14148)	180 (4572)	93.4 (2372)	82.15 (2087)	3	4.5
	533 (13538)	227 (5766)	569 (14453)	184 (4674)	93.4 (2372)	82.15 (2087)	3	4.5
	542 (13767)	230 (5842)	578 (14681)	187 (4750)	93.4 (2372)	82.15 (2087)	3	4.5

MAST TYPE	MAXIMUM FORK HEIGHT¹ (TOP OF FORKS)	OVERALL HEIGHT		FREE LIFT	OVERHEAD GUARD HEIGHT	OVERHEAD COMPARTMENT HEIGHT	TILT RANGE²	
		LOWERED	EXTENDED	WITH STANDARD 36" LOAD BACKREST			FWD	BWD
			WITH STANDARD 36" LOAD BACKREST					
	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	deg	deg
RF1-HC2Z32								
Clear View Full-Free Lift Three-Stage Mast (FSW)	366 (9296)	158 (4013)	404 (10262)	113 (2870)	93.4 (2372)	82.15 (2087)	3	4.5
	378 (9601)	162 (4115)	416 (10566)	117 (2972)	93.4 (2372)	82.15 (2087)	3	4.5
	390 (9906)	166 (4216)	428 (10871)	121 (3073)	93.4 (2372)	82.15 (2087)	3	4.5
	399 (10135)	169 (4293)	437 (11100)	124 (3150)	93.4 (2372)	82.15 (2087)	3	4.5
	423 (10744)	177 (4496)	461 (11709)	132 (3353)	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
	460 (11684)	196 (4978)	498 (12649)	151 (3835)	93.4 (2372)	82.15 (2087)	3	4.5
	475 (12065)	202 (5131)	513 (13030)	157 (3988)	93.4 (2372)	82.15 (2087)	3	4.5
	490 (12446)	209 (5309)	528 (13411)	164 (4166)	93.4 (2372)	82.15 (2087)	3	4.5
	505 (12827)	214 (5436)	543 (13792)	169 (4293)	93.4 (2372)	82.15 (2087)	3	4.5
	521 (13233)	223 (5664)	559 (14199)	178 (4521)	93.4 (2372)	82.15 (2087)	3	4.5
	533 (13538)	227 (5766)	571 (14503)	182 (4623)	93.4 (2372)	82.15 (2087)	3	4.5
	542 (13767)	230 (5842)	580 (14732)	185 (4699)	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.



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