

# WALKIE REACH STACKER



3000 LBS.

SPECIFICATIONS



WS1-RE30

CLASS  
3

ELECTRIC PALLET JACKS | STACKERS | TOW TRACTORS

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

WALKIE REACH STACKER

CAPACITY  
**3000 LBS.**

WHEELBASE  
**55.1**

LOAD CENTER  
**24 IN.**

INDUSTRIES



General  
Manufacturing



General  
Warehousing



Cold Storage



Food Storage



Beverage



Retail

STANDARD FEATURES

PERFORMANCE

- 24 Volt Electrical System
- SB-175 Red Connector
- On/Off Key Switch
- UL Type-E Constructed
- AC Drive Motor
- Cushioned Mast Stops
- Electric Raise And Lower Controls In Operator Handle

BODY/EXTERIOR DESIGN

- Electric Horn
- 30 Inch Wide ITA Class II Hook Type Carriage
- 42 Inch Long Pallet Forks
- 48 Inch High Load Back Rest Extension
- Rubber Drive Tire
- Tandem Polyurethane Load Wheels 4" dia. x 2.875"
- Battery Compartment: 32.13" x 13.31" x Open Height (Steel-to-Steel)
- 32" to 50" Base Leg Openings in 1" increments
- Carriage Tilt 30 Forward/40 Backward
- Easy Access Service Cover
- Fixed Baselegs

OPERABILITY & ERGONOMICS

- Emergency Power Disconnect Switch
- Battery Discharge Indicator w/ Lift Interrupt and Hour Meter
- Regenerative Plugging
- Ergonomically Advanced Control Handle
- Polycarbonate Mast Guard
- Dual Thumb Wheel Control Forward and Reverse
- Direction and Travel Speed
- Power On Self Test

## OPTIONAL EQUIPMENT

### LOAD HANDLING

- Fork Length, 30"
- Fork Length, 36"
- Fork Length, 48"
- Sideshift Carriage
- 36" Reduced Height Load Backrest Extension
- 44" Reduced Height Load Backrest Extension
- Power Steering
- Greasable Steer Bearing

### LIGHTS, INDICATORS & SAFETY

- Screen Guard In Place Of Safety Glass Mast Guard
- Red Flashing Light
- Amber Flashing Light
- Blue Flashing Light
- Electronic Travel Alarm (Forward & Reverse)
- Electronic Travel Alarm (Forward Only)
- Electronic Travel Alarm (Reverse Only)
- Non-Rubber Static Strap

### BODY

- Battery Compartment Rollers with Dual Sidegates
- Pallet Centering Guide
- Magnetic Storage Tray
- Storage Tray, Battery Compartment Mounted
- Large Magnetic Storage Tray, Battery Compartment Mounted
- Battery Gate Interlock
- Single Tier Accessory Bar
- LED Work Light
- Operator Fan
- Power Hook-Up Onboard Terminal (10 Ah)
- Non-Powered Accessory Bar
- Electronic PIN Code Pad
- Keyless On/Off Switch in lieu of Key Switch

### BATTERY ACCESSORIES

- Non - Standard Battery Connector (Color Yellow)
- Non - Standard Battery Connector (Color Gray)
- Non - Standard Battery Connector (Color Blue)
- Toyota LiB ESS Tag
- CAN-COM and ESS Tag for Toyota LiB

### WHEELS & TIRES

- Drive Tire Crowned Poly
- Drive Tire Non-Marking Rubber White
- Drive Tire Poly
- Drive Tire Poly Razor Sipe
- Drive Tire "Smoothy" Poly
- Drive Tire Dyalon B Poly
- Drive Tire Poly Center Groove
- Drive Tire Diamond

### SPECIAL MODELS

- UL Type "E"
- UL Type "EE"
- Bilingual Decals
- Export Preparation Package
- Corrosion Conditioning
- Cold Storage Conditioning (Includes Corrosion Protection Conditioning)
- Aux. Hydraulic Function Valve & Hosing W/ Carriage Mounted Termination

## TRUCK SPECIFICATIONS

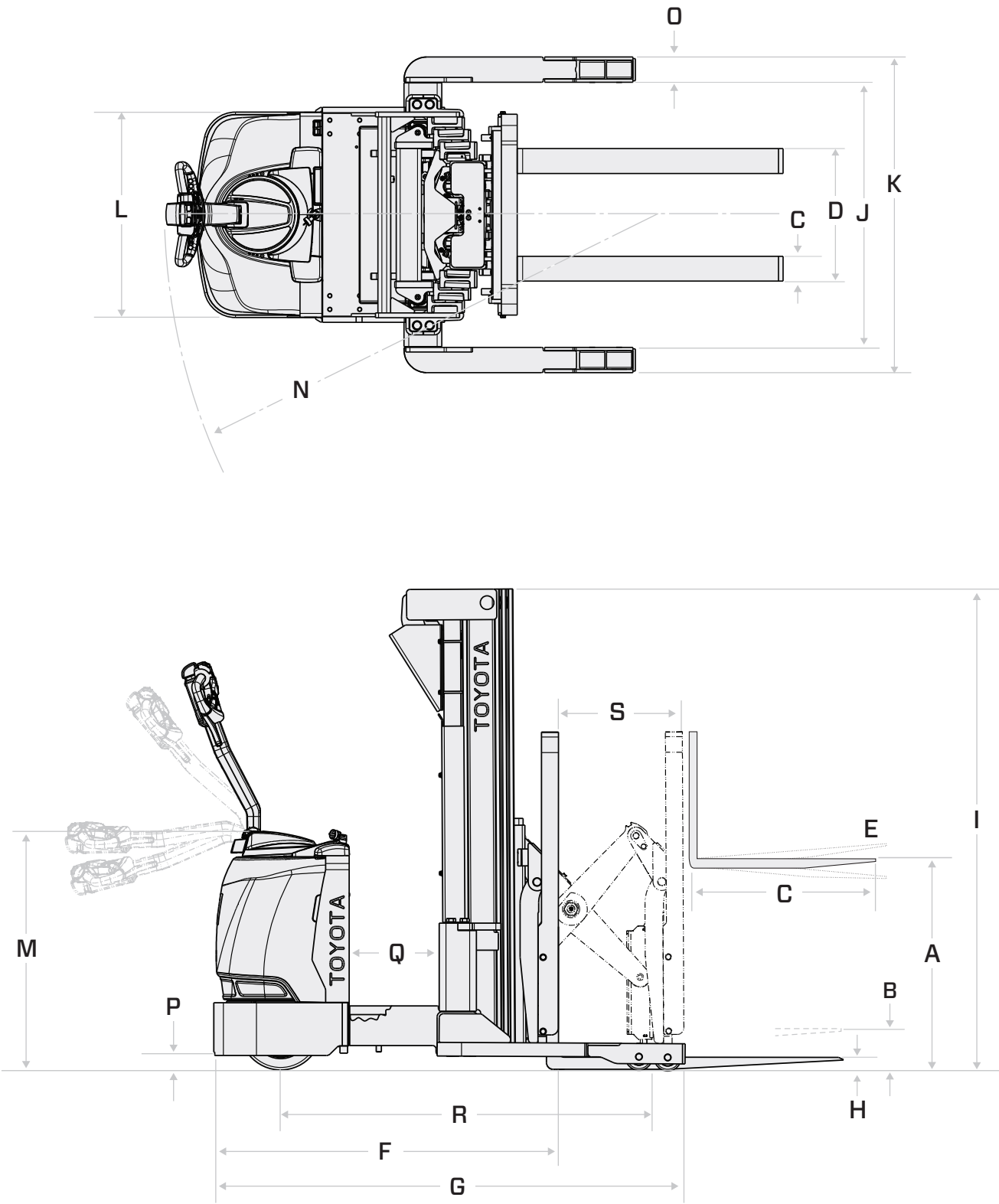
GENERAL DATA				WS1-RE30	
Load Capacity		lb (kg)		3000 (1361)	
Load Center		in (mm)		24 (600)	
Power Type				Battery	
Operator Position				Walkie	
Tire Type	Drive / Caster / Load			Rubber/Polyurethane	
Wheels (x = driven)	Drive / Caster / Load			1x / 2 / 4	
EXTERIOR DIMENSIONS				WS1-RE30	
<b>A</b>	Maximum Fork Height (MFH)		in (mm)	189 (4800)	
<b>B</b>	Free Lift		in (mm)	6 (153)	
<b>C</b>	Fork Size (T x W x L)		in (mm)	1.75 x 4 x 42 (45 x 100 x 1067)	
<b>D</b>	Fork Adjustment (Minimum/Maximum)		in (mm)	10 (254) / 31 (787)	
<b>E</b>	Tilt Range (Mast Tilt) (Forward/Backward)		degree	3/4	
<b>F</b>	Head Length (Length to Fork Face)		in (mm)	47.9 (1217)	
<b>G</b>	Truck Length (Length to end of base legs)		in (mm)	69.7 (1770)	
<b>H</b>	Fork Lowered Height		in (mm)	2 (51)	
<b>I</b>	Mast Lowered Height		in (mm)	83 (2108)	
<b>J</b>	Base Leg Inside Dimension (ID) - 1" increments		in (mm)	32 to 50 (813 to 1270)	
<b>K</b>	Base Leg Outside Dimension (OD) -1" increments		in (mm)	40 to 58 (1016 to1473)	
<b>L</b>	Power Unit Width		in (mm)	32.5 (826)	
<b>M</b>	Power Unit Height		in (mm)	34 (864)	
<b>N</b>	Turning Radius		in (mm)	65 (1651)	
<b>O</b>	Base Leg Width		in (mm)	4 (101)	
<b>P</b>	Underclearance (Center of Wheelbase)		in (mm)	2.1 (53)	
<b>Q</b>	Battery Compartment (L x W x open height)		in (mm)	32.13 x 13.31 (816 x 338)	
<b>R</b>	Wheelbase		in (mm)	55.1 (1400)	
<b>S</b>	Reach Stroke		in (mm)	24 (610)	
	Mast Extended Height		in (mm)	172 (4369)	
	Fork Carriage Width (ITA Hook-Type)		in (mm)	30 (762)	
	Sideshift, Optional (Each Way) <sup>3</sup>		in (mm)	2 or 3 (51 or 76)	
	Basic Right Angle Stacking Aisle Width <sup>1</sup>			See Chart	
PERFORMANCE DATA				WS1-RE30	
Speeds	Maximum Travel	Full Load	mph (km/h)	3.5 (5.6)	
		No Load	mph (km/h)	3.5 (5.6)	
	Lifting	Full Load	fpm (mm/sec)	29 (147)	
		No Load	fpm (mm/sec)	46 (234)	
	Lowering	Full Load	fpm (mm/sec)	60 (305)	
		No Load	fpm (mm/sec)	47 (239)	
	Reach/Retract Time	Full Load	sec	4.0	
		No Load	sec	4.0	
	Tilt (Up/Down) Time	Full Load	sec	4.0	
		No Load	sec	3.0	
Sideshift Time	Full Load	sec	2.5		
	No Load	sec	2.5		
Gradeability <sup>2</sup>	Loaded / Unloaded		%	6 / 10	
TRUCK WEIGHTS				WS1-RE30	
Total Weight Without Battery		lb (kg)		3252 (1475) - 3909 (1773)	
TIRES				WS1-RE30	
Tire Size <sup>2</sup> (dia. x width)		Drive	in (mm)	12 x 4.5 (305 x 114)	
		Load	in (mm)	4 x 2.875 (102 x 73)	
Grade Clearance		%		10	
Brake				Regenerative	
POWER SYSTEM				WS1-RE30	
Battery (6-hour rating)	Voltage / Capacity (maximum)		hp (kW)	24 (654)	
	Weight (minimum)		lb. (kg)	950 (431)	

1 Please refer to the Aisle Width Requirements for Right Angle Stacking charts.

3 32 in. and 33 in. baseleg BLO have 2 in. each way. All other baseleg BLO have 3 in. each way.

2 Trucks are designed for level floor operation. Represents ability to transverse short ramps when required.

EXTERIOR DIMENSIONS



MAST SPECIFICATIONS

MAST TYPE	MAXIMUM FORK HEIGHT (TOP OF FORKS)	OVERALL HEIGHT		FREE-LIFT³	TILT RANGE (CARRIAGE TILT)		TRUCK WEIGHT WITHOUT BATTERY⁴
		LOWERED¹	EXTENDED²	WITH STANDARD LOAD BACKREST			
			WITH STANDARD LOAD BACKREST				
			FWD				
	in (mm)	in (mm)	in (mm)	in (mm)	deg	deg	
WS1-HD22							
Wide Visible (V)	100 (2540)	71 (1804)	148 (3760)	6 (153)	3	4	3,252 (1475)
	124 (3149)	83 (2109)	172 (4369)	6 (153)	3	4	3,362 (1525)
	150 (3810)	95 (2413)	198 (5030)	6 (153)	3	4	3,472 (1575)
Full Free-Lift 3-Stage (FSV)	150 (3810)	71 (1804)	198 (5030)	23 (584)	3	4	3,630 (1646)
	180 (4572)	83 (2109)	228 (5792)	35 (889)	3	4	3,853 (1748)
	189 (4800)	87 (2210)	237 (6020)	47 (1194)	3	4	3,909 (1773)

1 Tolerance = +/-0.5 in. (+/-13mm).  
2 Tolerance = +2.5/-0.5 in. (+64/-13 mm).  
3 Tolerance = +/-1 in. (+/-25.4 mm).  
4 Add 100 lb. (45.4 kg) with sideshift option.

RIGHT-ANGLE STACKING AISLE REQUIREMENTS

LOAD WIDTH	WS1-RE30	
	LOAD LENGTH	
	42 (1067)	48 (1219)
in (mm)	in (mm)	in (mm)
30 (762)	84 (2134)	92 (2337)
32 (813)	84 (2134)	91 (2311)
36 (914)	84 (2134)	91 (2311)
40 (1016)	83 (2108)	90 (2286)
42 (1067)	83 (2108)	90 (2286)
48 (1219)	81 (2057)	89 (2261)

Aisle width requirements are based on 6" (153 mm) clearance between each side of the load.  
Add a minimum of 6" to 10" (153 to 254 mm) for maneuverability.  
Add a minimum of 4" to 5" (102 to 127 mm) for 3-stage mast.  
Add 2.5 in (64 mm) when equipped with sideshift carriage









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**SAYS TOYOTA,**  
**BUT I WORK**  
**FOR YOU."**

Alan - 360 Technician, Atlas Toyota Material Handling, Chicago, IL



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**WALKIEREACHSTACKERSS**

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