

# 7-Series

## ELECTRIC WALKIE ADJUSTABLE STRADDLE STACKER

### SPECIFICATIONS

**7BWS10 - 2,000 lbs**

**7BWS13 - 2,500 lbs**

Toyota's state-of-the-art walkie straddle stacker with adjustable baselegs is a versatile, highly maneuverable, cost-effective material handling solution.



### Standard Features

#### PERFORMANCE

- 2000 lbs capacity (7BWS10)
- 2500 lbs capacity (7BWS13)
- 24 volt electrical system
- Separately Excited (SepEx®) drive motor with thermal protection and current limiting
- Class 'F' motor insulation
- SepEx® Transistor Control System with MOSFET
- Controller Area Network (CAN-bus) communication
- Regenerative braking
- Contactor-less drive controls
- Electronic touch-pad, keyless entry system with password protection
- Programmable performance for up to 10 operators
- Electronic raise and proportional lower controls on operator handle
- Auto-off system (programmable)
- Error indicator with self-diagnostics
- Fault code memory with hour meter reading
- Hour meter indicator
- Programmable service indicator

- Battery discharge indicator and correction with lift interrupt

#### BODY/EXTERIOR DESIGN

- 32" to 51" adjustable straddle baseleg openings (inside dimensions)
- Bolt-on baselegs with tapered toe box
- 27.3" x 7.8" battery compartment
- SB-175 battery connector (red)
- 255 AH maximum battery amperage
- 33.9" wide ITA Class II fork carriage
- 42" fork length
- 40" load backrest extension
- Polyurethane drive tire, 10" x 5"
- Single polyurethane load wheels, 4" x 3"
- One-piece, high-strength service cover with pen and pencil storage tray
- Wide view 2-stage mast (V)
- Electric horn
- Overload protection valve
- Heavy duty bumpers
- Rugged, all-steel frame construction
- Bolt-on mast mounting
- Interlocking mast channel construction with ball bearing roller design

#### OPERABILITY & ERGONOMICS

- Multifunction control handle with ergonomically angled hand grips
- Fingertip control of all functions
- Directional thumb wheels
- Programmable neutral speed reduction (coast control)
- Direction reverse switch on control handle
- Spring-loaded control handle
- 182° steering arc
- Electric disc brake
- Emergency power disconnect switch
- Safety glass mast guard

#### Optional Equipment

- Battery/charger pack (24V) maintenance-free (195 AH)
- Battery/charger pack (24V) swing-out tray (152 AH)
- Battery compartments - 6.8" or 9"
- 30", 36" or 48" fork lengths
- Wide view full-free lift 2-stage mast (FV)
- Full-free lift simplex mast (S)

# 7BWS10.13 Specifications

Models		7BWS10	7BWS13
Load Capacity (with 24-in. load center)	lb	2000	2500
Brakes		Electric Disc Brake	

## EXTERIOR DIMENSIONS

Dimension	Unit	Value
Carriage Width	in	33.9
Basic Right Angle Stacking Aisle Width		See Chart
<b>A</b> Maximum Fork Height (MFH)	in	128
<b>B</b> Mast Lowered Height	in	84
<b>C</b> Mast Extended Height	in	168
<b>D</b> Free Lift	in	6
<b>E</b> Wheelbase	in	47.1
<b>F</b> Head Length (Length to Fork Face)	in	33.2
<b>G</b> Truck Length (Length to End of Baselegs)	in	58.9
<b>H</b> Power Unit Width	in	28
<b>I</b> Power Unit Height	in	32.8
<b>J</b> Battery Floor Height	in	10
<b>K</b> Baseleg Inside Dimension (ID) - Adjustable	in	32 to 51
<b>L</b> Baseleg Outside Dimension (OD) - Adjustable	in	40 to 59
<b>M</b> Baseleg Width	in	4
<b>N</b> Fork Size	TxWxL	1.5x4x42
<b>O</b> Fork Adjustment	Min./Max.	10/31.5
<b>P</b> Underclearance	in	2.2
<b>Q</b> Outside Turning Radius	in	54.2

## POWER SYSTEM

Item	Specification	Unit	Value
<b>R</b> Battery Compartment	LxW (open height)	in	27.3x7.8
Total Weight	Without Battery	lb	1710
Power Type			Battery
Battery	Voltage/Capacity (6-hour ratings) Max.	V/AH	24/255
	Cable Location/Length	in	B/15
	Connector/Color		SB-175/Red
	Weight Min./Max.	lb	290/550
Electric Motors	Drive (60 min)	hp	1.2
	Load Handling (5%)	hp	4.2
	Control Type		Transistor
	Load Handling		Electromagnetic Contactor

## PERFORMANCE DATA

Performance Metric	Configuration	Unit	Value
Maximum Travel Speed	Fwd/Rvs - Full Load	mph	3.4
	Fwd/Rvs - No Load	mph	3.6
Lift Speed	Full Load	fpm	25   22
	No Load	fpm	41
Lowering Speed	Full Load	fpm	47   48
	No Load	fpm	44
Gradeability <sup>1)</sup>	Full Load/No Load	% (tan θ)	6/10

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

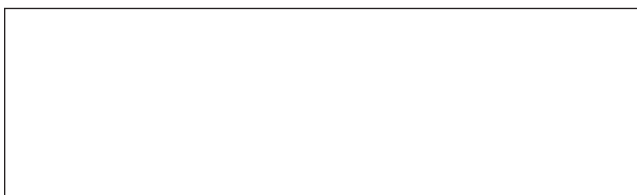
## TIRES

Type (Drive/Load)	Polyurethane	
Size (dia. x width)	Drive	in
	Load	in

## AISLE REQUIREMENTS - RIGHT ANGLE STACKING 7BWS10.13

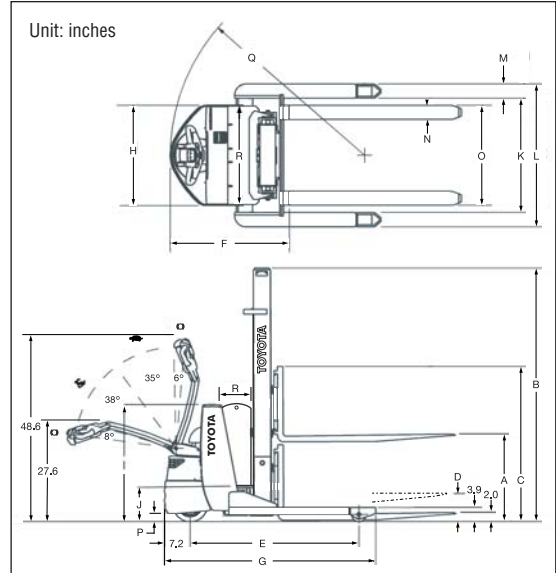
Load Width	Load Length				
	36	40	42	44	48
in	in	in	in	in	in
30	64	70	72	74	79
36	63	69	71	74	78
40	62	68	71	73	78
42	61	68	71	73	78
44	60	67	70	73	78
48	59	67	70	72	77

Aisle width requirements are based on 4" clearance between each side of the load. Add a minimum of 6" to 12" for maneuverability.



Some product features described herein are optional. Please consult your dealer for specifications. Details of specifications and equipment are based on information available at the time of printing and may change without notice. SepEx® is a registered trademark of Curtis Instruments, Inc.

## DIMENSIONAL DRAWING 7BWS10.13



## MAST SPECIFICATIONS & RATED CAPACITIES 7BWS10

Mast Type	Maximum Fork Height	Overall Lowered Height	Free-Lift w/ Load Backrest	Minimum Baseleg (ID)	Capacity @ 24 in LC <sup>[1]</sup>
V	in	in	in	lb	lb
	104	72	6	32	2000
	112	76	6	32	2000
	128	84	6	32	2000
FV	143	91	6	32	1600
	104	72	30	32	2000
	112	76	34	32	2000
S	128	84	42	32	2000
	143	91	50	32	1600
	53	71	30	32	2000
	65	83	42	32	2000

Note: Height of load backrest is 40".

[1] Basic capacity is 2000 lbs at 24" load center.

Actual capacity is dependent upon specific truck configuration. Reference Toyota's FL Manual for complete specifications.

## 7BWS13

Mast Type	Maximum Fork Height	Overall Lowered Height	Free-Lift w/ Load Backrest	Minimum Baseleg (ID)	Capacity @ 24 in LC <sup>[1]</sup>
V	in	in	in	lb	lb
	104	72	6	32	2500
	112	76	6	32	2500
	128	84	6	32	2000
FV	143	91	6	32	1600
	104	72	30	32	2500
	112	76	34	32	2500
S	128	84	42	32	2000
	143	91	50	32	1600
	53	71	30	32	2500
	65	83	42	32	2500

Note: Height of load backrest is 40".

[1] Basic capacity is 2500 lbs at 24" load center.

Actual capacity is dependent upon specific truck configuration. Reference Toyota's FL Manual for complete specifications.