

WSS-H

Walkie Straddle Stacker - Heavy Duty Truck

STANDARD EQUIPMENT

- Interlocked I-beam Mast.** The premium steel mast construction features interlocked steel channel and I-beam design with roller-bearing surfaces for long mast life. Interlock channel and I-beam mast accommodates high lifting stresses and maintains load stability.
- Large Direction Reversing Belly-button Impact Switch.** Provides operator protection when traveling. Upon body contact, switch activates low speed away from the operator.
- Versatile Braking System.** Two-way mechanical linkage actuates an automotive-type disc brake when the handle is positioned in the top or bottom of its arc. "Dead-man" feature returns the handle to its upright position, cuts out travel power and auto-mechanically engages the brake if the handle is inadvertently released.
- Industrial Rated Batteries.** Built to withstand deep-discharge and recharging, industrial rated batteries contain heavy plates and separators. Hinged battery compartment covers provide easy access to batteries for maintenance.
- Fully Protected Electrical System.** 12V and 24V units have transistor travel control for infinitely variable speed control. All wiring is coded and has quick-disconnect terminals for easy servicing.
- High Strength Construction.** Unitized continuous welded steel in every Pettibone frame minimizes structural deterioration.
- Emergency Power Disconnect.** Externally mounted, quick-release battery disconnect is readily accessible to remove all power from truck circuits in the event of an emergency.
- Special Alloy Forks.** Heavy-duty I.T.A. forks are heat-treated alloy steel and formed to preserve full strength at the fork heel. Bottom taper of 14 inches and beveled fork tips allow easy pallet entry and exit.
- I.T.A. Class II Carriage.** I.T.A. Class II Carriage makes changing from forks to attachments simple. No tools or pin removal are required. Changing outside fork dimension is equally easy.
- Chrome Plated Lift Cylinder.** For long life and low ram maintenance.
- Pressure-Compensated Flow Control Valve** at base of lift cylinder regulates lowering speed.
- V-Boxed Load Wheels on Straddle Legs.** This straddle leg design not only protects load wheels, but its angular shape aids in positioning.
- Wheels.** 4" polyurethane load wheels standard on all models. 3", 6" and tandem wheels are optional. 4" tandem standard on 4000 lb. trucks.



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OPTIONS

- Adjustable Straddle Option*.** Available for the straddle I.D. range of 38" to 50". Adjusts in 4" increments. Will allow the truck to work with a variety of pallet sizes. Ideal if future pallet requirements change.
- Full Free Lift.** Allows fork carriage to extend to the top of the first stage before the second stage begins to extend. For lifting in areas limited by overhead clearance. Reduces lift and collapsed height 2" (consult factory).

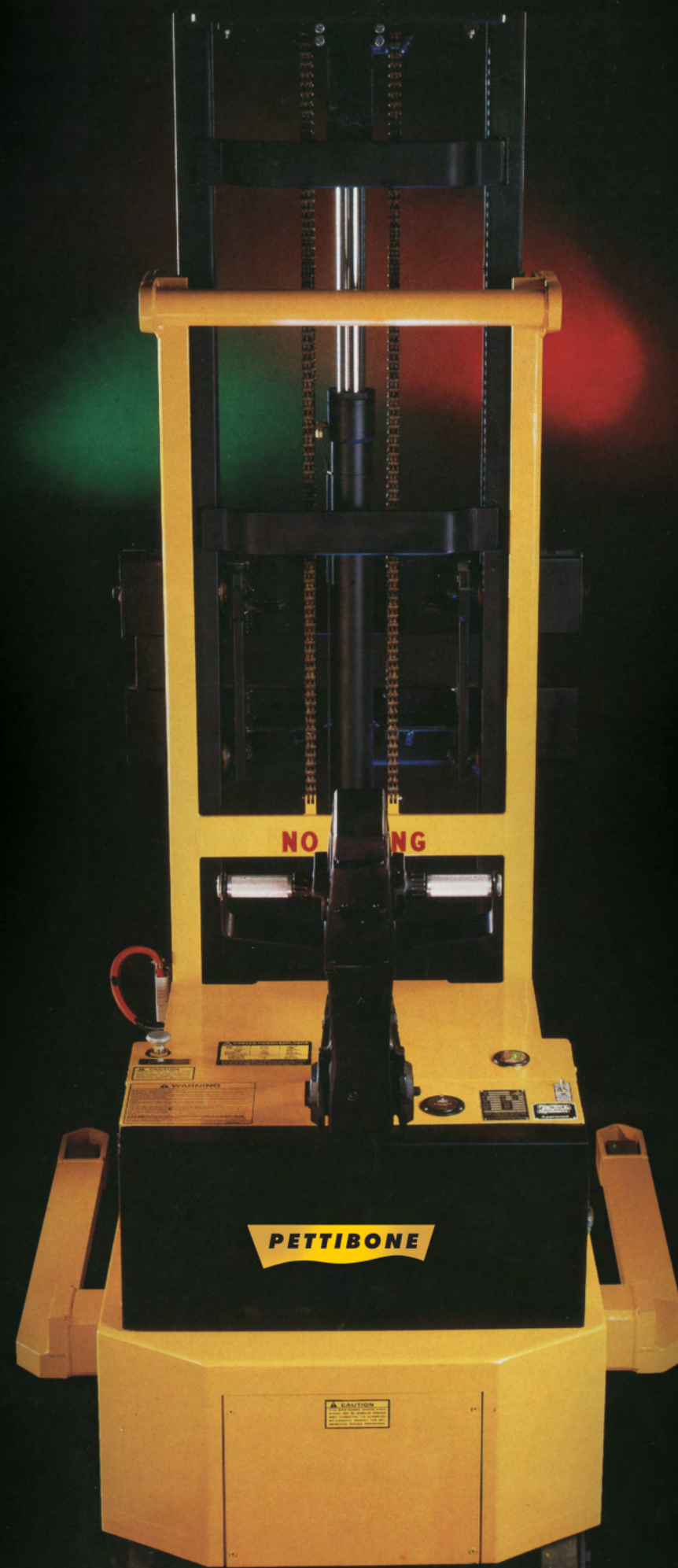
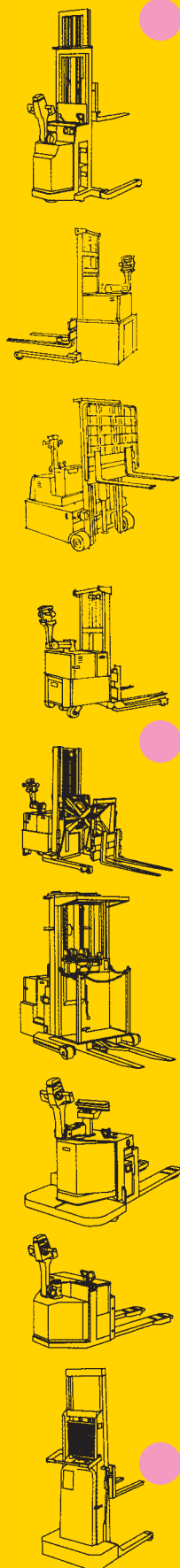
Consult factory for other options and special configurations.
 *Not available on WSS-H or on Tri-Mast® models.

SPECIFICATIONS

Lifting Capacity: 2,000 - 4,000 lbs. at 24" load center
Lift Range: 60" - 194"
Power System: 12V/24V
Turning Radius: From 62"
Travel: 3 speeds forward and reverse

SYSTEM	Travel speed (in mph) up to				
	WSS-H-20	WSS-H-25	WSS-H-30	WSS-H-40	Empty
12V	2.8	2.8	2.7	2.7	3.2
24V	3.1	3.1	3.0	3.0	3.5
SYSTEM	Lift speed (fpm) up to				
	12V	15	12	10	9
24V	30	25	22	19	36

Lower speed (fpm) 33
 Gradeability 10%
 Grade Clearance 10-15% (consult factory)



WSS-H

Walkie
 Straddle
 Stacker
 Heavy Duty
 Truck



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Specifications For All WSS-H Models

Straddle I.D. and O.D.:

Straddles are built to order. Consult chart for minimums. Consult factory for O.D. greater than 58".

Battery	6 ¹¹ / ₁₆ " x 30 ⁷ / ₈ "
Compartment	11 ¹ / ₈ " x 31 ⁵ / ₈ "
Sizes:	13 ¹ / ₈ " x 30 ⁷ / ₈ "

Fork Length x Width x Thickness:

WSS-H-20, 25, 30:
Choice of 36", 42", 48" x 4" x 1¹/₂"

WSS-H-40:
Choice of 36", 42", 48" x 4" x 1³/₄"

Fork Lowered Height (min.):

WSS-H-20, 25, 30:
2" Standard; 2¹/₂" for full free lift;
3" for Tri-Mast

WSS-H-40:

2³/₄" Standard; 2" for Tri-Mast, non-telescopic and full free lift masts

Fork O.D. Range: 8" (min), 32" (max)

Wheel Diameter: Load Wheels 4"*
Caster Wheels 6"
Drive Wheel 10¹/₂"

*Tandem Load Wheels Standard on WSS-H-40.

MODEL NO.	CAPACITY AT 24" LOAD CENTER	LIFT HT. A	COLL. HT. † B	EXT. HT. C	FREE LIFT HEIGHT	STRADDLE LENGTH ** D	OVERALL WIDTH E	POWER HEAD LENGTH *** F		OVERALL LENGTH G		TURN RADIUS H	APPROX. SHIPPING WEIGHT W/O BATTERIES	STANDARD BATTERY (WT. LBS)		STANDARD CHARGER (WT. LBS)		
								12V	24V ****	12V	24V ****			12V	24V	12V	24V	
WSS-H 20 SERIES																		
WSS-H-20-060	2000	60	77	80	57	26 ¹ / ₂	32	34 ⁹ / ₁₆	39 ¹ / ₁₆	61 ¹ / ₁₆	65 ⁹ / ₁₆	61 ³ / ₃₂	66 ⁷ / ₃₂	1655	375 A.H. (439)	200 A.H. (480)	65 amp. (60)	40 amp. (60)
WSS-H-20-106	2000	106	71	123	12	26 ¹ / ₂	32	34 ⁹ / ₁₆	39 ¹ / ₁₆	61 ¹ / ₁₆	65 ⁹ / ₁₆	61 ³ / ₃₂	66 ⁷ / ₃₂	1910				
WSS-H-20-130	2000	130	83	147	12	26 ¹ / ₂	32	34 ⁹ / ₁₆	39 ¹ / ₁₆	61 ¹ / ₁₆	65 ⁹ / ₁₆	61 ³ / ₃₂	66 ⁷ / ₃₂	2035				
WSS-H-20-154	2000	154	95	171	12	26 ¹ / ₂	32	34 ⁹ / ₁₆	39 ¹ / ₁₆	61 ¹ / ₁₆	65 ⁹ / ₁₆	61 ³ / ₃₂	66 ⁷ / ₃₂	2100				
WSS-H-20-168	2000*	168	102	185	12	26 ¹ / ₂	32	34 ⁹ / ₁₆	39 ¹ / ₁₆	61 ¹ / ₁₆	65 ⁹ / ₁₆	61 ³ / ₃₂	66 ⁷ / ₃₂	2152				
WSS-H 20 TRI-MAST*																		
WSS-H-20-158	2000	158	71	178	51	26 ¹ / ₂	32	N/A	43 ⁹ / ₁₆	N/A	70 ⁷ / ₁₆	N/A	72 ¹ / ₂	2289	N/A	300 A.H. (693)	N/A	40 amp. (60)
WSS-H-20-194	2000*	194	83	214	63	26 ¹ / ₂	32	N/A	43 ⁹ / ₁₆	N/A	70 ⁷ / ₁₆	N/A	72 ¹ / ₂	2379				
WSS-H 25 SERIES																		
WSS-H-25-060	2500	60	77	80	57	26 ¹ / ₂	32	34 ⁹ / ₁₆	39 ¹ / ₁₆	61 ¹ / ₁₆	65 ⁹ / ₁₆	61 ³ / ₃₂	66 ⁷ / ₃₂	1693	450 A.H. (505)	300 A.H. (693)	65 amp. (60)	40 amp. (60)
WSS-H-25-106	2500	106	71	123	12	26 ¹ / ₂	32	34 ⁹ / ₁₆	39 ¹ / ₁₆	61 ¹ / ₁₆	65 ⁹ / ₁₆	61 ³ / ₃₂	66 ⁷ / ₃₂	1952				
WSS-H-25-130	2500	130	83	147	12	26 ¹ / ₂	32	34 ⁹ / ₁₆	39 ¹ / ₁₆	61 ¹ / ₁₆	65 ⁹ / ₁₆	61 ³ / ₃₂	66 ⁷ / ₃₂	2082				
WSS-H-25-154	2500	154	95	171	12	26 ¹ / ₂	32	34 ⁹ / ₁₆	39 ¹ / ₁₆	61 ¹ / ₁₆	65 ⁹ / ₁₆	61 ³ / ₃₂	66 ⁷ / ₃₂	2149				
WSS-H-25-168	2500*	168	102	185	12	26 ¹ / ₂	32	34 ⁹ / ₁₆	39 ¹ / ₁₆	61 ¹ / ₁₆	65 ⁹ / ₁₆	61 ³ / ₃₂	66 ⁷ / ₃₂	2204				
WSS-H 25 TRI-MAST*																		
WSS-H-25-158	2500	158	71	178	51	26 ¹ / ₂	32	N/A	43 ⁹ / ₁₆	N/A	70 ⁷ / ₁₆	N/A	72 ¹ / ₂	2345	N/A	300 A.H. (693)	N/A	40 amp. (60)
WSS-H-25-194	2500*	194	83	214	63	26 ¹ / ₂	32	N/A	43 ⁹ / ₁₆	N/A	70 ⁷ / ₁₆	N/A	72 ¹ / ₂	2440				
WSS-H 30 SERIES																		
WSS-H-30-060	3000	60	77	80	57	26 ¹ / ₂	32	34 ⁹ / ₁₆	39 ¹ / ₁₆	61 ¹ / ₁₆	65 ⁹ / ₁₆	61 ³ / ₃₂	66 ⁷ / ₃₂	1723	510 A.H. (550)	340 A.H. (721)	65 amp. (60)	40 amp. (60)
WSS-H-30-106	3000	106	71	123	12	26 ¹ / ₂	32	34 ⁹ / ₁₆	39 ¹ / ₁₆	61 ¹ / ₁₆	65 ⁹ / ₁₆	61 ³ / ₃₂	66 ⁷ / ₃₂	1992				
WSS-H-30-130	2000	130	83	147	12	26 ¹ / ₂	32	34 ⁹ / ₁₆	39 ¹ / ₁₆	61 ¹ / ₁₆	65 ⁹ / ₁₆	61 ³ / ₃₂	66 ⁷ / ₃₂	2122				
WSS-H-30-154	3000	154	95	171	12	26 ¹ / ₂	32	34 ⁹ / ₁₆	39 ¹ / ₁₆	61 ¹ / ₁₆	65 ⁹ / ₁₆	61 ³ / ₃₂	66 ⁷ / ₃₂	2189				
WSS-H-30-168	3000*	168	102	185	12	26 ¹ / ₂	32	34 ⁹ / ₁₆	39 ¹ / ₁₆	61 ¹ / ₁₆	65 ⁹ / ₁₆	61 ³ / ₃₂	66 ⁷ / ₃₂	2254				
WSS-H 30 TRI-MAST*																		
WSS-H-30-158	3000	158	71	178	51	26 ¹ / ₂	32	N/A	43 ⁹ / ₁₆	N/A	70 ⁷ / ₁₆	N/A	72 ¹ / ₂	2394	N/A	340 A.H. (721)	N/A	40 amp. (60)
WSS-H-30-194	3000*	194	83	214	63	26 ¹ / ₂	32	N/A	43 ⁹ / ₁₆	N/A	70 ⁷ / ₁₆	N/A	72 ¹ / ₂	2489				
WSS-H 40 SERIES																		
WSS-H-40-060	4000	60	77 ¹ / ₂	80	57	27 ¹ / ₂	32	36 ¹ / ₁₆	41 ¹ / ₁₆	68 ¹ / ₁₆	72 ¹ / ₁₆	62 ¹ / ₃₂	66 ¹ / ₁₆	1885	510 A.H. (550)	510 A.H. (1042)	65 amp. (60)	75 amp. (90)
WSS-H-40-106	4000	106	71 ¹ / ₂	123	12	26 ¹ / ₁₆	32	37 ¹ / ₂	42 ¹ / ₄	68 ¹ / ₁₆	72 ¹ / ₁₆	62 ¹ / ₃₂	66 ¹ / ₁₆	2328				
WSS-H-40-130	4000	130	83 ¹ / ₂	147	12	26 ¹ / ₁₆	32	37 ¹ / ₂	42 ¹ / ₄	68 ¹ / ₁₆	72 ¹ / ₁₆	62 ¹ / ₃₂	66 ¹ / ₁₆	2410				
WSS-H-40-154	4000	154	95 ¹ / ₂	171	12	26 ¹ / ₁₆	32	37 ¹ / ₂	42 ¹ / ₄	68 ¹ / ₁₆	72 ¹ / ₁₆	62 ¹ / ₃₂	66 ¹ / ₁₆	2520				
WSS-H 40 TRI-MAST*																		
WSS-H-40-158	4000	158	77	184	51	26 ¹ / ₁₆	32	N/A	46 ¹ / ₁₆	N/A	75 ¹ / ₄	N/A	72 ¹ / ₂	3224	N/A	510 A.H. (1042)	N/A	75 amp. (90)
WSS-H-40-194	4000*	194	89	220	63	26 ¹ / ₁₆	32	N/A	46 ¹ / ₁₆	N/A	75 ¹ / ₄	N/A	72 ¹ / ₂	3340				

*Derates capacity 500lbs. over 158"

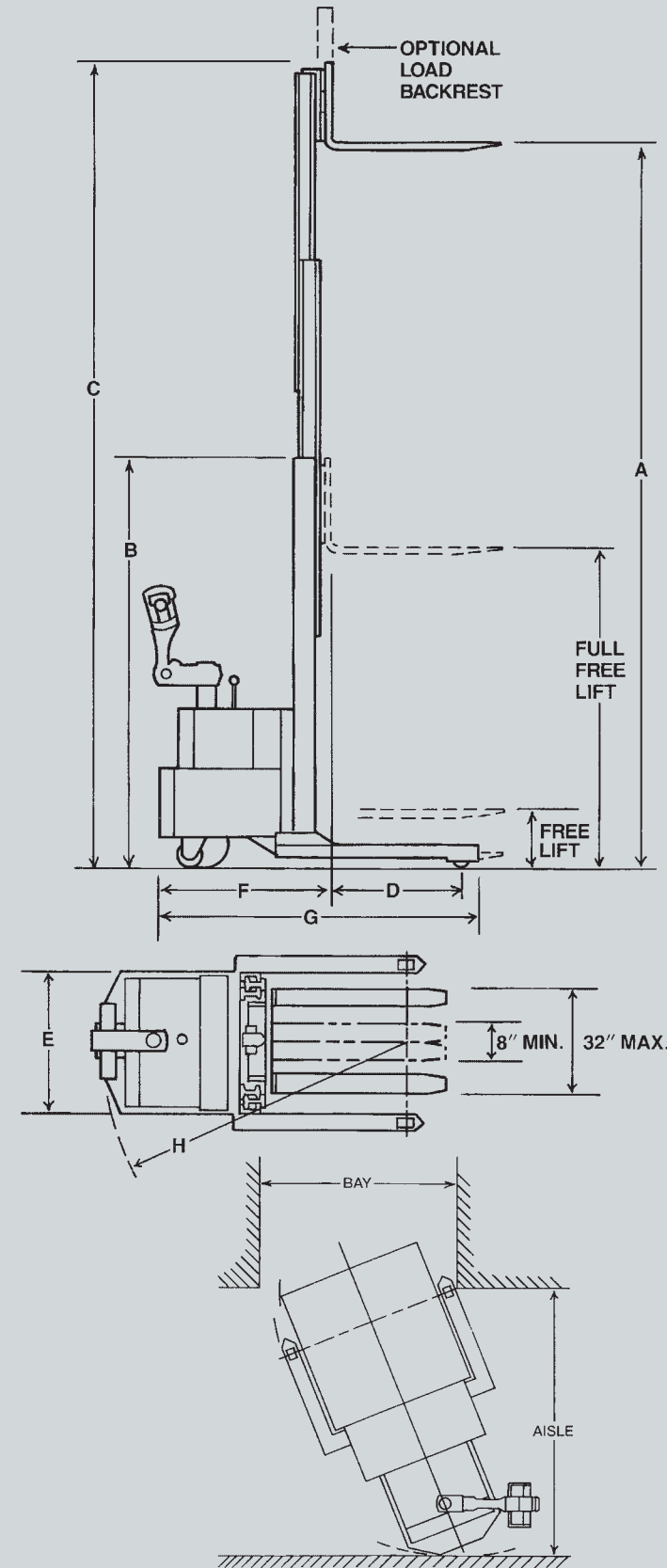
**Face of fork to center of load wheels

***To face of fork

****Add 1¹/₈" when 13" batt. comp. is used

†Add 4.5" with adjustable straddle (Adjustable straddle not available on WSS-H-40 or Tri-Mast*)

DIMENSIONS



MINIMUM STRADDLE WIDTH CHART

(inches)

TRUCK MODEL	STRADDLE I.D.	STRADDLE O.D.
WSS-H 20-060	12	20
WSS-H 20-106	18	26
WSS-H 20-130	22	30
WSS-H 20-154	29	37
WSS-H 20-158	30	38
WSS-H 20-168	38	46
WSS-H 20-194	46	54
WSS-H 25-060	13	21
WSS-H 25-106	19	27
WSS-H 25-130	24	32
WSS-H 25-154	30	38
WSS-H 25-158	32	40
WSS-H 25-168	40	48
WSS-H 25-194	48	56
WSS-H 30-060	14	22
WSS-H 30-106	22	30
WSS-H 30-130	25	33
WSS-H 30-154	32	40
WSS-H 30-158	34	42
WSS-H 30-168	42	50
WSS-H 30-194	50	58
WSS-H 40-060	14	22
WSS-H 40-106	22	30
WSS-H 40-130	28	36
WSS-H 40-154	34	42
WSS-H 40-158	38	46
WSS-H 40-194	50	58

MINIMUM AISLE STACKING REQUIREMENTS

Load Length	RIGHT ANGLE STACKING		
	Load Width		
36	36	42	48
36	69	70	71
42	70	71	72
48	71	72	73

Aisle dimensions are zero clearance; 12" should be added for ease of operation.

Aisle dimensions assume bay width to be straddle O.D. plus 2" (1" on each side) where straddle O.D. is the load width plus 10".

**With 11¹/₈" wide battery compartment, aisle dimension should be increased 4⁵/₈".

**With 13" wide battery compartment, aisle dimension should be increased 6¹/₄".

**Tri-Mast® models, aisle dimension should be increased 4".