

WSS-I

Walkie Straddle Stacker Intermediate Truck

STANDARD EQUIPMENT

- Advanced Control Handle**
 All Walkie Straddle Stacker Intermediate Truck (WSS-I) models come equipped with the industry's most versatile control handle. Speeds may be controlled with a twist grip or thumb control. Includes infinitely variable transistor speed control; thumb control of horn.
- "Belly-Button" Reversing Switch**
 A large reversing switch, built into the control handle is designed to reverse truck direction on contact with the operator.
- Versatile Braking Systems**
 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.
- Electrical System**
 24 volt system Curtis® transistor travel controller. DC drive motor with class H insulation. Integral battery and charger pack.
- High Strength Construction**
 Power section, base legs, and mast are seam-welded to form a single piece frame. This unitized construction resists operational stresses and provides a rugged housing to protect truck components.
- Industrial Rated Batteries**
 Contain heavy plates and separators. Built to withstand deep discharge and recharging. Battery compartments provide easy access to batteries for maintenance.
- Chrome Plated Lift Cylinder**
 Provides smooth lift/lower performance and long seal life.
- Telescopic Mast**
 Mast construction is fully-rollered, inter-locked structural steel channel and I-beam for strength, rigidity and long-wearing performance.
- Emergency Power Disconnect**
 Externally mounted quick-release battery disconnect is readily accessible. Panel mounted with a large handle to remove all power from truck circuits in the event of an emergency.
- Battery Charger**
 Internally mounted, fully automatic "smart" charger, plugs into standard 110 volt AC outlet.
- High Speed Cut-Off**
 Automatic cut-off circuit locks out high speed when forks are elevated above 15".
- Pressure-Compensated Flow Control Valve**
 Located at base of lift cylinder, regulates lowering speed.

OPTIONS

(other options available, consult factory)

- 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 may 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).



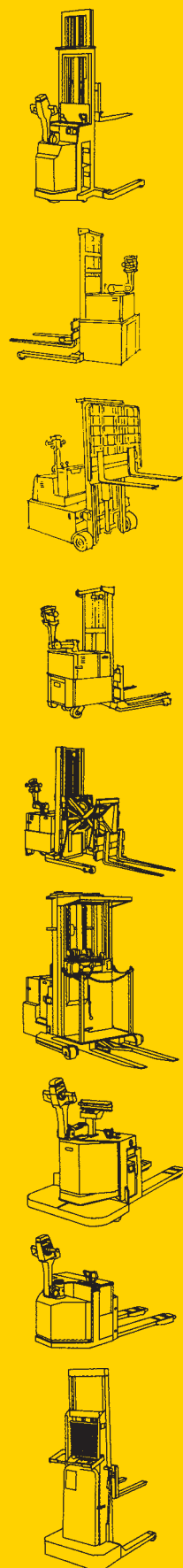
SPECIFICATIONS

Models:	
WSS-I "R" Series:	Rigid fork-over-straddle, non-telescopic, rated 2000# at 18" and 24" load centers.
WSS-I "A" Series:	Adjustable fork carriage, non-telescopic, rated 2000# at 18" and 24" load centers.
WSS-I "T" Series:	Adjustable fork carriage, telescopic, rated 2000# at 18" and 24" load centers.
Lifting Capacity:	2,000 lbs. at both 18" and 24" load centers.
Lift Range:	5 - 12 ft.
Power System:	24 volt with built-in fully automatic charger.
Turning Radius:	From 51"
Travel:	Infinitely variable, transistorized speed control.

SPECIFICATIONS FOR ALL WSS-I MODELS

Battery:	Two 12V Industrial batteries connected in series, providing a 24V power source
2018 series:	24V Battery Pack (two 12V, 125A.H.)
2024 series:	24V Battery Pack (two 12V, 160 A.H.)
Compartments:	Two 21" L x 7 5/8" W x 12" compartments
Charger:	24V 25 amp built-in fully automatic
Forks:	See chart
Wheel Dia:	Load Wheels 4" Drive Wheels 10"
Clearance:	1 1/2" floor to bottom of straddle 7/8" to stability bar under power section
Wheels:	4" Dia. X 2 3/4" polyurethane load wheels (standard) 10" x 4" x 6 1/2" polyurethane drive wheel

Performance:	Empty	Loaded
Lift Speed (FPM), up to	34	24
Lowering Speed (FPM), up to	28	56
Travel Speed (MPH), up to	2.7	2.2
Grade Clearance:	10% (8% with adjustable Straddles)	
Gradeability:	10%	



WSS-I

Walkie
Straddle
Stacker
Intermediate
Truck



TIFFIN PARTS

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PETTIBONE

WSS-I

Walkie Straddle Stacker Intermediate Truck

TECHNICAL DATA

ELECTRICAL SYSTEM

Dual 12V industrial type batteries providing 24V power. Infinitely variable transistorized drive control system.

Battery cables are terminated at the battery end with clamp-on, fully insulated terminals and at the truck and charger interface with a 175A SB Type plug-in connector.

Both power and control circuits are fused.

Direction stepless speed control, horn and optional lift/lower switches are housed in a spring balanced control arm providing the operator finger-tip control of truck functions.

Built-in 25A fully automatic "smart" charger wired for 120V / 1/60Hz power input.

All wiring is coded for easy servicing.

STRUCTURAL SYSTEM

Power section frame, base legs and mast main frame are an integrally welded unit providing a rugged structural base and maximum protection for truck components.

Mast telescopic frame is 3/8" hot formed steel channel for strength and rigidity.

On non-telescopic and telescopic models, the carriage is an integrally welded unit with shaft-type forks of formed steel.

On non-telescopic rigid fork models, the carriage is an integrally welded unit with channel forks that nest over the straddles in the lowered position.

Mast is of fully-rollered construction for smooth, long-wearing performance.

DRIVE SYSTEM

Compact, open-frame 24V DC drive motor provides ample torque and RPM at low current and temperature levels.

Direct drive, full oil bath transmission, operates through a 56:1 gear reduction in a ductile iron housing with heat-treated, steel alloy gears and premium industrial bearings.

Disc brake is mounted to the drive motor armature shaft utilizing the 56:1 transmission ratio to multiply the braking force for safe stopping performance.

The drive motor, transmission, brake and drive wheel are coupled to the control arm via a pivot tube that provides the operator direct control of all the drive functions.

The complete drive system is mounted within the truck frame for maximum protection.

HYDRAULIC SYSTEM

24V pump motor provides peak efficiency at torque and RPM demands of lift system.

Large reservoir provides excellent heat dissipation for fluid viscosity maintenance and comes equipped with foam-filtered cap and fluid level indicator stick.

Full system filtration is provided on the input side of the lift pump to prevent contaminants from entering the hydraulic system.

Infinitely variable ball-type lowering valve provides a full range of lowering speeds for optimum control and precise load positioning.

Single acting, chrome plated lift cylinder provides smooth lift/lower performance and long seal life.

Dual lift chains of high strength steel construction provide excellent load carriage support.

Pressure-compensated flow control valve at base of lift cylinder, regulates lowering speed within safe limits.

Built-in pressure relief valve protects system from overloads.

SAFETY FEATURES

Readily accessible horn button on the control arm alerts pedestrians and other truck operators of truck's presence.

"Dead-man" brake provides automatic braking when control arm is released.

Large "Belly-button" reversing switch provides operator protection when traveling in reverse direction. Upon body contact, switch activates low speed forward away from operator.

Automatic high-speed cutoff occurs when the forks are raised above 15".

All control functions automatically return to "off" when the steering arm is released.

Panel mounted battery connector, equipped with a large handle, is readily accessible to the operator for emergency power disconnect.

All power and control circuits are fuse protected.

Automatic relief valve maintains hydraulic pressure within prescribed limits.

Pressure-compensated flow control valve automatically regulates lowering speed within prescribed limits.

High-visibility color scheme of truck provides positive visual alert of truck's presence.

CERTIFICATION

All units are certified to be in compliance with the Occupational Safety and Health Act (OSHA).

DIMENSIONS

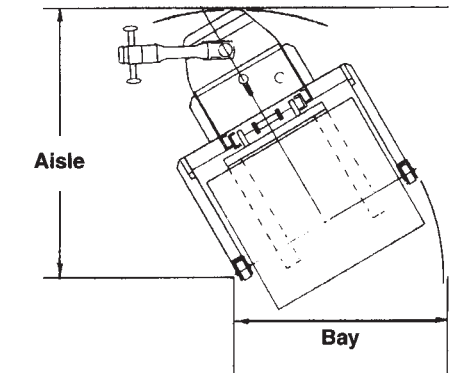
LOAD LENGTH	RIGHT ANGLE STACKING			
	LOAD WIDTH			
36"	36"	40"	42"	48"
42"	60"	61"	62"	63"
48"	60"	61"	62"	63"
48"	74"	74"	73"	71"

Add 6" to Aisle for WSS-I 2004.

Aisle dimensions are zero clearance: 12" should be added for efficient operation.

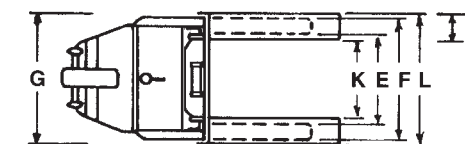
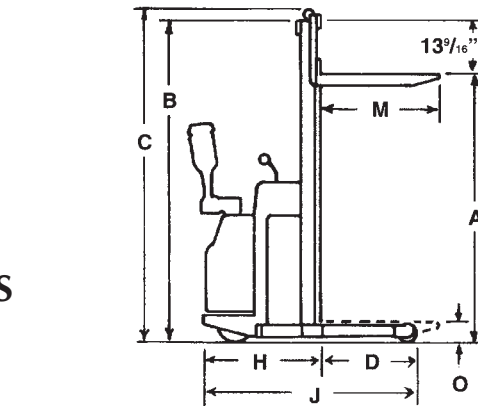
Aisle dimensions assume bay width to be the straddle O.D. plus 2" (1" on each side) where straddle O.D. is the load width plus 10".

Where smaller aisle or bay dimensions are required, consult factory.

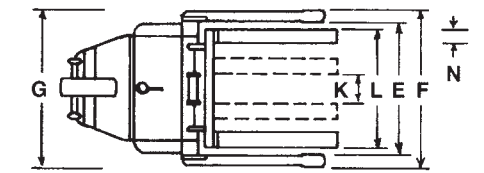
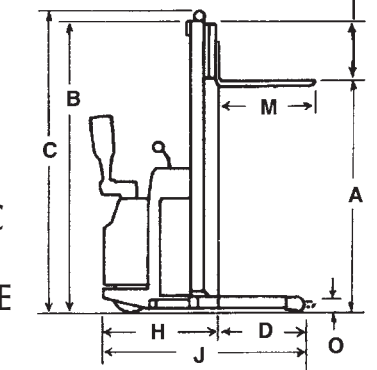


14 1/2" (2018A); 15 1/2" (2018T); 15 3/8" (2024A & 2024T)

RIGID FORK MODELS



TELESCOPIC AND ADJUSTABLE FORKS



MODEL NO.	LIFT CAPACITY	LOAD CENTER	LIFT HEIGHT	COL. HEIGHT			STRADDLES STANDARD			OVERALL WIDTH	POWER-HEAD LENGTH**	OVERALL LENGTH***	TURN RADIUS	FORKS					SHIP WEIGHT
				A	B	C	LENGTH	I.D.	O.D.					I.D. (MIN)	O.D. (MAX)	LENGTH	WIDTH	LOWERED HEIGHT	
WSS-I - 2018 SERIES																			
RIGID FORKS, NON-TELESCOPIC																			
WSS-I 2018-R060	2000	18	60	71 1/4	74		23 1/8	16 1/8	24 1/8	26	28 1/8	52 1/4	51	15 1/4	26	26	5 1/8	4 1/2	1125
WSS-I 2018-R072	2000	18	72	83 3/4	86		23 3/8	16 3/8	24 3/8	26	28 3/8	52 3/4	51	15 3/8	26	26	5 3/8	4 3/8	1150
ADJUSTABLE FORKS, NON-TELESCOPIC																			
WSS-I 2018-A060	2000	18	57	71 1/4	74		23 1/8	26 or 42	34 or 50	34	31 1/8	55 1/4	54	6	24	36	3	1 1/4	1200
WSS-I 2018-A072	2000	18	69	83 3/4	86		23 3/8	26 or 42	34 or 50	34	31 3/8	55 3/4	54	6	24	36	3	1 1/4	1225
WSS-I 2018-A084	2000	18	81	95 1/4	98		23 3/8	26 or 42	34 or 50	34	31 3/8	55 3/4	54	6	24	36	3	1 1/4	1250
ADJUSTABLE FORKS, TELESCOPIC																			
WSS-I 2018-T096	2000	18	96	69	116		23 1/8	30 or 42	38 or 50	38	31 1/8	55 1/4	54	10 1/8	24	36	3	2 1/2	1375
WSS-I 2018-T108	2000	18	108	75	128		23 3/8	30 or 42	38 or 50	38	31 3/8	55 3/4	54	10 3/8	24	36	3	2 1/2	1400
WSS-I 2018-T120	2000	18	120	81	140		23 3/8	42	50	50	31 3/8	55 3/4	54	10 3/8	24	36	3	2 1/2	1425
WSS-I 2018-T132	2000	18	132	87	152		23 3/8	42	50	50	31 3/8	55 3/4	54	10 3/8	24	36	3	2 1/2	1450
WSS-I 2018-T144	2000	18	144	93	164		23 3/8	42	50	50	31 3/8	55 3/4	54	10 3/8	24	36	3	2 1/2	1475
WSS-I - 2024 SERIES																			
RIGID FORKS, NON-TELESCOPIC																			
WSS-I 2024-R060	2000	24	60	74 1/4	76		29 1/8	16 1/8	24 1/8	26	28 1/8	58 1/4	57	15 1/4	26	30	5 1/8	4 1/2	1175
WSS-I 2024-R072	2000	24	72	86 3/4	88		29 3/8	16 3/8	24 3/8	26	28 3/8	58 3/4	57	15 3/8	26	30	5 3/8	4 3/8	1200
ADJUSTABLE FORKS, NON-TELESCOPIC																			
WSS-I 2024-A060	2000	24	57	74 1/4	76		29 1/8	26 or 42	34 or 50	34	31 1/8	61 1/4	60	6	24	42	4	1 1/4	1275
WSS-I 2024-A072	2000	24	69	86 3/4	88		29 3/8	26 or 42	34 or 50	34	31 3/8	61 3/4	60	6	24	42	4	1 1/4	1300
WSS-I 2024-A084	2000	24	81	98 1/4	100		29 3/8	26 or 42	34 or 50	34	31 3/8	61 3/4	60	6	24	42	4	1 1/4	1325
ADJUSTABLE FORKS, TELESCOPIC																			
WSS-I 2024-T096	2000	24	96	69	116		29 1/8	30 or 42	38 or 50	38	31 1/8	61 1/4	60	10 1/8	24	42	4	2 1/2	1375
WSS-I 2024-T108	2000	24	108	75	128		29 3/8	30 or 42	38 or 50	38	31 3/8	61 3/4	60	10 3/8	24	42	4	2 1/2	1400
WSS-I 2024-T120	2000	24	120	81	140		29 3/8	42	50	50	31 3/8	61 3/4	60	10 3/8	24	42	4	2 1/2	1425
WSS-I 2024-T132	2000	24	132	87	152		29 3/8	42	50	50	31 3/8	61 3/4	60	10 3/8	24	42	4	2 1/2	1450
WSS-I 2024-T144	2000	24	144	93	164		29 3/8	42	50	50	31 3/8	61 3/4	60	10 3/8	24	42	4	2 1/2	1475

*Face of fork to end of load wheels.

**To face of fork.

***To end of load wheels.

† For adjustable straddles add: 2 1/4" (2018 Tel, 2024 Tel & Non-Tel) 5 1/4" (2018 Non-Tel)