



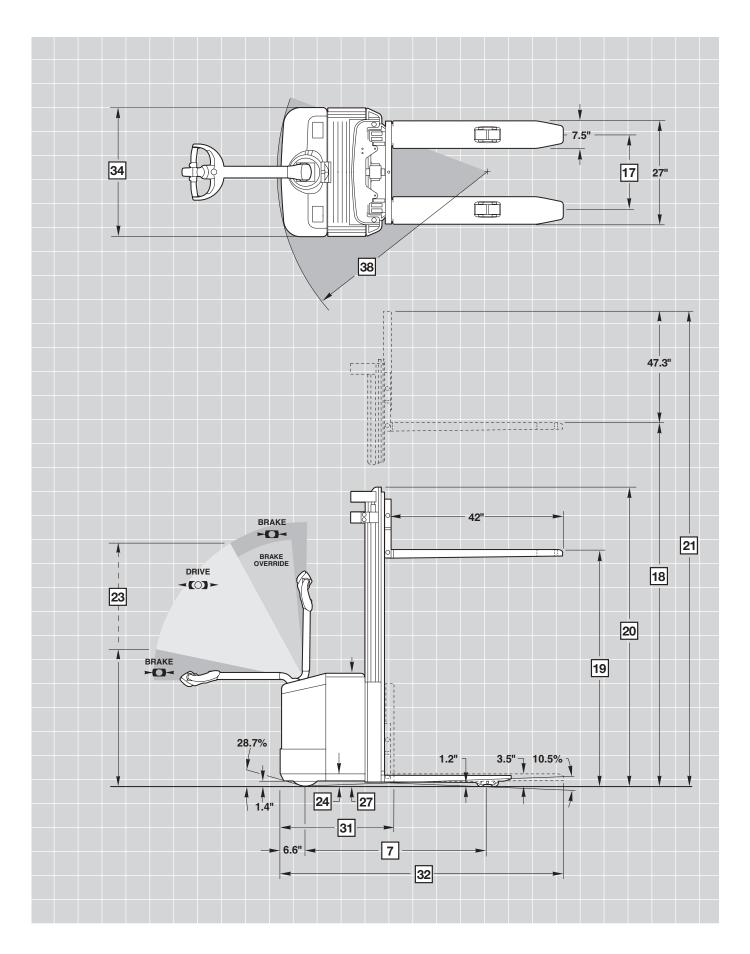
WE 2300 Series WS 2300 Series

Walkie Stackers

WE/WS 2300







| | 1 | Manufacturer | | | Crown Equipment Corporation | | |
|---------------------|----|-------------------------------------|-----------------------------------|------------|-------------------------------------|----------------------|--|
| Ē | 2 | Model | | | WE 2300-25 | WE 2300-30 | |
| General Information | | Mast Type | | | TL | | |
| | 3 | Power | | | | | |
| | 4 | | | | Electric Walkie | | |
| | | Operator Type | Max III (I - 1) | | | | |
| | 5 | Load Capacity | Max | lb (kg) | 2500 (1135) | 3000** (1361**) | |
| | 6 | Load Center | | in (mm) | 24 (600) | 24 (600) | |
| | 7 | Wheelbase | | in (mm) | 47 (1206) | 50 (1280) | |
| | 8 | Weight | Less Battery | lb (kg) | 1907 (865) | 2072 (940) | |
| | 13 | Wheel Size Front (d x w) | Vulkollan | in (mm) | 9.8 x 3 (250 x 75) | | |
| | 14 | Wheel Size Rear (d x w) | Vulkollan in (mm) | | 3.2 x 4 (82 x 100) | 3.2 x 2.3 (82 x 60) | |
| Tires | 15 | Additional Wheels | Caster Wheel (d x w) | in (mm) | 5.9 x 2 (150 x 50) | | |
| | 16 | Wheels (x=driven) | Front/Rear | | 1x, 1/2 | 1x, 1/4 | |
| | 17 | Track Width | Front | in (mm) | 2 | 23 (587) | |
| | | | Rear | in (mm) | 15 (382) | | |
| | 18 | Lift Height | | in (mm) | 130 (3300) | 130 (3300) | |
| | 19 | Free Lift | w/o Load Backrest | lb (kg) | 6 (150) | 68 (1720) | |
| | 20 | Collapsed Height | | in (mm) | 84 (2130) | 84 (2130) | |
| | 21 | Extended Height* | w/o Load Backrest | in (mm) | 147 (3730) | 147 (3730) | |
| | 22 | Load Backrest Size | | in (mm) | |) H x 32.7 (832) W | |
| | 23 | Tiller Arm Height in Drive Position | Min/Max | in (mm) | , | 31 (780) / 48 (1220) | |
| | 24 | Battery Comp't Floor Ht | in (mm) | | 3.4 (85) | | |
| | 25 | Lowered Fork Height | | in (mm) | | 3.5 (90) | |
| Si o | 27 | Power Unit Height | in (mm) | | | 29.75 (756) | |
| Dimensions | 28 | Fork Lengths | | in (mm) | 42 (1067) | | |
| ae l | 29 | Fork Dimensions | Thickness | in (mm) | 2 (50) | | |
| 莅 | 20 | Tork Dimensions | Width | in (mm) | 7.5 (190) | | |
| ŀ | 30 | Width Across Forks | VVIGET | in (mm) | 27 (686) | | |
| ŀ | 31 | Headlength | | in (mm) | 29 (730) | 30 (753) | |
| ŀ | 32 | Overall Length | at fork length 42" | in (mm) | 71 (1803) | 72 (1829) | |
| ŀ | 34 | Overall Width | at fork longth 42 | in (mm) | \ / | 3.5 (850) | |
| ŀ | 35 | Fork Carriage Width | | in (mm) | | 27 (680) | |
| - | 36 | Ground Clearance | w/Load Below Mast | in (mm) | | 1.4 (35) | |
| | 37 | Ground Olearance | Center Wheelbase | in (mm) | 1.2 (30) | | |
| | 38 | Turning Radius | COLLEGIVASE | in (mm) | 55 (1400) | 58 (1475) | |
| | 40 | Travel Speed | w/wo Load m | nph (km/h) | | 3.7 (5.3 / 6.0) | |
| Performance | 41 | Lift Speed | w/wo Load | fpm (m/s) | 31 / 51 (.16 / .26) | 28 / 43 (.14 / .22) | |
| | 42 | Lowering Speed | w/wo Load w/wo Load | fpm (m/s) | 71 / 43 (.36 / .22) | 71 / 43 (.36 / .22) | |
| | 42 | Gradeability | w/wo Load w/wo Load, 30 min Ra | | 3/9 | 3 / 8 | |
| | | | | | | 8 / 17 | |
| | 44 | Maximum Gradeability | w/wo Load, 5 min Rat | iiig % | 9 / 17 | | |
| | 45 | Service Brake | 1 \\ 1 | | Electric | | |
| | 46 | Maximum Battery Box | L x W x H in (mm) | | 8.5 x 32.5 x 24.7 (216 x 827 x 627) | | |
| er. | 47 | Battery Voltage (Nominal | V/Ah | | 24 / 195 | | |
| Battery | | Capacity 6 Hour Rating) | | | | | |
| | 48 | Type of Controller | Drive | | | ransistor | |
| | 49 | Battery Weight | | lb (kg) | 644-7 | 12 (293-323) | |

English conversions are approximations. Metric conversions should be done to find true values.

Standard Equipment

- Four-point suspension with centrally located handle
- 2. Traction speed control (MOSFET)
- 3. Variable traction speed forward and reverse
- 4. One-speed lift, two-speed lower
- 5. Electric brake
- 6. Brake override
- 7. Key switch
- 8. Horn
- Compound drive and lift motor
- Emergency power disconnect
- 11. Battery connector SB-175
- 12. Reversing button
- 13. Hour meter
- 14. Vulkollan tires
- 15. 27" x 42" fork configuration

Optional Equipment

- Pivoting tandem load wheels 3.2" x 2.3" (WE 2300-25 only)
- 2. Battery compartment rollers
- Battery discharge indicator with low battery lift interrupt and hour meter
- Freezer corrosion conditioning, continuous -30° C / -22° F, intermittent -40° C / -40° F
- 5. Load backrest
- 6. Maintenance-free battery pack

Electrical System

24-volt electrical system incorporating:

Transistor "MOSFET"
 controller, microprocessor
 controlled with on-board
 service diagnostic capability.
 This transistor controller
 provides many benefits
 such as maximum energy
 efficiency, reduced
 maintenance and infinite
 speed control capability.

Fault Monitoring System:
Through a fault flash code signaled by an LED, 17 detectable faults can be recognized. Using an optional hand set, faults can be displayed digitally. Controller settings are programmable. Functional tests of components are also possible. Incorporates storage register for fault history that can be interrogated by service personnel.

- Heavy-duty drive and lift motors provide high reliability and efficiency.
- Electric panel with swing-out feature, allows good accessibility and serviceability to the distribution panel and all other electrical components.
- 4. Emergency disconnect is easily accessible from all operating positions.
- 5. Solid-state switching ensures high component reliability.
- Control and power circuits are fused. Distribution panel and controller are shortcircuit protected.
- 7. All wiring is color coded.

Hydraulic System

- Heavy-duty compound motor and gear pump selected for optimum lift performance and low noise.
- Control block houses proportional pressure compensated flow control valve, check valve, relief valve and direction control valve to select lower function. The proportional valve ensures smooth load handling. Single speed lift and two speed lowering is available to the operator.
- Cylinder rods are hard-plated chrome with polyurethane seals.
- Relief valve tuned to capacity protects all components in the hydraulic system.

Drive Unit/Brake

Heavy-duty gear box with helical spur input gear for low noise emission. Drive unit is equipped with an electromagnetic brake, spring applied, electrically released. The brake is activated by the control handle position.

Frame/Pivoting Carriage

Frame and Articulated Truck Suspension system (ATS) are of a rugged design ensuring minimum deflections during operation. Modular pivoting carriage design ensures excellent traction, optimum truck stability and minimum steering effort in all load conditions. Easy serviceability of all components in power unit and simple adjustment to compensate for tire wear is possible. Single swingout door design allows easy access to all components.

Mact

High visibility two- and threestage mast design features nested I-beams and canted rollers. Lift cylinders are positioned in outer I-beam profile for best visibility through mast and clear view onto fork tips during load handling. Standard equipment includes full-free lift for two- and three-stage mast. Mast cushioning between stages ensures smooth operation. Heavy-duty mast and chain rollers are sealed and lubricated for life. Easy access to carriage rollers.

Operator Controls

The robust X10™ control handle is designed to allow for an optimum turning radius with low steer effort. All control buttons can be operated with either hand and can be accessed with minimum hand and wrist movement. The horn buttons are integrated in the hand grips. An ergonomic forward/reverse thumb wheel allows for precise maneuvering.

Depending on conditions and operator experience, maximum travel speed can be reduced via the rabbit/turtle switch. Exclusive brake override allows slow speed travel with the handle near vertical. This feature improves maneuverability in tight areas.

Battery

Removable side panels and top hinged cover allow easy access to battery, as well as battery change in three directions, either side or top lift out. Compartment rollers are fitted as an option.

Other Options

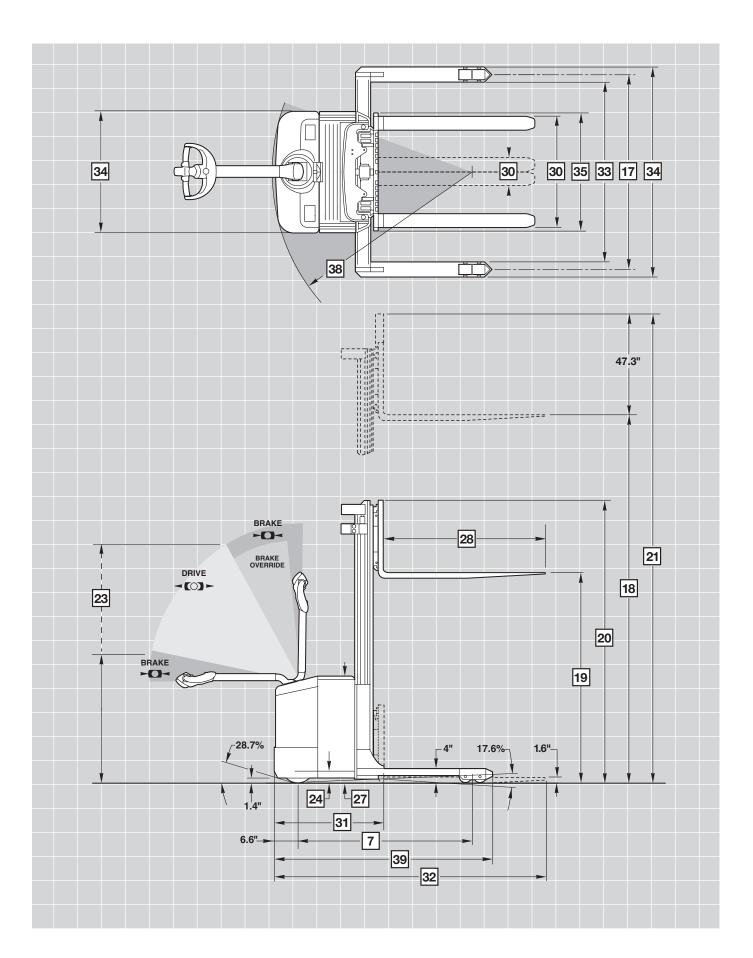
- 1. Audible travel alarm
- 2. Flashing lights

Safety considerations and dangers associated with audible travel alarms and flashing lights include:

- Multiple alarms and/or lights can cause confusion.
- Workers ignore the alarms and/or lights after day-in and day-out exposure.
- Operator may transfer the responsibility for "looking out" to the pedestrians.
- Annoys operators and pedestrians.

Dimensions and performance data given may vary due to manufacturing tolerances. Performance is based on an average size vehicle and is affected by weight, condition of truck, how it is equipped and the conditions of the operating area. Crown products and specifications are subject to change without notice.





| | 1 | Manufacturer | | | Crown Equipment Corporation | | |
|---------------------|--------|--|----------------------------|--------------------|--|---|--|
| ڃ ⊦ | 2 | Model | | | WS 2300-40 | WS 2300-40 | |
| 뜵ᅡ | | Mast Type | | | TL/TF | TT | |
| ξ̈Ι | 3 | Power | | | | | |
| General Information | 4 | Operator Type | | Electric Walkie | | | |
| <u>≒</u> ⊦ | | Load Capacity | May | lb (kg) | 4000 (1815) | 4000* (1815*) | |
| era - | 5 6 | <u> </u> | Max | | 24 (600) | | |
| e | 7 | Load Center Wheelbase | | in (mm) | , | 24 (600) | |
| ဗြ | _ | | Lasa Dattairi | in (mm) | 51 (1300) | 51 (1300) | |
| \rightarrow | 8 | Weight | Less Battery Vulkollan | lb (kg) in (mm) | 2072 (940) | 2282 (1035) | |
| - | 13 | Wheel Size Front (d x w) | · / / | | 9.8 x 3 (250 x 75) | | |
| S | 14 | Wheel Size Rear (d x w) | | | 3.3 x 2.8 (85 x 70) | | |
| Tires | 15 | Additional Wheels Caster Wheel (d x w) in (mm) | | 5.9 x 2 (150 x 50) | | | |
| ╸⊦ | 16 | Wheels (x=driven) Track Width | Front/Rear | () | 1x, 1/4 | | |
| | | | Front | in (mm) | 23 (587) 46, 54 (1167, 1370) | | |
| \rightarrow | | | Rear | in (mm) | | | |
| - | 18 | Lift Height | TI | in (mm) | 128 (3250) | 160 (4050) | |
| | 19 | Free Lift ** w/o Load Backrest | TL | lb (kg) | 4 (100) | na | |
| - | | | TF/TT** | lb (kg) | 62 (1575) | 51 (1305) | |
| - | 20 | Collapsed Height | | in (mm) | 84 (2130) | 73 (1860) | |
| - | 21 | Extended Height* | w/o Load Backrest | in (mm) | 151 (3825) | 182 (4625) | |
| - | | Outrigger Height | in (mm) | | · | 4 (100) | |
| - | 22 | Lowered Fork Height | | in (mm) | 1.6 (4) | 1.6 (40) | |
| | 23 | Tiller Arm Height in Drive Position | Min/Max | in (mm) | 31 (780) / 4 | 18 (1220) | |
| L | 24 | Battery Comp't Floor Ht | in (mm) | | 3.4 (8 | 3.4 (85) | |
| Suc | 27 | Power Unit Height | | in (mm) | 29.75 (7 | 756) | |
| Dimensions | 28 | Fork Lengths | in (mm) | | 30, 36, 42, 45, 48 (760, 9 ⁻¹ | 30, 36, 42, 45, 48 (760, 912, 1067, 1167, 1219) | |
| Jie | 29 | Fork Dimensions | Thickness | in (mm) | 1.6 (4) | 1.6 (40) | |
| ੂ ⊑ | | | Width | in (mm) | 4 (100 | 0) | |
| L | 30 | Width Across Forks | Adjustable Min/Max | in (mm) | 10 (253) / 3 | 1.1 (790) | |
| L | 31 | Headlength | | in (mm) | 31 (783) | 32 (808) | |
| L | 32 | Overall Length | at fork length 42" | in (mm) | 73 (1850) | 74 (1875) | |
| L | 33 | Inside Straddle | | in (mm) | 42, 50 (106) | 7, 1270) | |
| | 34 | Overall Width | Front | in (mm) | 33 (85 | 33 (850) | |
| L | | | Rear | in (mm) | 50, 58 (126) | 7, 1470) | |
| L | 35 | Fork Carriage Width | | in (mm) | 32.5 (8 | 32.5 (825) | |
| L | 36 | Ground Clearance | w/Load Below Mast | in (mm) | 1.4 (3. | 5) | |
| L | 37 | | Center Wheelbase | in (mm) | 1.6 (4) | 1.6 (40) | |
| | 38 | Turning Radius | | in (mm) | 59 (149 | 59 (1490) | |
| | 39 | Length Over Outrigger | in (mm) | | 60 (1535) | | |
| පු | 40 | Travel Speed | w/wo Load mph (km/h) | | 3.3 / 3.7 (5. | 3.3 / 3.7 (5.3 / 6.0) | |
| ance | 41 | Lift Speed | w/wo Load fpm (m/s) | | 26 / 43 (.10 | 26 / 43 (.13 / .22) | |
| Ē | 42 | Lowering Speed | w/wo Load fpm (m/s) | | 71 / 39 (.36 | 71 / 39 (.36 / .20) | |
| Perform | 43 | Gradeability | w/wo Load, 30 min Rating % | | 2/8 | | |
| ٣ [| 44 | Maximum Gradeability | w/wo Load, 5 min Rating % | | 7 / 17 | | |
| _ [| 45 | Service Brake | | | | Electric | |
| \neg | 46 | Maximum Battery Box | LxWxH | in (mm) | 8.5 x 32.5 x 24.7 (216 x 827 x 627) | | |
| Battery | 47 | | | 24 / 195 | | | |
| Bat | 48 | Type of Controller | Drive | | Transis | tor | |
| | | .,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | 2 | lb (kg) | 644-712 (29 | | |

English conversions are approximations. Metric conversion should be done to find true values.

Up to 144" (3658 mm), 3548 lb up to 160" (4050 mm)
 Subtract 26" (665 mm) (WS 2300-40 TF/TT) from free lift;
 Add 26" (665 mm) (WS 2300-40 TL/TF/TT) to extended height if option 47.3" (1202 mm) high load backrest is required.

Standard Equipment

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- 2. Traction speed control (MOSFET)
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- 5. Electric brake
- 6. Brake override
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- 8. Horn
- 9. Compound drive and lift motor
- Emergency power disconnect
- 11. Battery connector SB-175
- 12. Reversing button
- 13. Hour meter
- 14. Vulkollan tires

Optional Equipment

- 1. Battery compartment rollers
- Battery discharge indicator with low battery lift interrupt and hour meter
- 3. Freezer corrosion conditioning, continuous -30° C / -22° F, intermittent -40° C / -40° F
- 4. Load backrest
- Maintenance-free battery pack
- 6. Sideshift

Electrical System

24-volt electrical system incorporating:

Transistor "MOSFET"
 controller, microprocessor
 controlled with on-board
 service diagnostic capability.
 This transistor controller
 provides many benefits
 such as maximum energy
 efficiency, reduced
 maintenance and infinite
 speed control capability.

Fault Monitoring System
Through a fault flash code
signaled by an LED, 17
detectable faults can be
recognized. Using an optional
hand set, faults can be displayed
digitally. Controller settings are
programmable. Functional
tests of components are also
possible. Incorporates storage
register for fault history that can
be interrogated by service
personnel.

- Heavy-duty drive and lift motors provide high reliability and efficiency.
- Electric panel with swing-out feature, allows good accessibility and serviceability to the distribution panel and all other electrical components.
- 4. Emergency disconnect is easily accessible from all operating positions.
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Hydraulic System

- Heavy-duty compound motor and gear pump selected for optimum lift performance and low noise.
- Control block houses proportional pressure compensated flow control valve, check valve, relief valve and direction control valve to select lower function. The proportional valve ensures smooth load handling. Single speed lift and two speed lowering is available to the operator.
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Drive Unit/Brake

Heavy-duty gear box with helical spur input gear for low noise emission. Drive unit is equipped with an electromagnetic brake, spring applied, electrically released. The brake is activated by the control handle position.

Frame/Pivoting Carriage

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Mast

High visibility two- and threestage mast design features nested I-beams and canted rollers. Lift cylinders are positioned in outer I-beam profile for best visibility through mast and clear view onto fork tips during load handling. Standard equipment includes full-free lift for two- and three-stage mast. Mast cushioning between stages ensures smooth operation. Heavy-duty mast and chain rollers are sealed and lubricated for life. Easy access to carriage rollers.

Fork Carriage

WS 2300 Series features a standard 32" wide ITA Class II fork carriage. Forks are adjustable from 10" to 31". Standard fork lengths are 30", 36", 42" 45" and 48".

Operator Controls

The robust X10™ control handle is designed to allow for an optimum turning radius with low steer effort. All control buttons can be operated with either hand and can be accessed with minimum hand and wrist movement. The horn buttons are integrated in the hand grips. An ergonomic forward/reverse thumb wheel allows for precise maneuvering. Depending on conditions and operator experience, maximum travel speed can be reduced via the rabbit/turtle switch. Exclusive brake override allows slow speed travel with the handle near vertical. This feature improves maneuverability in tight areas.

Battery

Removable side panels and top hinged cover allow easy access to battery, as well as battery change in three directions, either side or top lift out.

Compartment rollers are fitted as an option.

Other Options

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- 2. Flashing lights

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- Multiple alarms and/or lights can cause confusion.
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- Annoys operators and pedestrians.

Dimensions and performance data given may vary due to manufacturing tolerances. Performance is based on an average size vehicle and is affected by weight, condition of truck, how it is equipped and the conditions of the operating area. Crown products and specifications are subject to change without notice.



Crown Equipment Corporation

New Bremen, Ohio 45869 USA **Tel** 419-629-2311

Fax 419-629-3796 crown.com

You can count on Crown to build lift trucks designed for safe operation, but that's only part of the safety equation. Crown encourages safe operating practices through ongoing operator training, safety-focused supervision, maintenance and a safe working environment. Go to crown.com and view our safety section to learn more.

Because Crown is continually improving its products, specifications are subject to change without notice.

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