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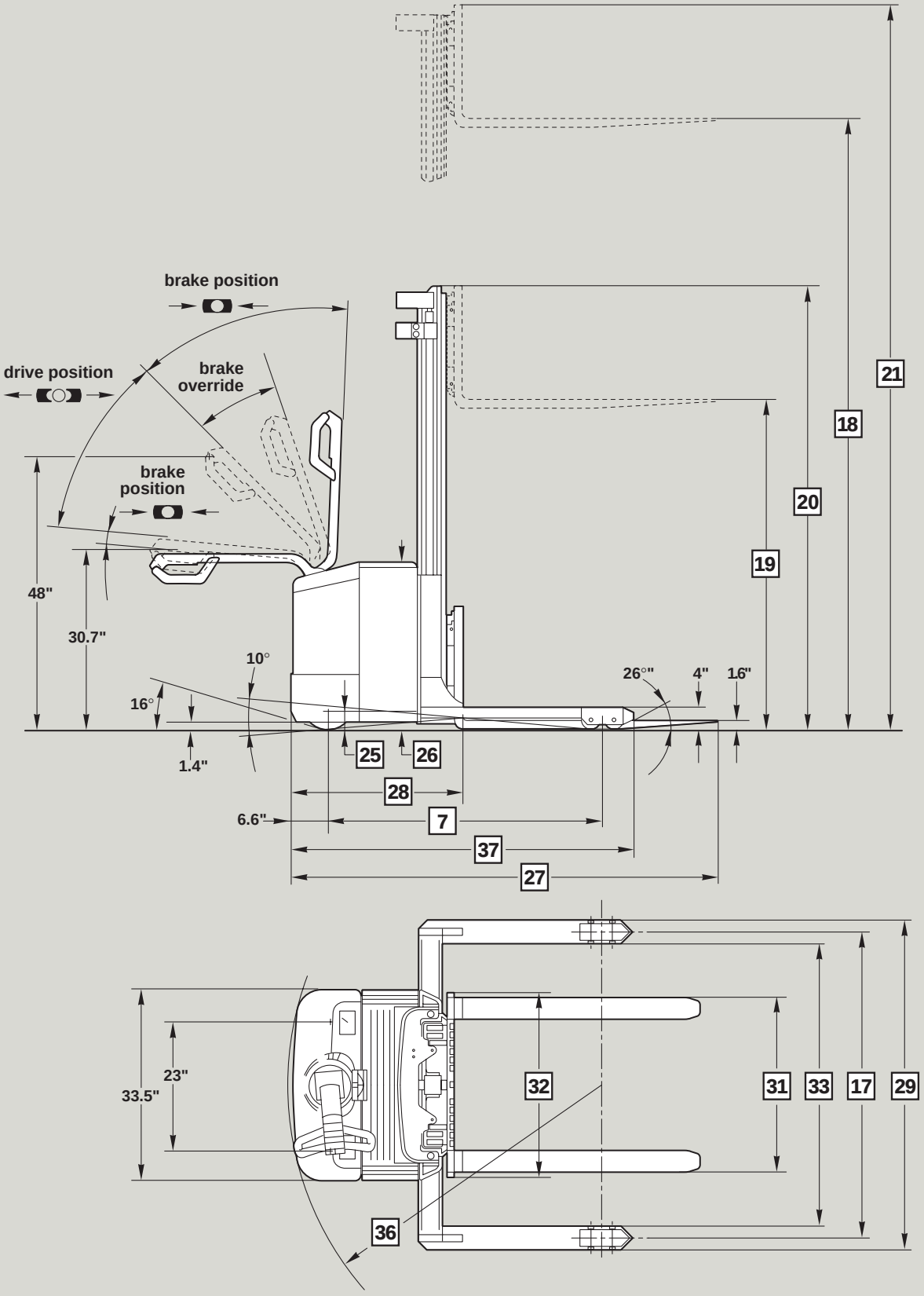
WE/WS 2000 Series
walkie stackers





technical
specifications

WS Series
walkie stacker



Standard Equipment
1. 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.
9. Compound drive and lift motor.
10. Emergency power disconnect.
11. Battery connector SB-175.
12. Reversing button.
13. Hour meter.
14. Vulkollan tires.

Optional Equipment
1. Pivoting tandem load wheels 3.2" x 2.3"/82 x 60 mm (WE 2000-25 only).
2. Battery compartment rollers.
3. Battery discharge indicator with low battery lift interrupt and hour meter.
4. Freezer corrosion conditioning, continuous -30° C / -22° F, intermittent - 40° C / - 40° F.
5. Load backrest.

Electrical System
24 volt electrical system incorporating:
1. 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.
2. Heavy-duty drive and lift motors provide high reliability and efficiency.
3. 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.
6. Control and power circuits are fused. Distribution panel and controller are short circuit protected.
7. All wiring is color coded.

Hydraulic System
1. Heavy-duty compound motor and gear pump selected for optimum lift performance and low noise.
2. 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.
3. Cylinder rods are hard plated chrome with polyurethane seals.
4. 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 electro-magnetic 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 swing out door design allows easy access to all components.

Mast
High visibility two and three stage 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.

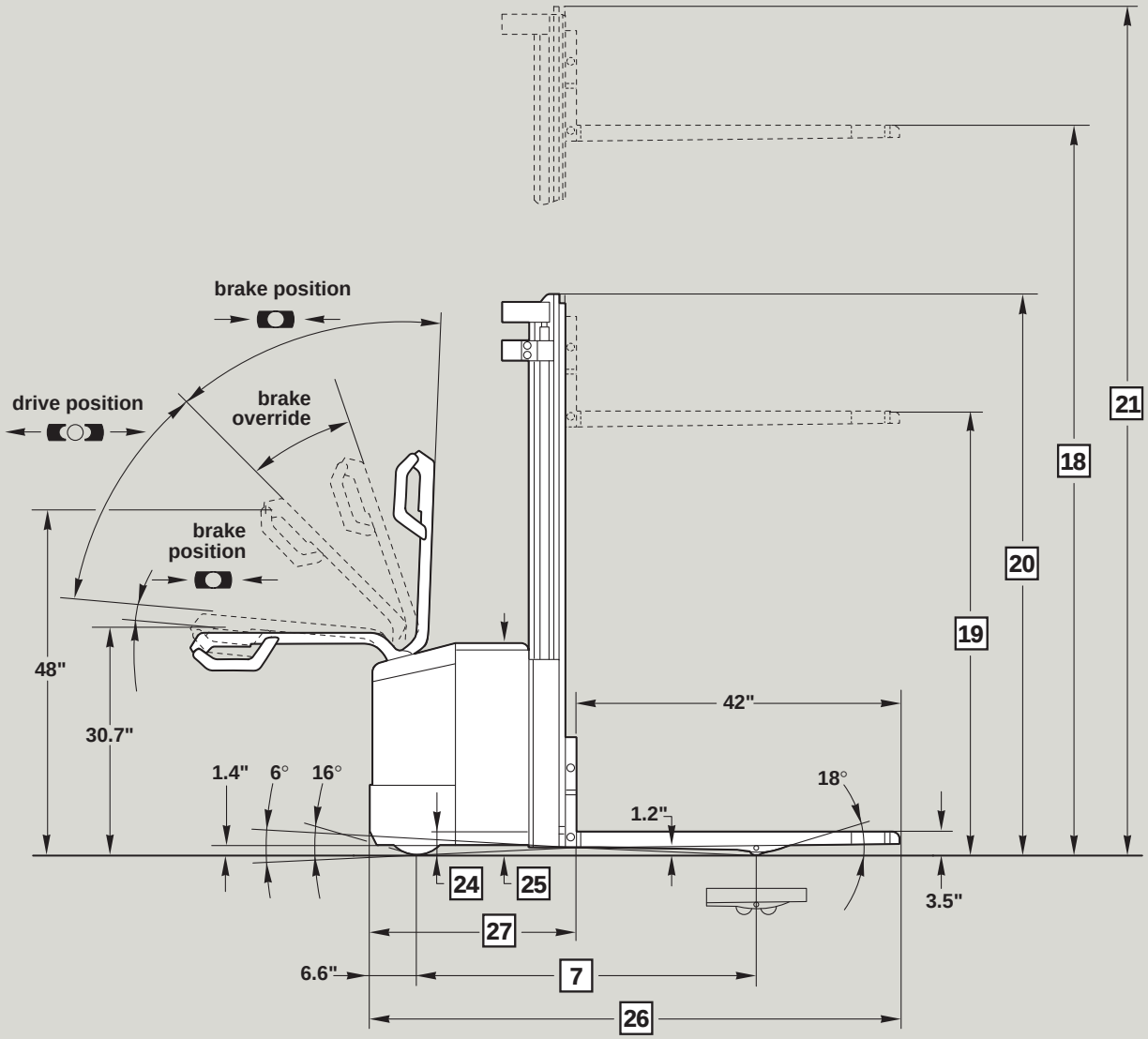
Control Handle / Steering
Full function control handle design includes direction of travel, raise, lower and reversing button. The brake is also activated by control handle position. Brake override is possible by releasing and repressing the "cam" direction switch in the control handle. The operator may then drive slowly while the handle is in the "brake override" position.

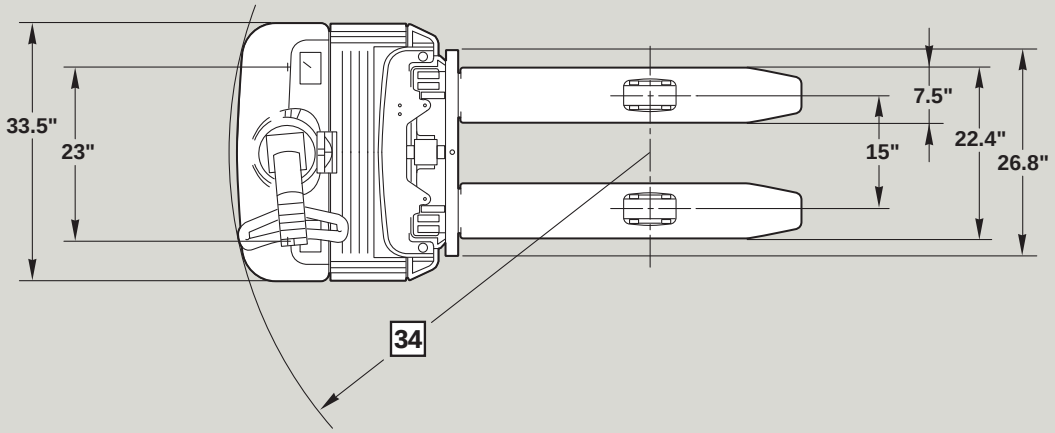
Battery
Removable side panels and top hinged cover allow easy access to battery, as well as battery change in three directions, either side or top lift out. Compartment rollers are fitted as an option.

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.


brake position
drive position
brake override
brake position
48"
30.7"
1.4"
6°
16°
18°
1.2"
42"
21
18
20
19
24
25
27
6.6"
7
26
3.5"


33.5"
23"
7.5"
15"
22.4"
26.8"
34

				English measurement				Metric		
General Information	1	**Manufacturer**		**Crown Equipment Corporation**				**Crown Equipment Corporation**		
	2	**Model**		WE 2000-25 TL/TF	WE 2000-30 TL/TF	WE 2000-30 TT		WE 2000-25 TL/TF	WE 2000-30 TL/TF	WE 2000-30 TT
	3	**Power**		electric				electric		
	4	**Operator Type**		walkie				walkie		
	5	**Load Capacity**	lb	2500	3000**	3000***	metric ton	1.13	1.36**	1.36***
	6	**Load Center**	in	24	24	24	mm	600	600	600
	7	**Wheel Base**	in	47	50	51	mm	1206	1280	1305
Weight	8	**Weight**	less battery lb	1907	2072	2282	kg	865	940	1035
	9	**Axle Load**	with load front/rear lb	1852/3417	1962/4244	1962/4244	kg	840/1550	890/1925	890/1925
	10	**Axle Load**	w/o load front/rear lb	1819/694	1918/750	1918/750	kg	825/315	870/340	870/340
Tires	11	**Tire Type**		vulkollan				vulkollan		
	12	**Wheel Size**	front (d x w) in	9.8x3			mm	250x75		
	13	**Wheel Size**	rear (d x w) in	3.2x4	3.2x2.3	3.2x2.3	mm	82x100	82x60	82x60
	14	**Additional Wheels**	caster wheel (d x w) in	5.9x2			mm	150x50		
	15	**Wheels**	number (x=driven) front/rear	1x, 1/2	1x, 1/4	1x, 1/4		1x, 1/2	1x, 1/4	1x, 1/4
	16	**Track Width**	front in	23			mm	587		
	17	**Track Width**	rear in	15			mm	382		
Dimensions	18	**Lift Height**	in	130	130	161	mm	3300	3300	4100
	19	**Free Lift***	w/o load backrest - TL in	6	6	na	mm	150	150	na
			w/o load backrest - TF/TT* in	68	68	57	mm	1720	1720	1450
	20	**Collapsed Height**	in	84	84	73	mm	2130	2130	1860
	21	**Extended Height***	w/o lbr. in	147	147	178	mm	3730	3730	4530
	22	**Tiller Arm Height**	in drive position min/max in	31/48			mm	780/1220		
	23	**Lowered Fork Height**	in	3.5			mm	90		
	24	**Batt. Comp. Floor Hght.**	in	3.4			mm	85		
	25	**Power Unit Height**	in	29.75			mm	756		
	26	**Overall Length**	at fork length: 42"/1067mm in	71	72	73	mm	1803	1829	1854
	27	**Headlength**	in	29	30	31	mm	730	753	778
	28	**Overall Width**	in	33			mm	850		
	29	**Fork Dimensions**	thickness in	2			mm	50		
			width in	7.5			mm	190		
			length in	36, 42, 48			mm	914, 1067, 1219		
	30	**Width Across Forks**	in	22.4, 27			mm	570, 686		
	31	**Fork Carriage Width**	in	27			mm	680		
	32	**Ground Clearance**	with load below mast in	1.4			mm	35		
	33	**Ground Clearance**	center wheelbase in	1.2			mm	30		
	34	**Turning Radius**	in	55	58	59	mm	1400	1475	1500
Performance	35	**Travel Speed**	with/ w/o load mi/hr	3.3/3.7			km/hr	5.3/6.0		
	36	**Lift Speed**	with/ w/o load fpm	31/51	28/43	28/43	m/s	.16/.26	.14/.22	.14/.22
	37	**Lowering Speed**	with/ w/o load fpm	71/43	71/43	71/39	m/s	.36/.22	.36/.22	.36/.20
	38	**Gradeability**	with/ w/o load, 30 min. rating %	3/9	3/8	3/8		3/9	3/8	3/8
	39	**Max. Gradeability**	with/ w/o load, 5 min. rating %	9/17	8/17	8/17		9/17	8/17	8/17
	40	**Service Brake**		electric				electric		
Battery	41	**Maximim Battery Box**	LxWxH in	8.5x32.5x24.7			mm	216x827x627		
	42	**Battery Voltage**	nominal capacity 6h rating V/Ah	24/240				24/240		
	43	**Type of Controller**	drive	transistor				transistor		
	44	**Battery Weight**	lb	644-712			kg	292-323		

* Subtract 32"/810mm from free lift; add 32"/810mm to extended height if optional 47.25" high load backrest is required.
** Up to 110"/2800mm, 2910 lb up to 130"/3300mm
*** Up to 118"/3000mm, 2248 lb up to 161"/4100mm

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

As with all performance specifications, actual speeds will depend on how the truck is equipped, component tolerances, break-in period, truck weight, tire selection, floor condition and grade, ambient temperature and battery condition. When specifications are critical, see your Crown dealer for more help with your application.

Standard Equipment
1. 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.
9. Compound drive and lift motor.
10. Emergency power disconnect.
11. Battery connector SB-175.
12. Reversing button.
13. Hour meter.
14. Vulkollan tires.

Optional Equipment
1. Battery compartment rollers.
2. 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.
5. 42" forks.

Electrical System
24 volt electrical system incorporating:
1. 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.
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4. Emergency disconnect is easily accessible from all operating positions.
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6. Control and power circuits are fused. Distribution panel and controller are short circuit protected.
7. All wiring is color coded.

Hydraulic System
1. Heavy-duty compound motor and gear pump selected for optimum lift performance and low noise.
2. 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.
3. Cylinder rods are hard plated chrome with polyurethane seals.
4. 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 electro-magnetic 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 swing out door design allows easy access to all components.

Mast
High visibility two and three stage 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-model features a standard fork carriage ISO class 2A, width across forks adjustable from 10"/253 mm to 31"/790 mm. For WS, the fork length of 39"/ 1067 mm is standard, optional fork lengths are available.

Control Handle / Steering
Full function control handle design includes direction of travel, raise, lower and reversing button. The brake is also activated by control handle position. Brake override is possible by releasing and repressing the "cam" direction switch in the control handle. The operator may then drive slowly while the handle is in the "brake override" position.

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.
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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.

				English measurement				Metric		
General Information	1	**Manufacturer**		**Crown Equipment Corporation**				**Crown Equipment Corporation**		
	2	**Model**		WS 2000-30 TL/TF	WS 2000-40 TL/TF	WS 2000-40 TT		WS 2000-30 TL/TF	WS 2000-40 TL/TF	WS 2000-40 TT
	3	**Power**		electric				electric		
	4	**Operator Type**		walkie				walkie		
	5	**Load Capacity**	lb	3000	4000	4000*	metric ton	1.35	1.8	1.8*
	6	**Load Center**	in	24	24	24	mm	600	600	600
	7	**Wheel Base**	in	48	51	51	mm	1220	1300	1300
Weight	8	**Weight**	less battery lb	1907	2072	2282	kg	865	940	1035
	9	**Axle Load**	with load front/rear lb	1896/3616	2006/4630	2006/4630	kg	860/1640	910/2100	910/2100
	10	**Axle Load**	w/o load front/rear lb	1830/705	1918/750	1918/750	kg	830/320	870/340	870/340
Tires	11	**Tire Type**		vulkollan				vulkollan		
	12	**Wheel Size**	front (d x w) in	9.8x3			mm	250x75		
	13	**Wheel Size**	rear (d x w) in	3.3x2.8			mm	85x70		
	14	**Additional Wheels**	caster wheel (d x w) in	5.9x2			mm	150x50		
	15	**Wheels**	number (x=driven) front/rear	1x, 1/4				1x, 1/4		
	16	**Track Width**	front in	23			mm	587		
	17	**Track Width**	rear in	46, 54			mm	1167, 1370		
Dimensions	18	**Lift Height**	in	128	128	160	mm	3250	3250	4050
	19	**Free Lift****	w/o load backrest - TL in	4	4	na	mm	100	100	na
			w/o load backrest - TF/TT** in	64	62	51	mm	1620	1575	1305
	20	**Collapsed Height**	in	84	84	73	mm	2130	2130	1860
	21	**Extended Height****	w/o lbr. in	149	151	182	mm	3780	3825	4625
	22	**Tiller Arm Height**	in drive position min/max in	31/48			mm	780/1220		
	23	**Outrigger Height**	in	4			mm	100		
	24	**Lowered Fork Height**	in	1.6			mm	40		
	25	**Batt. Comp. Floor Hght.**	in	3.4			mm	85		
	26	**Power Unit Height**	in	29.75			mm	756		
	27	**Overall Length**	at fork length: 42"/1067 mm in	72	73	74	mm	1827	1850	1875
	28	**Headlength**	in	30	31	32	mm	760	783	808
	29	**Overall Width**	front in	33			mm	850		
			rear in	50, 58			mm	1267, 1470		
	30	**Fork Dimensions**	thickness x width in	1.6x4			mm	40x100		
	31	**Width Across Forks**	adjustable min/max in	10/31.1			mm	253/790		
	32	**Fork Carriage Width**	in	32.5			mm	825		
	33	**Inside Straddle**	in	42, 50			mm	1067, 1270		
	34	**Ground Clearance**	with load below mast in	1.4			mm	35		
	35	**Ground Clearance**	center wheelbase in	2	1.6	1.6	mm	50	40	40
	36	**Turning Radius**	in	56	59	59	mm	1415	1490	1490
Performance	37	**Length Over Outrigger**	in	57	60	60	mm	1460	1535	1535
	38	**Travel Speed**	with/ w/o load mi/hr	3.3/3.7			km/hr	5.3/6		
	39	**Lift Speed**	with/ w/o load fpm	30/51	26/43	26/43	m/s	.15/.26	.13/.22	.13/.22
	40	**Lowering Speed**	with/ w/o load fpm	71/41	71/39	71/39	m/s	.36/.21	.36/.20	.36/.20
	41	**Gradeability**	with/ w/o load, 30 min. rating %	3/9	2/8	2/8		3/9	2/8	2/8
	42	**Max. Gradeability**	with/ w/o load, 5 min. rating %	9/17	7/17	7/17		9/17	7/17	7/17
	43	**Service Brake**		electric				electric		
Battery	44	**Maximim Battery Box**	LxWxH in	8.5x32.5x24.7			mm	216x827x627		
	45	**Battery Voltage**	nominal capacity 6h rating V/Ah	24/240				24/240		
	46	**Type of Controller**	drive	transistor				transistor		
	47	**Battery Weight**	lb	644-712			kg	292-323		

* Up to 144"/3658mm, 3548 lb up to 160"/4050mm

** Subtract 28"/710mm (WS 2000-30 TF) and 26"/665mm (WS 2000-40 TF/TT) from free lift; add 28"/710mm (WS 2000-30 TL/TF) and 26"/665mm (WS 2000-40 TL/TF/TT) to extended height if optional 47.25" high load backrest is required.

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

As with all performance specifications, actual speeds will depend on how the truck is equipped, component tolerances, break-in period, truck weight, tire selection, floor condition and grade, ambient temperature and battery condition. When specifications are critical, see your Crown dealer for more help with your application.



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Products
Group

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