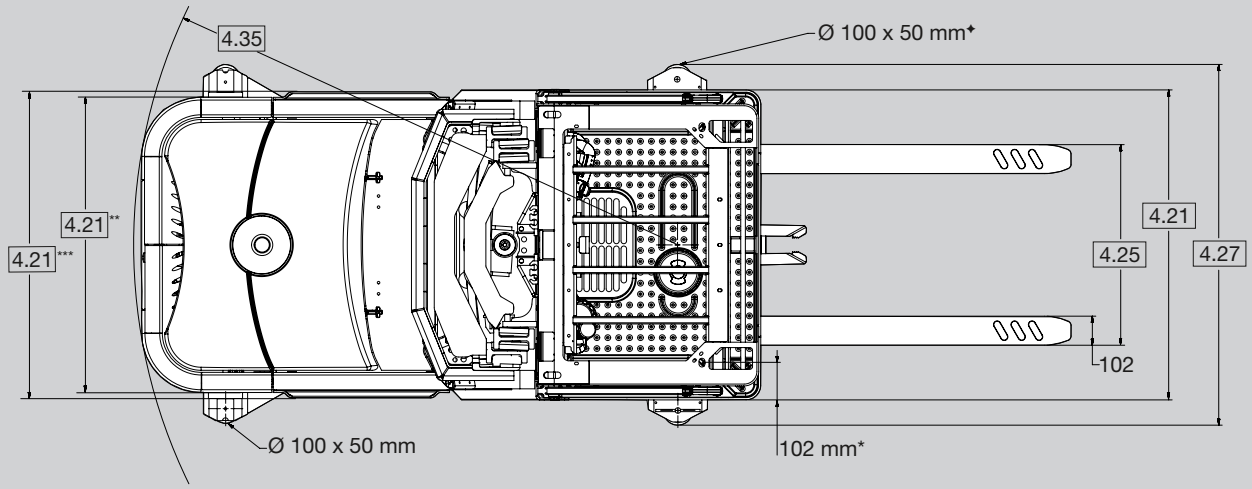
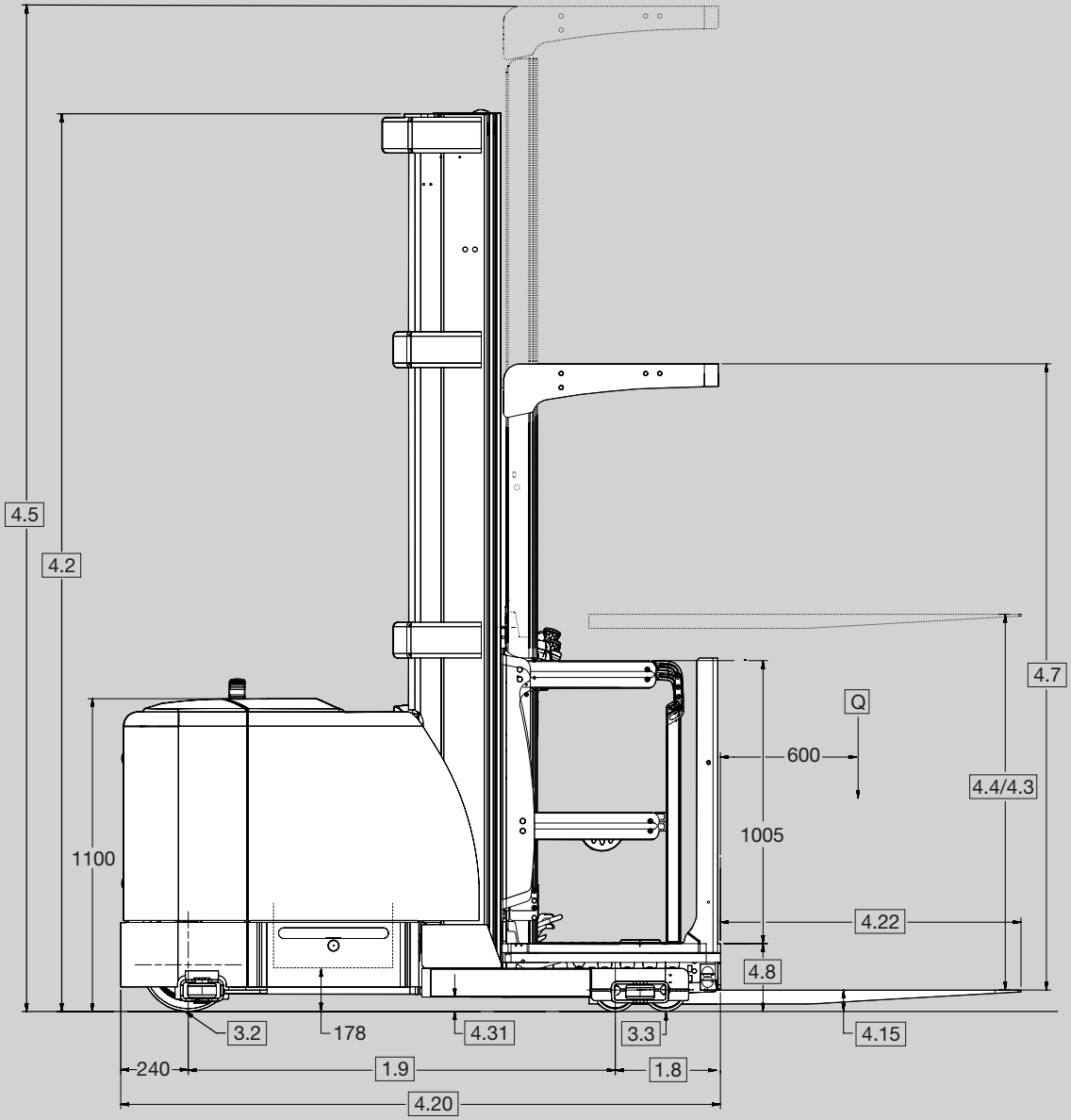
SP 1500 SERIES

Specifications

High-level order picker





* 140 mm when 4.4 is greater than 6,095 up to 8,840 mm
203 mm when 4.4 is greater than 8,840 mm
** Overall width front
*** Overall width rear

✦ Ø 65 × 50 mm, tip mounted if WAGR minus OW (4.27-4.21) = 20 mm to 139 mm
Ø 65 × 50 mm, side mounted if WAGR minus OW (4.27-4.21) = 140 mm to 209 mm
Ø 100 × 50 mm, side mounted if WAGR minus OW (4.27-4.21) = 210 mm to 590 mm
WAGR = Width Across Guide Rollers, OW = Overall Width (rear)

SP 1510 Series

High-level order picker
fixed forks

Distinguishing mark	1.1	**Manufacturer**				Crown Equipment Corporation			
	1.2	**Model**				SP 1510-1.25			
	1.3	**Power source**	Electric		Volt	24 / 48			
	1.4	**Operator type**				Order picker			
	1.5	**Rated capacity ***		Q	t	1.25			
	1.6	**Load centre**		c	mm	600			
	1.8	**Load distance**		x	mm	336			
		Battery compartment				B	C	D	E
	1.9	**Wheelbase**	TL	y	mm	1,320	1,380	1,420	1,490
			TT	y	mm	1,305	1,360	1,405	1,470
Weight	2.1	**Service weight ****	Less battery		kg	2,900	2,830	2,840	2,860
	2.2	**Axle load ****	With load, front / rear		kg	1,255 / 3,695	1,359 / 3,741	1,453 / 3,785	1,560 / 3,841
	2.3	**Axle load ****	Without load, front / rear		kg	2,066 / 1,634	2,138 / 1,713	2,211 / 1,779	2,284 / 1,867
Tyres/wheels/ chassis	3.1	**Tyres**				Polyurethane / Vulkollan			
	3.2	**Tyre size**	Front		mm	Ø 330 × 140			
	3.3	**Tyre size**	Rear		mm	Ø 152 × 70 ***			
	3.5	**Wheels**	Number front/rear (x=drive wheels)			4/1x			
Dimensions	4.2	**Mast collapsed height**		h_1	mm	see table 1, 2 and 3			
	4.3	**Free-lift**		h_2	mm	see table 1, 2 and 3			
	4.4	**Lift height**		h_3	mm	see table 1, 2 and 3			
	4.5	**Mast extended height**		h_4	mm	see table 1, 2 and 3			
	4.7	**Overhead guard height**		h_6	mm	see table 1, 2 and 3			
	4.8	**Seat height relating to SIP/stand height** lowered		h_7	mm	240			
	4.14	**Stand height**	Elevated	h_{12}	mm	see table 1, 2 and 3			
	4.15	**Fork height**	Lowered	h_{13}	mm	75.5			
	4.20	**Head length**	TL	l_2	mm	1,895	1,955	2,000	2,065
			TT	l_2	mm	1,915	1,975	2,015	2,085
	4.21	**Overall width**	Front/rear	b_1/b_2	mm	see table 1, 2 and 3			
			Operator platform	b_9	mm	see table 1, 2 and 3			
	4.22	**Fork dimensions** DIN ISO 2331	Standard	sxexl	mm	1,145 × 102 × 51			
			Optional length	l	mm	760/915/990/1,065/1,220/1,370/1,525/1,830/2,135			
	4.25	**Fork spread**	Min – max.	b_5	mm	610–762			
	4.27	**Width across side roller**		b_6	mm	see table 1, 2 and 3			
	4.31	**Ground clearance**	With load below mast	m_1	mm	50			
	4.35	**Turning radius**	TL	Wa	mm	1,780	1,835	1,875	1,945
			TT	Wa	mm	1,760	1,815	1,855	1,925
Performance data	5.1	**Travel speed**	Power unit first, With load / without load		km/h	12 / 12			
	5.2	**Lift speed**	With load / without load	24 V	m/s	0.22 / 0.36			
			With load / without load	48 V std.	m/s	0.50 / 0.56			
			With load / without load	48 V opt.	m/s	0.50 / 0.71			
	5.3	**Lowering speed**	With load / without load	24 V	m/s	0.41 / 0.41			
			With load / without load	48 V std.	m/s	0.41 / 0.41			
			With load / without load	48 V opt.	m/s	0.56**** / 1.04			
	5.10	**Service brake**	Service			regenerative			
			Park			electro-magnetic			
Electric motor	6.1	**Traction motor**	Rating at S2 60 min	24 V	kW	3.9			
			Rating at S2 60 min	48 V	kW	4.8			
	6.2	**Pump motor**	Rating at S3 15%	24 V	kW	15.0			
			Rating at S3 15%	48 V	kW	15.0			
	6.3	**Max. battery box size**	DIN 43531	l × w × h	mm	984 × 371 × 787	984 × 429 × 787	984 × 470 × 787	984 × 536 × 787
	6.4	**Battery voltage**	Voltage		V	24 / 48			
			Max. ampere		Ah	1,050 / 735			
	6.5	**Battery weight**	Min	24 V	kg	690	910	1,035	1,180
				48 V	kg	775	910	1,035	1,180
	8.1	**Drive unit**				AC traction			

* Capacity may be subject to derating if longer load centre (fork length) or wider platform width is required

** Values shown with TT mast 6,095 mm lift height, 2,720 mm collapsed height, 1,065 mm overall width and platform width

*** Ø 152 × 108 mm if max. lift height 4.4 is 7,010 mm or greater

**** With load >680 kg. Below 680 kg remains 1.04 m/s

Table 1 Standard straddle

					SP 1510							
					TL					TT		
4.2	**Mast collapsed height**		h_1	mm	2,265*	2,415	2,720	3,025	3,330	2,265*	2,415	2,720
4.3	**Free-lift**		h_2	mm	75	150				75	180	330
4.4	**Lift height**		h_3	mm	**3,425**	**3,730**	**4,340**	**4,900**	**5,410**	**4,950**	**5,330**	**6,095**
4.5	**Mast extended height**		h_4	mm	5,690	5,995	6,605	7,165	7,675	7,215	7,595	8,360
4.7	**Overhead guard height**		h_6		2,225							
4.14	**Operator stand height**	Raised	h_{12}	mm	3,595	3,900	4,510	5,070	5,580	5,120	5,500	6,265
4.21	**Overall width**	Front / rear	b_2	mm	1,015 / 1,065							
		Operator platform		mm	1,065							
4.27	**Width across side roller**	In 6.5 mm increments	b_6	mm	1,156–1,658							

* Overall collapsed height 2,315 mm

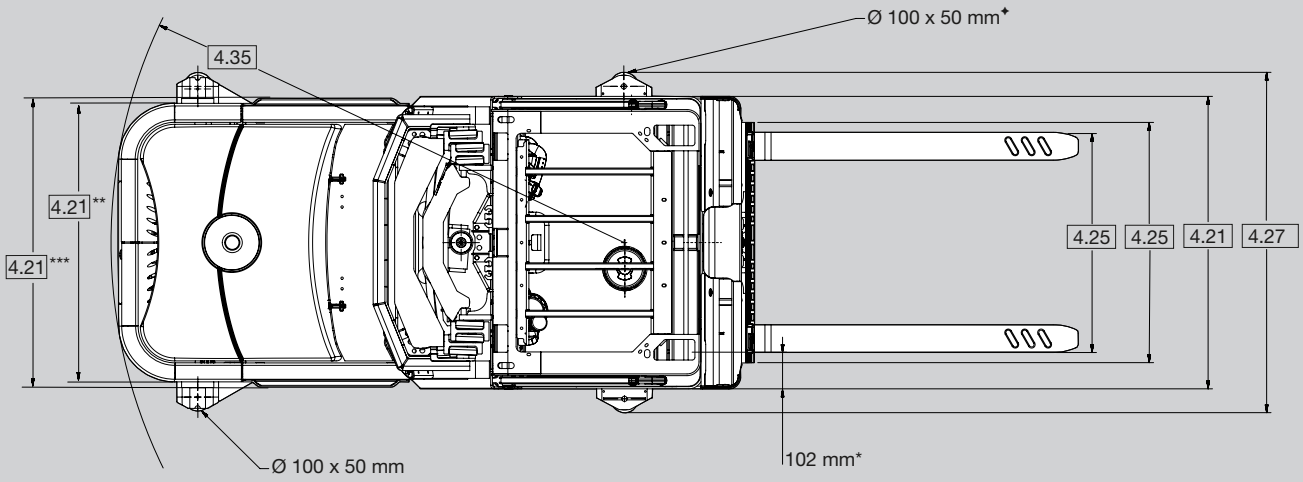
Table 2 Standard straddle

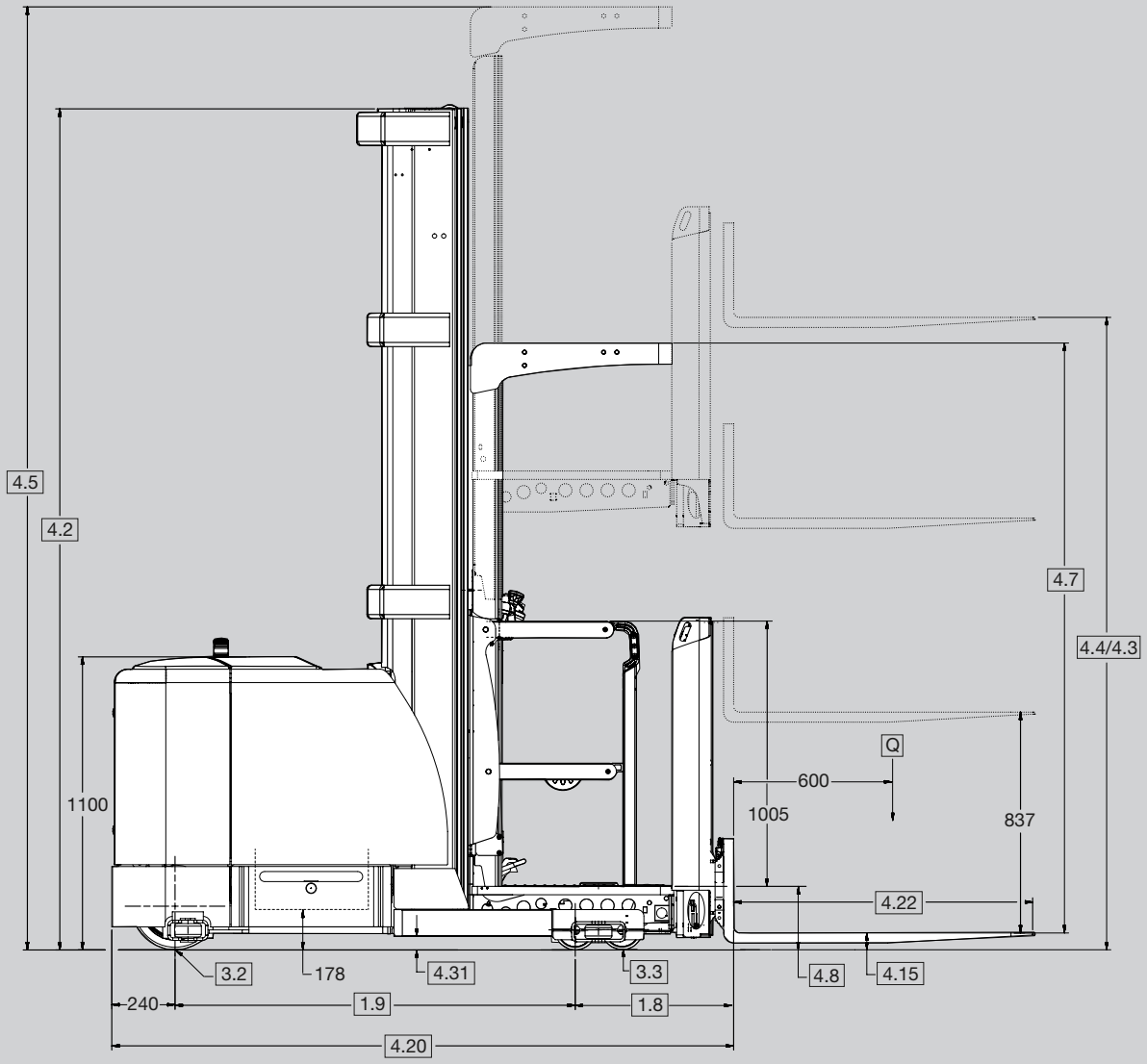
					SP 1510							
					TT							
4.2	**Mast collapsed height**		h_1	mm	3,025	3,175	3,330	3,635	3,785	3,940	4,090	4,345
4.3	**Free-lift**		h_2	mm	635	780	940	1,245	1,395	1,550	1,700	1,955
4.4	**Lift height**		h_3	mm	**7,010**	**7,465**	**7,920**	**8,380**	**8,835**	**9,295**	**9,750**	**10,210**
4.5	**Mast extended height**		h_4	mm	9,275	9,730	10,190	10,645	11,100	11,560	12,015	12,475
4.7	**Overhead guard height**		h_6		2,225							
4.14	**Operator stand height**	Raised	h_{12}	mm	7,180	7,635	8,095	8,550	9,005	9,465	9,920	10,380
4.21	**Overall width**	Front / rear	b_2	mm	1,015 / 1,220	1,270 / 1,375		1,345 / 1,375	1,420 / 1,525		1,420 / 1,625	
		Operator platform		mm	1,220	1,375			1,525		1,625	
4.27	**Width across side roller**	In 6.5 mm increments	b_6	mm	1,240–1,810	1,390–1,962	1,390–1,962	1,440–2,013	1,543–2,115	1,543–2,115	1,644–2,216	1,644–2,216

Table 3 Narrow straddle

					SP 1510				
					TT				
4.2	**Mast collapsed height**		h_1	mm	3,175	3,330	3,635	3,785	3,940
4.3	**Free-lift**		h_2	mm	780	940	1,245	1,395	1,500
4.4	**Lift height**		h_3	mm	**7,465**	**7,920**	**8,380**	**8,835**	**9,295**
4.5	**Mast extended height**		h_4	mm	9,730	10,190	10,645	11,100	11,560
4.7	**Overhead guard height**		h_6		2,225				
4.14	**Operator stand height**	Raised	h_{12}	mm	7,635	8,095	8,550	9,005	9,465
4.21	**Overall width**	Front / rear	b_2	mm	1,015/1,220		1,015/1,320	1,270/1,425	1,345/1,425
		Operator platform		mm	1,220			1,375	
4.27	**Width across side roller**	In 6.5 mm increments	b_6	mm	1,240–1,810	1,156–1,658	1,240–1,810	1,440–2,013	1,440–2,013

Max. capacity: 1,250 kg for collapsed heights up to 4,090 mm
1,100 kg for collapsed heights greater than 4,090 mm and up to 4,345 mm





* 140 mm when 4.4 is greater than 6,910 up to 9,195 mm
203 mm when 4.4 is greater than 9,195 mm
** Overall width front
*** Overall width rear

✦ Ø 65 × 50 mm, tip mounted if WAGR minus OW (4.27-4.21) = 20 mm to 139 mm
Ø 65 × 50 mm, side mounted if WAGR minus OW (4.27-4.21) = 140 mm to 209 mm
Ø 100 × 50 mm, side mounted if WAGR minus OW (4.27-4.21) = 210 mm to 590 mm
WAGR = Width Across Guide Rollers, OW = Overall Width (rear)

SP 1520 Series High-level order picker auxiliary mast

Distinguishing mark	1.1	**Manufacturer**				Crown Equipment Corporation			
	1.2	**Model**				SP 1520-1.0			
	1.3	**Power source**	Electric		Volt	24 / 48			
	1.4	**Operator type**				Order picker			
	1.5	**Rated capacity ***		Q	t	1.0			
	1.6	**Load centre**		c	mm	600			
	1.8	**Load distance**		x	mm	565			
		Battery compartment				B	C	D	E
	1.9	**Wheelbase**	TL	y	mm	1,320	1,380	1,420	1,490
			TT	y	mm	1,305	1,360	1,405	1,470
Weight	2.1	**Service weight ****	Less battery		kg	3,105	3,040	3,050	3,070
	2.2	**Axle load ****	With load, front / rear		kg	1,129 / 3,780	1,238 / 3,822	1,335 / 3,862	1,447 / 3,913
	2.3	**Axle load ****	Without load, front / rear		kg	1,941 / 1,968	2,018 / 2,041	2,093 / 2,104	2,173 / 2,178
Tyres/wheels/ chassis	3.1	**Tyres**				Polyurethane / Vulkollan			
	3.2	**Tyre size**	Front		mm	Ø 330 × 140			
	3.3	**Tyre size**	Rear		mm	Ø 152 × 70 ***			
	3.5	**Wheels**	Number front/rear (x=drive wheels)			4/1x			
Dimensions	4.2	**Mast collapsed height**		h_1	mm	see table 4 and 5			
	4.3	**Free-lift**		h_2	mm	see table 4 and 5			
	4.4	**Lift height**		h_3	mm	see table 4 and 5			
	4.5	**Mast extended height**		h_4	mm	see table 4 and 5			
	4.7	**Overhead guard height**		h_6	mm	see table 4 and 5			
	4.8	**Seat height relating to SIP/stand height** lowered		h_7	mm	240			
	4.14	**Stand height**	Elevated	h_{12}	mm	see table 4 and 5			
	4.15	**Fork height**	Lowered	h_{13}	mm	64			
	4.20	**Head length**	TL	l_2	mm	2,125	2,185	2,225	2,290
			TT	l_2	mm	2,145	2,200	2,245	2,310
	4.21	**Overall width**	Front/rear	b_1/b_2	mm	see table 4 and 5			
			Operator platform	b_9	mm	see table 4 and 5			
	4.22	**Fork dimensions** DIN ISO 2331	Standard	sxexl	mm	1,145 × 102 × 38			
			Optional length	l		760/915/990/1,070/1,220			
	4.24	**Fork carriage width**		b_3		876			
	4.25	**Fork spread**	Min – max.	b_5	mm	205–840			
	4.27	**Width across side roller**		b_6	mm	see table 4 and 5			
	4.31	**Ground clearance**	With load below mast	m_1	mm	50			
	4.35	**Turning radius**	TL	Wa	mm	1,780	1,835	1,875	1,945
			TT	Wa	mm	1,760	1,815	1,855	1,925
Performance data	5.1	**Travel speed**	Power unit first, With load / without load		km/h	12 / 12			
	5.2	**Lift speed**	With load / without load	24 V	m/s	0.22 / 0.36			
			With load / without load	48 V std.	m/s	0.50 / 0.56			
			With load / without load	48 V opt.	m/s	0.50 / 0.71			
	5.3	**Lowering speed**	With load / without load	24 V	m/s	0.41 / 0.41			
			With load / without load	48 V std.	m/s	0.41 / 0.41			
			With load / without load	48 V opt.	m/s	0.56**** / 1.04			
	5.10	**Service brake**	Service			regenerative			
			Park			electro-magnetic			
Electric motor	6.1	**Traction motor**	Rating at S2 60 min	24 V	kW	3.9			
			Rating at S2 60 min	48 V	kW	4.8			
	6.2	**Pump motor**	Rating at S3 15%	24 V	kW	15.0			
			Rating at S3 15%	48 V	kW	15.0			
	6.3	**Max. battery box size**	DIN 43531	l × w × h	mm	984 × 371 × 787	984 × 429 × 787	984 × 470 × 787	984 × 536 × 787
	6.4	**Battery voltage**	Voltage		V	24 / 48			
			Max. ampere		Ah	1,050 / 735			
	6.5	**Battery weight**	Min	24 V	kg	690	910	1,035	1,180
				48 V	kg	775	910	1,035	1,180
	8.1	**Drive unit**				AC traction			

* Capacity may be subject to derating if longer load centre (fork length) or wider platform width is required;
** Values shown with TT mast 6,910 mm lift height, 2,720 mm collapsed height, 1,220 mm overall width and platform width
*** Ø 152 × 108 mm if max lift height 4.4 is 7,820 mm or greater
**** With load >680 kg. Below 680 kg remains 1.04 m/s

Table 4 Standard straddle

					SP 1520								
					TL					TT			
4.2	**Mast collapsed height**		h_1	mm	2,265*	2,415	2,720	3,025	3,330	2,265*	2,415	2,720	3,025
4.3	**Free-lift**		h_2	mm	875	950				830	965	1,145	1,445
4.4	**Lift height**	Including auxiliary lift	h_3	mm	**4,240**	**4,545**	**5,155**	**5,715**	**6,220**	**5,765**	**6,145**	**6,905**	**7,820**
4.5	**Mast extended height**		h_4	mm	5,690	5,995	6,605	7,165	7,675	7,215	7,595	8,360	9,275
4.7	**Overhead guard height**		h_6		2,240								
4.14	**Operator stand height**	Raised	h_{12}	mm	3,595	3,900	4,510	5,070	5,575	5,120	5,500	6,260	7,175
4.21	**Overall width**	Front / rear	b_2	mm	1,015 / 1,065							1,015 / 1,220	1,270 / 1,375
		Operator platform		mm	1,065							1,220	1,375
4.27	**Width across side roller**	In 6.5 mm increments	b_6	mm	1,090–1,661							1,238 / 1,809	1,389 / 1,960

* Overall collapsed height 2,315 mm

Table 5 Standard straddle

					SP 1520			
					TT			
4.2	**Mast collapsed height**		h_1	mm	3,175	3,330	3,635	3,785
4.3	**Free-lift**		h_2	mm	1,600	1,750	2,055	2,205
4.4	**Lift height**	Including auxiliary lift	h_3	mm	**8,280**	**8,735**	**9,190**	**9,650**
4.5	**Mast extended height**		h_4	mm	9,730	10,190	10,645	11,100
4.7	**Overhead guard height**		h_6		2,240			
4.14	**Operator stand height**	Raised	h_{12}	mm	7,635	8,090	8,550	9,005
4.21	**Overall width**	Front / rear	b_2	mm	1,270 / 1,375	1,345 / 1,425	1,420 / 1,525	
		Operator platform		mm	1,375	1,375	1,525	
4.27	**Width across side roller**	In 6.5 mm increments	b_6	mm	1,389–1,960	1,439–2,010	1,544–2,115	

Max. capacity: 1,000 kg for collapsed heights up to 3,785 mm

Standard equipment

1. Gena operating system
2. 24 or 48-volt electrical system
3. AC lift, traction and steer motors
4. Linear height speed control gradually reduces travel speed as the platform raises
5. Variable lift/lower
6. Regenerative lower
7. Programmable lift/lower cutouts (up to 6)
   - Zone select: designate lift/lower cutouts into 3 separate zones
8. OnTrac anti-slip traction control
9. Intelligent braking system combines the optimum amount of friction and plugging
10. Intelligent steering system automatically slows the travel speed when in a turn and provides smooth, electronic power steering
11. Manual wire sense (with optional wire guidance)
12. Connectivity*
    - Cellular radio
    - Wireless truck firmware updates
    - Wireless truck data collection
    - Push wireless settings
13. Integrated InfoLink hardware **
    - Card reader
    - Impact sensor
    - Wi-Fi radio
14. RAM mounted 7" colour touch screen display with integrated speaker
    - Optically bonded 2 mm thick capacitive touch screen
    - Integrated navigation buttons for freezer/cold storage applications
    - 40+ available languages
    - Vehicle status icons
    - Customisable dashboard with widgets
    - – Steering wheel indicator / Wire guidance
    - – Stopwatch
    - – Battery discharge indicator
    - – Hour meter
    - – Height
    - – Clock
    - – Odometer
    - – Zone select
    - – Calculator
    - Performance modes
    - Safety reminders
    - Enhanced service diagnostics and troubleshooting
    - – Detailed event information and history
    - – Built-in analyser
    - – Step-by-step calibrations
    - – Features programmability
    - – Adjust performance settings
    - Maintenance mode**
    - Visual inspection checklist**
    - Impact strobe light and audible alert tone**
15. Start-up and run-time diagnostics
16. Corrosion conditioning
17. Heavy-duty power unit
    - Removable steel battery side covers
    - Hinged, lift-off steel power unit doors
    - Hinged, top battery cover
    - 51 mm diameter battery rollers
18. Service panel with platform raise/lower buttons located behind power unit doors
19. Manual lowering valve located behind power unit doors
20. LED flashing light
21. Four battery compartment sizes: 371 mm, 427 mm, 470 mm, 536 mm
22. SB 350 battery connector
23. Colour-coded wiring
24. 330 mm diameter poly drive tyre
25. 152 mm diameter tandem load wheels
26. Operator-centric platform
    - Visibility windows
    - – Large upper window — mesh screen
    - – Exclusive middle operator window — mesh screen
    - – Centre floorboard window (1510 model)
    - – Side floorboard slot windows
    - – Auxiliary mast visibility windows (SP 1520 model) — mesh screen
    - Cantilever side gates with cutout switches and integrated gas strut, padding and bungee cord
    - Premium anti-fatigue floor mat
    - 152 mm diameter brake pedal
    - Ergonomically designed operator controls
    - – Right hand controls optimised for blending traction, lift/lower and horn
    - i. Thumbwheel for traction control
    - ii. Paddle for lift/lower control
    - iii. Urethane covered handgrip with integrated horn button
    - – Left hand steering control
    - i. Exclusive, adjustable horizontal and vertical tiller knob orientation
    - ii. Spinner knob with urethane pad inserts
    - iii. Urethane handgrip for stability in guided aisles
    - 2,130 mm tall operator compartment
    - Built-in platform storage
    - Integrated Work Assist mounting rails
    - i. Flexibility in positioning Work Assist accessories
    - ii. Centre mounted Work Assist organiser bin
    - Retractable tether and body harness
    - Alternative tether attachment locations
    - Key switch
    - USB charging port (5 V, 2 A)
27. 38 mm manual pallet grab
28. InfoPoint component maps

Optional equipment

1. Xpress Lower
2. High speed lift (48 V models)
3. Independent right and left power unit facing control set height adjustability of 102 mm
4. Wire and/or rail guidance
5. End aisle control system (wire or rail guidance required)
6. High capacity for standard straddle
7. Narrow straddle
8. Fork lengths
9. Pallet/cart detection
10. Override switch for lift/lower cutouts
11. Keyless user access
12. Display navigation knob (standard with cold storage conditioning)
13. Panoramic Lexan overhead guard
14. Clear glass upper visibility windows
15. Clear poly middle visibility window
16. Clear poly auxiliary mast visibility windows (SP 1520 model)
17. 1,220 mm, 1,370 mm, 1,525 mm and 1,625 mm wide operator platforms
18. 1,980 mm tall operator compartment
19. LED work lights, LED dome lights and dual operator fans
20. LED spotlights
    - Overhead guard mounted, adjustable
    - Mast mounted
21. Overhead guard extensions with built-in LED pick bay lights
22. Floor spotlight — Blue
23. Travel alarm
24. Operator backrest/perch (SP 1520 model)
25. Full length side gates with cutout switches and integrated gas struts, padding and bungee cord
26. Side gates raised travel and lift/lower functionality — programmable
27. Battery retainer interlock switch
28. V-Force lithium-ion ready
29. Fuel cell ready
30. 102 mm, 152 mm or variable width (38–152 mm) manual pallet grab
31. Variable width (38–152 mm) electric pallet grab
32. Cold storage conditioning
    - Includes corrosion conditioning, ribbed floor mat, and mesh screen windows
33. Positive/negative accessory cable (@ truck voltage)
34. UL EE rating
35. 762 mm lanyard boom
36. Load wheel and drive tyre compounds
37. Rearview mirrors
38. Work Assist accessories
    - Work Assist packages
    - Additional USB power supply
    - Scan-gun holder
    - Radio antenna module mount
    - Shrink wrap holder
    - Cup holder
    - Angled storage buckets
    - Clip pad
    - Pocket inserts for standard organiser bin
    - Cargo net
    - Rubbish bracket
    - Corner tray
    - Centre window bracket
    - Gate-mounted reusable bag
    - Gate-mounted pocket
    - Large, magnetic-mounted power unit storage bin
39. Special paint
40. Fire extinguisher
41. Aluminium extended platform
42. Fork facing controls or dual facing (fork and power unit) controls (SP 1520 model)

* Crown Lift Trucks with the Gena operating system are connected products. Please see crown.com for the data use policy to see more.

** Functional with an active InfoLink service plan.

Gena operating system

Crown's proven integrated control structure provides an enhanced user experience for operators, service technicians and managers. Integrated InfoLink hardware allows for seamless enabling of Crown's telematics fleet management solution.

The Gena operating system monitors inputs from all on-board sensors and responds instantaneously to control truck systems for safe, optimised performance. All control modules are in constant communication via a CAN (Control Area Network) bus so that real-time information is accessible to the system at all times.

Standard safety and performance features further boost operator confidence and productivity, increasing throughput in narrow aisle applications. Real-time truck communication to the user through the Gena display equates to a powerful data-rich experience. Wireless firmware downloads ensure that the Gena operating system can be easily updated without requiring the use of a handset or laptop.

7" touch screen display

The industrial grade, capacitive touch screen display provides intuitive menus and configurable widgets to enhance operator engagement, productivity and situational awareness. Large on-screen colour graphics provide an improved visual interface while an integrated speaker provides unique audible tones specific to the on-screen communication.

Screens also offer context-sensitive assistance, including alerts, automated assistance and dynamic real-time data. Safety reminder messages and an inspection checklist with visual cues* provide industry exclusive capabilities that reinforce operator training.

A refined service menu enables viewing of multiple lift truck inputs and outputs and step-by-step calibrations with voltage readouts which assists in expediting trouble shooting. Technicians can quickly access service history, set up performance parameters, and enable or disable truck features through the display.

Operator platform

The enhanced platform is designed to greater visibility, stability and ergonomics for increased operator confidence and comfort. The platform features a large upper visibility window. The clear-visibility mast, with full free-lift, extends both the upper and middle platform windows above the mast channels for unobstructed visibility when elevated.

An industry exclusive standard middle operator window provides unmatched power unit first visibility at height. Standard centre floor and side floor slot windows allow for easy viewing under the platform and of the outriggers while elevated. The SP 1520 features standard auxiliary mast windows which provide elevated forks first visibility below a raised load. An optional panoramic overhead guard provides unobstructed views above the truck while elevating.

The right-hand control set features a fixed, urethane covered handgrip. The handgrip has an integrated horn button and a thumbwheel for traction control. A paddle near the handgrip actuates lift and lower. This design optimises blending of functions without compromising operator stability. Traction, lift/lower and horn engagement can be seamlessly blended while maintaining a consistent solid point of contact. The left-hand control set features an industry exclusive tiller knob orientation adjustment which provides operator flexibility while still retaining a solid point of contact to bolster operator confidence. The tiller knob is angled at 10° to reduce steer effort in the vertical position. An optional 102 mm of independent height adjustability for the power unit facing controls provides even more operational flexibility and comfort.

The premium anti-fatigue platform cushion, made of a microcellular composition, absorbs shock and vibration. A 152 mm diameter brake pedal has a low-profile design that is flush with the platform cushion when engaged for maximum comfort. Heavy-duty side gates feature integrated gas struts for easy lifting and lowering as well as integrated padding for a comfortable leaning point when order picking. Both gates include a built-in bungee cord for quick access to pick labels or other frequently used paperwork. Standard interlock cutout switches disengage truck operation when the side gates are raised.

A light/fan package option, consisting of two work lights, two dome lights and two operator fans, provides enhanced operator comfort and confidence. Integrated Work Assist mounting rails in the platform structure provides flexibility in positioning accessories and work tools. A USB charging port, organiser bin and integrated storage compartments are also standard. A foot-applied and foot-released pallet clamp for use with pallets having centre stringers is also provided.

Crown drive system

A Crown-manufactured drive unit uses spiral bevel and helical gears from motor to drive wheel axle. A fixed, mounted traction motor does not rotate which minimises wear on electrical cables.

Standard linear height speed control provides smooth travel speed transitions as lift heights change, increasing productivity.

Standard OnTrac ani-slip traction control monitors truck dynamics, optimises tractive effort, reduces spinning during acceleration, prevents lock-up during braking and can extend tyre life. It improves traction performance in wet, dusty or cold storage conditions. This system enhances safety and operators work more productively due to increased confidence.

* Crown Lift Trucks with the Gena operating system are connected products. Please see crown.com for the data use policy to see more.

** Functional with an active InfoLink service plan.

Intelligent steering

Crown's intelligent steering system slows the truck automatically when the tiller knob is turned beyond 12° enabling greater truck stability during turning. The Gena operating system monitors the height of the operator platform, truck speed and steering wheel position at all times. The tiller knob rotation provides smooth, operator feedback. Auto-centring of the drive tyre occurs at start-up.

Intelligent braking

Crown's intelligent braking system combines variable plugging with a three-step friction brake to optimise safety and comfort for the operator. The appropriate level of braking is applied dependent upon platform height, direction of travel and truck weight. Braking force is automatically reduced as height increases and speed decreases. Optimum braking at height avoids abrupt stops and reduces platform sway. In addition, friction brake use is reduced, which prolongs brake life.

Proportional plugging permits the operator to control the rate of deceleration when extended stopping distance is preferred.

Enhanced hydraulics

Heavy-duty AC pump motor and gear pump is assembled into an integral unit. Regenerative lowering, as well as variable lifting and lowering, are both standard on all voltage offerings.

Standard high-speed lift performance for the 48 V model, provide industry leading lift speeds.

The Xpress Lower option, which is available for all voltages, more than doubles the standard lowering speeds to add in the reduction of picking cycle times.

Hydraulic cylinder cushioning provides smooth and consistent lifting and lowering performance throughout the entire range of lift height which enhances operator comfort and confidence during operation.

Crown mast assembly

High visibility two- and three-stage masts feature a nested rail design with lift cylinders positioned behind the mast rails. The three-stage mast has a compact centre cylinder yoke design for enhanced visibility in the power unit direction. Integrated mast guides between the channels provide smooth and quiet operation while travelling. Routing of hoses and cables optimises visibility throughout the mast. Built-in sensors detect chain slack and shut down primary lower function if chain slack is detected. Negative rail drop allows for shimming of mast rollers without major disassembly.

Heavy-duty low profile power unit

Power unit is fabricated from heavy-gauge steel. Lower skirt is 19 mm steel that runs 228 mm high for component protection. Rugged steel doors suspended on heavy-duty pin hinges cover power unit componentry. Doors swing wide for open access. Doors can be lifted off for unrestricted service access. Door fastening bolts have exclusive convex design that mate with concave door holes for faster alignment and installation. Lift-off battery side covers are all steel. An optional battery retainer switch is available. Top battery access is available by lifting the cover. The cover has an integral support post. A standard panel is located behind the power unit doors to provide technicians with raise/lower functionality of the platform.

Warning device options

Audible alerts

Safety considerations and dangers associated with audible travel alarms include:

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

Other options available

Contact factory for additional options.

Dimensions and performance data given may vary due to manufacturing tolerances.

Performance is based on an average size vehicle and is affected by weight, truck condition, how it is equipped and the conditions of the operating area. Crown products and specifications are subject to change without notice.

SP 1500 SPEC GB 06/24, 10
M03233-006-03
Printed in Germany

European manufacturing:
Crown Gabelstapler GmbH & Co. KG
Roding, Germany
www.crown.com