

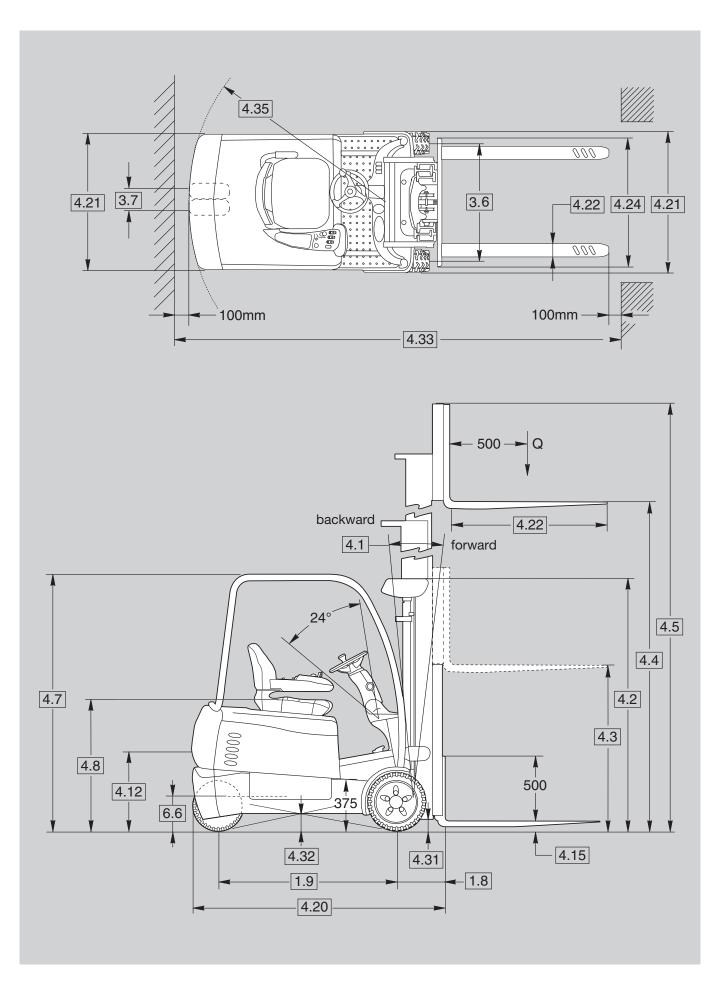
SC 5300 SERIES

Specifications

Three Wheel Counterbalance Truck







SC 5300 Series

	1.1	Manufacturer						Crown	Fauinment	Corporation			
	1.1					SC 5310	SC 5320	SC 5320	SC 5340	SC 5340	SC 5360	SC 5360	
General Information	1.2	Model				1.3	1.3	1.6	1.6	1.8	1.8	2.0	
ma	1.3	Power	electric						battery			2.10	
nfo	1.4	Operator Type							sit down				
ral	1.5	Load Capacity		Q	t	1.25	1.25	1.6	1.6	1.8	1.8	2.0	
ene	1.6	Load Centre		С	mm	-		_	500		-		
G	1.8	Load Distance		x	mm	362	362	362	362	368	368	368	
	1.9	Wheel Base		y	mm	1173	1281	1281	1389	1389	1497	1497	
ts	2.1	Weight	less battery		kg	2700	2730	2730	2740	2750	2880	2880	
Weights	2.2	Axle Load	w. load front / rear		kg	3850/630	3870/790	4450/550	4420/730	4770/590	4820/820	5140/700	
Ň	2.3	Axle Load	w.o. load front / rear		kg	1690/1550	1780/1630	1770/1630	1830/1720	1840/1720	1980/1860	1980/1860	
	3.1	1 Tyre Type						Su	oer Elastic /	SE			
	3.2	_	front		inch	18x7-8	18x7-8	18x7-8	18x7-8	200/50-10	200/50-10	200/50-10	
es	3.3	Tyres	rear		mm				15 x 4.5 - 8				
Tyres	3.5	Wheels	no. (x=driven) front/rea	r					2x / 2				
	3.6		load side	b10	mm	889	889	889	889	914	914	914	
	3.7	Track Width	power unit side	b11	mm				176				
	4.1 Mast Tilt forward / backward				0	see table 1							
	4.2	Mast	collapsed height	h1	mm				see table 1				
[4.3	Free Lift	w. / w.o. lbr	h2	mm				see table 1				
	4.4	Lift Height		h3	mm				see table 1				
	4.5	Mast	extended height	h4	mm				see table 1				
	4.7	Overhead Guard Height	standard/optional low	h6	mm			1	2080 / 1991				
	4.8	Seat Height		h7	mm				1075				
S		Tow Hitch Height		h10	mm				580				
Dimensions		Lowered Fork Height		h13	mm				45				
Jen		Headlength *		12	mm	1732	1840	1840	1948	1954	2062	2062	
Ē	4.21	Overall Width		b1/b2	mm	1071	1071	1071	1071	1123	1123	1123	
	4.22	Fork Dimension		thxw	mm	38x100	38x100	38x100	38x100	45x100	45x100	45x100	
	1.00		standard / option		mm	990 / 760, 915, 1065, 1145, 1220, 1370, 1525 2 A							
		Fork Carriage	ISO / FEM	b5	mm				2 A 990 / 965				
I +		Fork Carriage Width	w. lbr / w.o. lbr	b3 m1	mm								
	4.31	Ground Clearance			mm	76							
	-				mm	115 see table 2							
		Working Aisle Width Turning Radius	minimum	Wa	mm mm					1694	1694		
	5.1	Travel Speed	w./w.o. load	vva	km/h	1070	1470	1470	16 / 16 **	1000	1034	1034	
I -	5.2	Lift Speed	w./w.o. load		m/s	0.39/0.56	0.39/0.56	0.38/0.56	0.38/0.56	0.37/0.56	0.37/0.56	0.36/0.56	
⊦	5.3	Lower Speed	w./w.o. load		m/s	0.00, 0.00	5.00/0.00	0.00/0.00	0.50/0.50	0.0170.00	0.0170.00	0.00, 0.00	
	5.5	Tractive Effort	w./w.o. load (60 min. i	rta.)	N	5180/5430	5150/5390	5080/5390		5000/5350	4950/5310	4910/5310	
й Ц			with load		N	11560	11520	11450	11410	11370	11320	11280	
ma	5.6	Max. Tractive Effort	without load		N	11800	11760	11760	11730	11720	11680	11680	
erfo	5.7	Gradeability	w./w.o. load (60 min. i	rtg.)	%	11.6/16.7	11.0/15.7	10.1/15.7	9.7 / 14.8		8.8 / 13.7	8.4 / 13.7	
٦	5.8	Max. Gradeability	w./w.o. load (intermit)		%	26 / 36	25 / 34	23 / 34	22 / 32	21/32	20 / 30	19/30	
⊦	5.9	Acceleration Time	w./w.o. load		S	4.4 / 3.8	4.5 / 3.9	4.5 / 3.9	4.5/3.9	4.6/4.0	4.7 / 4.1	4.7 / 4.1	
	5 10	Proko	service					Regene	rative electr	ic brake			
	э. IU	Brake	parking			Dual disc automatic park brake							
	6.1	Traction Motor	tion Motor 60 min. rating			2 x 4.8							
	6.2	Lift Motor	15% on time		kW				7.9				
	6.3	Max. Battery Box Size	DIN 43531	I	mm	414	522	522	630	630	738	738	
Motors		Max. Dattery DOX SIZE	Layout A	wxh	mm				830 x 627				
Ň	6.4	Battery Voltage	Voltage		V				48				
		Dattery voltage	min./max.		Ah	330-375	440-500	440-500	550-625	550-625	660-750	660-750	
	6.5	Battery Weight	min./max.		kg	532/588	673/743	673/743	813/899	813/899	962/1064	962/1064	
	6.6	Battery Floor Height	with / without rollers		mm				212 / 205				
SC.	8.1	Type of Control	drive / lift						Transistor				
Misc.	8.2	Available Working Press	sure for Attachments		bar				235				
_		for hook on sideshift		-									

* +59 mm for hook on sideshift ** travel speed reduction applicable to trucks with lift height above 2260 mm collapsed height

Table 1 – Mast Chart

					TL Mast								
				SC 5320 SC 5340 SC 5360	SC 5340								
4.1	Mast Tilt	forward / backward		0	5/5	5/5	5/5	5/3	5/3	5/3	5/3	5/3	
4.2	Mast	collapsed height	h1	mm	1955	2110	2260	2415	2540	2665	2845*	3035**	
4.3	Free Lift		h2	mm	155	155	155	155	155	155	155	155	
4.4	Lift Height		h3	mm	2890	3190	3500	3805	4055	4200	4555	4935	
4.5	Maat	extended height, w.o. lbr.	h4 mm		3470	3775	4080	4385	4640	4780	5135	5520	
4.5	Mast	ext. height, w. lbr. 1220 mm	h4	mm	4110	4415	4720	5025	5275	5420	5775	6155	
						TF Mast	1	Quad		:	-		
					SC 5310 SC 5320 SC 5340 SC 5360		SC 5310 SC 5320 SC 5340 SC 5360						
4.1	Mast Tilt	forward / backward		0	5/5	Ę	5/5	2/3					
4.2	Mast	collapsed height	h1	mm	1955	2	110	2110					
4.3	Free Lift	without load backrest	h2	mm	1345	1	500	1560					
4.3	Free Lint	with load backrest	h2	mm	730	8	385	845					
4.4	Lift Height		h3	mm	2890	3	195	6095					
4.5	Mast	extended height, w.o. lbr.	h4	mm	3495	3	800	6620					
4.0	wast	ext. height, w. lbr. 1220 mm	h4	mm	4110 4415		415	7335					
								TT N	last				
					SC 5310 SC 5320 SC 5340 SC 5360							SC 534	
4.1	Mast Tilt	forward / backward		0	5/5	5/5	5/5	5/3	5/3	5/3	5/3	5/3	
4.2	Mast	collapsed height	h1	mm	1955	2110	2260	2415	2540	2665	2845*	3035**	
4.3	Free Lift	without load backrest	h2	mm	1450	1605	1755	1970	2035	2165	2340	2530	
		with load backrest	h2	mm	735	890	1040	1195	1320	1450	1625	1815	
4.4	Lift Height		h3	mm	4370	4825	5285	5740	6120	6390	6925	7495	
4.5	Mast	extended height, w.o. lbr.	h4	mm	4875	5330	5790	6245	6625	6895	7430	8000	
1.0		ext. height, w. lbr. 1220 mm	h4	mm	5590	6045	6505	6960	7340	7610	8145	8715	

	1.9	1.9 1.8		Dellata	4.33				
	Wheelbase Load Distance		Turning Radius	Pallets	Aisle Width according to VDI 2198				
	Y	Х	Wa	length x width	w.o. sideshift	integrated sideshift	with hook-on sideshift		
				800 x 1200	2877	2903	2927		
SC 5310 1.3	1173	362	1370	1200 x 800	3182	3210	3236		
00 0010 1.0	1170	002	10/0	1000 x 1200	3058	3084	3109		
				1200 x 1000	3209	3237	3263		
				800 x 1200	2985	3011	3035		
SC 5320 1.3	1281	362	1478	1200 x 800	3290	3318	3344		
SC 5320 1.6			1470	1000 x 1200	3166	3192	3217		
				1200 x 1000	3317	3345	3371		
	1389			800 x 1200	3093	3119	3143		
SC 5340 1.6		362	1586	1200 x 800	3398	3426	3452		
00 0040 1.0				1000 x 1200	3274	3300	3325		
				1200 x 1000	3425	3453	3479		
				800 x 1200	3098	3124	3148		
SC 5340 1.8	1389	368	1586	1200 x 800	3403	3431	3457		
00 0040 1.0			1000	1000 x 1200	3279	3305	3330		
				1200 x 1000	3430	3458	3484		
				800 x 1200	3206	3232	3256		
SC 5360 1.8	1497	368	1694	1200 x 800	3511	3540	3566		
SC 5360 2.0			1004	1000 x 1200	3387	3414	3438		
				1200 x 1000	3539	3567	3592		

SC 5300 Series

Technical Information

Standard Equipment

- 1. Crown's Access 1 2 3° Comprehensive System Control
- 2. InfoPoint[™] System
- 3. Crown-manufactured AC drive and AC lift motors
- 4. e-GEN[®] Braking System with automatic parking brake
- 5. Adjustable armrest,
 - forward / backwards with
 - Fingertip control leversThumb operated travel
 - direction switch
- 6. Intrinsic Stability System
 - Travel speed reduction and appropriate electronic brake control when forks are above free lift
 - Forward tilt interlock reduces forward tilt above freelift to maximise stability
 - Controlled tilt speedsCounterweight exceeds
 - required standardsCornering speed control
 - Ramp hold
- Ramp speed control 7. Driveability standard
 - features
 - 375 mm step height
 - Large, unobstructed floorboard
 - Non-slip rubber floor mat
 - Automotive type rubber covered accelerator and brake pedals
 - Automatic parking brake (seat activated)
 - Large, entry/exit "window"
 - Entry/exit to both sides
 - Rounded edges on battery cover for easy entry/exit
 - Comfort suspension safety seat MSG 65 vinyl with hip restraint
 - High visibility orange anticinch safety belt
 - Storage tray on seatdeck
 - Compact steering column and steering wheel with spinner knob
 - Infinitely adjustable tilt steering column
 - Operator-forward design for enhanced visibility
 - Low dashboard for fork and floor visibility

- 8. Crown display
 - Battery discharge indicator with lift interrupt and rekey feature
 - Hour meters / travel distance / stop watch
 - Pin code access capable
 - Event code display with five (5) key navigation
 - Access 1 2 3 diagnostics
 - P1, P2, P3 Performance tuning
- 9. SBE 320 blue battery connector
- 10. DIN 43531 battery compartment sizes
 - Lift out or side extraction battery access
- 11. Dual 15" Super Elastic steer tyres
- 12. Large 18" Super Elastic drive tyres
- 13. On-demand power steering
- 14. Proportional rack and pinion steering
- 15. Waterfall design overhead guard 2080 mm high
- 16. No tool lift out floorboards for service access
- 17.48 volt system
- 18. High visibility mast with inline hose routing
- O-ring face seal hydraulic fittings
- 20. 5° forward / 5° back tilt
- 21. High visibility triplex mast
- 22. Tow pin

Optional Equipment

1. TL, TF and Quad mast styles

- 2. Choice of hydraulic control levers
 - Dual-Axis hydraulic control levers
 - Manual levers, urethane covered control handles with tactile feedback forward reverse switch integrated in
 - Steer column, left or right side
 - 1st hydraulic lever
- 3. Battery rollers for side extraction
- Battery transfer system BTS for fast and safe battery exchange

- 5. Tilt position assist TPA
 Mast tilt stops in vertical position
- 6. Auxiliary mast hydraulicssingle function
 - double function, with 4 spool valve
- 7. Single or double quick disconnect hydraulic connectors
- 8. Hook-on or integrated sideshift
- 9. 1220 mm high load backrest
- 10. Various fork lengths
- 11. Choice of tyres
 - Non-marking Super Elastic tyres
 - Standard or non-marking cushion tyres
- 12. Suspension seat fabric
- 13. Freezer and corrosion conditioning
- 14. Low overhead guard, 1991 mm high
- 15. Light packages
 - Work lights
 - Flashing lightsBrake, tail and back-up light
- 16. InfoLink Ready
- 17. Audible travel alarm
- 18. Work Assist[™] Accessories
 - Clip pad and hook
 - Clamp
 - Clamp and mounting plate
 - Rear view mirror

Driveability

The SC 5300 Series incorporates numerous design features to improve operator comfort and productivity. A large step positioned at a low height of only 375mm greatly improves entry/exit on both sides of the truck. A low battery cover helps the operator glide into the truck's full suspension seat.

The overhead guard is shaped to open up the entry/exit window on either side. The narrow, offset tilt steer column and steer wheel further facilitate entry/exit. Floorboards are large, unobstructed and rubber covered to insulate the operator from vibration. Brake and accelerator pedals are rubber covered to provide good grip and comfort. Several designs contribute to better visibility everywhere you look. A low dashboard for fork visibility, a unique waterfall overhead guard for load handling at height, a high visibility mast and a compact steer column all improve operator visibility around the truck.

Fingertip controls are integrated into the adjustable armrest. Hydraulic controls allow easy blending of up to 4 hydraulic functions. Dual-Axis controls are recommended when operators wear gloves. The manual levers are urethane covered with tactile feedback for comfort and easy selection. Control actuation forces are minimal and responsive.

Crown Drive System

Crown has applied the latest generation AC drive system, enhanced with Access 1 2 3 technology. The demand for high efficiency systems that closely match customer torque requirements is met with this latest generation control system. Crown-manufactured, independently controlled, AC drive motors are specifically designed to optimise system integration between the traction and braking controls.

Crown's Access 1 2 3 technology provides optimum performance and control by offering a communication interface for operators and technicians, intelligent coordination of lift truck system and simplified service with advanced diagnostics. The Crown display is used for easy troubleshooting, access service history and set performance features. Three modes of performance can be selected to accommodate operator experience or application requirements.

SC 5300 Series

e-GEN[®] Braking System

Variable regenerative motor braking is optimised and assisted with electric friction brakes, eliminating maintenance associated with typical wet, disk or drum style brakes. The appropriate amount of stopping force is applied to match operator brake input and the current operating conditions of the truck.

The closed loop Access 1 2 3 traction control will automatically keep the truck on hold until a travel input is requested, even when operating on a ramp.

Automatic electric parking brakes activate when the operator leaves the seat, a travel input has not been requested or battery power has been disconnected.

Proportional Rack and Pinion Steering System

On-demand power steering is served by the main hydraulic pump when steering is requested. The hydrostatic power steering uses a large, totally enclosed rack and pinion gear assembly.

The steering geometry is matched to the controller to deliver smooth steering at all angles. The advantage is less tyre scrubbing which extends tyre life. Both motors receive power, even in the tightest turns. This helps the truck to accelerate, turn and manoeuvre even from a full turn start position. Cornering speed control regulates the drive motor's output by the turning degree of the truck. The advantage is smooth, stable steering which may increase operator confidence and productivity.

Large, 380 mm diameter dual steer wheels provide good traction and stability and support straight travel over long distances.

Hydraulics

Low noise hydraulic pump serves both lift and steer systems. The hydraulic system provides continuous filtration through suction filter and easy to service return filter.

Hydraulic actuation is precise and oil is controlled using metered spool valves. 3 spool valve for lift/lower, tilt and an auxiliary function is standard and features an integrated pressure relief valve for system protection. A pressure compensation lowering valve ensures safe controlled lowering speeds.

Ram displacement type lift cylinders and two double acting tilt cylinders are Crownmanufactured and designed for long life. All rams and piston rods are hard chrome plated to reduce pitting corrosion and extend cylinder packing life. O-ring face seal fittings are used to eliminate leaks.

Mast Assembly

Crown-manufactured threestage mast assembly utilises a "flush-face" interlocked I-beam design to improve visibility and reduce truck length. Roller bearing studs are welded on both sides of the rails for maximum strength and roller bearings are canted to run in the thick cross section of the rail. High strength steel mast sections with sealed-for-life rollers are constructed for low mast deflection and high rigidity. Tie bars wrap around the rails for added strength and to resist off-centre load forces.

"In-line" hose routing opens up visibility. Cylinders are placed behind the rails to create a high visibility design. The mast has four points of attachment to the truck for good load force distribution. Two mounting points are at the frame, where tilt cylinders attach. Tilt cylinders use spherical bushings to resist off-centre load distortions. Two large diameter axles secure the mast to the drive units.

A range of mast types are available:

- TL offers maximum visibility through the mast by eliminating the inner free lift cylinder.
- TF offers widest visibility window with full free lift capability.
- TT offers maximum flexibility with full free lift capability.
- The Quad mast offers maximum lift height at lowest collapsed height.

Drive Units

Two independent drive units are manufactured by Crown. The heavy duty drive unit gears are constantly lubricated in an oil bath. This time proven design is quiet and reliable, providing years of trouble-free service.

Carriage

An FEM / ISO / ITA Class II carriage is standard. Fork spread is adjustable between 314 – 914 mm. An optional hook-on type ISO sideshifter or other attachments are easy to add. Forged high strength steel forks with fork tip indicators are available in various lengths.

Safety Regulations

Conforms to European safety standards. 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.

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