



A Flexible range for you.

Every Kalmar Straddle Carrier features a modular design that can be tailored to meet the needs of your business. There are three different models to choose from:

Kalmar FastCharge™ Straddle Carrier.

The Kalmar FastCharge Straddle Carrier uses electric drive units with the latest battery technology, which can be charged on the go. You may include a small diesel engine which will allow you to move your machine around your yard when it isn't charged.



Kalmar Hybrid Straddle Carrier.

The Kalmar Hybrid Straddle Carrier delivers all the power you're used to, with up to 40% reduction in fuel consumption and up to 50 tons less CO2 emissions per annum than a traditional diesel-electric machine. A regenerative energy system captures kinetic braking and spreader energy, transforming it into a storable, clean, power source.



Kalmar (Diesel-electric) Straddle Carrier.

The Kalmar Straddle Carrier offers high performance, excellent fuel efficiency, and low noise. Featuring a diesel-electric drive, this straddle carrier complies with the latest exhaust emission regulations.



Key benefits

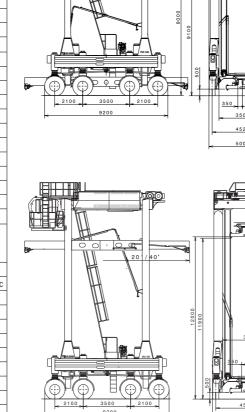
- Decreased fuel consumption up to 40% with hybrid
- Lower noise. lower emissions
- Zero emissions with Kalmar FastCharge™ Straddle Carrier
- Enhanced operator ergonomics and comfort
- Superior safety
- Secure and fast container handling
- Automation-ready



Kalmar FastCharge™ Straddle Carrier

Technical Data

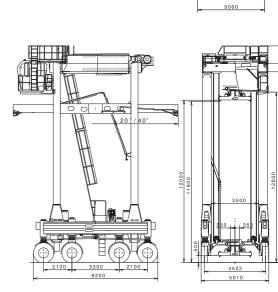
		FSC 340	FSC 350	FSC 360	FSC 440	FSC 450	FSC 460
OPERATING DATA							
Capacity under spreader	ton	40	50	60	40	50	60
Service weight	ton	66	67	69	69	70	72
Wheel load fully loaded	ton	13.3	14.6	16.1	13.6	15	16.5
DIMENSIONS							
Lifting height front cabin, max.	mm		9200			12000	
Lifting height side cabin, max.	mm		9100			12000	
Pick-up height, min.	mm			50	00		
Inside clear width	mm			35			
Turning radius, inside	mm			36	30		
Turning radius, outside	mm			95	50		
SPREADER							
Twistlocks				IS	0		
Positions	ft	20, 40	20, 40/2x20*	20, 40/2x20	20, 40	20, 40/2x20*	20, 40/2x20
Side shift	mm			± 3	50		
Slew angle	deg.			±	6		
SPEEDS							
Max. travel speed, empty	km/h		30		25		
Max. travel speed, loaded	km/h	3	0	25	25		17
Max. lifting speed, empty	m/min			3	0		
Max. lifting speed, loaded	m/min	20	15	13	20	15	13
Max. lowering speed, empty	m/min			1	8		
Max. lowering speed, loaded	m/min	18	15	13	18	15	13
POWER UNIT							
Туре				Fully e	lectric		
Charging system		Kalmar FastCharge **					
Energy storage		Lithium-ion battery (LTO)					
ENGINE (OPTIONAL) **							
Power	kW	77					
Torque	Nm	425					
Displacement	dm ³	4.4					
Emission level			EU sta	ige II/ EU sta	age IV/ US	Tier 4f	
DRIVE SYSTEM							
Туре				4-whee	el drive		
Control		AC-frequency control					
Electric motors		4 induction motors					
TYRES							
Size		· '		480/ 95R25	1 ' 1		480/ 95R25
SUSPENSION				1			<u> </u>
Туре		Rubber Hydraulic Rubber Hyd			Hydraulio		
BRAKES							,
Service brakes				Wet disc in	four wheels	3	
Parking brakes		Spring actuated, wet disc in four wheels					
HOIST SYSTEM							
Туре		Winch rope hoist					
Control		AC-frequency control					
Electric motor		2 induction motors					
CONTROL SYSTEM							
Туре				PL	.C		
Voltage		24 V					
Field bus		Can open Ethernet IP					



Kalmar Hybrid Straddle Carrier

Technical Data

		HSC 340	HSC 350	HSC 360	HSC 440	HSC 450	HSC 46	
OPERATING DATA								
Capacity under spreader	ton	40	50	60	40	50	60	
Service weight	ton	66	67	69	69	70	72	
Wheel load fully loaded	ton	13.3	14.6	16.1	13.6	15	16.5	
DIMENSIONS								
Lifting height front cabin, max.	mm		9200			12000		
Lifting height side cabin, max.	mm		9100			12000		
Pick-up height, min.	mm			50	00			
Inside clear width	mm			35	00			
Turning radius, inside	mm			36	30			
Turning radius, outside	mm			95	50			
SPREADER								
Twistlocks				IS	0			
Positions	ft	20, 40	20, 40/2x20*	20, 40/2x20	20, 40	20, 40/2x20*	20, 40/2x20	
Side shift	mm			± 3	350			
Slew angle	deg.			±	6			
SPEEDS								
Max. travel speed, empty	km/h		30			25		
Max. travel speed, loaded	km/h	3	0	25		5	17	
Max. lifting speed, empty	m/min			3				
Max. lifting speed, loaded	m/min	20	15	13	20	15	13	
Max. lowering speed, empty	m/min			1				
Max. lowering speed, loaded	m/min	18	15	13	18	15	13	
POWER UNIT				11.4	at at			
Туре		Hybrid						
Charging system		Diesel generator						
Energy storage				ithium-ion l	battery (LTC))		
ENGINE Power	kW			7	7			
Torque	Nm							
Displacement	dm ³	425						
Emission level	uiii	4.4 EU stage II/ EU stage IV / US Tier 4f						
FastCharge as option			LO Sia	go 11/ LO 310	igc 14 / 00	1101 41		
DRIVE SYSTEM								
Type				4-whee	el drive			
Control		4-wheel drive AC-frequency control						
Electric motors				4 induction				
TYRES								
Size		16.00R25, 450/95R25, 480/95R25		480/ 95R25	16.00R25, 450/95R25, 480/95R25		480/ 95R25	
SUSPENSION		1 400/3	-CI ILU		700/3	-OI ILU		
Type		Rub	ber	Hydraulic	Rub	ber	Hydrauli	
BRAKES	1			, ,			,	
Service brakes				Wet disc in	four wheels	3		
Parking brakes		Spring actuated, wet disc in four wheels						
HOIST SYSTEM						-		
Туре		Winch rope hoist						
Control		AC-frequency control						
Electric motor		2 induction motors						
CONTROL SYSTEM								
Туре				PL	С			
Voltage				24	V			
Field bus	1	Can open Ethernet IP						



Subject to change without notice

^{*} Also available: Extendable twinlift 45 ft.

Subject to change without notice

^{**} Optional Diesel generator for extended operation range.

^{*} Also available: Extendable twinlift 45 ft.

Kalmar Diesel-electric Straddle Carrier Kalmar Classic Straddle Carrier

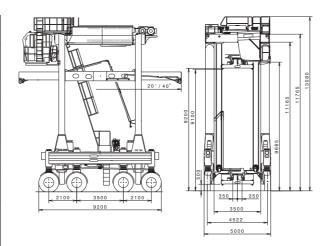
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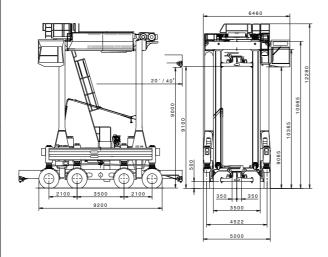
		ESC 340	ESC 350	ESC 360	ESC 440	ESC 450	ESC 460	
OPERATING DATA								
Capacity under spreader	ton	40	50	60	40	50	60	
Service weight	ton	66	67	69	69	70	72	
Wheel load fully loaded	ton	13.3	14.6	16.1	13.6	15	16.5	
DIMENSIONS								
Lifting height front cabin, max.	mm		9200			12000		
Lifting height side cabin, max.	mm		9100			12000		
Pick-up height, min.	mm			50	00			
Inside clear width	mm			35	00			
Turning radius, inside	mm			36	30			
Turning radius, outside	mm			95	50			
SPREADER								
Twistlocks				IS	0			
Positions	ft	20, 40	20, 40/2x20*	20, 40/2x20	20, 40	20, 40/2x20*	20, 40/2x20	
Side shift	mm			± 3	350			
Slew angle	deg.			±	6			
SPEEDS								
Max. travel speed, empty	km/h		30		25			
Max. travel speed, loaded	km/h	3	0	25	25		17	
Max. lifting speed, empty	m/min			3	30			
Max. lifting speed, loaded	m/min	20	15	13	20	15	13	
Max. lowering speed, empty	m/min			1	8			
Max. lowering speed, loaded	m/min	18	15	13	18	15	13	
POWER UNIT								
Туре		Diesel-electric						
Power system		Variable speed AC-generator						
DRIVE SYSTEM								
Туре		4-wheel drive						
Control		AC-frequency control						
Electric motors		4 induction motors						
TYRES								
Size		16.00R25, 480/ 450/95R25, 95R25 480/95R25		16.00R25, 450/95R25, 480/95R25		480/ 95R25		
SUSPENSION								
Туре		Rub	ber	Hydraulic	Rub	ber	Hydraulic	
BRAKES				,			,	
Service brakes		Wet disc in four wheels						
Parking brakes		Spring actuated, wet disc in four wheels						
HOIST SYSTEM								
Туре		Winch rope hoist						
Control		AC-frequency control						
Electric motors		2 induction motors						
CONTROL SYSTEM								
Type				PI	С			
Voltage		PLC 24 V						
Field bus		Can open Ethernet IP						
500		Oan open Enemet ii						

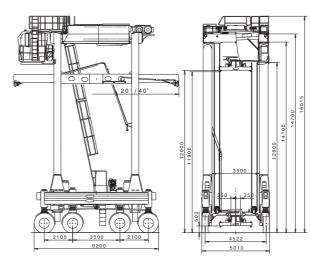


^{*} Also available: Extendable twinlift 45 ft.

Subject to change without notice







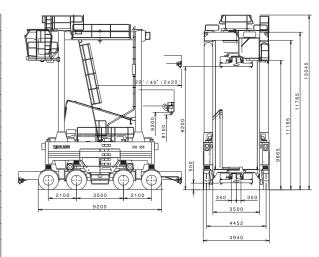
Technical Data

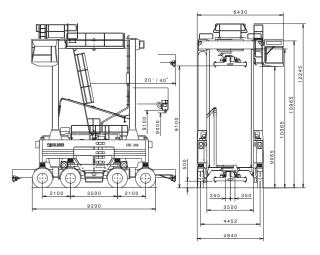
		CSC 340	CSC 350	CSC 440	CSC 450				
OPERATING DATA									
Capacity under spreader	ton	40	50	40	50				
Service weight	ton	66	67	69	70				
Wheel load fully loaded	ton	13.3	14.6	13.6	15				
DIMENSIONS									
Lifting height front cabin	mm	92	00	120	000				
Lifting height side cabin	mm	91	00	120	000				
Pick-up height	mm		50	00					
Inside clear width	mm		35	00					
Turning radius, inside	mm		35	50					
Turning radius, outside	mm		94	70					
SPREADER									
Twistlocks			IS	0					
Positions	ft	20, 40	20, 40/2x20*	20, 40	20, 40/2x20*				
Side shift	mm	± 350							
Slew angle	deg.		±	6					
SPEEDS									
Travel speed, empty	km/h	3	0	2	5				
Travel speed, loaded	km/h	26	24	25	25				
Lifting speed, empty	m/min		2	4					
Lifting speed, loaded	m/min	20	15	20	15				
Lowering speed, empty	m/min		1	8					
Lowering speed, loaded	m/min		1	8					
POWER UNIT									
Туре			Diesel hyd	rodynamic					
No. of units			2)					
DRIVE SYSTEM									
Туре		4-wheel drive							
TRANSMISSION									
Gears		3+3							
TYRES									
Size		16.00R25, 450/95R25, 480/95R25							
SUSPENSION									
Туре		Rubber							
BRAKES									
Service brakes		Wet disc in six wheels							
Parking brakes		Spring actuated, wet disc in four wheels							
HOIST SYSTEM									
Туре		Smoothlift™ rope hoist with single cylinder							
Pressure	bar	230	260	230	260				
Pilot control			Elect	rical					
CONTROL SYSTEM									
Туре			PL	.C					
Voltage			24	V					

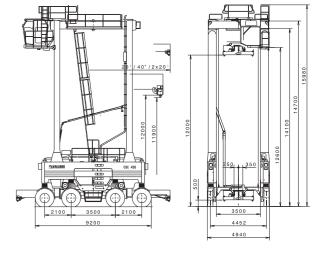
ENGINE OPTIONS			
Power	kW	135	142
Torque	Nm	710	742
Displacement	dm ³	7.4	6.7
Emission level		EU stage IIIA/US Tier 3	EU stage IIIA / US Tier 3

^{*} Also available: Extendable twinlift 45 ft.











www.kalmarglobal.com