Data Sheet

Kalmar

STRADDLE CARRIERS

for shuttle operations



FLEXIBLE range for you

Every Kalmar Straddle Carrier features a modular design that can be tailored to meet the needs of your business. You have three different straddle carrier solutions to choose from:

Kalmar Electric Straddle Carrier.

The eco-efficient Kalmar Electric Straddle Carrier produces zero emissions at source and provides a flexible solution that can easily be adapted to meet your requirements. You have a choice of battery solutions and charging options plus a range of supportive products that can help to enhance your overall operations.

Kalmar Hybrid Straddle Carrier.

The Kalmar Hybrid Straddle Carrier with start-stop technology 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 electrical braking and spreader-lowering energy, then stores this for re-use in Lithium-ion batteries.

Kalmar 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.

The Kalmar AutoStrad™.

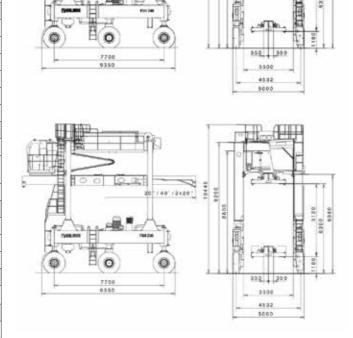
The Kalmar AutoStrad can pick, carry, stack and place containers independently. The Kalmar AutoStrad delivers a safe, eco-efficient and effective automated horizontal transport option. Its scalability and flexibility mean it is suitable for a variety of terminal operation modes.



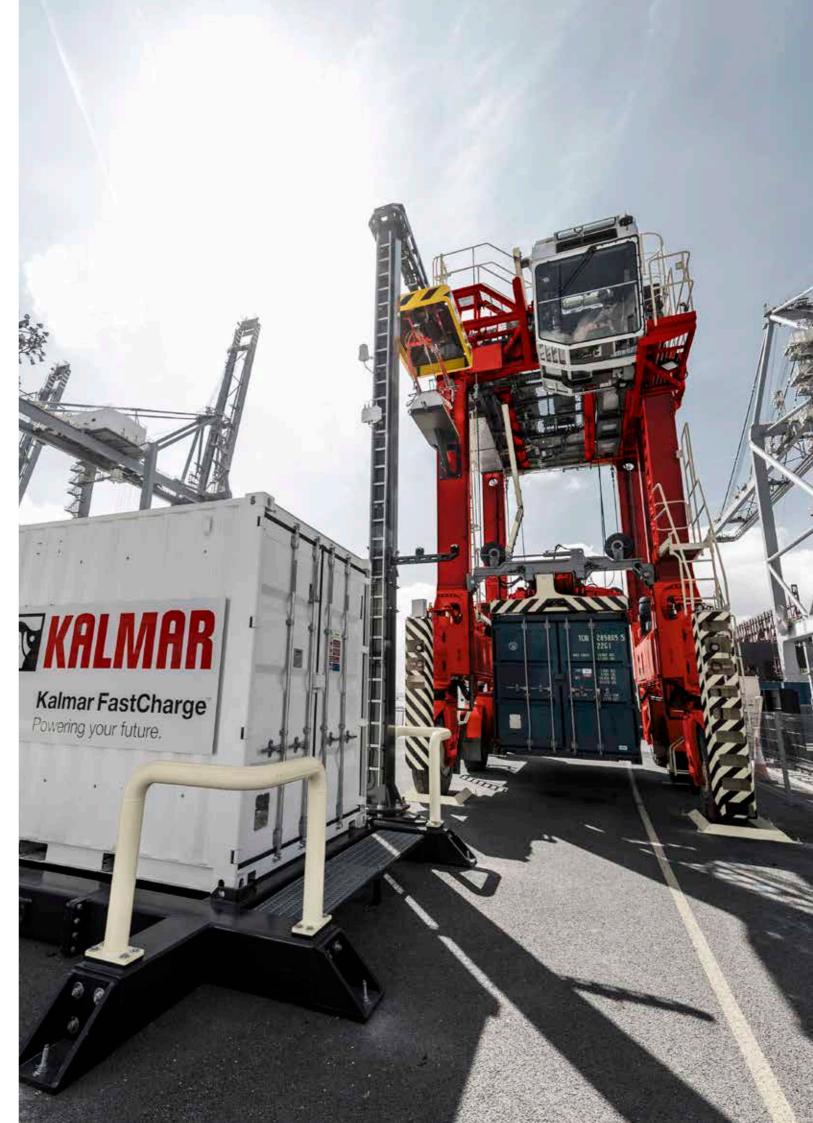
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ELECTRIC Straddle Carrier

2-HIGH MODELS		SC240E	SC250E
OPERATING DATA		332102	562562
Capacity under spreader - single lift	ton	40	50
Capacity under spreader - twin lift	ton	50	50
	ton	51	52
Service weight - high power	ton	53.5	54.5
Service weight - high energy			
Wheel load fully loaded - high power	ton	15.2	17.2
Wheel load fully loaded - high energy DIMENSIONS	ton	15.6	17.4
	mm	60	300
Lifting height front cabin, max. Pick-up height, min.			180
Inside clear width	mm		
	mm		500
Turning radius, inside	mm		530 500
Turning radius, outside SPREADER	mm	95	500
Twistlocks	1	10	20
	-		SO 40/0::00*
Positions	ft	20,40	20, 40/2x20*
Side shift	mm		350
Slew angle	deg.	<u> </u>	: 6
SPEEDS	Luca /la		20
Max. travel speed, empty	km/h		30
Max. travel speed, loaded	km/h	30	22
Max. lifting speed, empty	m/min		20
Max. lifting speed, loaded	m/min	13	9
Max. lowering speed, empty	m/min		18
Max. lowering speed, loaded	m/min	13	9
POWER UNIT	T	I	
Type		,	Electric
Charging system			g as standard, narge™ optional
Energy Storage		Lithium-ion battery	
DRIVE SYSTEM			
Туре		2-whe	el drive
Control		AC-frequency control	
Electric motors		2 inducto	on motors
TYRES			
Size		480/9	95R25
BRAKES			
Service brakes		Wet disc in	four wheels
Parking brakes		Spring actuated, we	et disc in two wheels
HOIST SYSTEM		ı	
Туре		Winch r	ope hoist
Control		AC-frequency control	
Electric motor		1 induct	ion motor
CONTROL SYSTEM			
Туре		Р	LC
Voltage		24	4 V
Field bus		Can open	Ethernet IP
		1 30 35011	



Subject to change without notice

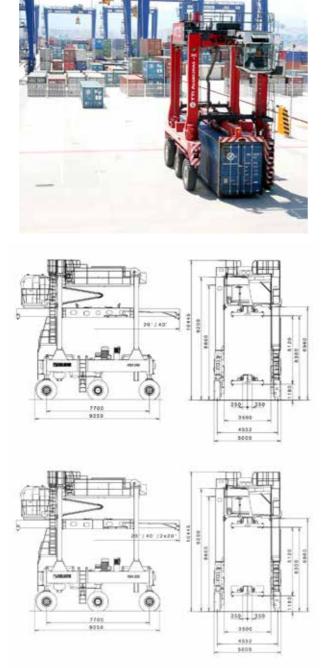


^{*} Also available: Extendable twinlift 45 ft.

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HYBRID Straddle Carrier

2-HIGH MODELS		SC240H	SC250H
OPERATING DATA			
Capacity under spreader - single lift	ton	40	50
Capacity under spreader - twin lift	ton	50	50
Service weight	ton	51	52
Wheel load fully loaded - high power	ton	15.2	17.0
DIMENSIONS			
Lifting height front cabin, max.	mm	63	300
Pick-up height, min.	mm	1180	
Inside clear width	mm	3500	
Turning radius, inside	mm	3630	
Turning radius, outside	mm	9500	
SPREADER			
Twistlocks		IS	SO
Positions	ft	20,40	20, 40/2x20*
Side shift	mm	± (350
Slew angle	deg.	±	: 6
SPEEDS			
Max. travel speed, empty	km/h	3	30
Max. travel speed, loaded	km/h	30	22
Max. lifting speed, empty	m/min	2	20
Max. lifting speed, loaded	m/min	13	9
Max. lowering speed, empty	m/min	1	8
Max. lowering speed, loaded	m/min	13	9
POWER UNIT			
Туре		Ну	brid
Charging system		Diesel generator	
Energy Storage		Lithium-ion	battery (LTO)
ENGINE			
Power	kW	7	77
Torque	Nm	4.	25
Displacement	dm ³	4	.4
Emission level		EU stage II/EU s	tage IV/US Tier 4f
DRIVE SYSTEM			
Туре		2-wheel drive	
Control		AC-frequency control	
Electric motors		2 inducto	on motors
TYRES			
Size		480/9	95R25
BRAKES		,	
Service brakes		Wet disc in	four wheels
Parking brakes		Spring actuated, we	et disc in two wheels
HOIST SYSTEM		,	
Туре		Winch re	ope hoist
Control		AC-frequency control	
Electric motor		1 inducti	ion motor
CONTROL SYSTEM			
Туре		P	LC
Voltage		24	1 V
Field bus		Can open	Ethernet IP
* Also available: Extendable twinlift 45		Subject to a	



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DIESEL-ELECTRIC Straddle Carrier

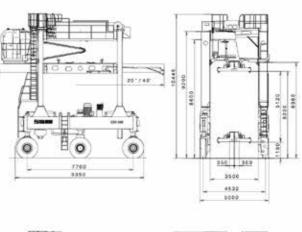
2-HIGH MODELS		SC240C	SC250C
OPERATING DATA			
Capacity under spreader - single lift	ton	40	40
Capacity under spreader - twin lift	ton	50	50
Service weight	ton	51	52
Wheel load fully loaded - high power	ton	15.2	17.0
DIMENSIONS			
Lifting height front cabin, max.	mm	6300	
Pick-up height, min.	mm	1180	
Inside clear width	mm	3500	
Turning radius, inside	mm	3630	
Turning radius, outside	mm	95	500
SPREADER			
Twistlocks		18	SO
Positions	ft	20,40	20, 40/2x20*
Side shift	mm	±	350
Slew angle	deg.	±	: 6
SPEEDS			
Max. travel speed, empty	km/h	3	30
Max. travel speed, loaded	km/h	30	22
Max. lifting speed, empty	m/min	2	20
Max. lifting speed, loaded	m/min	13	9
Max. lowering speed, empty	m/min	1	18
Max. lowering speed, loaded	m/min	13	9
POWER UNIT			
Туре		Diesel-electric	
Power system		Variable speed AC-generator	
DRIVE SYSTEM			
Туре		2-wheel drive	
Control		AC-frequency control	
Electric motors		2 inducton motors	
TYRES			
Size		480/95R25	
BRAKES			
Service brakes		Wet disc in four wheels	
Parking brakes		Spring actuated, wet disc in two wheels	
HOIST SYSTEM			
Туре		Winch rope hoist	
Control		AC-frequency control	
Electric motor		1 induct	ion motor
CONTROL SYSTEM			
Туре		PLC	
Voltage		24 V	
Field bus		Can open Ethernet IP	

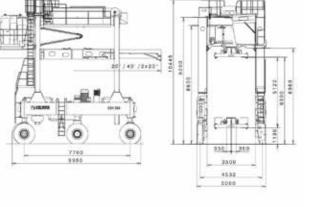
ENGINE				
Power	kW	285		
Torque	Nm	1938		
Displacement	dm ³	10.8		
Emission level		EU stage II/IIIA/IV/US Tier2/3/4f		

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

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



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