

Data Sheet

Kalmar

STRADDLE CARRIERS

for end-to-end operations

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 four different models 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, low noise levels and is known for being very reliable. Featuring a diesel-electric drive, this straddle carrier complies with the latest exhaust emission regulations.

Kalmar AutoStrad™.

Kalmar AutoStrad™ uses the Kalmar One AutoStrad Application, which is a proven automation solution for container handling. All Kalmar Straddle Carriers can be delivered automation ready, enabling you to automate your entire terminal operations - from the quayside to truck handling.

Key benefits

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

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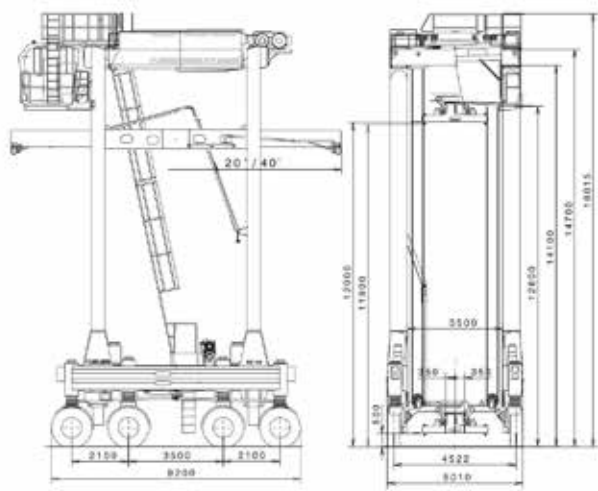
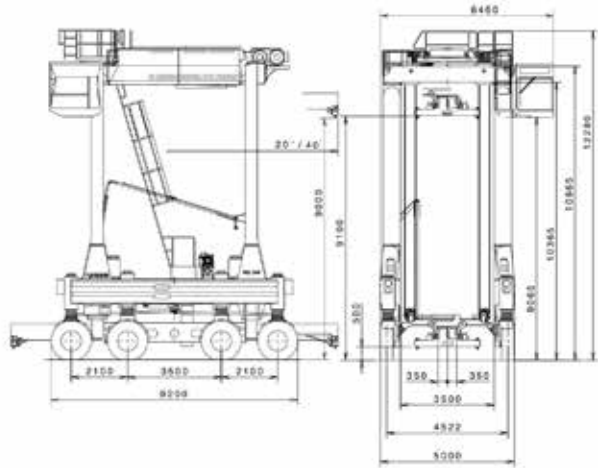
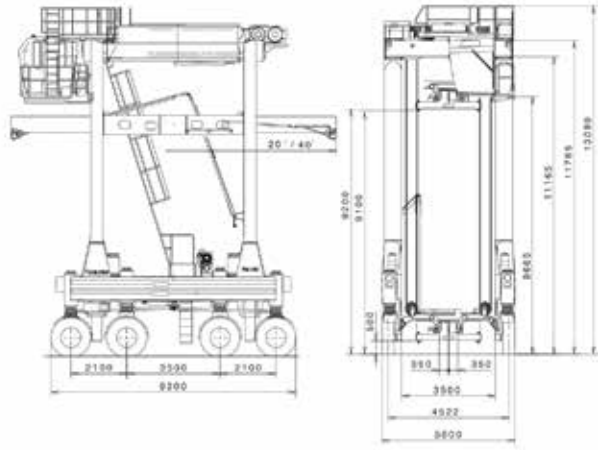
ELECTRIC

Straddle Carrier

		SC340E	SC350E	SC360E	SC440E	SC450E	SC460E
OPERATING DATA							
Capacity under spreader - single lift	ton	40	40	40	40	40	40
Capacity under spreader - twin lift	ton	–	50	60	–	50	60
Service weight - high power	ton	66	67	72	69	70	74
Service weight - high energy	ton	68.5	69.5	74.5	71.5	72.5	76.5
Wheel load fully loaded - high power	ton	13.3	14.6	16.5	13.6	15	16.8
Wheel load fully loaded - high energy	ton	13.6	14.9	16.8	13.9	15.3	17.1
DIMENSIONS							
Lifting height front cabin, max.	mm	9200			12000		
Pick-up height, min.	mm	500					
Inside clear width	mm	3500					
Turning radius, inside	mm	3630					
Turning radius, outside	mm	9550					
SPREADER							
Twistlocks		ISO					
Positions	ft	20,40	20, 40/2x20*	20, 40/2x20	20,40	20, 40/2x20	20, 40/2x20
Side shift	mm	± 350					
Slew angle	deg.	± 6					
SPEEDS							
Max. travel speed, empty	km/h	30			25		
Max. travel speed, loaded	km/h	30		25	25		25
Max. lifting speed, empty	m/min	30					
Max. lifting speed, loaded	m/min	20	15	8	20	15	8
Max. lowering speed, empty	m/min	18					
Max. lowering speed, loaded	m/min	18	15	8	18	15	8
POWER UNIT							
Type	Fully Electric						
Charging system	CCS charging as standard, Kalmar FastCharge™ optional						
Energy Storage	Lithium-ion battery						
DRIVE SYSTEM							
Type		4-wheel drive					
Control		AC-frequency control					
Electric motors		4 inducton motors					
TYRES							
Size		16.00R25, 450/95R25, 480/95R25		480/ 95R25	16.00R25, 450/95R25, 480/95R25		480/ 95R25
SUSPENSION							
Type		Rubber					
BRAKES							
Service brakes		Wet disc in four wheels					
Parking brakes		Spring actuated, wet disc in four wheels					
HOIST SYSTEM							
Type		Winch rope hoist					
Control		AC-frequency control					
Electric motor		2 induction motors					
CONTROL SYSTEM							
Type		PLC					
Voltage		24 V					
Field bus		Can open Ethernet IP					

* Also available: Extendable twinlift 45 ft.

Subject to change without notice



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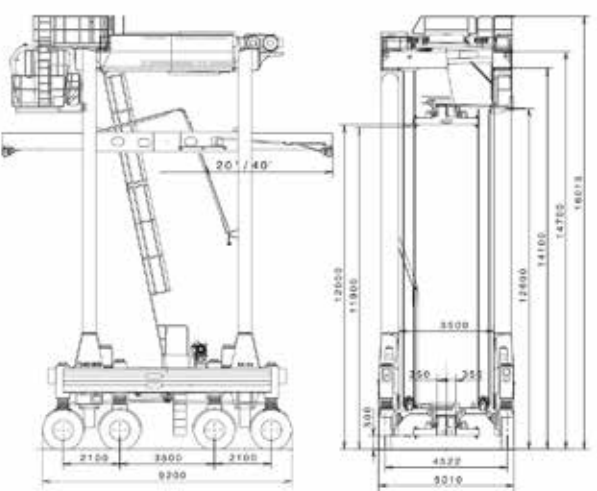
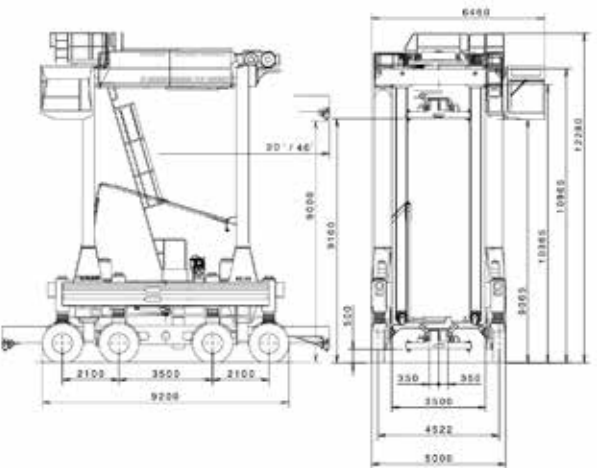
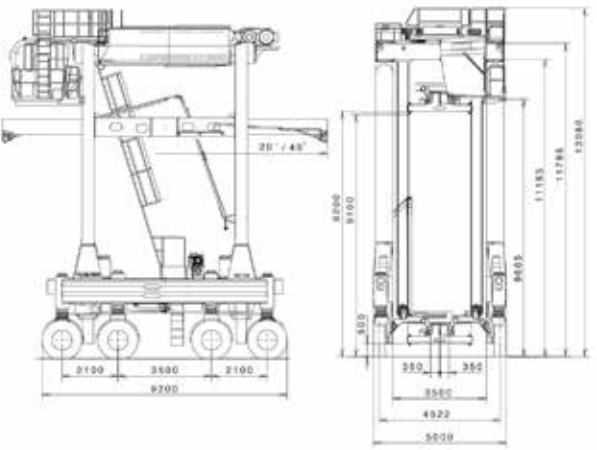
HYBRID

Straddle Carrier

		SC340H	SC350H	SC360H	SC440H	SC450H	SC460H
OPERATING DATA							
Capacity under spreader - single lift	ton	40	40	40	40	40	40
Capacity under spreader - twin lift	ton	–	50	60	–	50	60
Service weight	ton	66	67	72	69	70	74
Wheel load fully loaded	ton	13.3	14.6	16.5	13.6	15	16.8
DIMENSIONS							
Lifting height front cabin, max.	mm	9200			12000		
Pick-up height, min.	mm	500					
Inside clear width	mm	3500					
Turning radius, inside	mm	3630					
Turning radius, outside	mm	9550					
SPREADER							
Twistlocks		ISO					
Positions	ft	20,40	20, 40/2x20*	20, 40/2x20	20,40	20, 40/2x20	20, 40/2x20
Side shift	mm	± 350					
Slew angle	deg.	± 6					
SPEEDS							
Max. travel speed, empty	km/h	30			25		
Max. travel speed, loaded	km/h	30		25	25		25
Max. lifting speed, empty	m/min	30					
Max. lifting speed, loaded	m/min	20	15	8	20	15	8
Max. lowering speed, empty	m/min	18					
Max. lowering speed, loaded	m/min	18	15	8	18	15	8
POWER UNIT							
Type	Hybrid						
Charging system	Diesel generator						
Energy storage	Lithium-ion battery						
ENGINE (Agco Power)							
Power	kW	75 / 85 / 83					
Torque	Nm	484 / 520 / 536					
Displacement	dm³	4.4					
Emission level		EU stage II / US Tier 2, 4f					
ENGINE (Volvo)							
Power	kW	105					
Torque	Nm	714					
Displacement	dm³	5.13					
Emission level		EU stage II, III, A, V / US Tier 2, 3, 4f					
DRIVE SYSTEM							
Type		4-wheel drive					
Control		AC-frequency control					
Electric motors		4 induction motors					
TYRES							
Size		16.00R25, 450/95R25, 480/95R25		480/ 95R25	16.00R25, 450/95R25, 480/95R25		480/ 95R25
SUSPENSION							
Type		Rubber					
BRAKES							
Service brakes		Wet disc in four wheels					
Parking brakes		Spring actuated, wet disc in four wheels					
HOIST SYSTEM							
Type		Winch rope hoist					
Control		AC-frequency control					
Electric motor		2 induction motors					
CONTROL SYSTEM							
Type		PLC					
Voltage		24 V					
Field bus		Can open Ethernet IP					

* Also available: Extendable twinlift 45 ft.

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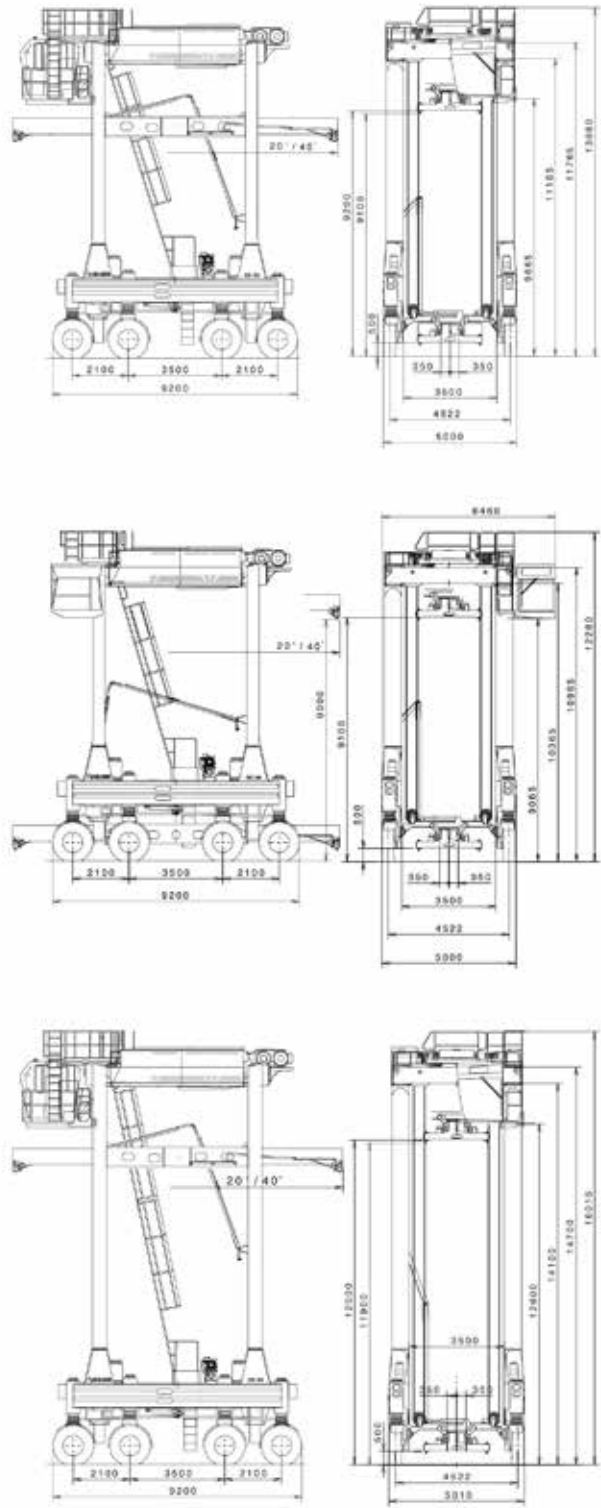
Straddle Carrier

		SC340C	SC350C	SC360C	SC440C	SC450C	SC460C
OPERATING DATA							
Capacity under spreader - single lift	ton	40	40	40	40	40	40
Capacity under spreader - twin lift	ton	–	50	60	–	50	60
Service weight	ton	66	67	72	69	70	74
Wheel load fully loaded	ton	13.3	14.6	16.5	13.6	15	16.8
DIMENSIONS							
Lifting height front cabin, max.	mm	9200			12000		
Pick-up height, min.	mm	500					
Inside clear width	mm	3500					
Turning radius, inside	mm	3630					
Turning radius, outside	mm	9550					
SPREADER							
Twistlocks		ISO					
Positions	ft	20,40	20, 40/2x20*	20, 40/2x20	20,40	20, 40/2x20	20, 40/2x20
Side shift	mm	± 350					
Slew angle	deg.	± 6					
SPEEDS							
Max. travel speed, empty	km/h	30			25		
Max. travel speed, loaded	km/h	30		25	25		25
Max. lifting speed, empty	m/min	30					
Max. lifting speed, loaded	m/min	20	15	8	20	15	8
Max. lowering speed, empty	m/min	18					
Max. lowering speed, loaded	m/min	18	15	8	18	15	8
POWER UNIT							
Type		Diesel-electric					
Power system		Variable speed AC-generator					
DRIVE SYSTEM							
Type		4-wheel drive					
Control		AC-frequency control					
Electric motors		4 induction motors					
TYRES							
Size		16.00R25, 450/95R25, 480/95R25		480/ 95R25	16.00R25, 450/95R25, 480/95R25		480/ 95R25
SUSPENSION							
Type		Rubber					
BRAKES							
Service brakes		Wet disc in four wheels					
Parking brakes		Spring actuated, wet disc in four wheels					
HOIST SYSTEM							
Type		Winch rope hoist					
Control		AC-frequency control					
Electric motor		2 induction motors					
CONTROL SYSTEM							
Type		PLC					
Voltage		24 V					
Field bus		Can open Ethernet IP					

ENGINE OPTIONS		
Power	kW	285
Torque	Nm	1938
Displacement	dm³	10.8
Emission level		EU stage II/IIIA/IV/ US Tier 2/3/4f

* Also available: Extendable twinlift 45 ft.

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