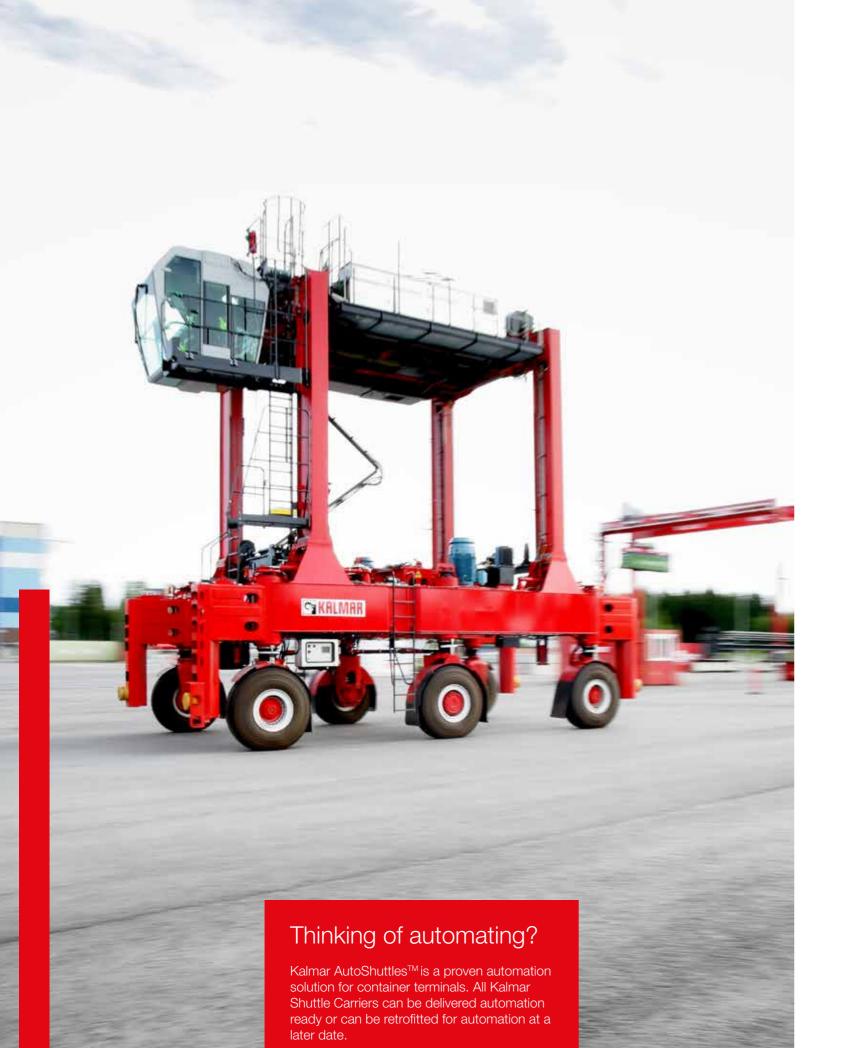
Kalmar Shuttle Carrier Data sheet

SKALMAR





A Flexible range for you.

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

Kalmar FastCharge[™] Shuttle Carrier.

The Kalmar FastCharge Shuttle 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 Shuttle Carrier.

The Kalmar Hybrid Shuttle 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 electrical braking and spreader-lowering energy and stores this for re-use in Lithium-ion batteries.

Kalmar (Diesel-electric) Shuttle Carrier.

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

Key benefits

- Superior versatility for every need
- Decreased fuel consumption, up to 40% with hybrid
- Lower noise, lower emissions
- Zero emissions with Kalmar FastCharge™ Shuttle Carrier
- Increased manoeuvrability
- Advanced safety
- Superior ergonomics
- Longer service intervals
- Secure and fast container handling
- Automation-ready







Kalmar FastCharge[™] Shuttle Carrier

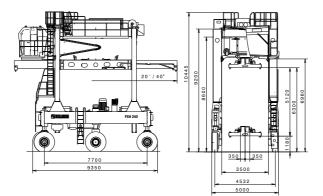
Technical Data

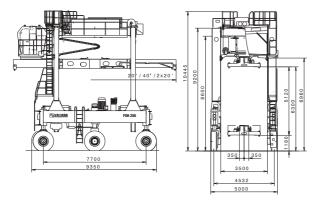
2-HIGH MODELS		FSH 240	FSH 250
OPERATING DATA			
Capacity under spreader	ton	40	50
Service weight	ton	51	52
Wheel load fully loaded	ton	15.2	17.0
DIMENSIONS			
Lifting height, max.	mm	63	00
Pick-up height, min.	mm	11	80
Inside clear width	mm	3500	
Turning radius, inside	mm	3550	
Turning radius, outside	mm	10500	
SPREADER			
Twistlocks		IS	iO
Positions	ft	20, 40	20, 40/2x20*
Side shift	mm	± 350	
Slew angle	deg.	± 6	
SPEEDS			
Max. travel speed, empty	km/h	3	0
Max. travel speed, loaded	km/h	30	22
Max. lifting speed, empty	m/min	2	0
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		Fully electric	
Charging System		Kalmar FastCharge	
Energy storage		Lithium-ion I	pattery (LTO)
ENGINE (OPTIONAL) **			
Power	kW	77	
Torque	Nm	425	
Displacement	dm ³	4,4	
Emission level		EU stage II/ EU stage IV/ US Tier 4f	
DRIVE SYSTEM			
Туре		2-wheel drive	
Control		AC-frequency control	
Electric motors		2 induction 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		1induction motor	
CONTROL SYSTEM			
Туре		PL	C

* Also available extendable twinlift 45 ft Subject to change without notice

** Optional diesel generator for extended operation range





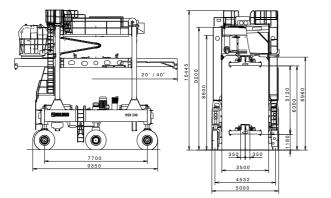


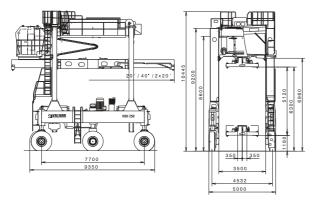


Kalmar Hybrid Shuttle Carrier

Technical Data

2-HIGH MODELS		HSH 240	HSH 250
OPERATING DATA			
Capacity under spreader	ton	40	50
Service weight	ton	51	52
Wheel load fully loaded	ton	15.2	17.0
DIMENSIONS			
Lifting height, max.	mm	6300	
Pick-up height, min.	mm	1180	
Inside clear width	mm	3500	
Turning radius, inside	mm	3550	
Turning radius, outside	mm	10500	
SPREADER	· · · · ·		
Twistlocks		IS	60
Positions	ft	20, 40	20, 40/2x20 ³
Side shift	mm	± 3	350
Slew angle	deg.	±	6
SPEEDS			
Max. travel speed, empty	km/h	3	0
Max. travel speed, loaded	km/h	30	22
Max. lifting speed, empty	m/min		.0
Max. lifting speed, loaded	m/min	13	9
Max. lowering speed, empty	m/min	-	8
Max. lowering speed, loaded	m/min	13	9
POWER UNIT			
Туре		Hybrid	
Charging System		Diesel generator	
Energy storage		Lithium-ion battery (LTO)	
ENGINE			
Power	kW	7	7
Torque	Nm		
Displacement	dm ³	425	
Emission level	GITT		
		EU stage II/EU stage IV/ US Tier 4f	
FastCharge as option			
DRIVE SYSTEM	I		
Туре		2-wheel drive	
Control		AC-freque	ncy control
Electric motors		2 inductio	on motors
TYRES			
Size		480/9	95R25
BRAKES			
Service brakes		Wet disc in	four wheels
Parking brakes		Spring actuated, wet disc in two wheels	
HOIST SYSTEM		110C UIGO III	
Туре		Winch r	ne hoist
Control		Winch rope hoist	
		AC-frequency control 1 induction motor	
Electric motor CONTROL SYSTEM		i inqueti	
_			0
Туре		PLC 24 V	





Kalmar Diesel-electric Shuttle Carrier

Technical Data

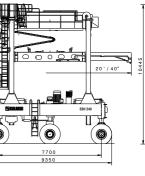
		ESH 240	ESH 250
OPERATING DATA			
Capacity under spreader	ton	40	50
Service weight	ton	51	52
Wheel load fully loaded	ton	15.2	17.0
DIMENSIONS			
Lifting height, max.	mm	63	300
Pick-up height, min.	mm	1180	
Inside clear width	mm	3500	
Turning radius, inside	mm	3550	
Turning radius, outside	mm	9500	
SPREADER			
Twistlocks		IS	60
Positions	ft	20, 40	20, 40/2x20*
Side shift	mm	± 350	
Slew angle	deg.	± 6	
SPEEDS			
Max. travel speed, empty	km/h	з	80
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	18	
Max. lowering speed, loaded	m/min	13	9
POWER UNIT			1
Туре		Diesel-electric	
Power system		Variable speed AC-generator	
DRIVE SYSTEM			
Туре		2-wheel drive	
Control		AC-frequency control	
Electric motors		2 induction 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 induction motor	
CONTROL SYSTEM			
Туре		PLC	
Voltage		24 V	

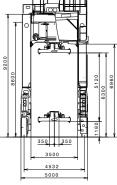
ENGINE OPTIONS FOR BOTH MODELS				
Power	kW	285		
Torque	Nm	1938		
Displacement	dm ³	10.8		
Emission level		EU stage II/ III A/ IV/ US tier 2/ 3/ 4f		

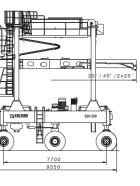
*Also available extendable twinlift 45 ft Subject to change without notice

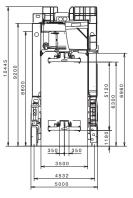
*Also available extendable twinlift 45 ft Subject to change without notice













www.kalmarglobal.com

Published by Kalmar, part of Cargotec. Copyright © Cargotec 2017. All rights reserved.