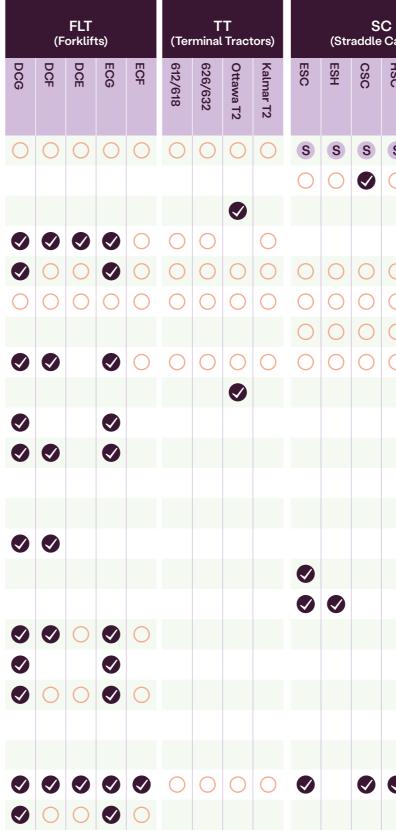


Equipment upgrades

2.E

Equipment upgrades overview			GENERAL	RST (Reachstackers)			rs)	ECH (Empty Container Handlers)			
чΡ	914400 0101 11011		P L	DRG	DRU	DRF	DRT	DCG	DCU	DCF	DCT
SERV	ICES SALES ITEM										
1	Air Conditioning Kits	Productivity		S	0	0	0	0	0	0	0
2	Active Stability Control System*	Safety									
3	Air Dryer	Productivity									
4	Automatic System Shut Down**	Eco-efficiency			•						
5	Blue Safety Light*	Safety		0	0	0	0	0	0	0	0
6	Central Lubrication*	Productivity						0	Ο	0	0
7	Container Counter**	Productivity			•			0	0	0	0
8	Driver Identification with PIN Code**	Safety					0				0
9	Dual Fuel Tank	Productivity									
10	Eco Drive Mode**	Eco-efficiency									
11	Hoist Accumulators	Productivity						Ø	0		
12	Hook System*	Productivity									
13	Hydraulic Sliding Cabin	Productivity									
14	Pause Heater*	Productivity									
15	Proactive Stability System**	Safety									
16	Rectifier Upgrade Package*	Productivity									
17	Reverse Alarm*	Safety		S	S			Ø		•	
18	Reverse Camera with Monitor in Cabin	Safety									
19	Seatbelt Interlock**	Safety			•	0	0	0	0	0	0
20	Soft-landing System*	Safety									
21	Speed Limitation Outside Transport Mode**	Safety			•						
22	Speed Limiter**	Safety							Ø	0	0
23	Weight Scale**	Productivity		S	S	0		0	0	0	0



For more information about Kalmar Equipment Upgrades please contact your local Kalmar representative or see **kalmarglobal.com/contacts**

* Includes parts and software

** Includes software only



Product available: exact equipment availability shown in SSI master document

Product possibly available: contact Services technical support for more information.

S Standard option in the equipment (note, not all standard options are marked)

) Carri	ers)		CRANES				OTHER BRANDS				
HSC	SHH	SHC	ASC	RMG	RTG E-One	All	3 rd party RTG	Terberg YT222	All		
S	S	S			0	\bigcirc	0	0	0		
<	•	•									

		FEATURES	BENEFITS	CUSTOMER NEED
1	Air Conditioning Kits	 Retro fit air conditioner kit designed especially for Kalmar equipment Can be installed by your local Kalmar Service team or by your local dealer. 	 Everything you need in one model specific kit Creates a more comfortable and safer operating environment for your drivers. 	Productivity
2	Active Stability Control	 A complete package that can be integrated into your straddle carriers PLC Warns operators that safety stability margins have been exceeded through standard alarms and warnings If stability limits are exceeded hoisting speed is restricted to 8 m/min and shifting to higher gears is prevented Once machine is back within normal stability parameters all restrictions are lifted. 	 Makes equipment much safer to operate Helps maintain correct stability levels without compromising performance especially when turning Keeps the driver operating within safe bounds reducing the risk of accidents and stress. 	Safety
3	Air Dryer	 Removes any water that may build up in the air brake system Expels oil and any solids from the system by using a special drying agent Keeps brake operating optimally Can be installed by the Kalmar Ottawa Service team or your local dealer. 	 Improves safety by helping to keep the air brake system working optimally Installation quality is guaranteed by Kalmar Ottawa. 	Productivity
4	Automatic System Shut Down	 Automatically shuts down your engine if it has been left idling for too long. 	 Can reduce fuel consumption and emissions by reducing idle time Helps extend the life of your engine, brakes and gearbox. 	Eco-efficiency
5	Blue Safety Light	 Projects a bright blue light onto the ground behind a reversing forklift Upgrade kit provides required hardware and operational software. 	 Helps bystanders know that a forklift is reversing Improves operational safety especially when operating your forklift within confined spaces indoors. 	Safety
6	Central Lubrication	 Systems automatically provides grease to required greasing points during operation Complete kit can be provided ready for retro-fitting Easy to access grease reservoir mounted externally. 	 Guarantees that all greasing points are well lubricated automatically during operations Reduces manual maintenance time and costs as helps to reduce wear and tear Can help improve the lifetime value of your machine. 	Productivity
7	Container Counter	 Automatically counts all container lifts performed by the machine Displays container count on the cabin monitor. 	 Removes the need to manually record container lifts Can differentiate between top, over-height and bottom lifts Saves time and helps improve operational productivity. 	Productivity
8	Driver Identification with PIN Code	 Easy to install software upgrade Machine will not operate until four-digit pin code is entered into cabin touch screen Individual four-digit pin code can be issued to each operator. 	 Stops the unauthorised operation of protected equipment Can be set to activate engine or limit operational speed to 5km/h, making it possible to move the machine in case of an emergency. 	Safety
9	Dual Fuel Tank	Double current fuel capacityAutomatically feeds main tank.	 Reduces time spent refuelling by 50% Minimises risk of contamination that can cause accidents Fitted with steps and platform for easy access to the cabin. 	Productivity
10	Eco Drive Mode	 Software package that can be installed and tested by Kalmar Service team Provides three different levels of operational modes: Power, Normal and Economy. 	 Can cut fuel consumption by up to 25% Eco Driver mode can be set at the appropriate level to meet specific operation requirements Easy to change between the three modes Can reduce wear and tear on tyres and machine. 	Eco-efficiency
11	Hoist Accumulators	 Can reduce the impact of operating on uneven surfaces by dampening hydraulic systems and mechanical parts Helps to reduce hydraulic pressure peaks. 	 Makes operating equipment more comfortable for the driver Improves dampening performance when lifting or lowering loads. 	Productivity

		FEATURES	BENEFITS CUSTO	OMER NEED
12	Hook System	 Can be fitted in place of spreader system once appropriate modifications have been made Can be used to lift a variety of different loads. 	Enables existing equipment usage to be extended to different types of loads.	ivity
13	Hydraulic Sliding Cabin	 Enables the position of the cabin to be moved easily Cabin movement is controlled by an in-cabin switch. 	 Improves operational visibility for the driver Makes operations safer as cabin position can be adjusted quickly and easily from the cabin. 	ivity
14	Pause Heater	 Machine cabin can be kept warm during short breaks by using heat from the engines cooling system Automatically maintains cabin temperature within 6°C of set temperature. 	 Maintains a comfortable operating environment for driver Economical solution as uses heat directly from the machine's engine. 	ivity
15	Proactive Stability System	 Automatically monitors the stability of the straddle carrier Automatically alerts the operator when safe operational stability parameters have been exceeded If stability levels become critical the speed and torque will be automatically reduced and light braking applied Spreader sideshift is automatically centred if operation safety margins are exceeded and hoist speed is reduced. 	 Equipment maintains high operational safety standards Improved stability when operating Reduced risk of incidents. 	
16	Rectifier Upgrade System	 Complete upgrade pack provided to replace your current rectifier New PLC programme also included Higher current capacity with improved temperature margin. 	Simpler system with less possible fault points Robust design specially for mobile use Improved lifetime over earlier rectifiers.	ivity
17	Reverse Alarm	Rear mounted alarm that emits a warning alarm when the equipment is reversing.	 Improves overall safety as the alarm provides clear warning Reduces the risk of damage and personal injury. 	
18	Reverse Camera with Monitor in Cabin	Reversing camera mounted on back of machineIn cabin view provided through fitted monitor.	 Reduces the risk of any accidents when reversing Helps keep driver aware of what is going on behind them by improving overall visibility Acts as a second set of eyes. 	
19	Seatbelt Interlock	Seatbelt interlock system stops equipment from being operated unless the driver's seat belt is fastened.	 Stops equipment being operated if the driver's seat belt is not fastened Helps to reinforce a safety culture when operating equipment. 	
20	Soft-landing System	 Package includes sensors and software upgrade Automatically lowers the speed of spreader when connecting to a container. 	 Reduces maintenance costs Reduces the chance of damage to containers or the spreader Makes each lift safer by reducing the risk of the spreader hitting the container at speed. 	
21	Speed Limitation Outside Transport Mode	 Easily installed software upgrade Limits operational speed when load is positioned outside a safe operating zone. 	 Reduces risk of accidents and improves operational safety Improves handling safety when load is positioned outside of the safe operational zone. 	
22	Speed Limiter	 Software package that limits the driving speed of the equipment Software is installed and tested by a trained Kalmar Service engineer. 	 Ensures that equipment is always operated at safe speeds Decreases fuel consumption Improves potential lifetime of the equipment by reducing wear and tear. 	
23	Weight Scale	 Automatically weighs your load using the hydraulics in the lift cylinder Will weigh loads with an accuracy within 5% Load weight is clearly displayed on the machine display. 	 Driver can get the load weight directly without using additional weighing scales saving time and double handling Loads can be handled safely when the weight is known, especially when loading onto a Truck for transport. 	ivity

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