

Fully Electric Spreaders



KEY FEATURES:

- All electric version of heavy duty double girder VDL Spreader
 - Reduction of power consumption of up to 90% compared to hydraulic spreaders
 - High reliability
 - Easy maintenance and long service intervals
 - No hydraulic oil on the spreader that can be spilled in the water
- High torque, electric motor actuated flippers
- Low spreader height thanks to double girder design
- Mobile Electronic Control Unit
 - Dedicated to heavy duty mobile applications
- Spreader CANopen ready
 - prCiA 444 application profile, crane add-on devices
- Full electric system diagnosis
 - Overload, short-circuit, wire break detection
- Separating twin-lift configuration
 - Separating two 20ft containers from 0 to 1600 mm
- Superior powder coating surface protection
 - Higher physical, chemical and discolouration resistance
- Memory Positioning, Height Detection & Twin-Twenty Detection Systems available

THE VDL ELECTRIC SPREADERS ARE CRANE SPREADERS DESIGNED TO HANDLE 20-40FT / 20-40-45FT ISO CONTAINERS. THE DOUBLE GIRDER DESIGN IS STRUCTURALLY BASED ON THE VDL SHIP-TO-SHORE CRANE SPREADERS AND IS MADE OUT OF HIGH QUALITY STEEL IN ORDER TO REDUCE THE WEIGHT OF THE SPREADER.

The robust and reliable telescopic system consists of two electric motors (both 2,2 kW) powering two timing belts, equipped with shock absorption through spring washer packages. The twistlocks system works with one electrical motor (0,37 kW) per end beam which powers a rotating system. This system is connected with the different "quick exchange floating twistlocks" by a bar. Flippers are moved by one 1,1 kW electro motor per flipper which powers a transmission. Between the motor and the transmission a clutch is installed which will open in case of high external pressure. All the electric motors used are of SEW a renowned brand which is available worldwide.

VDL Electric Spreaders are available as single-, twin- and separating twin-lift version. The series are available with several options and different guides/flippers combinations.

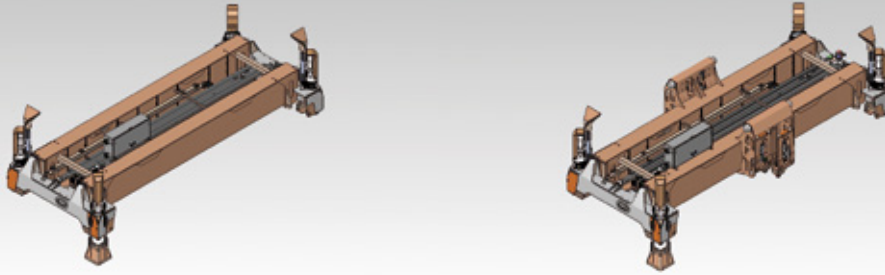
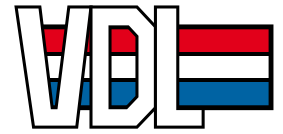
VDL Containersystemen is part of the VDL Groep, an international industrial organisation. It is a conglomerate of flexible, independent companies, each with its own specialty. The strength of the VDL Groep lies in the mutual cooperation between the companies. Since its founding in 1953, the VDL Groep has grown to include 79 operating companies, spread throughout 16 countries with approximately 7,100 employees.



Strength through cooperation



Fully Electric Spreaders



MODEL	Yard Crane		Ship to Shore		
	CH6450 E	CH6450FT E	CH6550 E	CH6550 Fixed Twin E	CH6550 Long Twin E
Lifting capacity (Single lift)	41T	41T	51T/41T (40ft / 45ft)	51T/41T (40ft / 45ft)	51T/41T (40ft / 45ft)
Lifting capacity (Twin lift)	-	+/- 10% loading eccentricity 2x25T	-	+/- 10% loading eccentricity 2x32,5T	2x32,5T
Liftin lugs capacity		4x10T		4x10T	
Lifting capacity					
Spreader Tare Weight	7.800 kg	9.500 kg	9.600 kg	10.600 kg	12.000 kg
Hoisting speed	Depending on specifications, excl. Crane headblock mounting Max. 90 m/min		Max. 180 m/min		
Horizontal acceleration	Max. 0,5 m/s				
Design Criteria	EN 15056 / EN13001 H2 Q4 2.000.000 Load cycles				
Flippers	Optional		4 electrically operated corner flippers ≤ 5 seconds		
180° rotation time					
Torque	3000 Nm, both acting and retaining				
Twistlocks	Forged and hardened steel				
90° rotation time	Approximately 1 second				
Telescopic system	2 electric motors powering 2 timing bells				
Time 20 to 40ft	≤ 20 seconds				
Time 20 to 45ft	≤ 25 seconds				
Time 0 to 5ft (Long Twin)	Approximately 20 seconds				
Speed up/down twin boxes	-	4-6 sec.	-	4-6 sec.	4-6 sec.
Electrics					
Power supply	3x400 VAC / 50-60 Hz or otherwise as agreed				
Control from crane	Conventional (10-450 VDC/10-450 VAC), Profibus or Canbus				
Control on spreader	24 VDC				
Power consumption	Max 4,5 kW, stand by 100 Watt average				
System diagnosis	Onboard spreader display, sensor diagnostics				
Indicator lights	High power LED lights				
Surface coating	Powder surface coating, 210µm paint thickness				
MAIN OPTIONS					
Damping system	System which enables the complete cornercasting to be moved 8cm independantly				
Flippers	Side flippers available at corners or on middle of end beam				
Telescoping positions	All positions from 20 to 45ft possible				
Memory Positioning	All positions from 20 to 45ft possible				
Rotator	Fully electric rotation -95° / +185° rotation				
2x20ft detection system	Detects 2x20ft containers when in 40ft mode				
Height detection system	Detects the distance between spreader and container				
Other capacity	Spreader capacity can be in- and decreased upon request				



The full manufacturing process of VDL Containersystemen is certified with ISO 9001 and ISO 14001 qualification, approved by TÜV.



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