

MODEL 818 INNOVATION^[E]

GANTRY MOUNTED TOP LIFT SPREADER
FOR LADEN CONTAINER HANDLING



Standard supply includes:

- ♦ Mounting arrangement to fit the gantry*
- ♦ Mechanical pile slope (MPS)
- ♦ Powered pile slope (PPS) via gantry available as an option
- ♦ Four vertical pendular ISO twistlocks
- ♦ Lifting eyes near twistlocks
- ♦ Hydraulic telescoping
- ♦ Hydraulic slew and reach
- ♦ Solenoid valves for all hydraulic functions
- ♦ Electric twistlock indication system
- ♦ Electric and mechanical twistlock protection system
- ♦ Electric telescoping protection system
- ♦ Lift interrupt signal
- ♦ LED-indication lights
- ♦ LED-work lights

ELME Spreader Model 818 INNOVATION is a telescopic top lift spreader for handling of laden ISO containers weighing up to 45 tonnes. 818 INNOVATION is designed for use under a gantry at the front of a lift truck.

The strong and basic concept offers distinct advantages, such as two parallel telescopic beams, assuring max overlap. Beam sections dimensioned to absorb not only the vertical, but also the very considerable horizontal forces.

INNOVATIVE DESIGN

INNOVATION's new and improved design implies a New Generation 818 INNOVATION spreader with the unique combination of increased structural strength and reduced weight.

The New Generation 818 INNOVATION Spreader is estimated to have an increased life expectancy of 30 % related to fatigue resistance and standard load case conditions.

The reduced spreader weight enables improvements on the lift truck design. The New Generation design also implies numerous improvements to promote easier service.

TWISTLOCK SYSTEM

The previous generations well-proven Twistlock system, manufactured in a rugged design, carries all its benefits into the New Generation of spreaders. 818 INNOVATION has hardened ISO quick exchange pendular twistlocks that are hydraulically activated with mechanical interlocking against faulty locking and unlocking.

GANTRY MOUNTING WITH MECHANICAL PILE SLOPE

Gantry mounting is used for lift trucks, dedicated

to container handling only. Four telescopic hangers connect the spreader to the gantry. Gravity assures the level position of the spreader. The hangers will allow the spreader to automatically adapt to containers on trailers or on uneven ground.

TELESCOPING, SLEW, REACH AND SIDESHIFT SYSTEM

Telescoping is powered by one hydraulic cylinder for each end beam and sideshift is executed by one hydraulic cylinder. The slew and reach motions are possible thanks to two hydraulic cylinders that connect the spreader to the gantry. By powering either one or both cylinders, the slew and reach functions are activated.

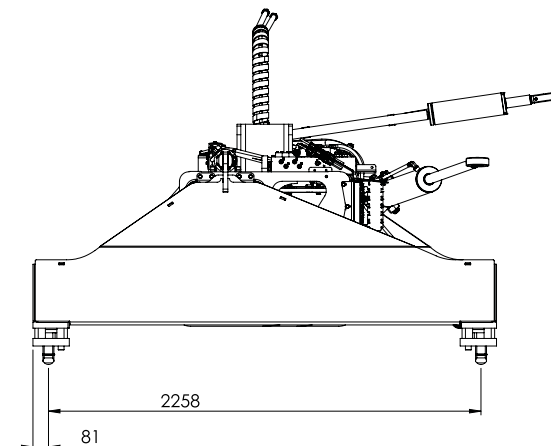
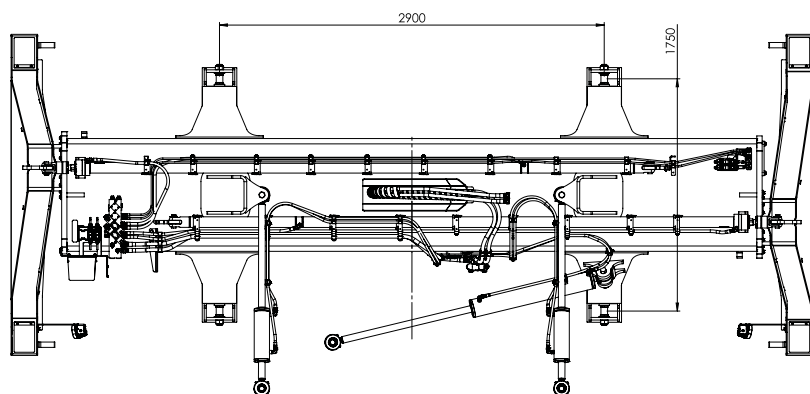
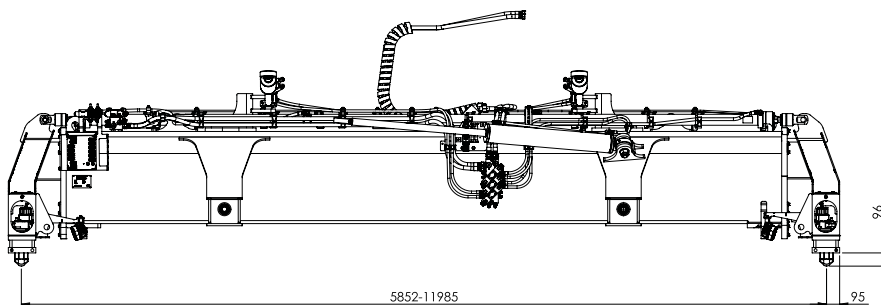
CONTROL AND PROTECTION SYSTEM

The ELME Neuron CAN bus system, designed for maximum robustness, monitors the state of the spreader at all times. Indicator lights advise the operator when the spreader is correctly seated, locked or not locked. Each signal is a precondition for the important protection functions of the spreader such as twistlock activation, telescoping and lift interrupt.

Neuron uses J1939 protocol which provides fault code messaging to alert driver and maintenance personnel of possible component failures.

*Gantry for the spreader is not included.
To be ordered separately.

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TECHNICAL SPECIFICATIONS

Type of application	Gantry mounted
Type of lifting system	Four vertical twistlocks
Spreader weight (TW)	6 250 kg without extra equipment
Lifting capacity (SWL), spreader	45 tonnes \pm 10 % eccentric load
Lifting capacity (SWL), lifting eyes	4 x 11,25 tonnes
Twistlock	ISO pendular 20 mm
Telescopic positions	20 and 40ft
Telescoping speed, 20-40ft	< 16 sec.
Telescoping speed, 40-20ft	< 18 sec.
Slew	\pm 6°
Reach	+125/-105 mm
Sideshift, +/- 400 mm	7 sec.
Mechanical pile slope (MPS)	\pm 6°
Hydraulics, operating pressure up to	140 bar
Hydraulics, flow	60 L/min
Electric - control voltage	24 VDC
Communication	CAN 2.0B
Colour	Black grey RAL 7021



Improved design with work lights positioned on the end beams.



818 INNOVATION with optional PPS gantry.

All specifications are subject to change without notice. A list of options enables you to adapt the product more precisely to your needs and further information is available on request.

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