



# **OUR HYBRID EVOLUTION IN ACTION**

More load, less energy



More load, less energy

2006

HybriLift® Testing and Development

2008

200 **HybriLift®** into Production and Operation

2010

120 **HybriLift**® into Production and Operation

**2011** 

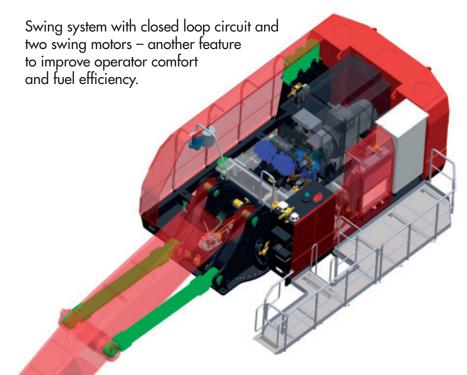
Brand new 160 **HybriLift®** is Launched and in Operation

Increases Energy Efficiency by up to 35%

The unique HybriLift® energy storage and redelivery system increases energy efficiency by recycling up to 35 % of the energy used to lift the main boom.

Mantsinen HybriLift® cranes use smaller diesel engines or electric motors for better fuel economy and lower emissions.

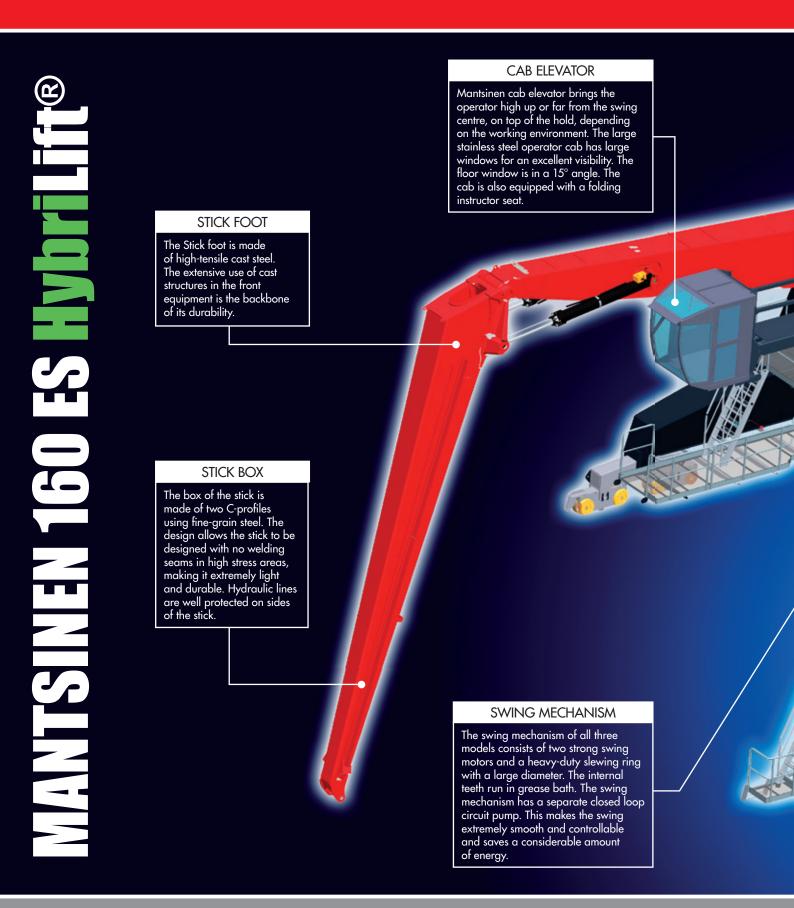
Specially designed for bulk material and general cargo handling, with a wide range of attachments.





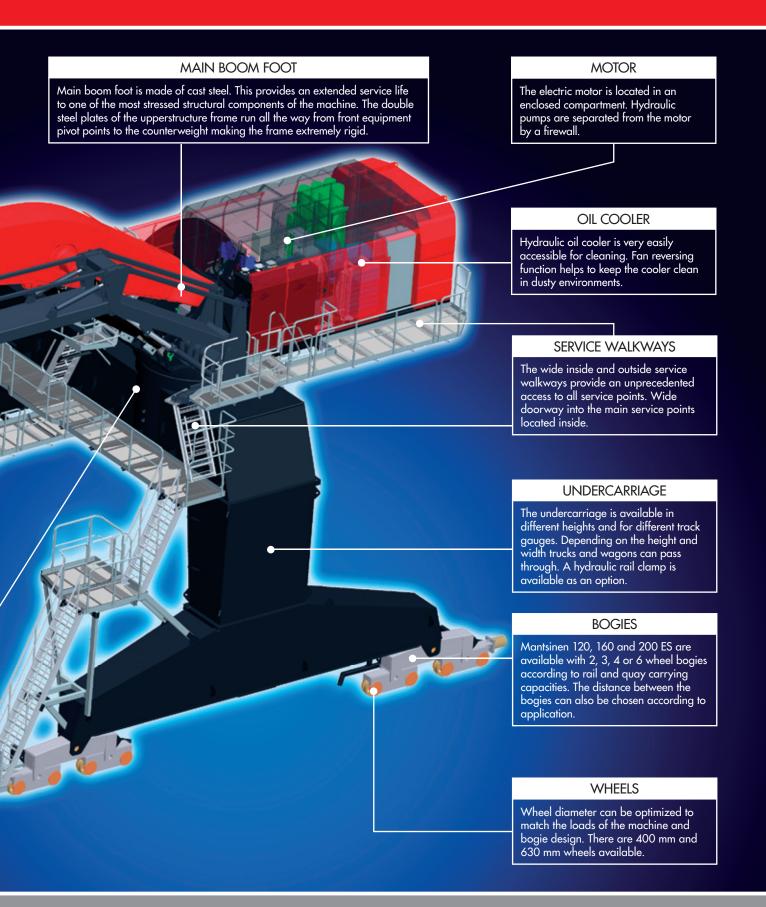




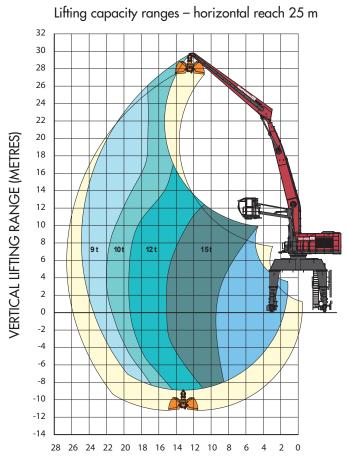


More load, <u>less</u> energy

#### lift your efficiency to the next level with hydraulic precision



## **MANTSINEN**



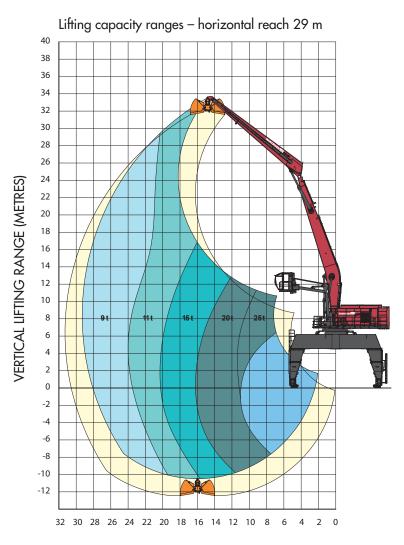
HORIZONTAL LIFTING RANGE (METRES)

### **MANTSINEN 120 ES HybriLift® - Technical specifications**

Front equipment	
Max. horizontal reach	Approx. 27 m
Lifting capacity (approx.)	9 t /20 m (max. horizontal reach 27 m)
Lifting capacity Heavy Lift (approx.)	11 t /20 m (max. horizontal reach 27 m)
5	
Electric motor 120 ES	
Power	250 kW / 1 500 r/min
Voltage	400 to 690 V
Cab elevator N2-5000	
Horizontal movement	Max. 8,5 m from swing centre
Vertical movement	Operator eye level max. 13 m (undercarriage height 7 m)

Illustrated machines can have optional equipment. Specifications subject to change without prior notice.

### lift your efficiency to the next level with hydraulic precision

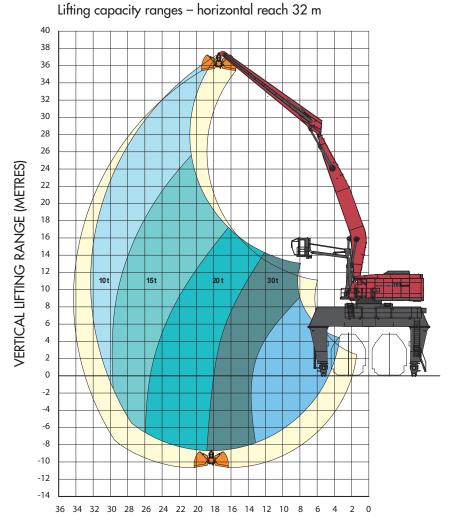


HORIZONTAL LIFTING RANGE (METRES)

#### **MANTSINEN 160 ES HybriLift® - Technical specifications**

Front equipment	
Max. horizontal reach	Approx. 29 m
Lifting capacity (approx.)	18 t /20 m (max. horizontal reach 26 m)
Lifting capacity Heavy Lift (approx.)	20 t /20 m (max. horizontal reach 26 m)
Electric motor 160 ES	
Power	315 kW / 1 500 r/min
Voltage	400 to 690 V
Cab elevator N2-6000	
Horizontal movement	Max. 11 m from swing centre
Vertical movement	Operator eye level max. 13 m (undercarriage height 7 m)

Illustrated machines can have optional equipment. Specifications subject to change without prior notice.



HORIZONTAL LIFTING RANGE (METRES)

#### **MANTSINEN 200 ES HybriLift® - Technical specifications**

Front equipment	
Max. horizontal reach	Approx. 37 m
Lifting capacity (approx.)	25 t /20 m (max. horizontal reach 32 m)
Lifting capacity Heavy Lift (approx.)	40 t /18 m (max. horizontal reach 24 m)
Electric motor 200 ES	
Power	355 kW / 1 500 r/min
Voltage	400 to 690 V
Cab elevator N2-6000	
Horizontal movement	Max. 11 m from swing centre
Vertical movement	Operator eye level max. 15 m (undercarriage height 9 m)

Illustrated machines can have optional equipment. Specifications subject to change without prior notice.

#### **Mantsinen Group Ltd Oy**

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