MANTSINEN 160 R and 160 ER HybriLift®

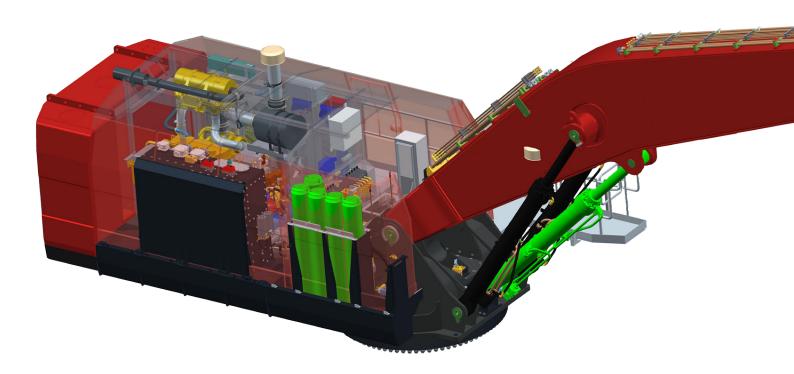




More load, less energy

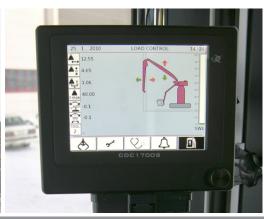
MANTSINEN 160 R HybriLift®

Increases Energy Efficiency by up to 35%









More load, less energy

lift your efficiency to the next level with hydraulic precision

2006

HybriLift

testing and development

2008

200 HybriLift® into production and operation

2010

120 HybriLift® into production and operation

2011

160 HybriLift® into production and operation

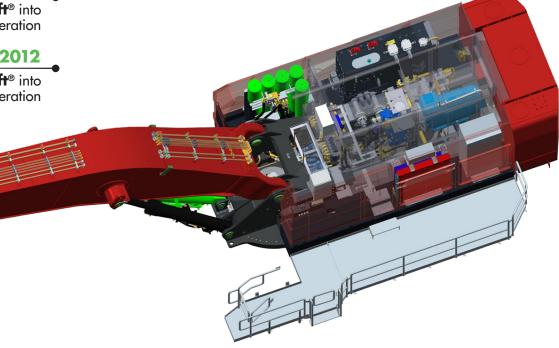
2012

70 and 90 HybriLift® into production and operation 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.

Swing system with closed loop circuit and two swing motors - another feature to improve operator comfort and fuel efficiency.

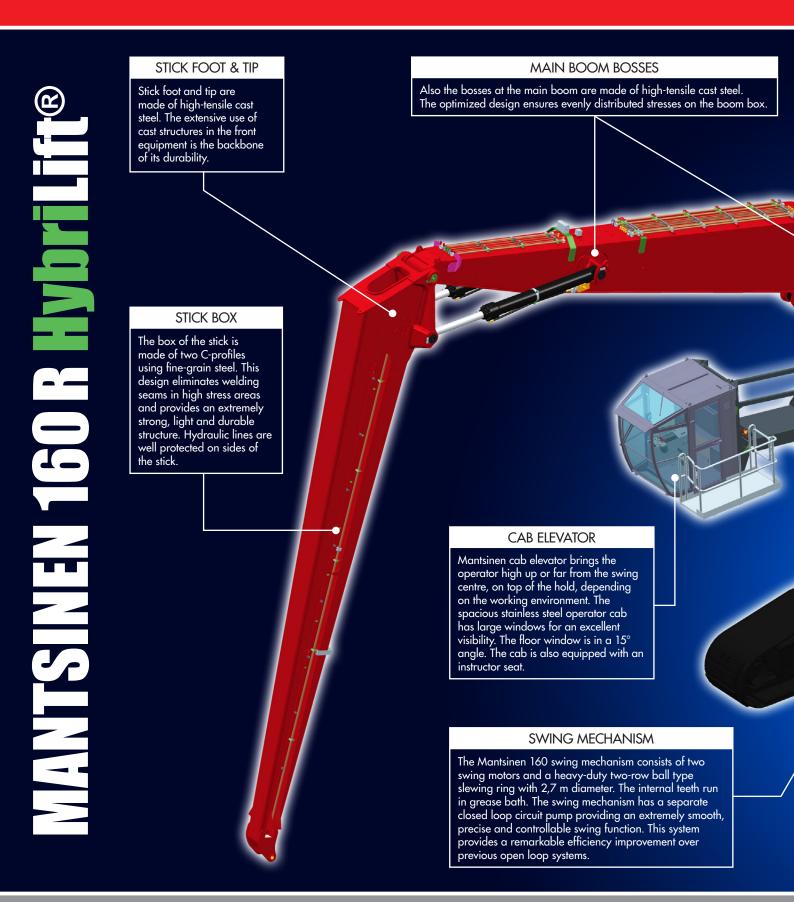






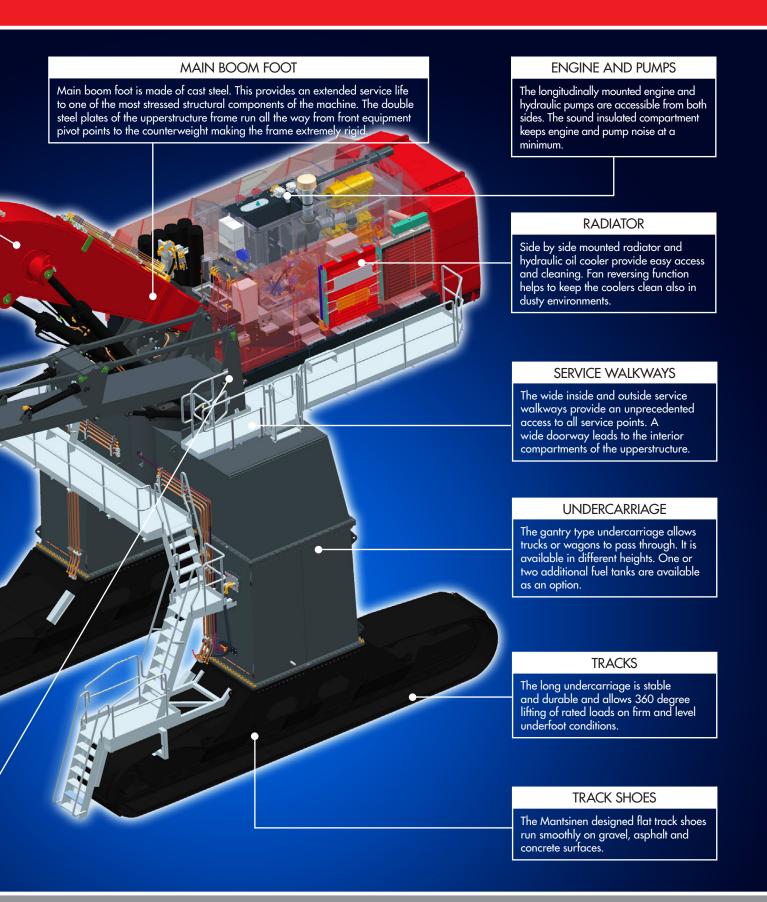


MANTSINEN 160 R and 160 ER HybriLift®



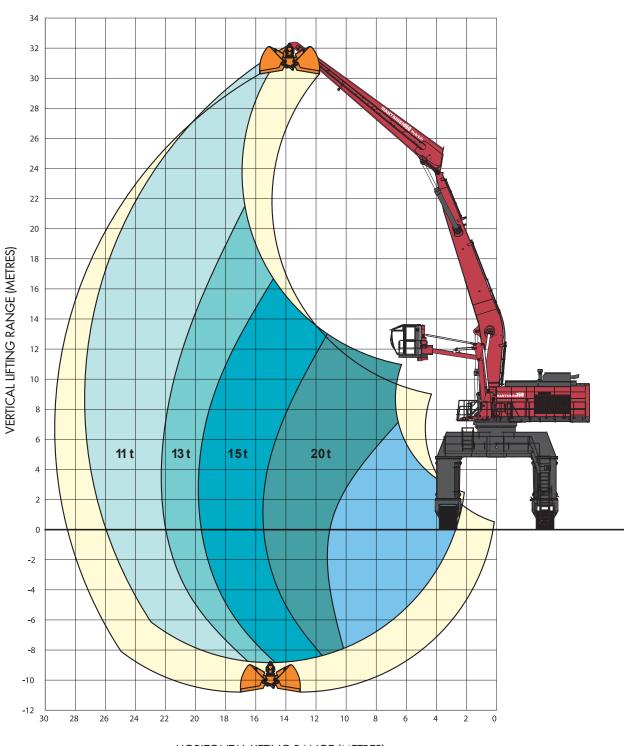
More load, less energy

lift your efficiency to the next level with hydraulic precision



MANTSINEN 160 R and 160 ER HybriLift®

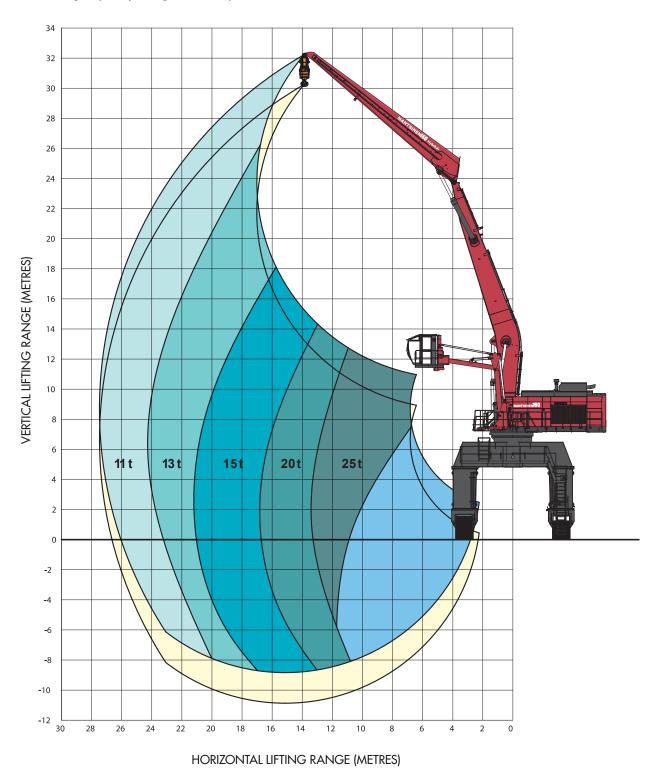
Lifting capacity ranges – horizontal reach 27,5 m



HORIZONTAL LIFTING RANGE (METRES)

lift your efficiency to the next level with hydraulic precision





MANTSINEN

MANTSINEN 160 R and 160 ER HybriLift® - Technical specifications

	_
Front equipment	
Max. horizontal reach	Approximately 32 m
Lifting capacity	15 t /20 m (max. horizontal reach 27,5 m)
Lifting capacity Heavy Lift	20 t /20 m (max. horizontal reach 25,5 m)
Engine 160 R	
Type	Caterpillar C-18 ACERT
Power	522 kW, @ 1800 rpm
Number of cylinders	6
Displacement	18.1 litres
Flankin water 140 FD	
Electric motor 160 ER Nominal power	315 kW
Voltages	380 V to 690 V
*	300 ¥ 10 070 ¥
Hydraulic system	
Oil flow, equipment and drive	3 x 415 l/min
Working pressures	330 bar. Heavy lift mode and track drive 350 bar
Oil flow, swing	500 I/min, closed loop circuit
Max. swing speed	5,9 r/min
Swing torque	375 kNm
Undercarriage	
Heights	3 m / 4 m Gantry 6,9 m / 9 m
Load carrying track length	7 100 mm
Track shoes	1 000 mm flat
Drive speeds	0 – 1,9 km/h and 0 - 3,4 km/h
Cab elevator N1-3000	
Horizontal reach	Operator eye max. 4 m from swing centre
Vertical reach	Operator eye level 1,5 to 4,5 m + undercarriage height
	- - - - - - - - - -
Cab elevator N2-5000	
Horizontal reach	Operator eye max. 8,5 m from swing centre
Vertical reach	Operator eye level -2,5 to +6 m + undercarriage height
Weight without attachments	
Depending on configuration	170 - 190 t
Refill capacities	
Hydraulic oil reservoir	1 500
Fuel tanks	2 x 1 300 l
Additional fuel tank gantry, option	3 000 / 6 000
- /: 1	

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Your dealer: