



# CRABster Winch

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Winch for loads up to 250 t



CRABster

- Loads up to 250 t
- Four frame sizes
- Available as a solo winch or with a crane kit
- Double girder trolley or fixed hoist
- True vertical lift – no horizontal hook movement
- Compact design
- Optimal approach dimensions
- Stepless crane and trolley travelling
- Ambient temperatures from +5 °C up to +40 °C

## • Precise and safe operation

Hoist condition monitoring system NovaMaster as overload protection with strain gauge load measuring, hoisting frequency inverter with closed loop, hoisting motor with encoder, frequency inverter controlled travelling machineries

## • Optimal usage of space and equal wheel load distribution

Compact design and optimal approach dimensions, no horizontal hook movement

## • Various design options

Well thought-out construction based on standardised components, calculation support via CraneMaster software

## • Lower maintenance costs and short downtimes

New hook block design with tilted sheaves for reduced rope wear, easy accessible central lubrication, just one type of hoisting motor, gear and frequency inverter per frame size

**Advantage: highest possible efficiency and optimal usage of space**



CRABster M double girder trolley up to 250 t



CRABster F fixed hoist for free-standing installations up to 250 t

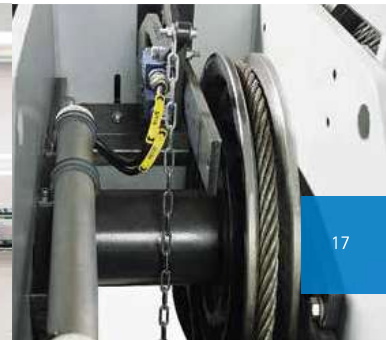
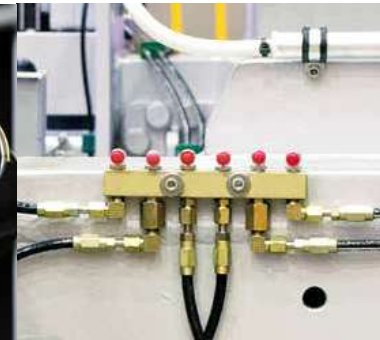
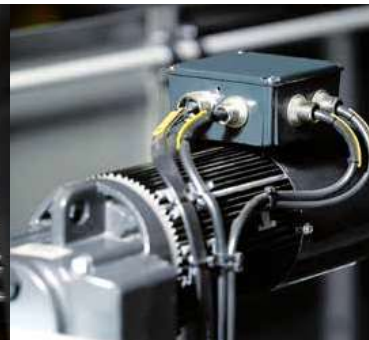
Type	Reeving	Load t / FEM classification / Lifting speed m/min 50 Hz												Lifting height m		
		16	20	25	32	40	50	63	80	100	125	160	200		250	
CT18	22	3m 0-19,5	2m 0-14,4													38,6 – 80,3
	23			3m 0-12,5	2m 0-8,8											25,7 – 53,6
	24				3m 0-9,0	2m 0-7,2	18m 0-6,4									19,3 – 40,2
	25					3m 0-7,0	2m 0-5,6	18m 0-5,0								15,4 – 32,1
	26						3m 0-6,0	2m 0-4,5	18m 0-4,0							12,9 – 26,8
	28								2m 0-3,6	18m 0-3,2						9,7 – 20,1
CT19	22			3m 0-20,0	2m 0-14,4											42,6 – 104
	23					3m 0-12,8	2m 0-9,0									28,4 – 69
	24						3m 0-9,0	2m 0-7,2	18m 0-6,4							21,3 – 51,8
	25							3m 0-7,0	2m 0-5,6	18m 0-5,0						17 – 41,4
	26								3m 0-5,6	2m 0-4,4	18m 0-4,0					14,2 – 34,4
	28										2m 0-3,6	18m 0-3,2				10,6 – 25,9
CT20	22					3m 0-10,0	2m 0-9,0									55,6 – 129
	23							3m 0-6,4	2m 0-5,7							37,1 – 85,8
	24								3m 0-5,0	2m 0-4,5	18m 0-4,0					27,8 – 64,3
	25									3m 0-4,0	2m 0-3,6	18m 0-3,2				22,2 – 51,5
	26										3m 0-3,2	2m 0-2,8	18m 0-2,8			18,5 – 42,9
	28											3m 0-2,6	2m 0-2,2	18m 0-2,0		13,9 – 32,2

Subject to change without prior notice. You will find further technical information in our manuals and dimensional drawings. Excerpt from the entire supply range. Type CT17 is not listed here.

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Well thought-out technology and powerful components guarantee maximum safety and efficiency.



State-of-the-art electrics

Gentle inclination

Trolley travelling motor with PLIOTEX type wire marking

Central lubrication

Free accessible pulleys and hook operated ultimate hoisting limit switch

The CRABster winch is delivered complete with control panels, all of which are pre-bolted and pre-wired accordingly. Standardised modules are used depending upon the performance features of the crane or of the individual winch. In the case of an individual winch, one control panel remains free for the individual equipment. The main components of the control panel are the frequency inverters for crane and trolley travelling, as well as lifting and lowering, the hoist condition monitoring system NovaMaster, the main contactor and the control transformer. There is also space for an optional radio remote control. Each control panel is equipped with 15W interior lighting. A 230V socket can be found on the narrow outer side of the standing unit.

Standard PLIOTEX cable markings guarantee a sustainable and quick overview of the wiring.

Stainless steel control panels, rain protection covers, heaters and air conditioning systems for operation in adverse conditions are available as optional extras.

The standard rope drive of our CRABster winch with its thought-out rope angles and tilted sheaves in the newly constructed hook block, ensures a considerably longer lifetime of the load rope and the sheaves. In addition, the rope guides are made of cast iron, which also have a positive effect on the service life. Maintenance costs and downtimes are noticeably reduced.

Due to the use of two ropes, CRABster lifts without horizontal hook movement. The low C-dimension is the result of the optimised headroom of the winch and enables the user to efficiently use space with respect to the lifting height. The innovative design of the CRABster makes access to the upper sheaves and the overload protection easier.

## Standard equipment:

- Robust rope guides made of cast iron
- 4-step gear limit switch
- Additional safeguard by hook operated ultimate hoisting limit switch
- Hoist condition monitoring system NovaMaster
- 2-step trolley travel limit switch
- Frequency inverter for travelling machineries
- Hoisting inverter with closed loop technology, hoisting motor with encoder
- Thermal protection for hoisting and travel motors
- High duty time
- "Ready to use" bridge panels
- PLIOTEX type wire marking
- Bridge panels with inner light, 230V plug outside
- Horn 108 dB
- IP55 protection
- Epoxy paint, 120 µm

## Options:

- Radio remote control
- Central lubrication
- Maintenance platform
- ESR overspeed for faster lifting speeds with lower loads
- Second hoisting brake
- Ramshorn hook
- Rope pressure roller
- Guide rollers for trolley frame
- Standby heating for bridge panels and motors
- Air condition for bridge panels
- Stainless steel bridge panel
- Rain protection covers
- Crane lights
- Horn, 120 dB
- Derailment catches and storm locks for hoist and crane
- Ambient temperature -20°C - +60°C and much more