DEMAG
Cranes & Components
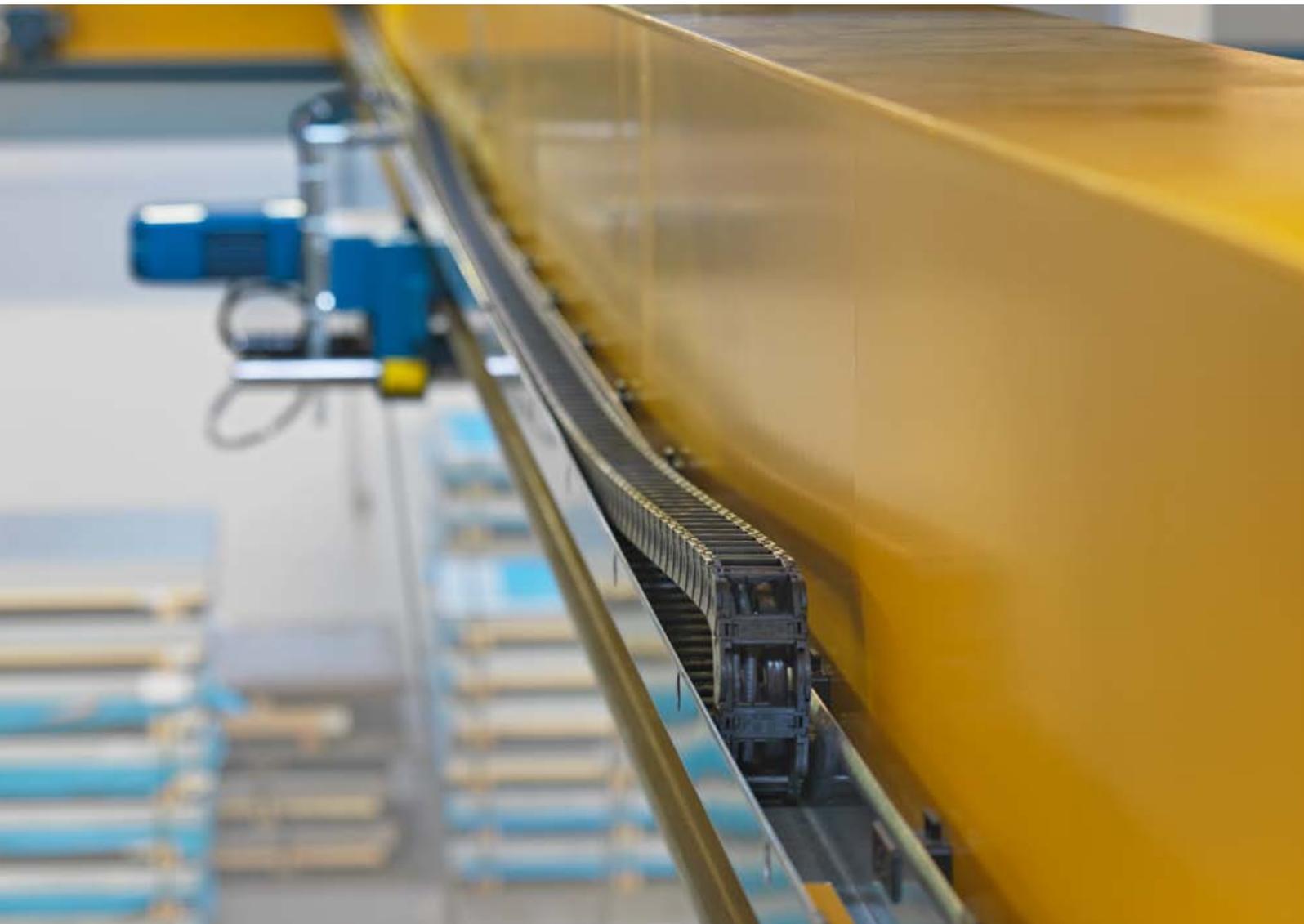
Demag energy chain systems

Innovative solutions for radio-controlled
Demag standard cranes

Demag energy chain systems –
improved cable protection, reduced wear

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To protect power-supply and control cables and to reduce their wear, radio-controlled standard cranes supplied by Demag Cranes & Components can be fitted with high-quality energy chain systems with state-of-the-art industrial design.

The flexible chain made of resilient plastic runs along the crane girder as the crane's "umbilical cord". Both the power-supply lines and the hoist-unit control cables are safely enclosed within it.

Available for all types
This practical equipment can be supplied for all Demag standard cranes that are operated with single and double crabs.

Energy chains can be supplied for:
- radio-controlled cranes
- single and double-girder cranes
- rolled and box-section girder cranes
- overhead travelling and suspension cranes
- rope and chain hoist crabs.

# Improved clearance dimensions, increased lifting height

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Compared to conventional trailing-cable systems (see small photo), energy chain systems offer improved clearance dimensions. This provides additional safety if the crane has to travel over high workshop equipment or parts of machinery, for example.

Particularly for large crane span dimensions, this solution does without the need for a cable accumulating section. The lifting height and the area covered by the crane are significantly increased.

All benefits at a glance

- No obstacles resulting from cable sag
- Higher safety near obstacles
- Improved area covered by the crane
- Minimum possible wear
- Reduced life-cycle costs
- Quiet running characteristics
- Easy assembly
- Use of conventional round cables

Practical solutions –
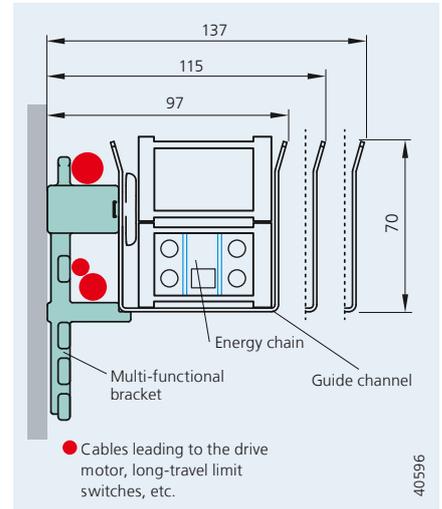# tried and tested details
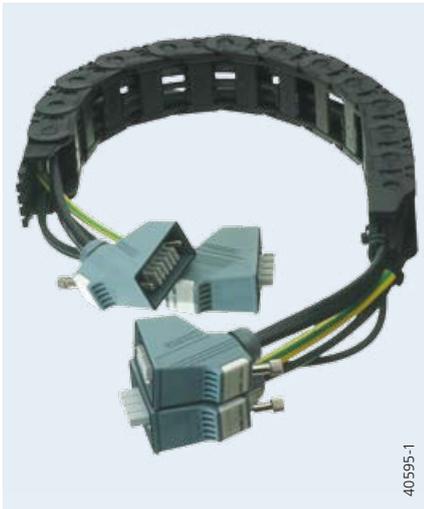
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As a protected cable guide, the pre-assembled and tested "umbilical cord" for the crab provides for extremely low cable wear and, therefore, minimises the need for maintenance.


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The partly open base of the guide channel, which is fitted to the side of the crane girder, allows dust, dirt and any moisture to escape.

137
115
97
70

Energy chain

Multi-functional
bracket

Guide channel

● Cables leading to the drive
motor, long-travel limit
switches, etc.

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The multi-function channel brackets, which are specially developed for this application, together with the matching attachment system, make it possible to lay other cables out of sight.

Travelling hoist 1

Travelling hoist 2
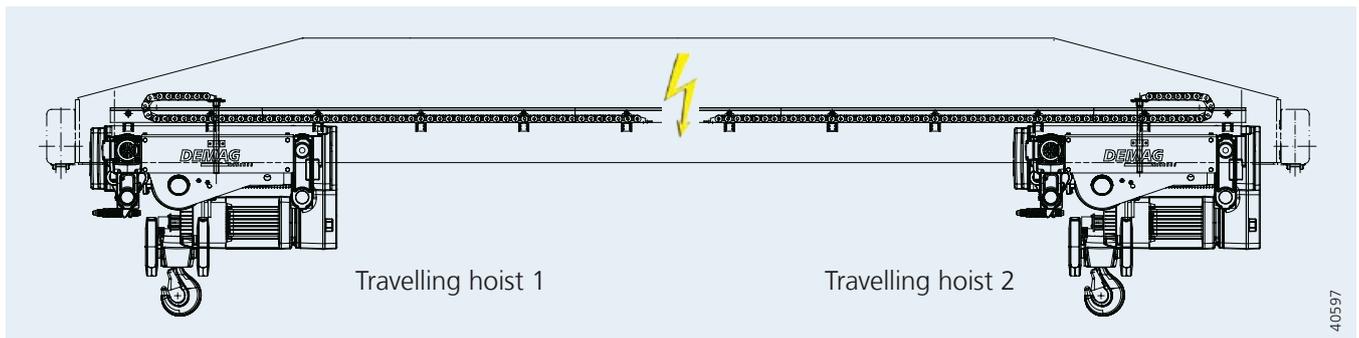
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In dual-crab mode, the power infeed point is not arranged at the end of the girder as for single-crab operation, but in the middle.

Integrated solutions

For Demag crane sets, too, of course

The state-of-the-art energy chain system is also included in the tried and tested Demag crane sets – as a fully pre-assembled and tested unit with integrated cables and connectors for fast, simple, safe and reliable assembly. Crane sets meet the most demanding requirements with the high level of quality you have come to expect.

Complete crane installations can be put into service quickly, easily and reliably using locally manufactured steelwork and Demag crane sets. With the certainty of global availability to save time and money.


Energy chain system

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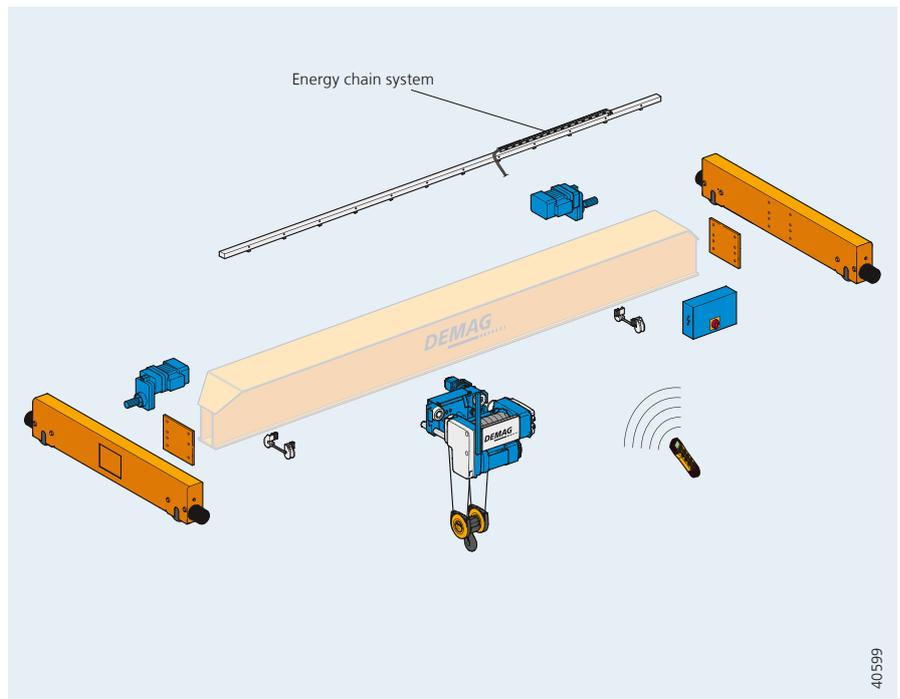
Demag crane set with the energy chain system for all radio-controlled Demag standard cranes

Demag Crane Designer – simple configuration

Demag Cranes & Components already provides you with support in the planning phase with a number of tools. These also include the interactive Demag Crane Designer at **www.demag-designer.com**.

Crane Designer includes all of the data required for the interactive configuration of standard cranes including the energy chain system. This enables a crane installation to be specified to meet your individual needs in a minimum of time. All relevant planning data such as dimensions, loads and forces can be obtained for further use at the click of a mouse button.
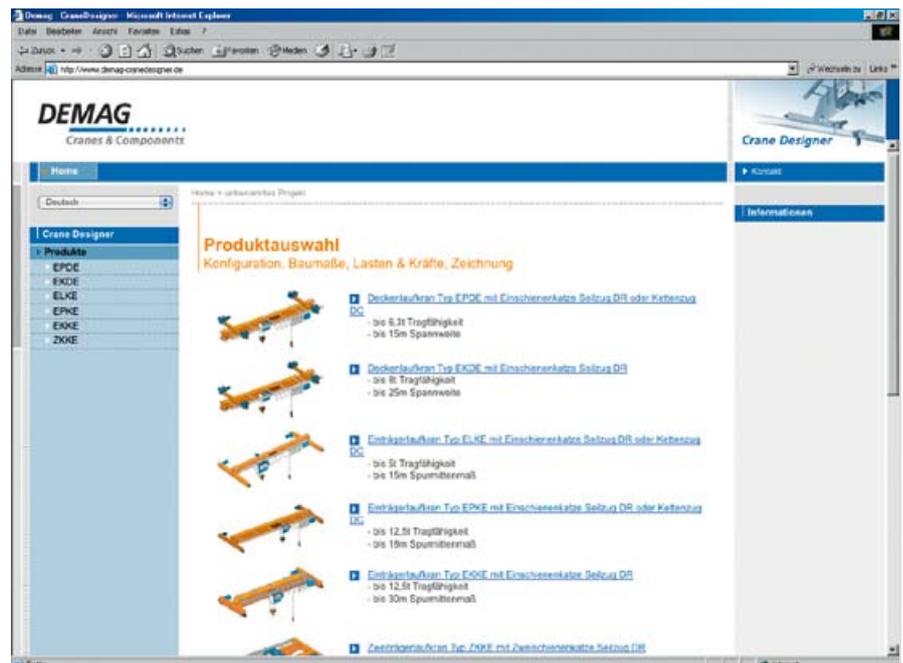
Interactive online project engineering – crane installations can be configured to meet your individual needs, at any time and place using a web browser.

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