

**Innovative.
Smart.
Lifting to the next level.**

The DHR rope hoist

DEMAG
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Innovative. Smart. Lifting to the next level.

Innovative lifting solutions for safe and forward-looking operations: The new DHR rope hoist offers a high level of versatility and productivity. The DHR combines the powerful features of its two predecessor generations: Reliability, productivity and – thanks to numerous options – tailored implementation to meet the requirements of many industries. From simple lifting applications to high-performance rope hoists with smart assistance and convenience features, the DHR meets all demands for highly efficient load handling.

Compact

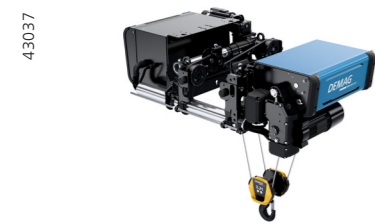
DHR rope hoists with compact design and low deadweight stand out due to their small external dimensions and a further reduced C dimension. This makes the best possible use of the working space for crane applications or stationary equipment.

Innovative

DHR rope hoists offer tailored solutions based on a single platform. Additional hardware options and operator assist features make a DHR rope hoist a smart hoist that is well equipped to meet future requirements: Lifting to the next level.

Smart

Demag DHR rope hoists offer operator assist features that make load handling even safer and more efficient. And transparent at all times thanks to the monitoring and remote monitoring tools.



43037
EK-DHR 3



43038
EK-DHR 5



43039
EK-DHR 10

*EK indicates low headroom hoist

DHR highlights

DHR rope hoists fulfil almost any requirement:

- EK-DHR: low headroom hoist, optimised for use on single-girder cranes or monorails

With the DHR rope hoist, you have the choice for the first time: Proven lifting technology with steel rope, and engineered to support our upcoming innovative synthetic rope option.

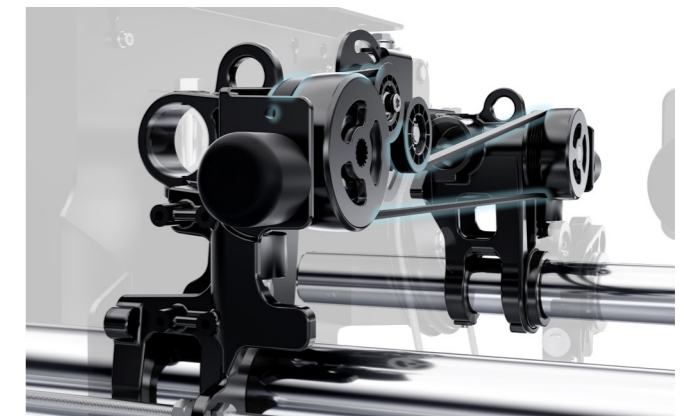
Features of the synthetic rope:

- Made of high-modulus polyethylene fibers
- 12-strand non-rotating structure
- Around 85% lighter than steel rope
- Temperature range: 14°F to 113°F (-10°C to +45°C)
- No lubrication required
- No wear on rope drum and return sheaves
- One type of rope for all applications



Trolley Travel

The DHR monorail hoist is equipped with one-wheel drive as standard for reliable cross-travel motion and positioning. Additional belt drive for applications involving outdoor exposure or heavy dirt accumulation on the crane rail.



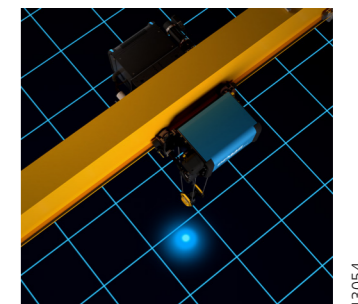
Optional thrust rocker

The DHR rope hoist has compact dimensions. It also impresses with a weight-optimised design of the hoist trolley: No counterweights are required with addition of the thrust rocker. These are available as an option.

- Reduced deadweight
- Compact dimensions

Optional blue safety light

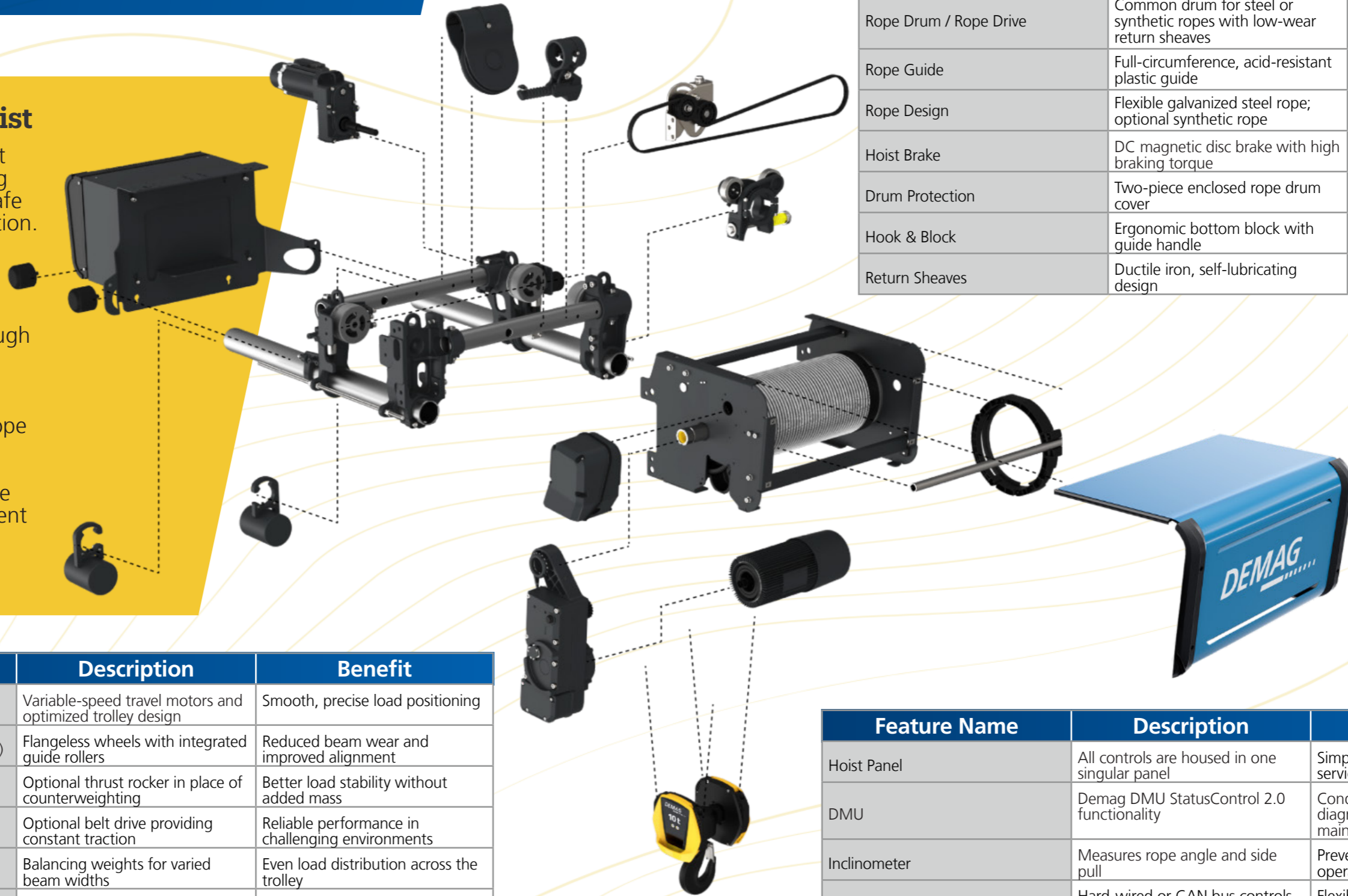
Added safety: a blue dot of light is projected on the floor to indicate the hook position



DHR Rope Hoist: Overview

Inside the DHR Hoist

The Demag DHR rope hoist represents innovative lifting technology designed for safe and future-oriented operation. Building on the strengths of the two previous generations, it combines reliability, efficiency and flexible configuration through a wide range of options to address diverse industrial requirements. From basic lifting tasks to advanced rope hoist applications with intelligent assistance and operator assist features, the DHR ensures precise, efficient and reliable load handling.



| Feature Name | Description | Benefit |
|------------------------|--|---|
| Hoist Gearbox | Compact, lightweight gearbox; factory-lubricated die-cast aluminum housing | Low maintenance, quiet operation, and reduced vibration |
| Rope Drum / Rope Drive | Common drum for steel or synthetic ropes with low-wear return sheaves | Longer rope life and reduced service costs |
| Rope Guide | Full-circumference, acid-resistant plastic guide | Reliable rope tracking even with up to 4° side pull |
| Rope Design | Flexible galvanized steel rope; optional synthetic rope | Lower deadweight and reduced component wear |
| Hoist Brake | DC magnetic disc brake with high braking torque | Secure stopping performance and long service life |
| Drum Protection | Two-piece enclosed rope drum cover | Protection from dust and moisture |
| Hook & Block | Ergonomic bottom block with guide handle | Safer handling and improved operator comfort |
| Return Sheaves | Ductile iron, self-lubricating design | Reduced friction and longer component life |

| Feature Name | Description | Benefit |
|-------------------------------------|---|--|
| Trolley Travel Motion | Variable-speed travel motors and optimized trolley design | Smooth, precise load positioning |
| Trolley Wheels (with Guide Rollers) | Flangeless wheels with integrated guide rollers | Reduced beam wear and improved alignment |
| Thrust Rocker | Optional thrust rocker in place of counterweighting | Better load stability without added mass |
| Belt Drive | Optional belt drive providing constant traction | Reliable performance in challenging environments |
| Counterweights | Balancing weights for varied beam widths | Even load distribution across the trolley |
| Universal Trolley Wheels | Durable tapered ductile iron wheels | Long service life with universal fit for S or W profile beam types |

| Feature Name | Description | Benefit |
|--------------------|---|--|
| Hoist Panel | All controls are housed in one singular panel | Simplified commissioning and service access |
| DMU | Demag DMU StatusControl 2.0 functionality | Condition monitoring, diagnostics, and smarter maintenance |
| Inclinometer | Measures rope angle and side pull | Prevents misuse and improves operational safety |
| Electric Equipment | Hard-wired or CAN bus controls | Flexible integration and faster setup |

Control concept with numerous variants

- From simple control buttons to hand-held transmitters with infinitely variable speed control and joystick control
- Radio controllers with various feature levels:
 - DRC-Com: Fieldbus radio, no display
 - DRC-Pro: Fieldbus radio with display
 - DSB: up to 10 buttons (IP 65)
 - DSX: modular radio remote controller series

DSB



DST



DRC-Com/
DRC-Pro



Stay Connected With Demag Com Connect



Real-time operating data: Demag Equipment App (DEA)

Do you only find out the usage and wear data for your DHR rope hoist once a year during inspection and maintenance? This is a thing of the past with the Demag Equipment App. Within the range of the hoist, you receive the current data in real time and visually displayed on your mobile device.

Which DEA is Right for You?

| | |
|--------------------------|---|
| DEA | Free app available on iOS and Google Play stores. App is able to be used with DMU devices, when the devices are equipped with the appropriate hardware. |
| Com Connect | Combination of the DMU and gateway modem devices provided with the equipment, which facilitates the usage of all DEA digital services, including DEA+ and StatusControl 2.0. |
| Pro | Uses a communication protocol to gather data from DMU and StatusControl inverters on the crane. This creates an ecosystem of information that improves your ability to predict maintenance needs and indicate areas for performance improvement. Pro facilitates the usage of all DEA digital services and enables usage of connected features. |
| DEA+ | Additional subscription within the DEA, which allows technicians to edit parameters via the mobile app while connected to the DMU device via WiFi. |
| StatusControl 2.0 | Additional subscription within the DEA, which allows service companies to remotely gather and view DMU data offsite through cloud services. |

INVERTER CONTROLS COMPLETE THE DEA PRO ECOSYSTEM

Pro uses a communication protocol to gather data from all the electronic devices on your DHR crane. This creates an ecosystem of information that improves your ability to predict maintenance needs and indicate areas for performance improvement. DHR is available with a wide range of inverter and speed options to meet your needs.

Trolley and Bridge Travel Controls:

Inverter controls are Demag's standard for trolley and bridge travel motions. Inverter controls reduce load swing and eliminate brake wear.

Hoisting Controls:

Two-speed hoisting controls are standard for the DHR. Demag hoisting inverters provide extended speed ranges and reduce brake wear, while advanced inverter-controlled systems add high-precision speed regulation and access to operator-assist features for safer, smoother, and more efficient hoisting.

Advanced Control: Operator Assist Features

Shorter cycle times. More cost-effective. Improved workplace safety.



Anti-Sway

Prevents increased load sway by active counter-movements of the crane. Active system based on rope angle measurement and actual speeds. Passive system based on theoretical sway calculation.



Hook Centering*

Automatically positions the crane hook directly above the load. The advantages: faster load cycles and improved ease of operation.



Slack Rope Supervision

Continuous monitoring of rope tension: Automatic cut-off of the hoist motor when slack rope is detected.



Follow-Me*

Position the crane over the load by guiding the hook by hand for reduced cycle time.



Load Restricted Area

Defined areas that the trolley may only enter when the load does not exceed a reference value.



Side Pull Prevention*

Rope angle monitoring, automatic cut-off in the event of diagonal pull (> 4°) to avoid dangerous situations.



Restricted Zones

Defined restricted areas (e.g. structures, machines) that must not be approached by the trolley.



Tandem Control

Electronically synchronized lifting across two hoists for precisely lifting a single load in tandem.

* This Operator Assist Feature requires a full fieldbus crane to activate and utilize.



DMU

Monitoring unit with fieldbus functions for improved safety, longer brake service life and optimised maintenance intervals.

- Monitoring of supply voltage
- Motor start/stop at slow speed
- Standard gateway modem
- High-accuracy measurement in conjunction with load pins
- Design-limit warnings
- Fieldbus functionalities
- Monitoring of motor function
- Multi-hoist operation (up to five units)

Further options for customised configuration:

- Radio control
- Second hoist brake for DHR 3, 5, 10
- Ramshorn hook/ twin hook
- IP 66 protection
- Stand-by heating
- Large load display
- Drum cover
- Limit switches
- Anti-collision protection
- Rail sweepers
- And more

Demag DHR



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Bulletin #DHR 03/12/2026

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