

Demag DR 3–10 rope hoists Now also foot-mounted

Compact and versatile



Safety and efficiency down to the last detail

The successful Demag DR 3 – 10 rope hoist range is now not only available as a low-headroom travelling hoist optimised for crane applications, but also as the FDR universal foot-mounted hoist for direct connection to support structures.

The attachment points are designed in such a way that the rope hoists can be installed in four mounting positions, either suspended on the wall or ceiling or standing on the ground or a pedestal. This ensures a free rope lead-off in all directions in any position. The rope hoist range can be used for even more applications thanks to the load capacity increase for the FDR 5 up to 6.3 t and for the FDR 10 up to 12.5 t and, at the same time, an extended standard hook path up to 15 m in the 4/1 reeving arrangement.



Foot hoists offer

- **greater efficiency** thanks to 20 % longer service life
- **optimum utilization of space** thanks to its compact design
- **high availability** thanks to a low maintenance requirement
- **fast handling** thanks to high hoist speeds
- **good value for money** thanks to comprehensive series features

It meets all of the requirements for state-of-the-art hoists for tomorrow's needs.

Low-vibration, quiet-running motor

- Optimised motor design for low-vibration, quiet operation
- 12/2-pole or 4-pole squirrel-cage motor with cylindrical rotor
- Thermal contacts to protect against overheating as standard
- IP 55 enclosure
- Duty factor higher than FEM level

Fast acting brake

- Demag DC disk brake with brake release and motor start-up monitoring, minimum brake safety factor of 1.8
- Fast acting brake thanks to integrated electronic modules

Gearbox lubricated for life

- Three-stage helical gearbox with high endurance gearing and oil lubrication for the entire service life
- Rated for 20 % longer service life at full load compared to FEM/ISO specification



Protective rope guide

- Rope guide made of tough plastic
- Smooth rope lead-in by means of hardened pressure rollers mounted on anti-friction bearings
- Inclined pull up to 4° without touching the rope guide

User-friendly bottom block

- Guard for improved safety – moving plastic elements close the opening where the wire rope enters the bottom block
- Two handle recesses make it easier to handle and guide the bottom block

State-of-the-art electrical equipment

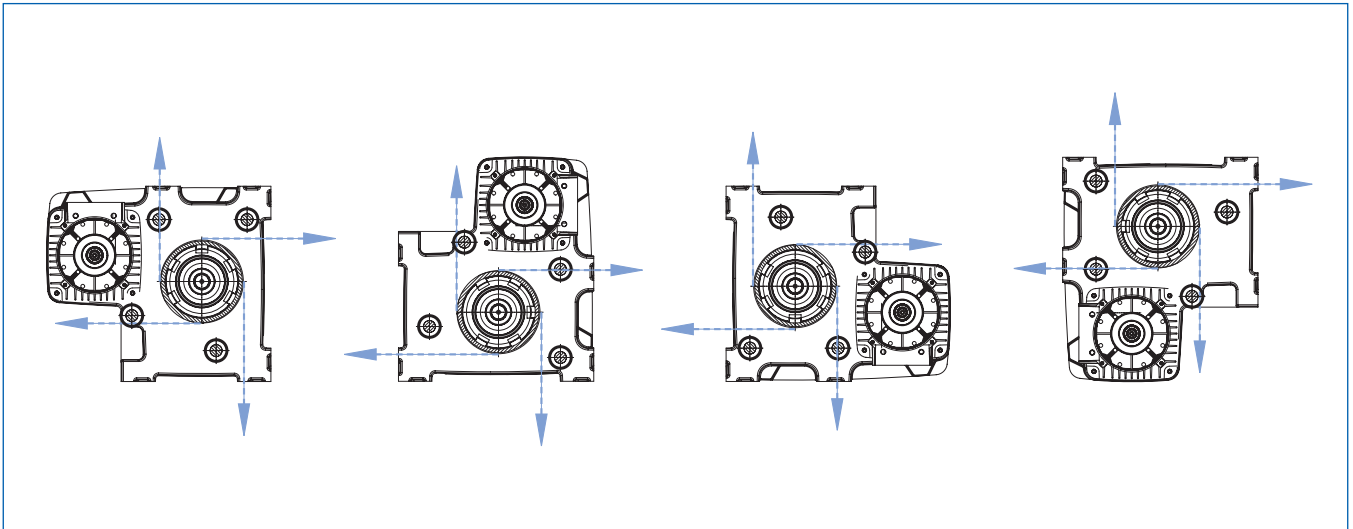
- Electrical equipment completely of modular design
- Load spectrum recorder to determine the remaining safe working period integrated in the controls
- Pulse generator to monitor the motor function

Precision geared limit switch

- Automatic cut-off of the lifting and lowering motions in the upper and lower limit positions
- 4 contacts set for emergency cut-off in the upper and lower positions as standard
- Additional safety thanks to fast-to-slow cut-off
- Other functions, e.g. an operating limit switch, can also be set

Overload protection

- Electro-mechanical overload protection integrated in the rope retaining crosshead
- Evaluation by means of the central electronic unit which also specifies the partial load switching point for a measuring run at slow lifting speed
- Electronic overload protection for summation when several hoists are used, load display and slack rope cut-off



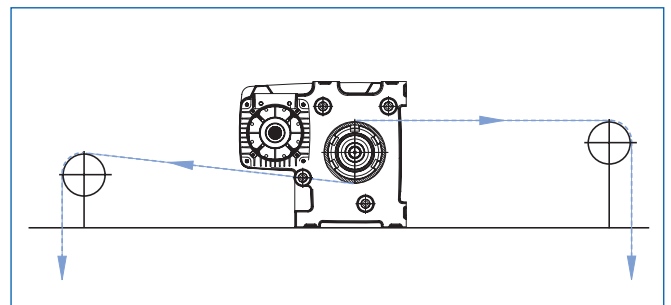
Four different mounting positions each with four rope lead-off variants for versatile solutions

Ergonomically optimised controls

- DSE-10R control pendant
 - For two-stage and stepless operation
 - Control cable available in two lengths, each infinitely adjustable in length by 4 m
 - Display for the load range and specific installation status information
 - IrDA interface for direct data transfer with laptop and PDA
 - Load display for use with electronic overload protection
- Demag DRC-10 radio control
 - hand-held transmitter with proportional pushbuttons
 - Radio technology based on cell phone standards
 - Bidirectional signal transmission
 - Intelligent charging system
 - Display to show the load range and installation-specific data

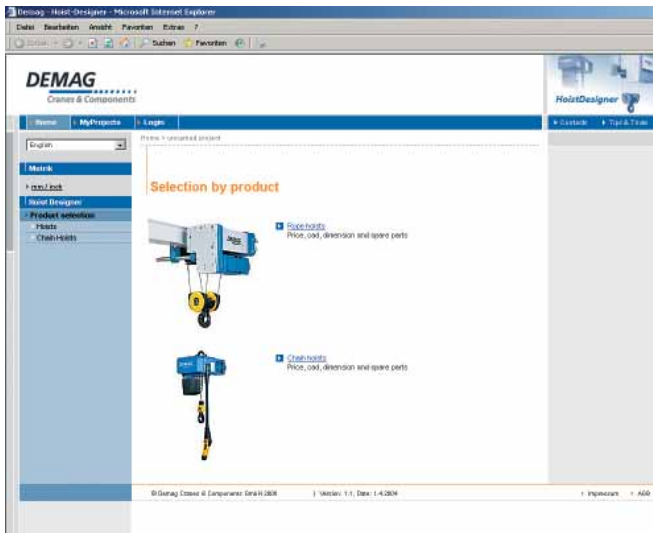
Design

- Reaving components for 2/1, 4/1 and 4/2 fitted to the hoist
- Other mounting positions with various rope lead-off directions are possible. The rope guide can be used for every rope lead-off position.



Load bar operation can be implemented using two synchronised ropes

Save space – gain time – cut costs



Ensuring investments in state-of-the-art cranes remain profitable

DR rope hoists and Demag standard cranes make it possible to achieve a wide variety of designs which guarantee to provide an optimum balance between costs and performance to meet your specific needs.

From planning to commissioning and lasting availability

You can rely on the expertise and service provided by Demag engineers as well as the qualifications of authorised Demag partners.

The fastest way to obtain more information is via the Demag Infoline +49 (0) 2335 92-2922 or www.demag-hoistdesigner.com.

Hoist Designer enables you to integrate the Demag DR rope hoist into your AutoCAD design with ease. You simply click on the information and data you need. Demag DR rope hoist: The new force in crane technology Made by Demag.

Selection table

Range	Load capacity	Hook path m	Hoist speed m/min			Group of mechanism ** FEM/ISO	Load capacity	Hook path m	Hoist speed m/min		
	t		1	2	3		t		1	2	3
DR 3	2/1						4/1				
	1.6	12 20	12/2	18/3	1-25 *	2m / M5	3.2	6 10	6/1	9/1.5	0.5-12.5 *
	1.25					3m / M6	2.5				
	1					4m / M7	2				
DR 5	2/1						4/1				
	3.2	12 20 30	9/1.5	12/2	0.8-16 *	1Am / M4	6.3	6 10 15	4.5/0.8	6/1	0.4-8 *
	2.5		12/2	18/3	1-25 *	2m / M5	5		6/1	9/1.5	0.5-12.5 *
	2					3m / M6	4				
	1.6					4m / M7	3.2				
							4/2				
						1Am / M4	3.2	9.9 16.3	9/1.5	12/2	0.8-16 *
						2m / M5	2.5		12/2	18/3	1-25 *
						3m / M6	2				
						4m / M7	1.6				
DR 10	2/1						4/1				
	6.3	12 20 30 40	8/1.4	0.4-9 *	1-18 *	1Am / M4	12.5	6 10 15 20	4/0.7	0.2-4.5*	0.5-9 *
	5		10/1.7	1-18 *	1-25 *	2m / M5	10		5/0.8	0.5-9 *	0.5-12.5 *
	4					3m / M6	8				
	3.2					4m / M7	6.3				
							4/2				
						1Am / M4	6.3	5.8 11.35 18.4 25.2	8/1.4	0.4-9 *	1-18 *
						2m / M5	5		10/1.7	1-18 *	1-25 *
						3m / M6	4				
						4m / M7	3.2				

* Loads weighing up to one third of the rated load are moved at 1.5 times the rated speed (Prohub)

** Gearbox service life 20 % longer than the ISO / FEM full load service life

Demag Cranes & Components GmbH

Cranes

P.O. Box 67 · 58286 Wetter/Germany

Telephone +49 (0) 2335 92-7745

Telefax +49 (0) 2335 92-2339

E-mail ropehoist@demagcranes.com

www.demagcranes.com