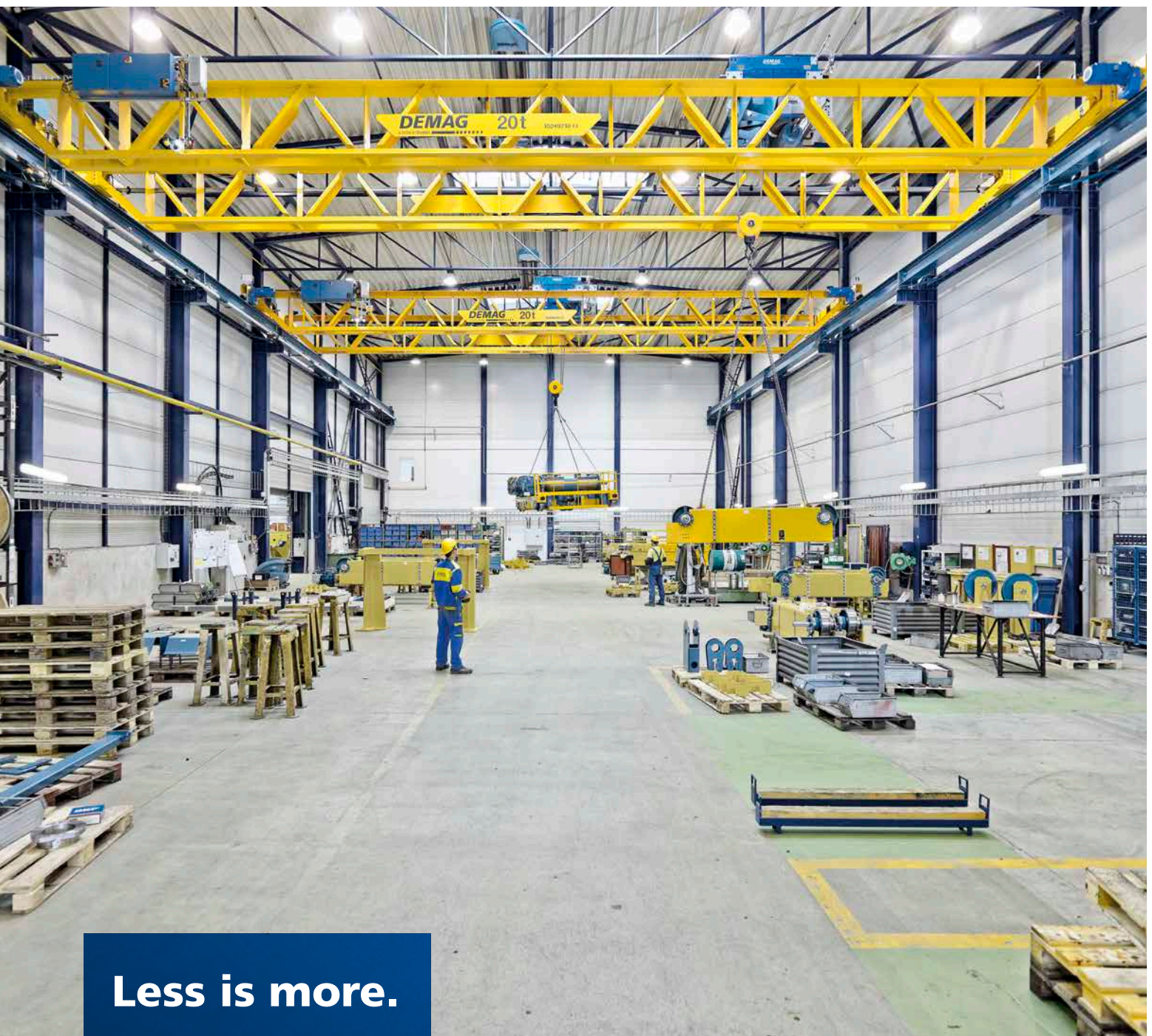


## Demag V-type crane



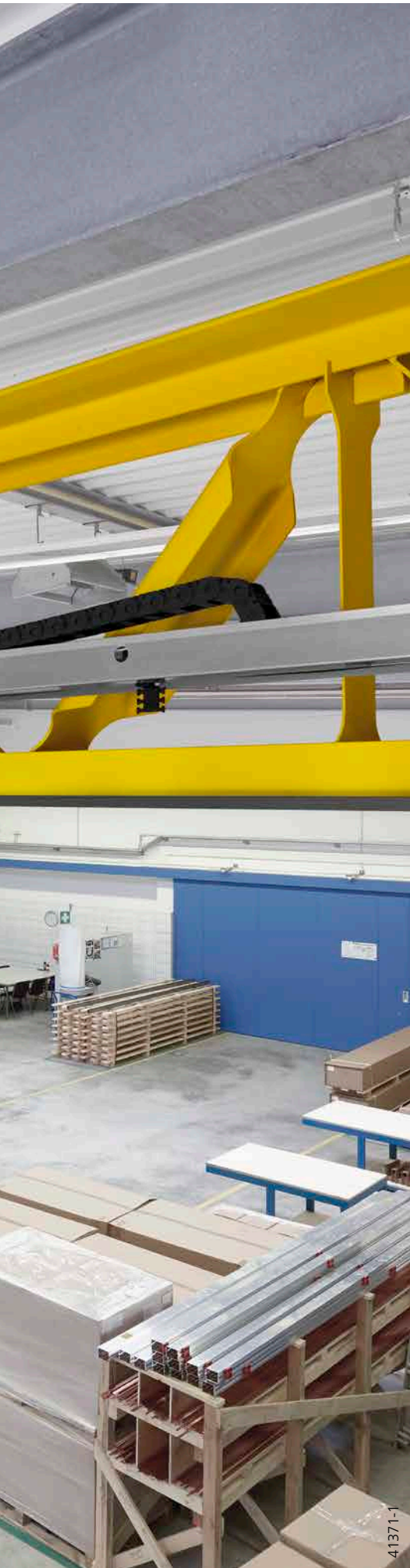
**Less is more.**





**The revolution in crane engineering:  
The new Demag V-type crane.**





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## Innovation by tradition.

As one of the world's leading suppliers of cranes and components, we offer solutions for specific industries from a single source. Right from the start, we have always developed, expanded and improved our product range, adapting it to meet the demands of state-of-the-art product design, operating processes and material flow systems. The expertise we have gained in almost 200 years of engineering development is incorporated in the design of a new crane that will revolutionise load handling: the new Demag V-type girder.

### REVOLUTION THROUGH INNOVATION

The new Demag V-type girder lays the foundation for a completely new generation of crane girders. Thanks to its low-oscillation design featuring tapered diaphragm joints, our new girder concept offers significantly improved precision, flexibility and quality. The V-type crane also provides valuable gains in efficiency for your company by boosting load handling rates and improving operating reliability.

Take part in the load handling revolution – improve your productivity with the new Demag V-type crane.

## Delivers the goods – the new Demag V-type girder.

Better precision, greater flexibility, improved quality – the requirements to be met by a materials handling solution also grow in line with increasingly globalised markets and ever new technical possibilities. The Demag V-type girder meets these demands with ease: its revolutionary design enables sensitive loads to be positioned more precisely, carefully and also more quickly. This improves the efficiency of your load handling operations – and raises your competitive edge to a completely new level.



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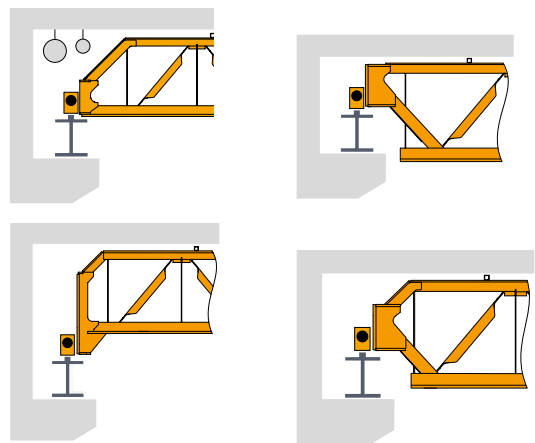
# 30

### REDUCED OSCILLATION – IMPROVED PRECISION.

Tapered diaphragm joints accommodate pressure and tensile forces more effectively to reduce resonant frequency by 30%.

- Quicker steadying of loads
- Increased precision for transport and positioning operations
- Shorter cycle times
- Higher handling rates

### EVKE SINGLE-GIRDER V-TYPE CRANE: MODELS



# 500,000

## REDUCED LOADS – GREATER QUALITY.

Thanks to its load-optimised, innovative design principle, the new crane girder will easily manage up to 500,000 changes of load.

- Extended service life
- Reduced loads on crane runway and components
- Reduced wear
- Improved cost efficiency



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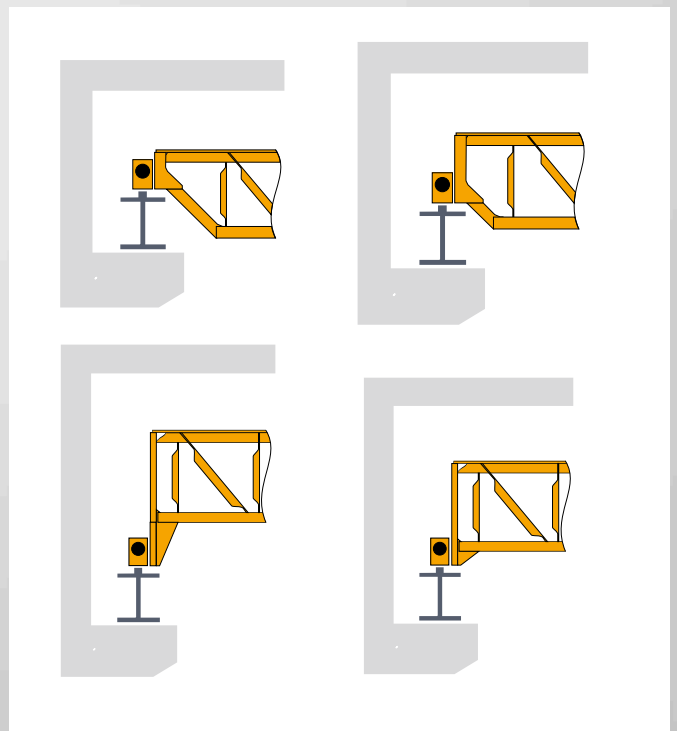
# 17

## LOWER DEADWEIGHT – GREATER FLEXIBILITY.

17% less crane girder weight thanks to a weight-optimised design with fewer non-load-bearing surfaces.

- Improved deadweight-to-load capacity ratio
- Lower forces transmitted to existing support superstructures
- Greater freedom for architects when planning new buildings
- Outstanding strength and light-weight design

## ZVKE DOUBLE-GIRDER V-TYPE CRANE: MODELS





## Higher performance: 11 further benefits of the Demag V-type crane.

Efficiency at all levels: the low-oscillation design of the new Demag V-type girder enables particularly precise and careful positioning of sensitive and heavy loads. However, precision is not the only feature that matters in state-of-the-art load handling. Factors such as load capacity, stability and industrial safety are also decisive for the efficiency of crane systems. The new Demag V-type girder meets these requirements in full. Discover the many other benefits that set the Demag V-type girder apart from conventional crane concepts.



### **STABILITY**

Improved reliability with extreme loads: stiffeners on components subjected to high loads offer maximum strength for a low deadweight.

### **AGILITY**

Higher positioning speeds: the V-type girder is extremely light and results in improved travel characteristics for higher handling rates and shorter cycle times.

### **EASE OF SERVICE**

More possibilities for secure transport: additional lifting points offer a wide range of possibilities for clamping and attachment points.

### **LOAD CAPACITIES**

More efficient lifting: the light-weight design of the V-type girder improves the relative crane deadweight-to-load capacity ratio.

### **WIND RESISTANCE**

More applications: the optimised design cuts wind resistance by up to 55%, making V-type cranes highly suitable for operation outdoors.

### **EASE OF MAINTENANCE**

Easier to check: the weld seams are not concealed and can be easily inspected for operating safety.

### **VERSATILITY**

Greater versatility in practical terms: the crane girder can be adapted to meet specific installation requirements and is universally suitable for all applications.

### **MORE LIGHT**

More light helps to improve safety: the girder design based on bionic principles allows up to 30% more light to pass, making workplaces brighter, more attractive and, above all, safer.

### **GREEN BUILDING**

Focus on sustainability: our eco-friendly utilisation of resources is reflected by the use of less material, reduced drive output requirements, blast cleaning of metal parts with dry ice and the use of water-based paints. The possibility of energy recovery completes the concept.

### **FREEDOM**

Greater freedom for architects: the reduced deadweight of the V-type girder crane transmits lower forces to the building structure, thus offering greater freedom for planning the building.

### **RELIABILITY**

Improved reliability for handling loads: high-quality materials and manufacture provide for long-term reliability at the highest level.



## Demag DMR rope hoist



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### EK-DMR low-headroom monorail hoist

- C-design for compact overall dimensions and minimum approach dimensions for crane applications
- Infinitely variable cross-travel speeds for careful positioning with virtually no sway (optional two-stage travel speeds)
- Cross-travel inverter and braking resistor integrated in the electric enclosure to save space
- Best possible traction with DualDrive and DualDrive Plus (optional)

### EZ-DMR double-rail crab

- Standard track gauges up to 3,550 mm, special track gauges possible
- Anti-derailment protection for improved safety as standard
- Design featuring optimised headroom dimensions
- Minimum approach dimensions
- Four-wheel trolley fitted with proven Demag travel units (DRS wheel block system with two offset geared motors)
- Very good accessibility for service work



## Selection table

Range	Load capacity [t]	Hook path [m]	Lifting speed [m/min]			Group of mechanisms [FEM/ISO]	Range	Load capacity [t]	Hook path [m]	Lifting speed [m/min]			Group of mechanisms [FEM/ISO]
			2-stage	Stepless	ProHub*					2-stage	Stepless	ProHub*	
DMR 3	2/1						DMR 20	2/1					
	1	12 20 30	1.4/8	0.32-6.4	9.6	4m/M7		6.3	20 30 40 54	1.4/8	0.32-6.4 0.64-12.5 0.8-16	9.6 19 24	4m/M7
	1.25		2/12	0.64-12.5	19	3m/M6		8		2.6/16			3m/M6
	1.6		2.6/16	1-25	38	2m/M5		10		1/6			2m/M5
	2		1.4/8	0.32-6.4	9.6	1Am/M4		12.5		1.4/8 2/12			1Am/M4
	4/1							4/2					
	2	6 10 15	0.7/4	0.16-3.2	4.8	4m/M7		6.3	7.6 14.6 21.6 31.3	1.4/8	0.32-6.4 0.64-12.5 0.8-16	9.6 19 24	4m/M7
	2.5		1/6	0.32-6.4	9.6	3m/M6		8		2/12			3m/M6
	3.2		1.3/8	0.5-12.5	19	2m/M5		10		2.6/16			2m/M5
	4		0.7/4	0.16-3.2	4.8	1Am/M4		12.5		1/6 1.4/8			1Am/M4
DMR 5	2/1						DMR 20	4/1					
	1.6	12 20 30	1.4/8	0.32-6.4	9.6	4m/M7		12.5	10 15 20 27	0.7/4	0.16-3.2 0.32-6.4 0.4-8	4.8 9.6 12	4m/M7
	2		2/12	0.64-12.5	19	3m/M6		16		1/6 1.3/8			3m/M6
	2.5		2.6/16	1-25	38	2m/M5		20		0.5/3 0.7/4 1/6			2m/M5
	3.2		1.4/8	0.32-6.4	9.6	1Am/M4		25		0.7/4 1/6			1Am/M4
	4/2							8/2					
	1.6	9.9 16.3	1.4/8	0.32-6.4	9.6	4m/M7		12.5	7.8 11.3 16.1 27.1	0.7/4	0.16-3.2 0.32-6.4 0.4-8	4.8 9.6 12	4m/M7
	2		2/12	0.64-12.5	19	3m/M6		16		1/6 1.3/8			3m/M6
	2.5		2.6/16	1-25	38	2m/M5		20		0.5/3 0.7/4 1/6			2m/M5
	3.2		1.4/8	0.32-6.4	9.6	1Am/M4		25		0.7/4 1/6			1Am/M4
4/1						6/1							
3.2	6 10 15	0.7/4	0.16-3.2	4.8	4m/M7	20	6.7 10 13.3 18	0.7/4	0.22-4.3 0.26-5.3	6.4 8	4m/M7		
4		1/6	0.32-6.4	9.6	3m/M6	25		0.9/5.3			3m/M6		
5		1.3/8	0.5-12.5	19	2m/M5	32		0.7/4			2m/M5		
6.3		0.7/4	0.16-3.2	4.8	1Am/M4	40		0.7/4			1Am/M4		
DMR 10	2/1						DMR 20	12/2					
	3.2	12 20 30 40	1.4/8	0.32-6.4	9.6	4m/M7		20	8 11.2 18	0.7/4	0.22-4.3 0.26-5.3	6.4 8	4m/M7
	4		2/12	0.64-12.5	19	3m/M6		25		0.9/5.3			3m/M6
	5		2.6/16	1-25	38	2m/M5		32		0.7/4			2m/M5
	6.3		1.4/8	0.32-6.4	9.6	1Am/M4		40		0.7/4			1Am/M4
	4/2							8/1					
	3.2	5.8 11.35 18.4 25.2	1.4/8	0.32-6.4	9.6	4m/M7		25	7.5 10 13.5 21.3	0.5/3 0.7/4	0.16-3.2 0.2-4	4.8 6	4m/M7
	4		2/12	0.64-12.5	19	3m/M6		32		0.5/3			3m/M6
	5		2.6/16	1-25	38	2m/M5		40		0.7/4			2m/M5
	6.3		1.4/8	0.32-6.4	9.6	1Am/M4		50		0.5/3			1Am/M4
4/1						6/1							
6.3	6 10 15 20	0.7/4	0.16-3.2	4.8	4m/M7	16	6 10 15 20	0.7/4	0.16-3.2	4.8	1Bm/M3		
8		1/6	0.32-6.4	9.6	3m/M6	12.5		6.7			3m/M6		
10		1.3/8	0.5-12.5	19	2m/M5	16		13.3			2m/M5		
12.5		0.7/4	0.16-3.2	4.8	1Am/M4			21.3			1Am/M4		
DMR 16	4/1						6/1						
	16	6 10 15 20	0.7/4	0.16-3.2	4.8	1Bm/M3	12.5	6.7 13.3	0.7/4	0.22-4.3 0.32-8.3	6.4 12.6	3m/M6	
	12.5		0.7/4	0.22-4.3	6.4	3m/M6	16		0.9/5.3			2m/M5	
16	0.9/5.3		0.32-8.3	12.6	2m/M5								

\* ProHub: 50% higher lifting speed for up to 30% of rated load capacity.

## Our aim: best in its class. The new DRC D3 radio control.

The safety and efficiency of a manually controlled crane is largely influenced by control equipment. Radio controls offer freedom of movement and improved safety.

As the control system for Demag V-type cranes, the latest generation of the DRC range of equipment, the DRC D3 radio control system, provides important features. The hand-held transmitters as well as the receivers meet the requirements of the future EN 300 328 V 1.8.1 radio standard.

### VERY LONG BATTERY LIFE

The battery integrated in the hand-held transmitter can be fully charged within just 2.5 hours and can be used for uninterrupted operation for up to 5 days.

### RAPID CHANGE BETWEEN TRANSMITTERS

Up to three transmitters can be logged onto a crane and control can be switched between them at the press of a button, without hampering operating processes.

### SPEED LIMIT FUNCTION

The crane operating speed can be set to 30, 50 or 70% of the maximum speed.

### TRANSMITTER DENSITY AND COEXISTENCE

The highly reliable and robust radio transmission method is resistant to interference and allows up to 40 radio systems to be operated close to each other. They can co-exist with other systems operating in the same frequency range in their immediate vicinity.

### BETTER TRANSPARENCY

The hand-held transmitters are equipped with a monochrome display to indicate the load and a vibration alarm to warn against overloads.



### BASIC EQUIPMENT:

- DRC-10 D3 hand-held transmitters are available in two variants: stepless and 2-stage
- A silicone case with a receiver (DRC DR D3), an aerial (DR 3 20 2400 MHz D3) and a plug-in charger



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## Demag StatusBoard: taking installation transparency to a new level.

With the new Demag StatusBoard crane display, the crane operator will not only be able to keep an eye on the current load but also on many other operating data and status messages that were previously only shown on the display for the controls. With the help of a high-contrast multicolour LED display, the crane operator can immediately see which of the frequently used assistance systems is currently intervening and for what reason.

### MUCH MORE THAN A LARGE DISPLAY

The multi-coloured display can be mounted on the hoist, crane girder or end carriage. This means that even during travel, for example, the operator can see directly on the crane that an area must be by-passed using a by-pass control. In the event of an emergency stop, the display immediately shows the reason for the intervention. If required, it is possible to adjust the parameters that Demag StatusBoard should show and the way they are displayed: ranging from the column for the crane travel speed to the tool symbol for a possible service inspection.

Basically, all information provided by the Demag SafeControl system can be used. The symbols are categorised according to their priority and shown in different colours. Demag StatusBoard is delivered in a robust aluminium housing with IP55 enclosure and can be installed with a pivoting mounting panel at a freely selectable angle on the crane or hoist.



## Full control over your system status information – StatusControl provides diagnostics in real time

Demag StatusControl provides you with remote access in real time – for all current and relevant operating data and their analysis at a glance. Reduce the risk of downtimes, optimise your operating processes and plan the strategic and cost-effective maintenance of your crane installations.

Keep an overview of the current status of your installations at all times. Demag StatusControl is the first wireless remote access system for cranes and hoists that delivers, analyses and evaluates data in real time. Regardless of the brand of your installations. Data is transferred via WLAN or GSM standards.

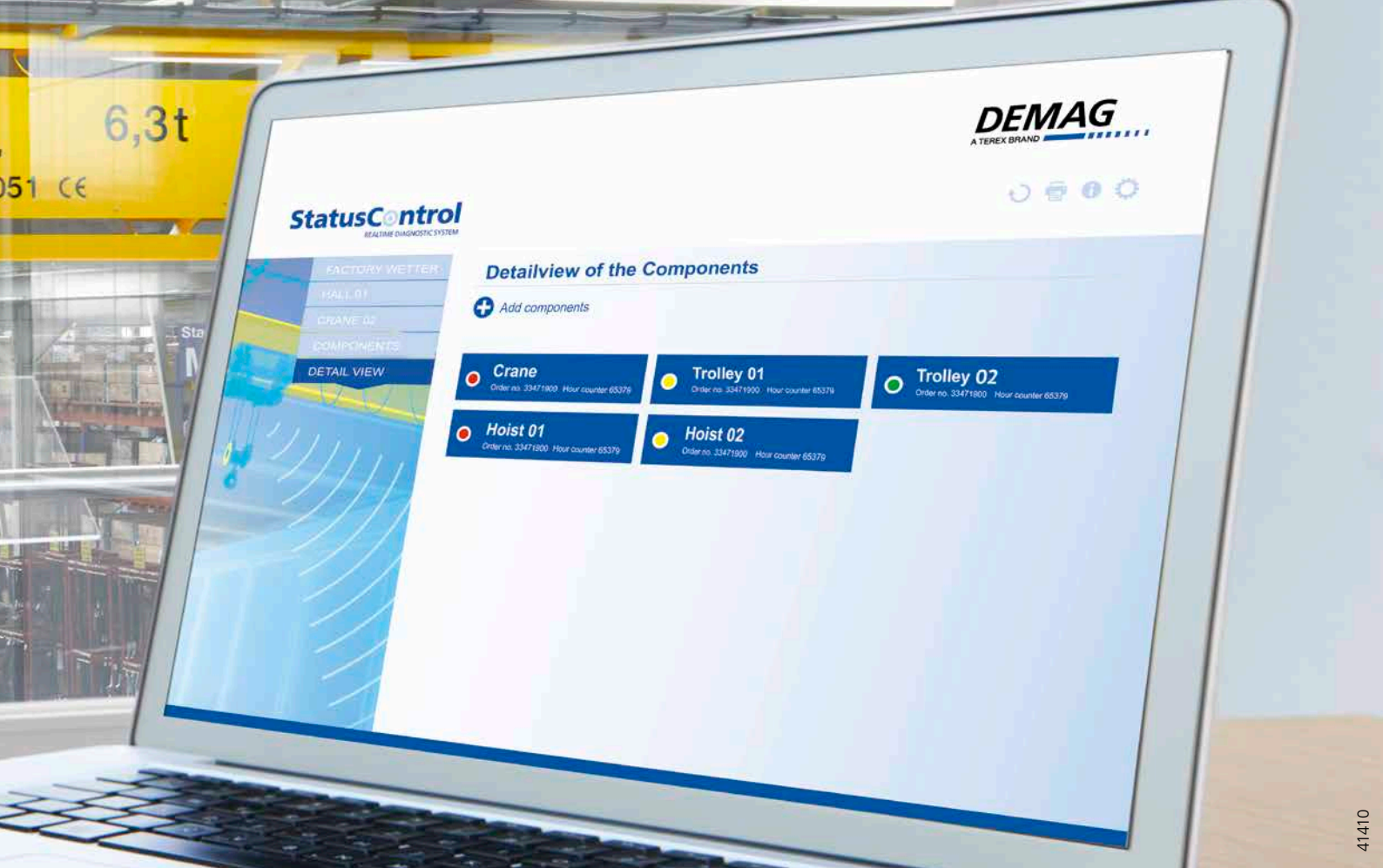
Whether you are in the factory, in your office or on the road: Demag StatusControl supplies you with all relevant operating data at a glance. Cut the cost of monitoring an installation and boost your productivity.

Demag StatusControl enables you to precisely schedule your maintenance work – and you are

always kept up to date on the risk of any possible downtime. In addition, we offer you service concepts that are tailored to meet your specific needs. By means of pro-active service, we ensure high availability of your installations.

You can access the remote monitoring system direct via our intuitive software tool, which you can use in the same way on your PC or tablet (operating system: Windows). The traffic-light system shows you what needs to be done straight away. Demag StatusControl enables you to combine all operating data and all of your status reports into a single system.





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**REAL-TIME CRANE ANALYSIS**

View current data – anywhere and in real time



**WIRELESS REMOTE ACCESS**

Data transmission from the crane via WLAN or GSM – access and evaluate data via the Internet



**FOR ALL MAKES AND BRANDS**

Suitable for all cranes and hoists – with contactor or processor controls



**CAN BE ADDED TO THE SYSTEM AT ANY TIME**

Flexible integration with existing cranes and hoists



**INTERPRETATION OF OPERATING DATA**

Easily legible status display on the traffic light principle



**INTUITIVE USER INTERFACE**

User-specific information architecture and user-oriented software design



**PUSH MESSAGE WHEN STATUS CHANGES**

As soon as a change occurs: receive a call or text message, as required, sent direct to you or a service engineer



## Simple planning: Demag Designer tool portal.

The optimum specification of your installation and excellent product quality are our priorities and give you the certainty of a reliable investment. At no cost to you, we offer you the opportunity to configure your product to meet your specific needs at [www.demag-designer.com](http://www.demag-designer.com).

Whether you want a chain hoist or complete crane systems – Demag Designer offers you a wide selection of planning options. In addition, you can save your preferred configuration and place an order at a later date. Besides descriptions of the products and technical data, you can also obtain CAD geometry files. You can then conveniently place your order online in the Demag Shop system – we will do the rest.

### **INDIVIDUAL PLANNING ON SITE: DEMAG SALES ENGINEERS**

The in-house requirements to be met by crane concepts are as individual as your company. Our experienced sales engineers analyse your specific materials handling requirements in detail and, together with you, develop complete system solutions to meet your needs, so that you can fully concentrate on your core business.

With a broad range of industry-specific expertise, we offer you sound advice on the right solution to achieve your individual goals and meet challenges in line with your corporate, environmental and business requirements. And we can help at any time in the life cycle of your plant and equipment.

#### **OUR GOAL**

- Save time and effort
- Cut costs and improve productivity
- Safety and compliance with the law





## Outstanding performance: The benefits of the V-type girder at a glance.

### IMPROVED EFFICIENCY

- More precise positioning
- Higher handling rates
- Double the service life

### OPTIMISED DEADWEIGHT

- Lower forces transmitted to existing support superstructures
- Additional load capacity
- Greater flexibility in headroom dimensions

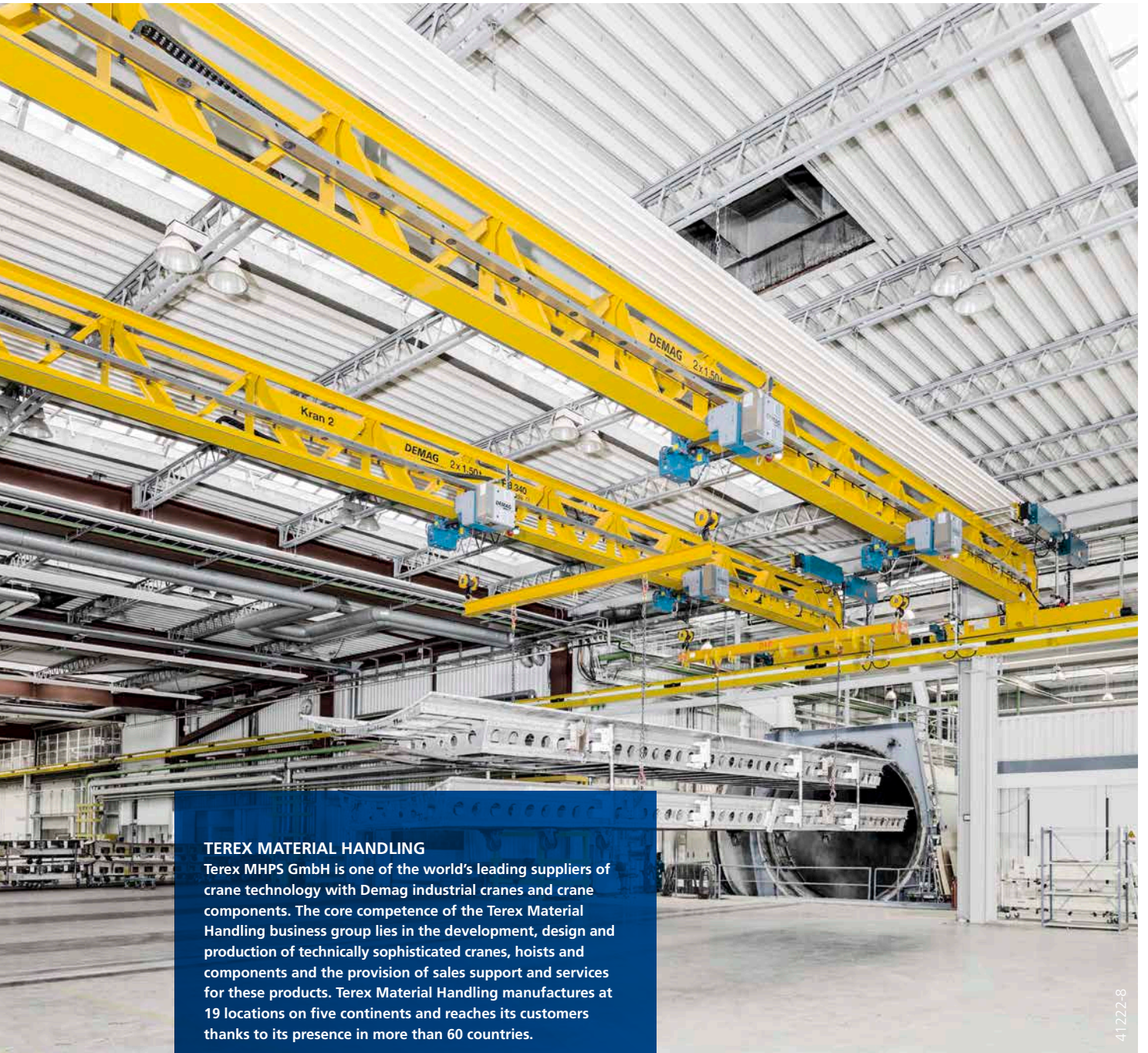
### EASE OF SERVICE

- Simplified installation thanks to more lifting points
- Simple and reliable inspection of weld seams

### SAFETY

- Surface area exposed to wind reduced by up to 55%
- Additional safety thanks to improved view





## TEREX MATERIAL HANDLING

Terex MHPS GmbH is one of the world's leading suppliers of crane technology with Demag industrial cranes and crane components. The core competence of the Terex Material Handling business group lies in the development, design and production of technically sophisticated cranes, hoists and components and the provision of sales support and services for these products. Terex Material Handling manufactures at 19 locations on five continents and reaches its customers thanks to its presence in more than 60 countries.

### Terex MHPS GmbH

Wetter Site

Ruhrstrasse 28 · 58300 Wetter, Germany

Phone: +49 (0) 2335 92-0

Fax: +49 (0) 2335 92-7676

E-mail: [demag-info@terex.com](mailto:demag-info@terex.com)

[www.v-type-crane.demagcranes.com](http://www.v-type-crane.demagcranes.com)



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