

## The new 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. In this time, we have continuously extended and improved our product range and adapted it to meet the demands of state-of-the-art design, operating process and material flow systems. The expertise we have gained in almost 200 years of engineering development is included in the design of a new crane concept 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.

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## 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.



### **REDUCED OSCILLATION – IMPROVED PRECISION.**

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

- Loads are steadied more quickly
- Increased precision for transport and positioning operations
- Shorter cycle times
- Increased load handling rates

30

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



### LOWER DEADWEIGHT – GREATER FLEXIBILITY.

The crane is 17% lighter thanks to its weight-optimised design featuring reduced 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

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Still not enough benefits?  
Find out more ...  
on the following pages  
or on the web.



## 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.



## **1 STABILITY**

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

## **5 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.

## **9 EASE OF SERVICE**

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

## **2 LOAD CAPACITY**

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

## **6 WIND RESISTANCE**

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

## **10 EASE OF MAINTENANCE**

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

## **3 VERSATILITY**

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

## **7 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.

## **11 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.

## **4 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.

## **8 RELIABILITY**

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

## Our goal: 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 further 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 CO-EXISTENCE

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 payload and a vibration alarm to warn against overloads.



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### 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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## Full overview at all times: Convenient monitoring thanks to remote access.

### IMPROVED PRODUCTIVITY FOR CRANE OPERATION

Whether you are in the factory, in your office or on the road: our innovative Demag StatusControl remote access system supplies you with all relevant operating data at a glance – in real time for all cranes integrated into the system – regardless of the manufacturer or brand. The information supplied enables maintenance work to be optimised, indicates potential faults and improves compliance with all application regulations. The remote access solution reduces the need for monitoring and improves productivity.

### SIMPLE REMOTE DIAGNOSIS

You can access the remote monitoring system via our user-friendly and easily installed software tool, which you can use in the same way on your PC or tablet. Data is transferred via WLAN or GSM standards. The traffic-light system shows you what needs to be done straight away. In addition, the software provides regular status updates in the form of reports and, if required, also additional information via integrated info panels.

### OUTSTANDING BENEFITS:

- Real-time analysis of all data relevant for operation
- Improved safety thanks to an effective “early-warning system”
- Drastically reduced response times if maintenance or repair work is needed
- Improved safety, reliability and productivity thanks to latest system status information at all times
- Self-explanatory and intuitive user interface
- Preventive and cost-effective maintenance
- Can be added at any time
- Maximum convenience and reliability



## Planning made easy: Demag Designer 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



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## 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

# DEMAG

A TEREX BRAND



## 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 is present to reach its customers in more than 60 countries.

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