



DEMAG 5t

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Supporting processes at the workplace

**Demag EKWK wall-mounted
travelling cranes**

DEMAG

The right solution for all applications

MATCHING OUR EXPERIENCE TO YOUR CRANE APPLICATION

As a world leader, we offer solutions for demanding material flow, logistics and industrial drive applications. Demag crane solutions offer quality, efficiency and reliability at the highest level. Every Demag crane and every crane component reflects our crane expertise.

OUR PHILOSOPHY IS TO GENERATE BENEFIT FOR YOU

Thanks to the Demag system philosophy, all our products and components are designed in such a way that they can be combined to create a unique range of applications.

From small workshops to major industrial enterprises, state-of-the-art Demag material-flow solutions make it possible to:

- reduce storage and transport costs
- cut delivery times
- improve workplace ergonomics.



Demag EKWK wall-mounted travelling cranes – efficiency at a higher level

EFFICIENT LOGISTICS

Demag wall-mounted travelling cranes operate on crane runway rails that are arranged one above the other along the workshop or assembly plant wall. One obvious feature is the protruding crane girder on which a trolley with a Demag rope hoist is mounted.

Integrated in an intralogistics concept, Demag wall-mounted travelling cranes are frequently installed below other types of travelling cranes. This makes them part of an interlinked crane-based logistical system operating simultaneously and efficiently on multiple levels.

OPTIMISED SUPPLY OF PARTS TO WORKPLACES

Demag wall-mounted travelling cranes are ideally suited as workplace cranes for supplying sequentially arranged stations. In this arrangement, they transport materials to the individual workstations and, at the same time, are used for positioning at assembly stations.

Demag wall-mounted travelling cranes are available with these specifications:

- load capacities up to 6.3 t
- outreaches up to 12 m.



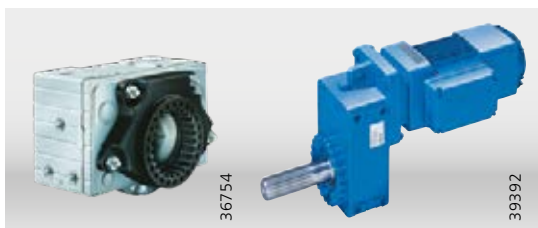
THE DEMAG SOLUTION

- Working level 1
 - Demag process cranes are responsible for transporting and handling particularly heavy and bulky goods.
 - This type of crane can be individually adapted to accommodate the requirements specific to the industry in question.
- Working level 2
 - Thanks to their versatility, Demag standard travelling cranes master a range of lifting and transport operations relating to production environment logistics, such as a steady flow of materials or serving machinery and workplaces.
- Working level 3
 - Demag wall-mounted travelling cranes transport materials to the individual workstations and, at the same time, are used for positioning at assembly stations.

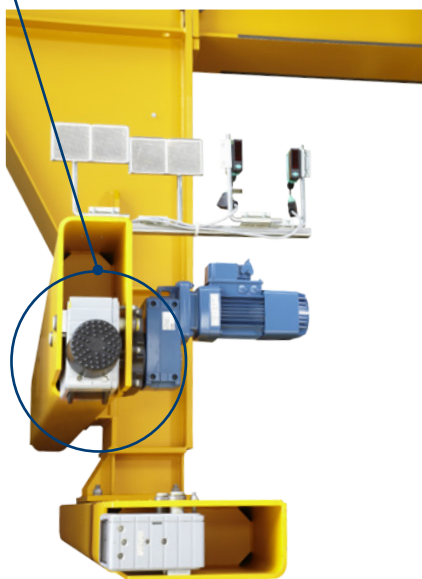
Safety and efficiency in every component

Demag EKWK wall-mounted travelling cranes are a modular construction. All the assemblies are taken from the Demag modular system and provide quality, efficiency and reliability at the highest level:

- bracket and crane girder
- crane end carriages, horizontal and vertical
- trolley and bottom block
- travelling hoist power supply
- control system



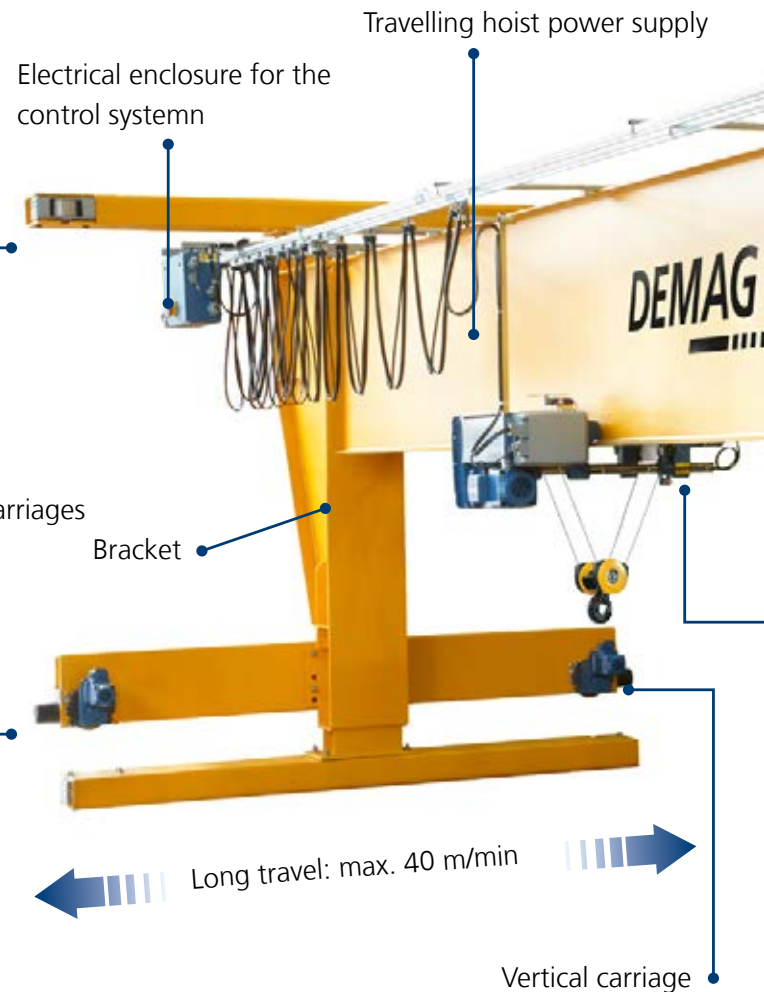
Torque bracket for transmission of drive torque without any radial forces



Vertical carriage with travel unit and lower horizontal carriage on the bracket

CARRIAGES

- Low-vibration operation thanks to horizontal and vertical travel units made of torsionally rigid, enclosed box-section profile
- Favourable travel characteristics
 - even at high loads
 - thanks to close tolerances for differences in the runway gauge, skewing and misalignment
- Vertical carriages are equipped with Demag technology using precisely matched components.



TRAVEL UNITS

- Low-maintenance Demag DRS wheel blocks with self-lubricating spheroidal-graphite cast-iron travel wheels for minimum crane runway and travel wheel wear.
- Excellent travel dynamics thanks to Demag offset geared motor, available as either pole-changing or variable-speed type with frequency inverter
- Gentle transmission of drive torque without any radial forces by attaching the drive to the wheel block via a special torque bracket.



Crane girder

3,2t

Cross travel: max. 30 m/min

Travelling hoist

BRACKET AND CRANE GIRDER

- Maximum stability and high inherent rigidity due to rigid box-section design.

TRAVELLING HOIST POWER SUPPLY

- Proven trailing cable
- Smooth-running cable guidance in C-rails.



CONTROL SYSTEM

Radio control or cable-connected control pendants are ergonomically designed for safe, fatigue-free handling:

- DSE cable-connected control pendant, height-adjustable and for separate travel on the crane girder
- Demag DRC radio control with proportional pushbuttons for wireless control and variable radio frequency operation for unimpeded radio transmission
- Demag DRC-J joystick transmitter – radio control with convenient belt that can be comfortably worn from the shoulder.



TRAVELLING HOIST

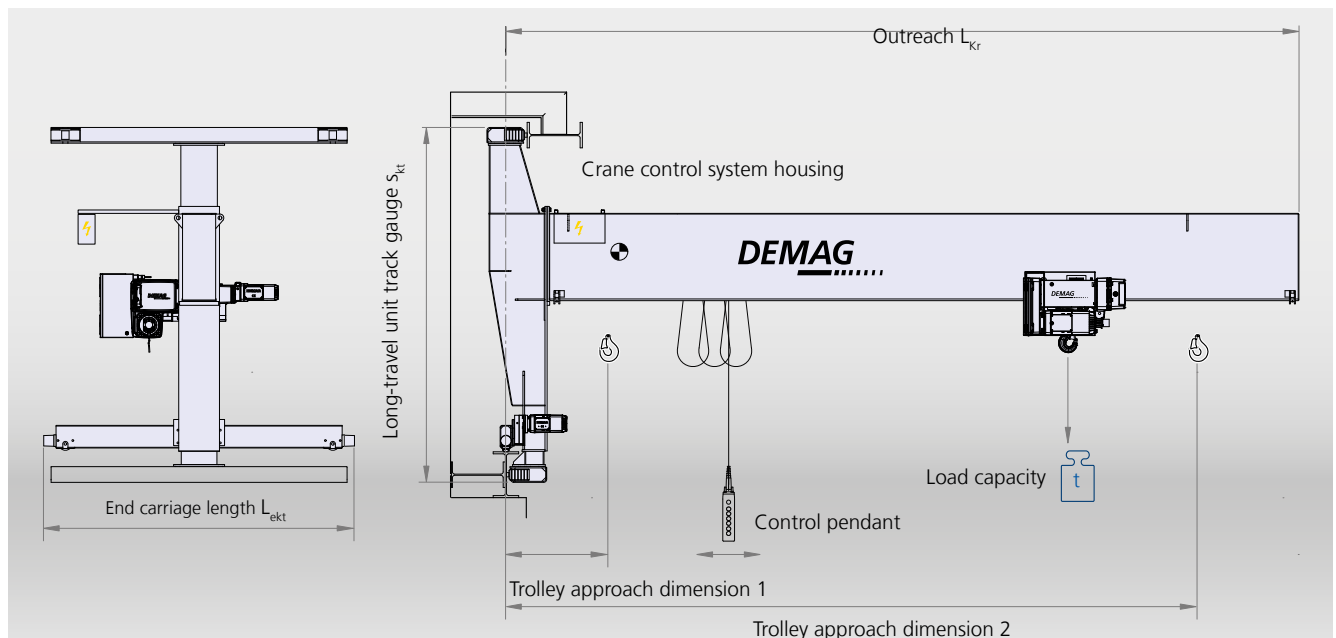
- Demag travelling rope hoist optimised for crane applications
- Optimum utilisation of the available height and space thanks to compact design, minimum approach dimensions and large hook path
- Low-sway transport thanks to variable travel and lifting speeds
- Precise, gentle positioning provides for greater safety and convenient operation
- Efficiency thanks to comprehensive monitoring with processor control to meet future requirements (preventive maintenance).



BOTTOM BLOCK

- Sophisticated bottom block design with standard load hook for easy connection of load handling attachments
- Rope lead-in guard eliminates the risk of being caught between the rope and sheave
- Handle recesses on both sides simplify handling of the bottom block and increase operating safety.

Outstanding construction – technical data



Planning aid

Operating range

		Outreach [m]																				
		2	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10	10.5	11	11.5	12
Load capacity [t]	0.5																					
	1																					
	1.6																					
	2																					
	2.5																					
	3.2																					
	4																*					
	5																					
	6.3																					

Technical data

Load capacity	up to 6.3 t
Outreach L_{Kr}	up to 12 m
Long-travel speed	
■ Frequency-controlled	■ up to 40 m/min
■ Pole-changing	■ 6.3/25 m/min
Cross-travel speed	up to 30 m/min
Lifting speed	up to 25 m/min

AT A GLANCE

- The outreach of the crane girder can be designed to specification at the customer's request.
- For project planning purposes, the configuration points are chosen in steps of 0.5 m.
- For example: you are looking for an EKKW wall-mounted travelling crane with a load capacity of up to 4 t and an outreach of 9.63 m.
- For configuration purposes, we would assume an outreach of 9.5 m (*).

The ideal combination – equipment and options



Smart tandem:
control of two wall-mounted travelling
cranes by just one operator. Each crane
is equipped with a travelling hoist for
safely handling long and awkward loads.

TANDEM OPERATION

Operating two EKKW wall-mounted travelling cranes in the optional tandem mode enables unusually heavy or bulky loads to be moved:

- control of both cranes with one transmitter. One of the cranes is treated as the master crane via a master/slave control system. This crane then controls the slave unit via data transfer
- synchronised safety cut-off of both cranes.



TWO-HOIST OPERATION

Optional two-hoist operation makes it easier to handle long, awkward loads:

- both hoists are controlled using a single transmitter
- synchronised safety cut-off of both travelling hoists

These additional operating modes are supplemented by a full range of load handling attachments to deal with numerous requirements.

Safety control system: smart tandem operation and safety cut-offs are monitored by specific sensors.

Excellent advice – perfect planning

Right from the start of the planning stage, we will apply our expertise to provide you with an innovative crane solution.

THIS MEANS:

- we focus on your requirements
 - logistical interfaces are defined at an early stage.
- This approach ensures the safety of the project as a whole and for every detail.

3D CAD SYSTEMS

When designing wall-mounted travelling cranes, we make full use of state-of-the-art 3D CAD systems. The parameters specific to each project are used to generate the necessary documents using CAD systems:

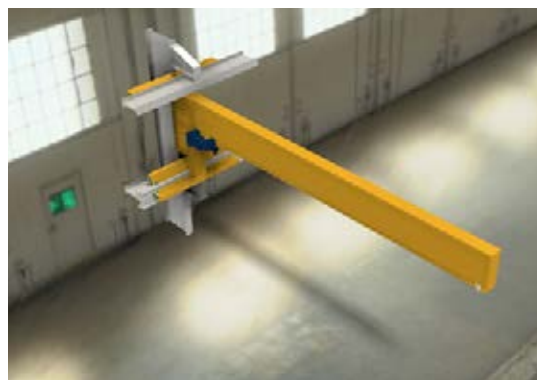
- 3D model
- project drawing
- assembly and component drawings.



We advise customers during the concept phase

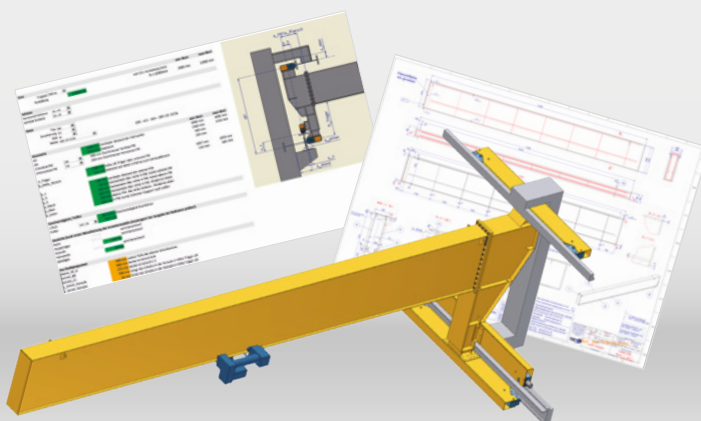
WE PLAN – YOU BENEFIT

Project engineering and design work for the crane installation are both simplified and accelerated by the use of our planning tool, which also verifies the plausibility of the data. Rather than find out during installation whether the design and layout are correct, we check in advance using simulation, which ensures engineering accuracy and adherence to budgets.



The site situation can be simulated to allow the plans to be verified in advance

Our CAD system automatically generates a 3D model, project drawings, parts lists, assembly and component drawings





Economical from the start

DEMAG EKWK wall-mounted travelling cranes



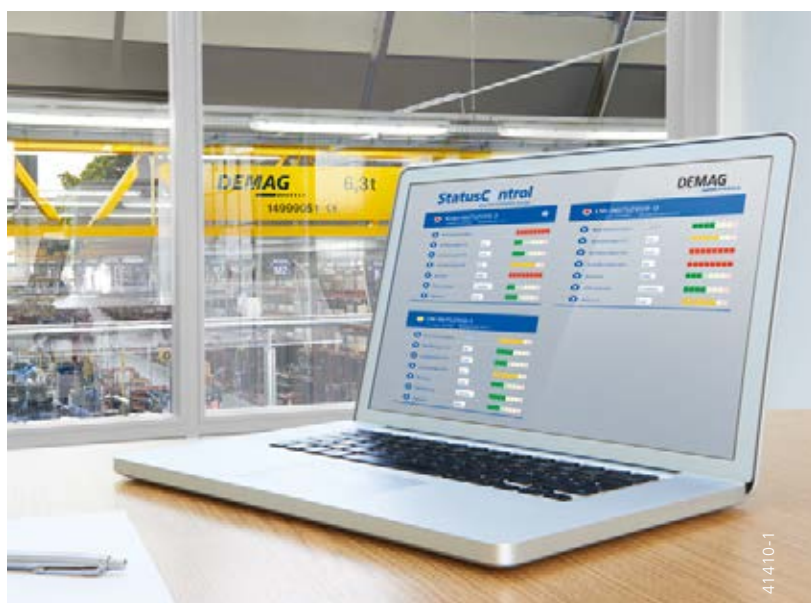
Solutions for professional installation management

Challenges also grow in line with the size and complexity of your machinery and equipment: you need to meet your maintenance schedules and have direct access to a wealth of data. We provide you with innovative solutions for all current and relevant operating data and their analysis at a glance. You can then plan your annual safety inspection in advance and operate your equipment even more efficiently.

DEMAG STATUSCONTROL: REMOTE ACCESS IN REAL TIME

Keep an overview of the current status of your installations at all times. Demag StatusControl is the wireless remote access system for cranes and hoists that delivers, analyses and clearly evaluates data in real time. Regardless of the brand of your installations.

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. The intuitive user interface always keeps you up to date on the risk of any possible downtime and enables you to precisely schedule any necessary maintenance work.



DEMAG SERVICE PLATFORM: ONE SOLUTION FOR ALL YOUR EQUIPMENT

Our Demag Service Platform combines all information on equipment, service work and events. It provides you with a clear overview of not only cranes, but also other technical equipment regardless of their manufacturers and locations. From safety officers to factory management – everybody involved in your service activities has the same information at all times.

Our Demag Service Platform enables you to coordinate your deadlines efficiently and gives you direct access to a verifiable history of inspection work – including all documents relevant to your service activities



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