

DEMAG

Cranes & Components

Demag cranes in the paper industry

Increasing productivity in production, conversion, processing, storage



Making light work of heavy loads

Many process-optimised cranes of Demag Cranes & Components support production and storage processes with a high reliability in the paper industry all over the world. Apart from special requirements in the wet area with extreme levels of moisture and high temperatures, above all a high degree of precision is essential for changing the paper rolls as well as partially or fully automated processes with high hoist and travel speeds for efficient storage and retrieval.

Due to the precisely matched combination of components, systems and services, process cranes of Demag Cranes & Components guarantee the highest possible safety, efficiency and reliability at any time.

Safe production

- robust but gentle on the wet end
- precise and comfortable on the dry end
- flexible when coating and rewinding

Efficient storage

- gentle and quick handling
- explanatory storage management

Reliable operation

- flexible strategies
- foresighted planning

In order to meet these requirements, detailed know-how of your processes is necessary. We have successfully used this know-how in numerous projects meeting your requirements as reliable partner.





Robust but gentle on the wet end

Permanent operational safety

- True vertical lift: safe work without hook travel avoids damage to paper machines and products and minimises the risk of accidents
- Optimum lifting path of the auxiliary hoists: easy accessibility to the machinery for repair work
- Lifting/travelling with automatic control: smooth handling of the load protects capital goods and products against damage
- Absolutely synchronous lifting and cross-travel operation (master-slave operation): ensures safety for products and personnel
- Inverter control for long and cross travel: minimises load sway



Changing rolls and cylinders:
Demag double-girder crane for safely
changing rolls at the wet end of the
paper machine.



The crane is a versatile tool for maintenance and
production at the wet and dry ends.

Reel handling – dry end



Availability guaranteed

- Safe production at full load operation – torsionally stiff girders
- Easy positioning of the load due to acceleration and deceleration independent of the load
- Semi-automatic long and cross travel possible by automatically approaching basic positions on the paper machine
- Radio remote control systems ensure safe operation – the load is always in sight
- Bypass control for safety zones and collision protection

Full compatibility with the relevant European standards ensures maximum availability of your production facilities.

Reel transport: Intermediate storage of paper rolls before transport to the rewinder.

Coating – rewinder

Working around the clock

- Load handling attachment with safety control for safely picking up the load
- Paper rolls secured against rolling away prevent the load being picked up incorrectly
- Motor-powered rotating spreader bar for turning the paper rolls into position
- Easily accessible crane subassemblies reduce maintenance periods

Since the crane design is adapted to the structure of the building, minimum structural elements and enclosed space are required, thus reducing construction costs.



Paper finishing: Demag double-girder crane with motor-powered spreader bar for reel transport between intermediate storage and finishing.

Storage and warehouse management

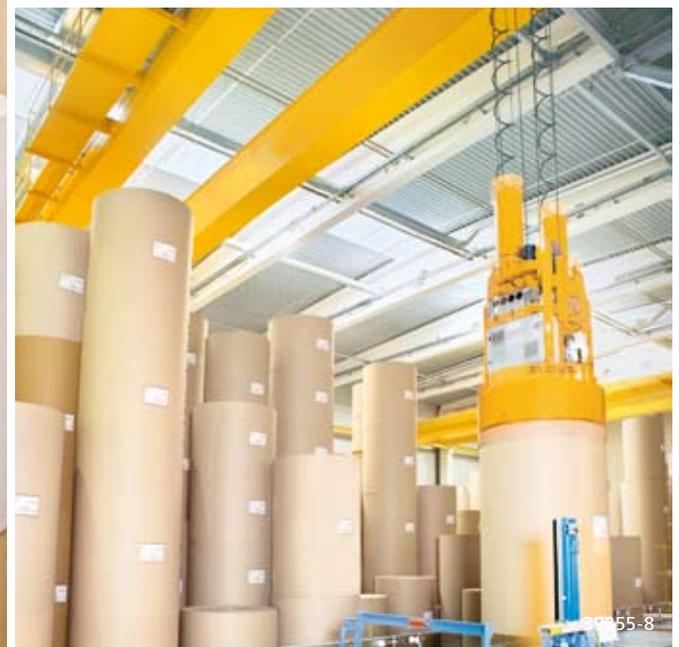


Smooth and safe intermediate storage of paper rolls

- Maximum utilization of the available height and area:
optimum utilization of space
- Maximum handling rates at variable access
- Careful handling
Tissue paper, coated and non-coated paper and cardboard

Safe handling, maximum positioning accuracy and minimum working cycle times provide for:

- Efficiency
- Utilization of space
- Delivery performance
- Status information
- Material protection



Paper roll storage: Demag double-girder crane handling packed and unpacked cut paper rolls in stacks.

Control System

Optimum distribution of paper rolls

- Adapted storage strategies for intermediate and shipping store
 - Flexible storage pattern for different roll diameters
 - Interfacing to a higher-level computer system
 - System and machine monitoring by means of operator terminals
 - Customer-specific visualisation of the warehouse layout
- Minimisation of interfaces: Supply of in-house warehouse management systems with hardware and software specifically adapted to the installation.



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Warehouse management: Overview, status information, inventory control, continuous inventory, production planning.



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An advanced concept for the future

Modern paper roll storage in printing houses

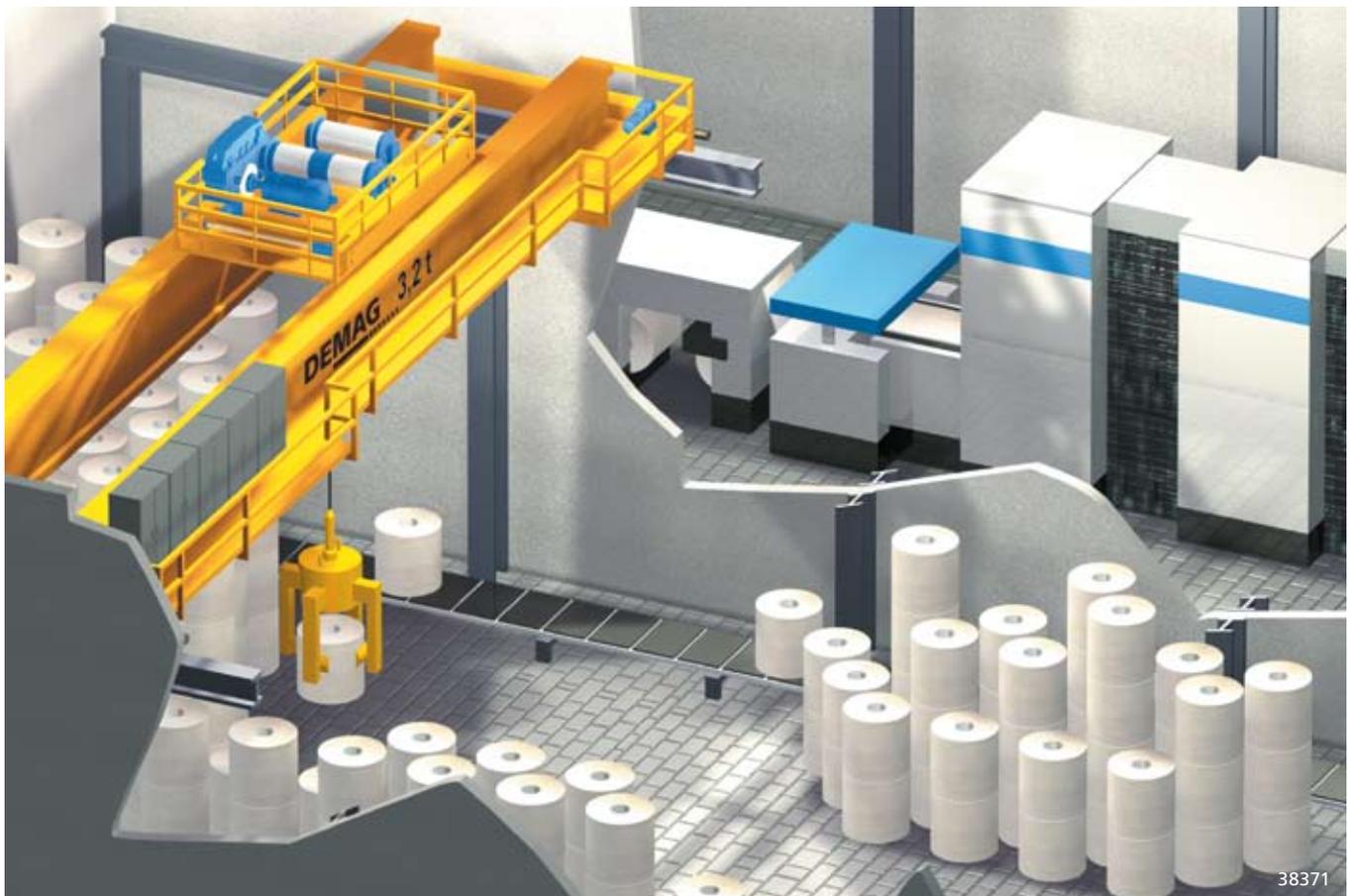
Old buildings often mean limited space. Modern production facilities help to increase efficiency and flexibility.

- Our aim is:
 - to enhance production flow, eliminate susceptibility to faults, increase throughput rates, avoid new building, keep loads on the building as low as possible.
- Our task also includes:
 - the optimisation of loads transmitted to the crane runway and supports
- Your requirement is:
 - to contribute towards the optimisation of the work



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New concept for old buildings: Efficient and modern production in old buildings.



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Leading companies have successfully used Demag cranes for many years

Paper production cranes

Customer	Country	Customer	Country
Brunswick Pulp & Paper	USA/Canada	Myllykoski	Germany
Cartiere Lucchese	Italy	Ningbo Zhonghua Paper	China
Celanese Mexicana	Mexico	ProPapier	Germany
Chapelle D'Arblay	France	PT Indah Kiat	Indonesia
CoMeCart	Italy	PT Tjiwi Kimia	Indonesia
Didier	France	Saica	Spain
Holmen Paper Papelera Peninsular	Spain	SAPPI Gratkorn	Austria
James River	USA/Canada	SCA Sundsvall	Sweden
Lang Papier	Germany	SCA Packaging	Germany
Lee & Man	China	Siam Kraft	Thailand
M-Real Hallein	Austria	The Donside Paper	Scotland

Paper roll storage cranes

Customer	Country	Customer	Country
Asian Pulp & Paper	China	M-Real Hallein	Austria
Burgo	Italy	Oudegem Paper	Belgium
Cartiera di Cadidavid	Italy	Papierfabrik Jass	Germany
Cartiera di Cassino	Italy	ProPapier	Germany
Dongguan Land Dragon Paper	China	P-Well	Germany
Dongguan Sea Dragon Paper	China	SCA Hygiene Products	Germany
Gold East Paper	China	SCA Mölnlycke	Sweden
Hamburger AG	Austria	Stora Enso	Germany
ITC Bhadrachalam	India	Tela AG	Switzerland
Modern Karton	Turkey		

Demag Cranes & Components GmbH

P.O. Box 67 · 58286 Wetter / Germany

Telephone +49(0)2335 92-7919

Telefax +49(0)2335 92-2339

E-mail info@demagcranes.com

www.cranes.demagcranes.com