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**MECHANICAL GRIPPER**

**KONECRANES®**  
 Lifting Businesses™

**Product Sheet**

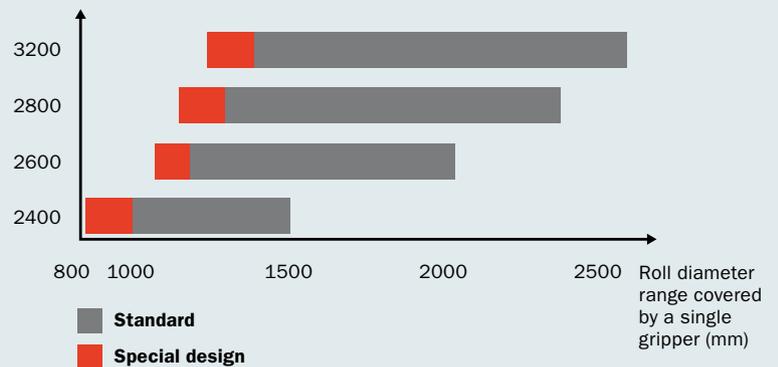
**MECHANICAL LIFTERS FOR PAPER ROLLS**



**Roll diameter range & gripper weight**

AVG gripper weight (kg)  
 excl. lifting beam,  
 pulleys

Gripper for set handling 150–200 kg heavier



# MECHANICAL LIFTERS FOR PAPER ROLLS

## Design

The mechanical paper roll lifter grips the rolls with evenly distributed 6 friction pads around the roll. A gentle but firm grip minimizes roll deformation and damage. The fully mechanical construction (patented) is robust but lightweight and compact, and can make it possible to utilize the storage space more effectively.

## Versatile

Designed for automatic, safe and gentle handling the mechanical gripper can handle a large variety of different paper grades and roll sizes. Both wrapped and unwrapped rolls can be handled.

The large tissue paper jumbo rolls are as easy as the hard papers for the mechanical gripper, diameters up to 2600 mm, even more if needed.

## Handling capacity

Multiple narrow rolls can be lifted as well as the maximum width rolls. For a shipping storage application this allows fast truck loading of the customers' orders.

Payload of the standard series gripper is 6000 kg and of the heavy duty series up to 10000 kg.

## Safety and positioning

The lifter's own processor calculates the needed gripping force for each roll for > 2,0 safety factor to start lifting motion.

For cases of cut off in the external power, the system has no time limit to hold the roll(s) because the mechanism stays tight around the roll without electricity or any external force.

Position measuring and anti collision sensors help to ensure a safe operation and to stop the movement if a risk is detected. Wireless data transmission with hardwired interlocking reduce the need for wearing cable.

## Easy maintenance

Each gripper is delivered with a maintenance stand which also functions as part of packing and protection during transportation. Maintenance work and easy-to-do-changing of one complete arm is the biggest possible operation and that can be done in a couple of hours with a trained team.

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Konecranes is a world-leading group of Lifting Businesses™, serving a broad range of customers, including manufacturing and process industries, shipyards, ports and terminals. Konecranes provides productivity-enhancing lifting solutions as well as services for lifting equipment and machine tools of all makes. In 2013, Group sales totaled EUR 2,100 million. The Group has 11,800 employees at 600 locations in 48 countries. Konecranes is listed on the NASDAQ OMX Helsinki (symbol: KCR1V).

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MASTERGRIP	D1000 – D1500	D1500 – D2100
D (Upper frame diagonal)	2260 mm	2830 mm
H (Height from roll/set bottom)	4400 mm	4400 mm
D min (min roll D)	1000 mm	1500 mm
D max (max roll D)	1500 mm	2100 mm
W min (min roll width)	600 mm	600 mm
W max (max roll/set width)	3200 mm	3200 mm
Max roll/set weight	6000 kg	6000 kg
Weight (gripper weight)	2600 kg	2800 kg

Manufactured for Konecranes  
 by Raumaster Paper, Finland