

INNOVATIVE HANDLING SOLUTIONS TO MEET YOUR REQUIREMENTS



Solving provides a wide range of automated handling systems for customers in the paper industry: AGVs, air film Movers, wheeled and railed handling equipment. The handling systems can be used not only for the handling of paper reels but also for handling of sheet pallets, tambour rolls and cores.

Contact our team to create a solution for your specific handling requirements.



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Solving Movers

FOR THE PAPER INDUSTRY



Automated handling of horizontal paper rolls



CREATING MOVEMENT

Automated handling of horizontal paper rolls

Field of application

Horizontal paper rolls are transported by AGVs from the paper machine to processing, or to packaging and storage.

Customised automated guided vehicles

The AGVs are customised to suit customer's requirements and are used for handling horizontal paper rolls in the production of paper, cardboard or tissue.

Automatically adjustable forks

Fitted with automatically height-adjustable forks the AGVs can pick up paper rolls either directly from the floor, or from a conveyor belt.

Energy supply

Fast rechargeable batteries ensure 20 h operation/day. When necessary other energy supply concepts can also be chosen.

Safety devices

Compared to manual tucks the AGV is fitted with safety devices that both improve safety for personnel and reduce the risk of damage to products and other equipment.

As well as the normal safety devices (emergency stop, laser scanners, optical and audible signals etc.) the automated guided vehicle can be fitted with bluespot and an additional scanner for hanging loads. The AGV stops automatically when an obstacle is recognized in the drive path.

The AGVs are mostly laser guided, but other navigation methods can be applied if necessary.

Safety is improved by blue warning lights, so-called bluespots, projecting a blue light beam on the floor ahead of the AGV to warn pedestrians and forklift drivers about the AGV's driveway.

The forks are automatically height-adjustable to ensure that horizontal paper rolls can be picked up from any desired height.

The AGV is fitted with an additional sensor to detect any over-hanging loads along the drive path.

The AGV is fitted not only with laser scanners but also with an additional electromechanical safety bumper for improved safety.



Technical data

(examples of installed Solving systems)

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| Paper roll diameter | 500...1.850 mm |
| Paper roll width | 500...4.500 mm |
| Paper roll weight | 1...10 tons |

