



Cascade's AGV Solutions Improve Efficiency and Productivity across the Supply Chain



cascade
corporation

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From all-electric solutions like the energy efficient Electric Multiple Load Handler that handles multiple pallets at the same time to hydraulic attachments like our Paper Roll Clamps that handle large, heavy-duty tissue rolls, Cascade works closely with you to design solutions that are fully integrated with the AGV and provide high quality performance.



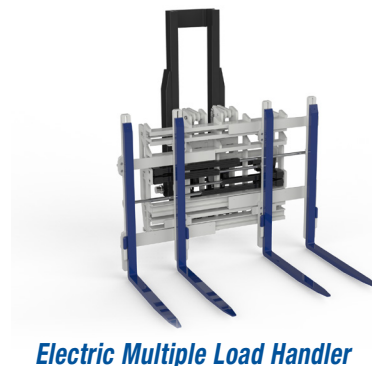
Cascade's full range of AGV attachments are:

- Equipped with an electronic interface and sensors for use with AGVs.
- Able to integrate seamlessly with the vehicle.
- Completely customizable. As with Cascade's custom offerings, AGV attachments can be adapted from current offerings to meet the needs of a customer's workflow.

All-electric AGV solutions are available for certain attachment models. Electric attachments provide revolutionary energy efficiency, which means extended battery life and reduced downtime for your AGV. The all-electric actuation eliminates the need for hydraulic components and the potential for a leaking hydraulic hose or fitting. Not only is this environmentally friendly, but it results in less cost for the system (AGV and attachment) plus it reduces maintenance required, resulting in a lower total cost of ownership.



Electric Sideshifter

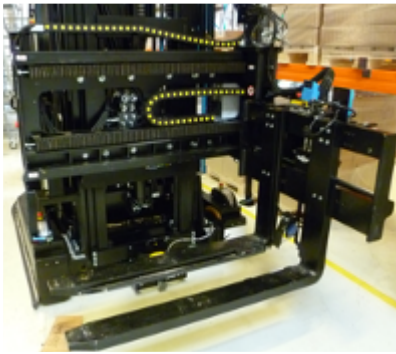


Electric Multiple Load Handler



Paper & Tissue – handling with care

AGVs excel in the paper industry by providing consistent, highly precise and efficient roll handling. Cascade has a wide variety of Paper Roll Clamps for handling paper rolls of any size or weight, including special options for handling tissue rolls such as a specialized boom arms and fork positioners with special shaped forks for cradling a horizontal paper roll. In addition, a full range of clamp pads developed to match specific types of paper and reduce the risk of product damage, are available.



Warehousing & Logistics – diverse load handling

Automation is a great tool for optimizing use of space, particularly in Very Narrow Aisle (VNA) and high stacking applications. For these situations, Cascade offers specialized solutions such as our Bilateral Forks, which traverse the AGV carriage horizontally and extend from the left and right sides so turning is not needed to approach a load. Other solutions include our Trilateral Head that enable forks to turn left or right 90 degrees and Telescopic Forks for double-deep pallet racking.



Food & Beverage – moving high volumes

Cascade attachments on AGVs can help you move large volumes of product, such as in food and beverage applications that face large demand every day. Carton Clamps, Layer Pickers and Multiple Load Handlers are a few of the Cascade solutions that allow for efficient load handling. For example, Multiple Load Handlers feature adjustable fork sets to handle single or multiple loads, significantly increasing throughput and helping you to satisfy quotas as quickly as possible.

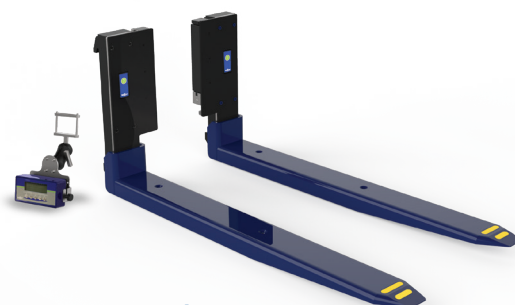
***...and beyond. Cascade products can be customized to your automation strategy –
any application, any industry.***

Smart Solutions.

Digital solutions can also be integrated into Cascade forks and attachments to further enhance the capabilities of an AGV. From our Weigh Forks that have the ability to automatically capture and track essential data to our Sensor Forks that offer a suite of digital sensors, these solutions can enable even more precise handling in automated environments.



Sensor Forks



Weigh Forks

A Partnership You Can Count On

As a global company with locations around the world, Cascade is able to provide an unmatched level of after-sale service on all of our attachments. With dedicated customer support and comprehensive knowledge of materials handling, a Cascade solution is a smart investment for any company working with AGVs. Contact Cascade today to discuss AGV solutions with a member of our team.



- ✓ **INDUSTRY LEADING WARRANTY PROGRAM**
- ✓ **GUARANTEED BUYBACK**
- ✓ **EXPERT LOCAL SUPPORT**
- ✓ **SERVICE YOU CAN COUNT ON**



Whatever the application, we can handle it.

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