

Bolzoni partner in AGV applications



Automation solutions applied to the material handling world are continuously evolving. Automated Guided Vehicles are included in this change and represent the new challenge for forklift truck and attachment manufacturers today.

As strategic choice to support facilities implementing the Industry 4.0 philosophy, AGV solutions integrally fit in this project mainframe and can become a key tool to develop innovative processes.

In strict cooperation with main AGVs producers, Bolzoni has developed a range of attachments equipped with specific sensors controlled and managed directly by the AGV control unit.

Innovation and flexibility.

The latest technology development in Bolzoni has been to design and manufacture fully electric driven attachments. The possibility to avoid any hydraulic has multiple benefits: cleaner environment, better and more efficient connection with the AGV control system, more precise, reliable and repetitive movement and correct positioning of the different attachment operations. **Bolzoni is investing heavily in electronic**

technology, using more and more sensors and cameras.

As well, in collaboration with another world leader in AGV and automatic solution provider, Bolzoni developed fully electric fork positioners for the automotive industry. The units, thanks to electric actuator, are able to precisely position the forks depending on the load to carry. A full set of sensors installed on the attachments help the AGV to exploit the different missions and to fulfil all handling needs in the manufacturing and warehousing processes.

To offer the best tools for improving customer processes, AGV solution providers can rely on the cooperation with Bolzoni.

BOLZONI is one of the worldwide leading manufacturers of lift truck attachments, forks and lift tables. The company has manufacturing plants in Italy, Germany, Finland, America and China and through its network of direct branches and independent dealers covering all continents it is able to satisfy all market requirements.

BOLZONI

LIFT TRUCK ATTACHMENTS - FORKS - LIFT TABLES

Engineered for the Tissue paper industry, the Bolzoni roll clamp

In paper world, specifically in tissue paper production facilities, significant heavy machines and important clamping force, necessary to handle big rolls, steer the technical decision to more traditional hydraulic solutions. A worldwide leader in tissue production and distribution for one of the biggest plant in North America, decided to manage transportation and warehousing of parent rolls (more than 5 tons of weight and 3m of diameter) with heavy LGVs equipped with Bolzoni dedicated clamps. The hydraulic system and the sensors set have been co-designed with the LGV manufacturer and specifically adjusted to marry the control system of the automatic machine.

When the AGV needs to position the forks for different pallet sizes, it can use a Bolzoni electric driven fork positioners, operated by electric actuators, easy to control and more precise in positioning. Same if the need is to rotate a bin. The electric driven rotating device can do the work in a much better, clean and easy way.



Fully electric driven 360-degree rotating box clamp

So when an important AGV producer had to face the mission for a worldwide tobacco producer to clamp, stack and empty by rotating bins of tobacco, they decided to cooperate with Bolzoni and to co-design **fully electric driven 360-degree rotating box clamps**.



Bolzoni trilateral head for narrow aisle AGV

Same concept for one of the leader producers in food & beverage industry operating worldwide using narrow aisle AGVs equipped with electric driven Bolzoni trilateral head. Beyond the possibility to avoid hydraulic fluid in the handling equipment, the AGV manufacturer has been able to better control the unit, allowing complete 180-degree rotation of the head inside the aisle, great advantage to increase the speed of the operation, therefore the productivity of the warehousing system.



Fully electric fork positioner designed for the automotive industry

As well, in collaboration with another world leader in AGV and automatic solution provider, Bolzoni developed fully electric fork positioners for the automotive industry. The units, thanks to electric actuator, are able to precisely position the forks depending on the load to carry. A full set of sensors installed on the attachments help the AGV to exploit the different missions and to fulfil all handling needs in the manufacturing and warehousing processes.



BOLZONI serve material handling industries in the areas of forest products, white goods, logistics, food and beverage, chemistry, steel, automotive and many others. Robust products, with superior visibility, handle loads efficiently, safely and damage free. The BOLZONI Group is totally committed to continuous quality improvements, providing excellence to customers worldwide. For more information on Bolzoni products, please visit our website bolzonigroup.com and contact us at sales@bolzonigroup.com, or contact the nearest Bolzoni representative.

BOLZONI S.p.A.

Via I MAGGIO,103 - I CASONI 29027 PODENZANO - PIACENZA (ITALIA)
Tel. +39 0523 555511- Fax +39 0523 524087

www.bolzonigroup.com sales.it@bolzonigroup.com

BOLZONI 
The Material Handling Group