



**MecVel**<sup>®</sup>

# Recycling industry and waste treatment



MecVel  
products for  
the industrial  
automation

MecVel Srl - Via Due Portoni 23, Bologna, Italy  
info@mecvel.com - www.mecvel.com  
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## MECVEL SELECTION OF ELECTRIC LINEAR ACTUATORS FOR THE RECYCLING INDUSTRY

Recycling is becoming more and more important as the circular economy model has gained a worldwide attention. In this scenario, MecVel has decided to develop 100% green solutions able to fulfil the motion requests of the waste and recycling industries, the renewable energy field, but also for agriculture, zoo-technics and livestock industry. Electric linear actuators have no environmental impact when compared to hydraulic or pneumatic ones, being the most suitable solution for linear movements to be performed in recycling plants, electric road sweepers and street washers, solar trackers, wind turbines or in the hydroelectric field.

Electric linear actuators have up to 20 tons load capacity, they are small in dimensions and operate precise, fast and reliable movements: these are ideal features for applications in the waste treatment industry, to maximize the performance in the recycling process. Moreover, MecVel customization service allows to configure each product to tailor it according to the machine or the application to which it is intended, meeting any technical specification.

### BENEFITS OF MECVEL ELECTRIC SYSTEM



Electric systems, unlike hydraulic and pneumatic ones, do not have particular use restrictions and performances are not influenced by:

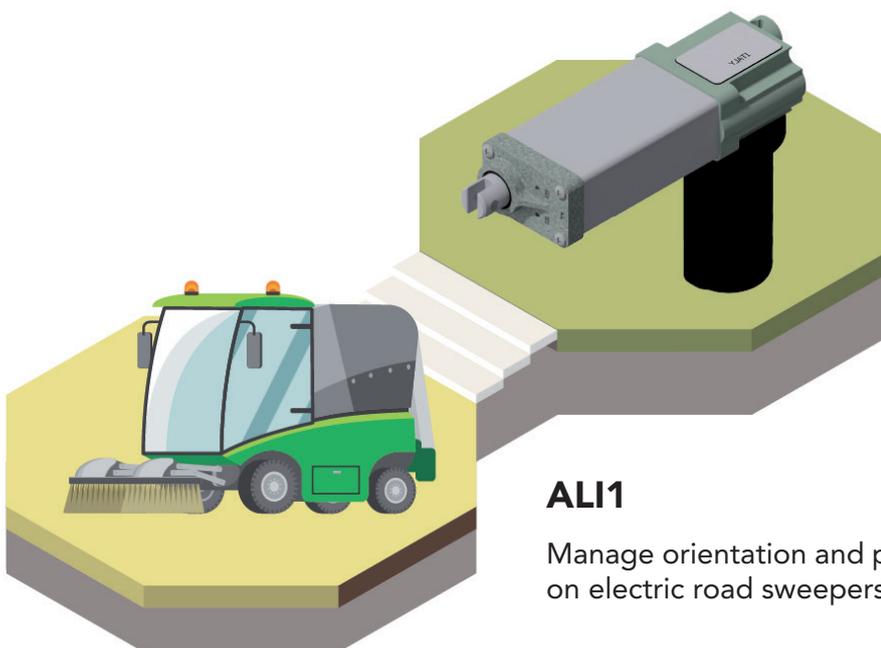
- Variations in the level of oil flow or air pressure
- Contaminants leaks
- Large size components that require intensive maintenance

MecVel linear actuators offer:

- High precision in positioning, also in case of frequent repetition
- Excellent levels of safety thanks to optional devices for feedback and control as limit switches, encoder and potentiometer
- Possibility of full customization: this service has the purpose to tailor each product in its technical parts on customer needs
- Plug and play installation and remote control, matchable with the latest electronic devices
- Green technology as per industry 4.0 concepts of energetic efficiency and sustainable industrial production

### ELECTRIC LINEAR ACTUATORS FOR WASTE TREATMENT

The most common uses of electric linear actuators in the waste treatment industry are:

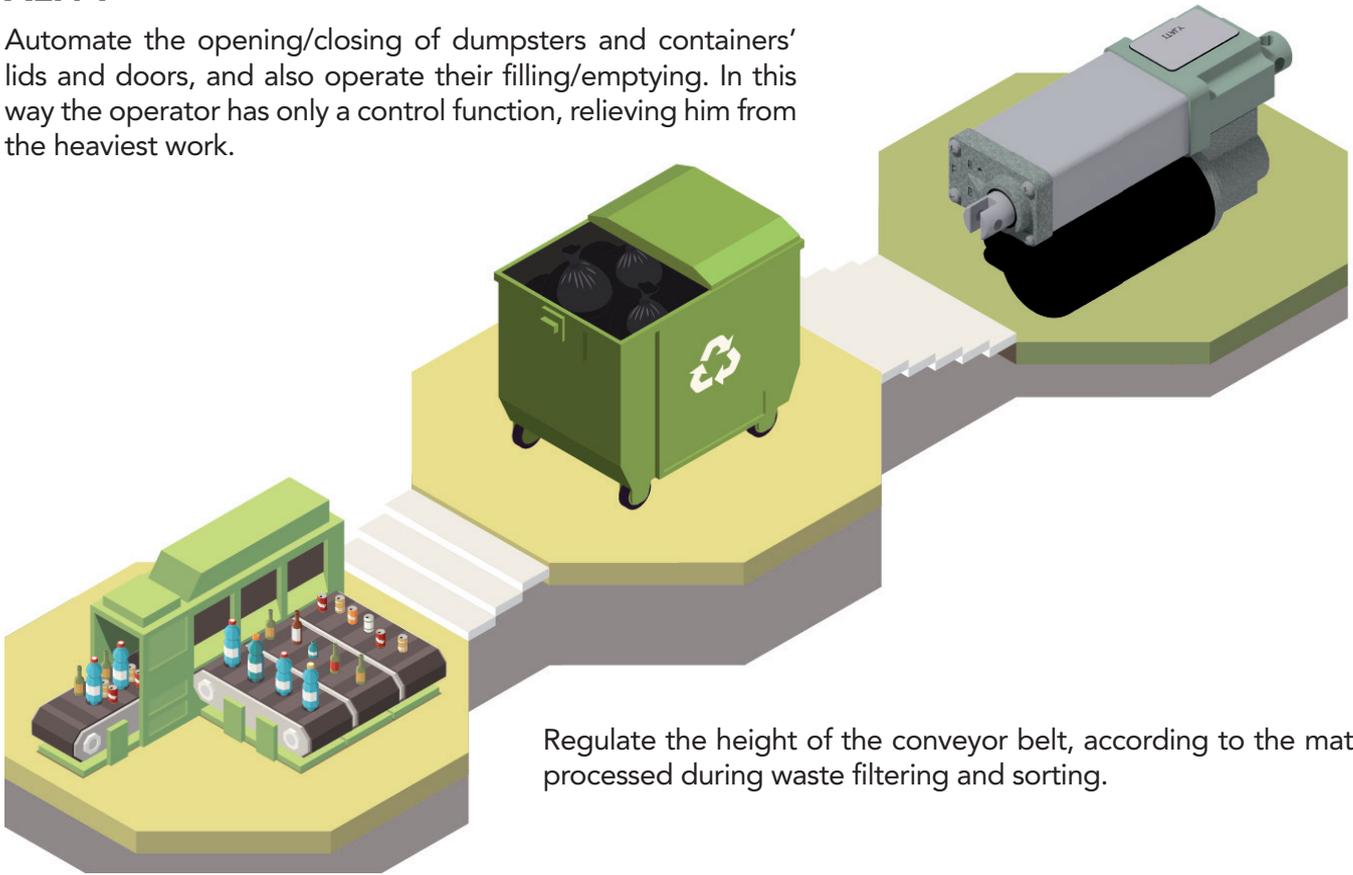


#### ALI1

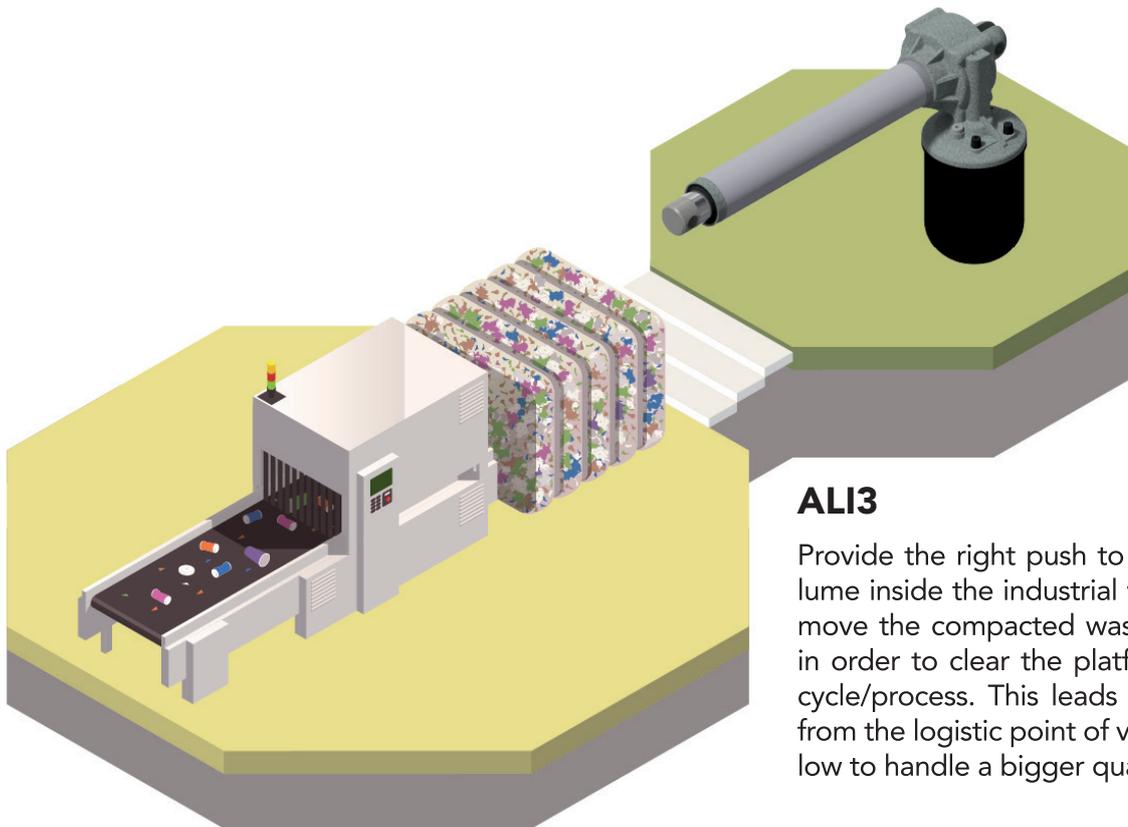
Manage orientation and positioning of cleaning devices mounted on electric road sweepers and street washers.

## ALI1-P

Automate the opening/closing of dumpsters and containers' lids and doors, and also operate their filling/emptying. In this way the operator has only a control function, relieving him from the heaviest work.



Regulate the height of the conveyor belt, according to the material processed during waste filtering and sorting.



## ALI3

Provide the right push to reduce the waste volume inside the industrial waste compactor, and move the compacted waste from the load cell, in order to clear the platform for the following cycle/process. This leads to an advantage also from the logistic point of view: lower volumes allow to handle a bigger quantity of waste.