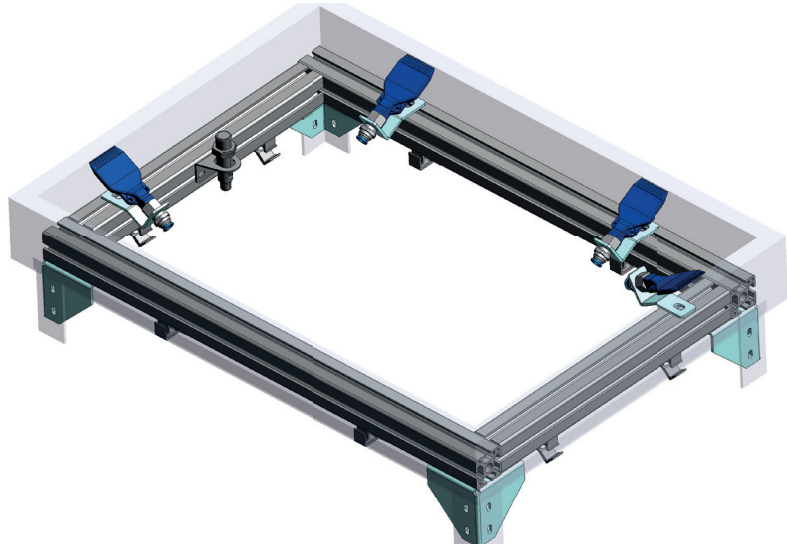
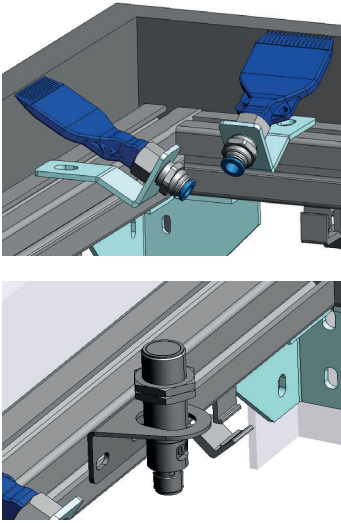


## AutoStore cleaning device

higher robot availability  
and picking performance

# Uninterrupted working and increased plant availability



## ADVANTAGES

- **Effective prevention of pollution of the robots sensor technology**
- **Significantly reduced downtimes**
- **Reduced plant maintenance**
- **Fully automatic cleaning during operation**
- **Environmentally friendly cleaning method by compressed air**
- **Quick and easy to install**

### Position monitoring of the robots

For the smooth functioning and safe operation of the AutoStore storage system, the exact positioning of the robots on the AutoStore grid is essential.

The robots are therefore equipped with rotary encoders in the motors, which calculate their position. Track sensors underneath the robots control and correct the position when crossing optical markers. This prevents robots from derailing or colliding.

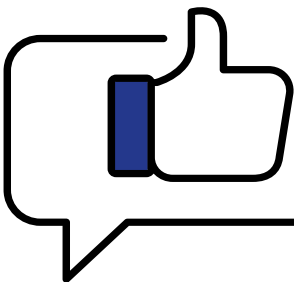
Polluted sensors can no longer control the position, thus the system control stops the system. The robot affected must be „recovered“ from the system and the sensors must be cleaned manually.

### The AutoStore cleaning device

The fully integrated cleaning system from Ludwig Meister frees the sensors from dust and contamination during operation and thus prevents this reason for failure.

The cleaning device is installed in high-frequency locations, for example at the workstations for storage and retrieval. A sensor barrier registers the crossing of the robots and activates the blow-off nozzles. Only a few seconds are required for cleaning, so that ongoing operation is not interrupted and no intervention is necessary in the control system.

As a result, the robots can work longer without interruption and the total availability of the system increases.



“ In our AutoStore with 94 robots, we had time and again downtime due to dirty track sensors. Ever since we installed the cleaning device of Ludwig Meister, this error never again occurred.”

**René Fellmann** CEO Competec Logistik AG

