

MECHANICA



MATERIAL HANDLING EQUIPMENT



MECHANICA



Comprehensive support

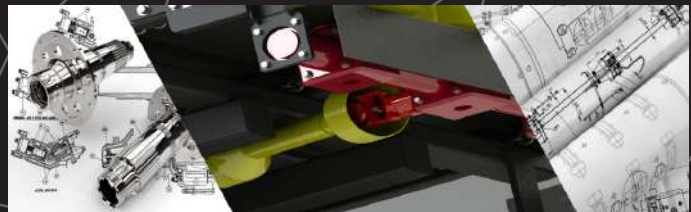
We offer optimal solutions tailored to the client's needs and assistance at every stage of the project.

We are a team of experienced engineers with extensive knowledge of designing mechanical, automation, hydraulics, pneumatics and electronics systems. We are specialists in the broadly understood technology market in Poland, who draw on their extensive experience from previous work in renowned private companies and scientific institutes.

When designing, we cooperate with many leading companies producing purchasing components for our machines, thanks to which we have access to the latest solutions existing on the market. This translates directly into the delivery of thoughtful and proven engineering solutions.



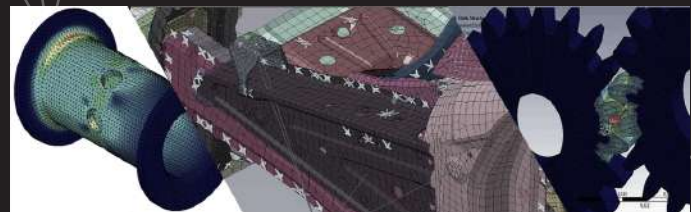
Material handling equipment



Design of automation systems



Experimental research



Computer analysis of structures



Machine design, virtual modeling,
technical documentation



Design of pneumatics
and power hydraulics systems

Tube lifters

The use of tube lifters significantly accelerates production and reduces the load employees while maintaining work safety conditions. Simple construction and service guarantees easy implementation of solutions among operators while increasing efficiency of their work. Mechanica's solutions are configured for a given detail and type production. The systems work with cranes and aluminum overhead cranes.



VacuQuickLift VQL Tube lifters
single-handed operation
for light workpieces



VacuQuickLift VQL Tube lifters
with max lifting capacity 45 kg



VacuPowerLift VPL Tube lifters
for tiltable sheets handling



VacuPowerLift VPL Tube lifters
with max lifting capacity 200 kg

Intelligent lifting devices

Easy Arm® manipulators are part of an exciting new family of material handling devices as intelligent assistance devices (IAD). Only patented technology is used based on a servo drive that provides unrivaled lifting precision and speed. Connection these two advanced technologies and humans maximize work efficiency while minimizing it risk of injury to the operator. Possibility to program the device and send information for production monitoring programs, it provides us with a constant overview of production processes.



Sensory handles that react to the movement of the operator's hand



Lifters that guarantee precision detail control



Intelligent assist device ensuring smooth movement



Easy Arm manipulators using high-precision drives

Vacuum grippers

Vacuum grippers are an indispensable tool when moving heavy and uncomfortable items for the detail operator. They enable one employee to close transport materials, without assistance third parties, at the same time relieving and accelerating loading, logistics and assembly processes. A wide range of configurations guarantees the use of grippers in the glass industry, wood, metallurgical, chemical and heavy in the transport of materials in the scope from 50 kg to 100 tons.



Window grippers of any configuration and load capacity max. 650 kg



Grippers to horizontal transport of details from 80 to 40,000 kg



Grippers with possibility of 90 degree inclination and lifting capacity max. 15,000 kg



Grippers with possibility of rotatable by 180 degrees and lifting capacity max. 2500 kg



Coil grippers with the possibility of tilting by 90 degrees



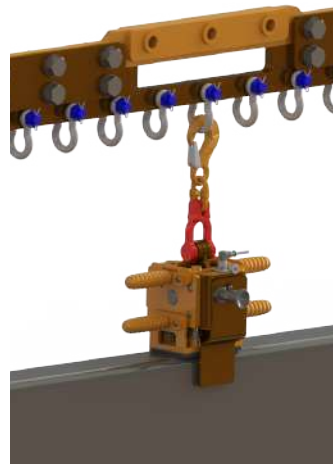
Handling grips load-bearing timber max. 1000 kg

Special grippers

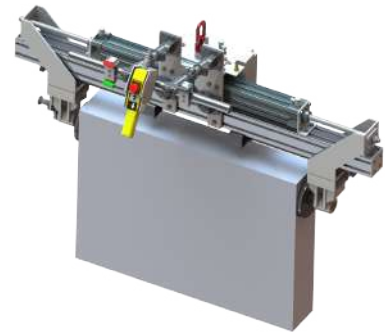
Custom, combined gripper designs are often the best solution several different drives. Complicated geometry or an unfavorable environment make it much more difficult choosing the best design, which makes the standard gripper suboptimal. In these cases, MECHANICA develops and builds a specially designed solution to adapt to the type of production.



Gripper for picking up of computers from a collection box



Special sling for transporting stringers



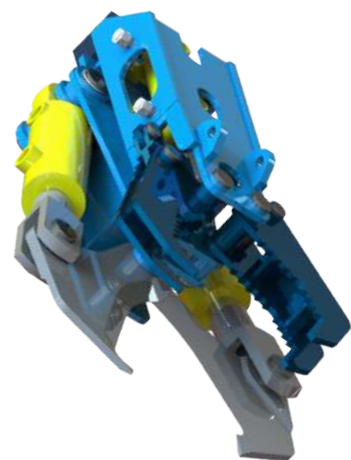
Grab for transporting concrete blocks



Grab for work at high temperatures



Manipulator with modular mast



Hydraulic head of a tracked vehicle

Cranes and manipulators

Aluminium cranes and gantries provide the ability to work with grippers or lifting vacuum lifters. The lightweight aluminium design, which has been selected according to the existing possibilities of the production halls guarantees ergonomic work under all conditions. Aluminium profiles are lightweight, making it possible to install the cranes on the hall floor without the need to lay a foundation. The lightweight cranes, on the other hand, can be suspended to roof structures or free-standing steel structures.



Pillar cranes with aluminium jibs with max. load capacity 1200 kg



Customized industrial manipulators to customer requirements



Light aluminum overhead cranes of any size configuration and load capacity up to 1,500 kg



Structural support designed and manufactured to order

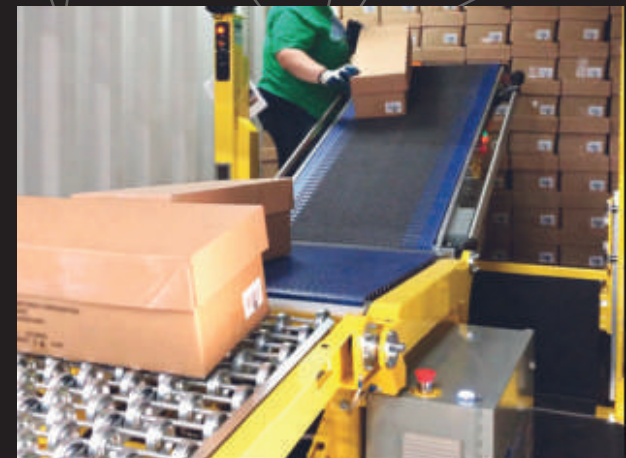
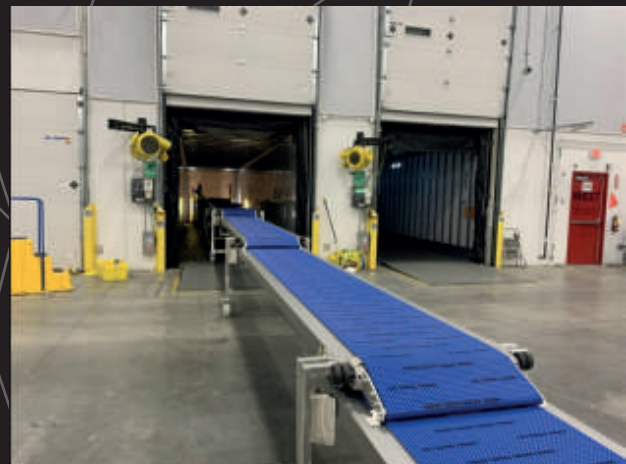
Loading and unloading system containers

Destuff-it by Gorbel Inc. is a machine designed for unloading goods from car trailers and containers to the warehouse. Loads placed on the floor of trailers are still found in many logistics operations, and their unloading requires a lot of work and time due to the lack of automation.

Using the Destuff-it system, the operator loads items onto a moving belt that is height-adjustable and ensures an ergonomic working position. The system can be integrated with belt and roller conveyors that transport items to the warehouse. We also offer the Restuff-it version, with belts moving in two directions, which also allows loading goods onto a trailer.

The use of the device ensures:

- Significantly reduced unloading time and lower costs
- Less damage to goods
- Ergonomic working position of operators
- Mobility - easy movement of the machine between loading docks



Devices and manipulators for barrels

Morse devices are used, among others, in companies from the food, pharmaceutical, chemical and oil industries, but also in others where barrels and heavy buckets are used. Barrels using Morse tools can be:

- Lifted
- Transferred
- Rotated to mix the contents
- Emptied in a controlled manner

Additionally, some tools can be integrated with a forklift. Morse products are characterized by high quality, have a durable powder coating, and many models are also available in stainless steel.



MECHANICA

Wide offer



Committed team



Experience



Highest quality





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