

AUTOMATION | MATERIAL FLOW | HANDLING



# Automation Solutions for Material Flow and Handling

# AUTOMATION SOLUTIONS FOR MATERIAL FLOW AND HANDLING

Grenzebach Automation is part of the strong and globally active Grenzebach group. Not only will you profit from our manufacturing facilities on three continents in three major currency areas and our expertise in plant engineering and process technology, you can also take advantage of our optical surface inspection systems and a professional 24/7 service organization with locations in all important time zones.

Working in cooperation with you we will develop and deliver an optimized automation solution – equally suitable for simple transportation tasks as well as complex handling and material flow applications. From conception and layout thru engineering and installation up to commissioning and service – for an optimal operational process you can rely on our experts.

We deliver finished products designed specifically for your applications and which can be adapted to your future requirements. Examples include: Fully automatic loading systems – Intelligent, small transport carriages or a flexible AGV able to transport heavy loads with ease.

## Components

Since the integration of LJU Automatisierungstechnik GmbH (GLJU) we are in a position to supply high-capacity systems which are optimized to fulfil your requirements and which can be mounted onto flexible individual conveyor systems

## Servicing

Grenzebach is your ideal partner for planning, simulation and optimization of automation solutions. We will appreciate the opportunity to assist you in finding the most efficient electrical and mechanical equipment layout. We develop control systems (PLC and high-level language) and can assist you with selection of system components or control cabinet assembly.

## SOLUTIONS

- Handling
- Conveyor equipment
- 3D detection
- Robotics

## SERVICING

- E&M Engineering
- Material flow analysis and simulation
- PLC programming
- Plant layout

## PRODUCTS

- Automated Baggage Loading
- Low Cost AGV
- Inductive AGV

## COMPONENTS

- EMS
- GLJU Car control system
- GLJU Inductive technology

## OUR EXPERTISE INCLUDES

### Conveyor technology for various applications and weight capacities.

- using the latest AGV, Monorail, Shuffle, Roller and Belt Conveyor technologies.



### Automation Engineering Technology

- Level 0-4 layout, planning, production, installation and commissioning
- PLC (Siemens, Rockwell, etc.) networks and high-level languages, production management systems



### Robotics and industrial automation

- Industrial robots and gantries
- 3D Scanning (up to 5 mm), visual detection, context-related handling of complex goods, loading strategies, gripper technology



### Special solutions

- Special-purpose machinery, commissioning, warehouse automation
- Material flow simulation



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