



# TRAINING OFFER

- > MACHINE OPERATING
- > MAINTENANCE & UPKEEP
- > VISION & AUTOMATION



# MG TECH

Meet the future of industry

# à votre services

Formation  
Assistance et expertise technique  
Pièces détachées  
Contrat d'entretien  
Retrofit Machine



## MG Tech at a glance

The MG Tech Group is specialized in the design and production of complete end-of-line packaging equipment: from case shaping to automated palletizing machinery, including automated product packaging and intelligent logistics.

Our robotic know-how allows us to provide packaging equipment with built-in functions and industrial robots.

The group, labelled "Showcase Industry of the Future", is committed to providing its industrial clients with long-term support and reliable, evolving equipment for greater productivity, agility and comfort.

The MG Tech Group has more than 200 employees spread into three production sites in France – an unmatched expertise in leading-edge technologies and a guarantee of quality and trust.

For more information about MG Tech, visit: [www.mgtech-group.com](http://www.mgtech-group.com)



**2004**  
Creation  
of MG Tech

**39 M€**  
turnover



incl. 20% for export



**3 factories**  
located in France



**5 000** machines sold  
worldwide



**+ 200**  
employees



**+ 30**  
employees  
at customer service

# CUSTOMER SATISFACTION

## *our priority*

One of the secrets of success of the MG Tech group lies in the fact that we do not limit ourselves to designing and manufacturing reliable and robust equipment, but we are committed to obtaining high operating rates.

The satisfaction of our customers is a priority and we make every effort to meet their expectations. Our customer service is based on a structured approach, focused on preventive and curative maintenance to optimize your production.

### EXPERTIZE & TROUBLESHOOTING

- Hotline from 6:00 am to 10:00 pm (French hour)
- Troubleshooting within 48h maximum
- Remote connection on the machines

### MACHINE AUDIT & RETROFIT

- Refurbishment of existing machines
- Format addition / changing
- Vision and/or quality control addition

### EQUIPMENT MAINTENANCE

- Preventive and curative maintenance
- Three contracts available : First, Protect & Integral

### COMMISSIONING & TRAINING

- Machine's operation
- Mechanical maintenance
- Electrical maintenance

### SPARE PARTS

- 1<sup>st</sup> emergency kit
- Spare parts available within 48h
- More than 10,000 spares in stock

### 4.0 SERVICE PLATFORM

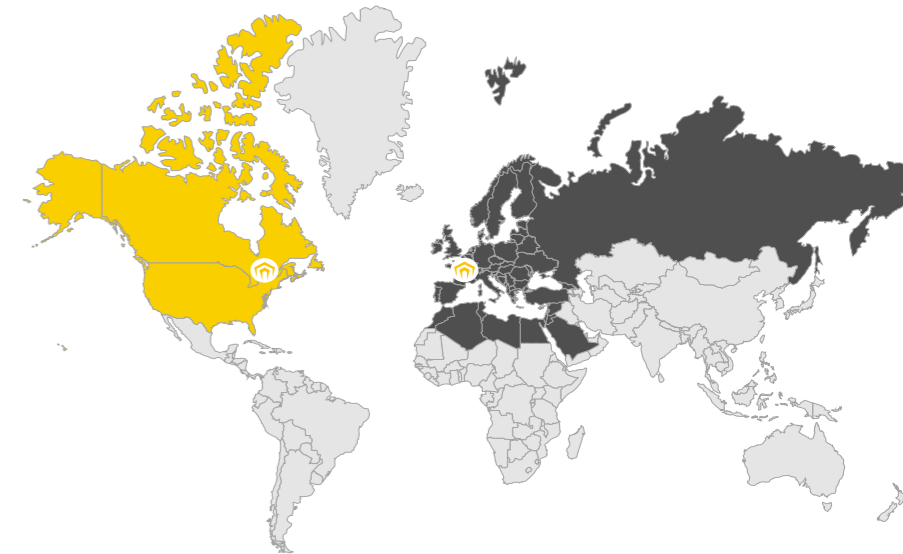
- Ticketing platform
- Access to machine documents
- Detailed analysis of machine's performance

## A FRENCH MANUFACTURER, A LOCAL CUSTOMER SERVICE

MG Tech strives to be close to its customers, which is why a dedicated team is available to assist you, including a hotline, a spare parts department, a team of field technicians distributed by geographic area, and automation engineers.

Our customer service team is available at all times via the toll-free hotline to answer customer questions:

+33 2 99 49 77 10  
 service.client@mgtech-group.com



## OUR CUSTOMER SERVICE AT A GLANCE

- 9 training modules delivered at your premises or on our site
- Our teams are committed to intervening under 24 hours\*
- 17 technicians at your service
- Hotline available from 06:00am to 10:00pm\* 5 days/7
- 3 maintenance contracts (FIRST, PROTECT, PERFORMANCE)
- A local customer service

\*by subscribing to one of our maintenance contracts



# KNOWLEDGE IS THE BASIS OF *success*

## Train your operators for an optimal use of your machines

MG Tech offers training modules adapted to your individual needs. Growing demands for performance, quality, and productivity also increase the need for expertise. Because only well-trained operators can get the most out of your end-of-line equipment, MG Tech is here to support you.

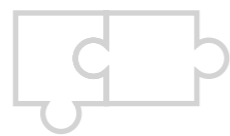
### WHY CHOOSE MG TECH?



Training provided by expert technicians



Training on your site or in MG Tech's premises



Theoretical and practical modules



Training programs adapted to customer needs

MG Tech offers 8 "catalog" training modules, but our teams are also able to create "à la carte" training courses based on your specific needs.

## AVAILABLE TRAININGS

<b>01</b> CASE FORMERS LINE OPERATOR .....p.8	<b>05</b> CASE PACKERS MAINTENANCE .....p.16
<b>02</b> CASE PACKERS LINE OPERATOR .....p.10	<b>06</b> PALLETIZERS MAINTENANCE .....p.18
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01


**TRAINING**

*Case formers  
Line Operator*

<p><b>DURATION</b></p> <p>8 HOURS (1 DAY) ON CUSTOMER SITE</p>	<p><b>PARTICIPANT PROFILE</b></p> <p>LINE OPERATORS (3 PEOPLE MAX)</p>	<p><b>PREREQUISITE</b></p> <p>NONE</p>
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**EDUCATIONAL OBJECTIVES**

- > Describe the general principles of cardboard forming
- > Manage production
- > Clean equipment
- > Know and understand safety, hygiene, and cleaning requirements



**TRAINING CONTENT**

**Case former overview**

- Overview of processed corrugated cardboard and cardboard families
- Overview of the external glue generator and peripherals (hoses, heating blocks, applicators) if present on the machine

**Safety**

- Machine operation in safe conditions
- Machine restart following an emergency stop, door opening, etc.

**Cleaning**

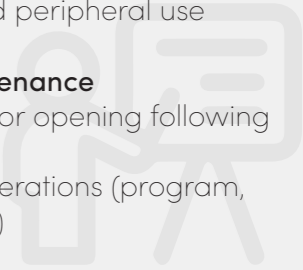
- Cleaning process

**Machine operation**

- Machine startup
- Machine operation and peripheral use

**1<sup>st</sup> level preventive maintenance**

- Cleaning after each door opening following an incident (jam, etc.)
- Format changeover operations (program, mechanical operations)




**TRAINING ORGANIZATION**

**Educational and technical means**

- Dedicated training room
- Training support documents
- Theoretical presentations
- Machine presentation and training
- Case studies
- In-class quiz (optional)
- Support documents provided following the training

**Training performance monitoring and evaluation systems**

- Attendance sheets
- Oral or written questions
- Simulation exercise
- Training certificate



# 02

## TRAINING

# Case packers Line Operator

### EDUCATIONAL OBJECTIVES

- > Describe the general principles of cardboard forming
- > Manage production
- > Clean equipment
- > Know and understand safety, hygiene, and cleaning requirements



### TRAINING CONTENT

#### Case packer overview

- Overview of processed corrugated cardboard and cardboard families
- Overview of the external glue generator and peripherals (hoses, heating blocks, applicators) if present on the machine

#### Safety

- Machine operation in safe conditions
- Machine restart following an emergency stop, door opening, etc.

#### Cleaning

- Cleaning process

#### Machine operation

- Machine startup
- Machine operation and peripheral use
- Format change operations (program, mechanical operations)

#### 1st level preventive maintenance



### TRAINING ORGANIZATION

#### Educational and technical means

- Dedicated training room
- Training support documents
- Theoretical presentations
- Machine presentation and training
- Case studies
- In-class quiz (optional)
- Support documents provided following the training

#### Training performance monitoring and evaluation systems

- Attendance sheets
- Oral or written questions
- Simulation exercise
- Training certificate



#### DURATION

8 HOURS (1 DAY)  
ON CUSTOMER SITE

#### PARTICIPANT PROFILE

LINE OPERATORS  
(3 PEOPLE MAX)

#### PREREQUISITE

NONE



# 03

## TRAINING

# Palletizers Line Operator



### EDUCATIONAL OBJECTIVES

- > Describe the general principles of palletizing
- > Manage production
- > Control format changeovers operations
- > Know and understand safety, hygiene, and cleaning requirements



### CONTENT TRAINING

#### Palletizer overview

- Overview of the different palletizing robots
- Overview of the robotic palletizing
- Overview and definition of a palletizing plan
- Overview of the different palletizer subassemblies

#### Safety

- Safe use of the palletizer in safe conditions
- Restarting after an emergency stop, opening a door, or crossing a light curtain
- Palletizer safety process

#### Line operation

- Palletizer startup
- Peripherals use and operations
- Format changeover operations

- End-of-production shutdown
- Emergency stops, safety devices, and faults
- Operating modes accessible to the line operator
- HMI features accessible to the line operator

#### 1<sup>st</sup> level preventive maintenance

- Cleaning Procedure
  - > General cleaning (suction cups, FRL)
  - > Specific cleaning involving food contact (cleaning conveyor belts, suction equipment, guides in contact with products or boxes)
- Procedure for each door opening or crossing of a light curtain after an incident (jam, etc.)

### DURATION

8 HOURS (1 DAY)  
ON CUSTOMER SITE

### PARTICIPANT PROFILE

LINE OPERATORS  
(3 PEOPLE MAX)

### PREREQUISITE

NONE

### TRAINING ORGANIZATION

#### Educational and technical means

- Dedicated training room
- Training support documents
- Theoretical presentations
- Palletizer presentation and training
- Case studies
- In-class quiz (optional)
- Support documents provided following the training

#### Training performance monitoring and evaluation systems

- Attendance sheets
- Oral or written questions
- Simulation exercise
- Training certificate





## TRAINING

# Case formers Maintenance

### EDUCATIONAL OBJECTIVES

- > Work in safe conditions
- > Control line operation and format changeovers
- > Handle regular maintenance on equipment
- > Control features of HMI maintenance mode



### TRAINING CONTENT

#### Case former overview

- Overview of processed corrugated cardboard and cardboard families
- Overview of the external glue generator and peripherals (hoses, heating blocks, applicators) if present on the machine

#### Machine operation

- Global operation
- Format change operations (program, mechanical operations)

#### Safety

- Machine operation in safe conditions
- Machine restart following an emergency stop, door opening, etc.

#### Preventive maintenance

- Purging the air circuit
- Checking the condition of the suction cups
- Checking the condition of the glue lines
- Cleaning the gluing nozzles
- Dismantling and cleaning the traps on the glue applicator
- Greasing the machine components (guide units, robot rods, Delta(s), Gantry movement) according to the components present on the machine
- Checking the tightness of moving parts
- Mechanical adjustments on the machine (chain tension)
- Reading the electrical diagrams and the pneumatic board
- Status of the LEDs on the cards/CPU/PLC (dynamic visualization analysis)

### DURATION

8 HOURS (1 DAY)  
ON CUSTOMER SITE

### PARTICIPANT PROFILE

MAINTENANCE  
TECHNICIANS  
(3 PEOPLE MAX)

### PREREQUISITE

HAVE AT LEAST 6 MONTHS  
OF EXPERIENCE IN A  
MAINTENANCE POSITION

HAVE AN ELECTRICAL  
QUALIFICATION  
AT LEVELS B1V, BV2, BR, AND BC

### TRAINING ORGANIZATION

#### Educational and technical means

- Dedicated training room
- Training support documents
- Theoretical presentations
- Palletizer presentation and training
- Case studies
- In-class quiz (optional)
- Support documents provided following the training

#### Training performance monitoring and evaluation systems

- Attendance sheets
- Oral or written questions
- Simulation exercise
- Training certificate



# 05



## TRAINING

# Case packers Maintenance

### DURATION

8 HOURS (1 DAY)  
ON CUSTOMER SITE

### PARTICIPANT PROFILE

MAINTENANCE  
TECHNICIANS  
(3 PEOPLE MAX)

### PREREQUISITE

HAVE AT LEAST 6 MONTHS  
OF EXPERIENCE IN A  
MAINTENANCE POSITION

## EDUCATIONAL OBJECTIVES

- > Work in safe conditions
- > Control line operation and format changeovers
- > Handle regular maintenance on equipment
- > Control features of HMI maintenance mode



## TRAINING CONTENT

### Case packer overview

- Overview of processed corrugated cardboard and cardboard families
- Overview of the external glue generator

### Machine operation

- Global operation
- Format change operations (program, mechanical operations)

### Safety

- Machine operation in safe conditions
- Machine restart following an emergency stop, door opening, etc.
- Securing the machine

### Preventive maintenance

- Purging the air circuit
- Checking the condition of the suction cups
- Checking the condition of the glue lines
- Cleaning the gluing nozzles
- Dismantling and cleaning the traps on the glue applicator
- Greasing the machine components (guide units, robot rods, Delta(s), Gantry movement) according to the components present on the machine
- Checking the tightness of moving parts
- Mechanical adjustments on the machine (chain tension)
- Reading the electrical diagrams and the pneumatic board
- Status of the LEDs on the cards/CPU/PLC (dynamic visualization analysis)

## TRAINING ORGANIZATION

### Educational and technical means

- Dedicated training room
- Training support documents
- Theoretical presentations
- Machine presentation and training
- Case studies
- In-class quiz (optional)
- Support documents provided following the training

### Training performance monitoring and evaluation systems

- Attendance sheets
- Oral or written questions
- Simulation exercise
- Training certificate



# 06

## TRAINING Palletizers Maintenance

### EDUCATIONAL OBJECTIVES

- > Work in safe conditions
- > Control line operation and format changeovers
- > Handle regular maintenance on equipment
- > Control features of HMI maintenance mode



### TRAINING CONTENT

#### Palletizer overview

- Overview of the different palletizing robots
- Overview of robotic palletizing

#### Machine operation

- Global operation
- Format change operations (program in relation with the upstream machine)

#### Safety

- Safe operation of the palletizer
- Restarting the palletizer after an emergency stop, door opening, or crossing a light curtain
- Securing the palletizer

#### Preventive maintenance

- Cleaning procedure
  - > General cleaning (cleaning of suction cups, cleaning of the FRL)

> Specific cleaning procedures for food contact areas (cleaning conveyor belts or mats, cleaning suction equipment, cleaning guides in contact with products or cartons)

- Air circuit purging
- Tightening checks of moving parts
- Lubrication procedure
  - > Ball guides
  - > Chains
  - > Cam tracks
- Lubrication and cleaning procedures
- Various maintenance points and their frequency
- Miscellaneous checks
- Actions to be planned
- Defining operating modes
- Troubleshooting
- Performing zeroing checks



### TRAINING ORGANIZATION

#### Educational and technical means

- Dedicated training room
- Training support documents
- Theoretical presentations
- Palletizer presentation and training
- Case studies
- In-class quiz (optional)
- Support documents provided following the training

#### Training performance monitoring and evaluation systems

- Attendance sheets
- Oral or written questions
- Simulation exercise
- Training certificate



<h4>DURATION</h4> <p>8 HOURS (1 DAY) ON CUSTOMER SITE</p>	<h4>PARTICIPANT PROFILE</h4> <p>MAINTENANCE TECHNICIANS (3 PEOPLE MAX)</p>	<h4>PREREQUISITE</h4> <p>HAVE AT LEAST 6 MONTHS OF EXPERIENCE IN A MAINTENANCE POSITION</p> <p>HAVE AN ELECTRICAL QUALIFICATION AT LEVELS B1V, BV2, BR, AND BC</p>
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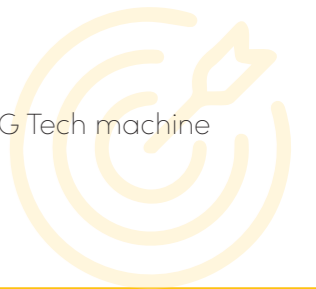


## TRAINING

# Automation basics

### EDUCATIONAL OBJECTIVES

- > Be able, with basic knowledge, to use Schneider software and analyze an MG Tech machine
- > Know how to use Schneider software in an MG Tech machine environment
- > Be able to perform machine diagnostics



### TRAINING CONTENT

#### Definition of Schneider axis controllers

- Motion Controllers
- Complete range of LMC
- Servo Drives
- Motor Range

#### Program structure

- Presentation of our program structures
- PacDrive3 template

#### Connection

- Explanation of the connection procedure

#### Schneider software overview

- Logic Builder programming
- Essential software to know
- Controller assistant
- Diagnosis

#### Motor structure

- Configurations
- Parameters to know

#### Important information after project modification

- Requirements before modifying the program
- Data savings



### TRAINING ORGANIZATION

#### Educational and technical means

- Dedicated training room
- Training support documents
- Theoretical presentations
- Machine presentation and training
- Case studies
- In-class quiz (optional)
- Support documents provided following the training

#### Training performance monitoring and evaluation systems

- Attendance sheets
- Oral or written questions
- Simulation exercise
- Training certificate



#### DURATION

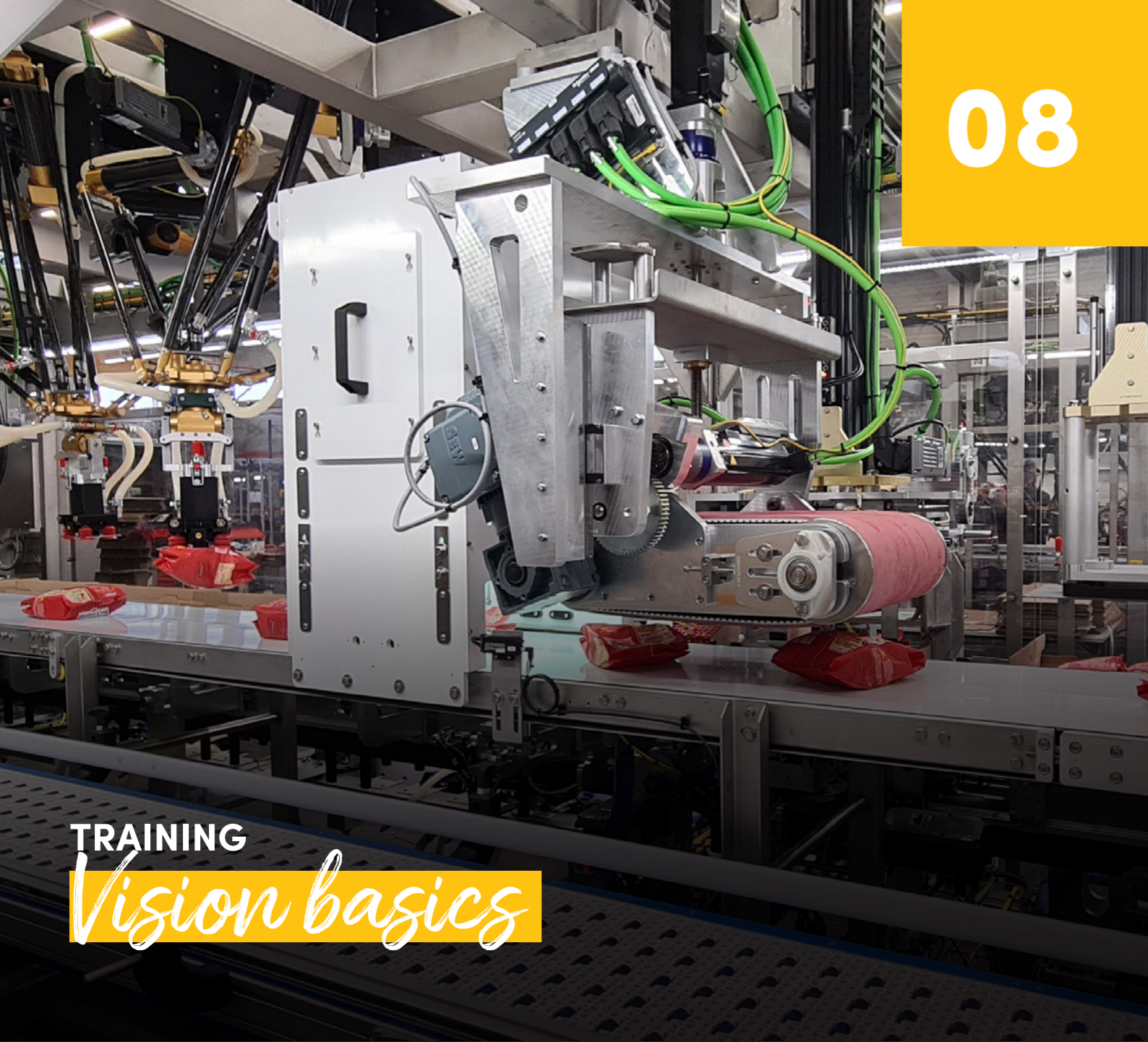
12 HOURS (1.5 DAYS)  
ON CUSTOMER SITE

#### PARTICIPANT PROFILE

MAINTENANCE  
TECHNICIANS  
(3 PEOPLE MAX)

#### PREREQUISITE

HAVE THE  
SOMACHINE  
SOFTWARE



# 08

## EDUCATIONAL OBJECTIVES

- > Know how to operate the vision interface in your MG Tech machine environment, depending on the software (Keyence, Omron, etc.)
  - > Be able to use the software with basic knowledge
  - > Be able to perform machine diagnosis



## TRAINING CONTENT

### Definition of a vision system

- What is a camera?
- What is the purpose of the housing?

### Vision program structure

- Presentation of our program structure

### Connection

- Explanation of the connection process

### Overview of the vision software used on your machine

- Overview of vision tools
- Possible adjustments of vision parameters
- Creation of new programs
- Diagnosis of a vision problem

### Important information after project modification

- Requirements before modifying the program
- Data savings



## TRAINING ORGANIZATION

### Educational and technical means

- Dedicated training room
- Training support documents
- Theoretical presentations
- Machine presentation and training
- Case studies
- In-class quiz (optional)
- Support documents provided following the training

### Training performance monitoring and evaluation systems

- Attendance sheets
- Oral or written questions
- Simulation exercise
- Training certificate




 <p><b>DURATION</b></p> <p>8 HOURS (1 DAY) ON CUSTOMER SITE</p>	<p><b>PARTICIPANT PROFILE</b></p> <p>MAINTENANCE TECHNICIANS (3 PEOPLE MAX)</p>	<p><b>PREREQUISITE</b></p> <p>NONE</p> 
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# MG TECH

Would you like to register for one of our training courses?  
Do you need training on a specific module?  
Contact our customer service department:

 + 33 (0) 2 99 49 77 10

 [service.client@mgtech-group.com](mailto:service.client@mgtech-group.com)

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