

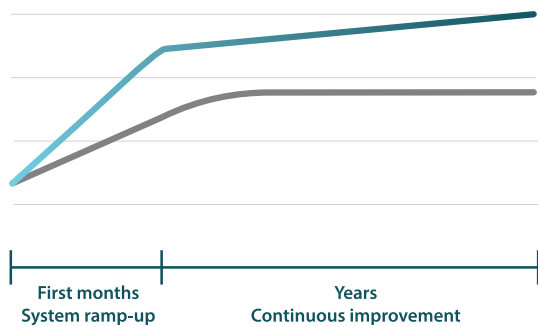
Fastems Automation Training

# Basics of Autoloading

Training introduces automated loading with Fastems Autoloading Cell. After the training you are able to start production with your robot cell and recover from most common errors in the system. This is only for customers with Fastems ALD cell.

## Learn to use your system efficiently with Fastems training services

■ With training ■ Self-learning



- Capability to use Autoloading Cell efficiently
- Faster ramp-up of production
- Improved system's productivity
- Faster error recovery
- Prevent system damages



Fastems Automation Trainings

## Get the most out of your system

# +58

Net Promoter Score  
(above 50 = excellent customer satisfaction)

# 4,000+

Trainings

# 9

languages



### FOR WHOM

Production employees, production planners and similar



### WHEN

After system delivery



### DURATION

3 days

*Additional training days available for purchase*



### MAX PARTICIPANTS

3



### PREREQUISITE

Basic robot training

## AGENDA

- Introduction to the system
- Safe use of the autoloading cell with FMS
- Operating Autoloading Cell with MMS
- Material management and material delivery
- Troubleshooting and error recovery
- Practical training with the system

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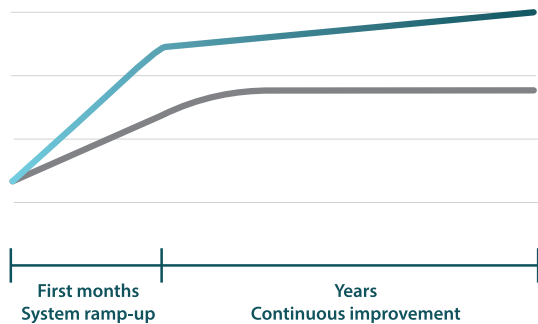
Fastems Automation Training

# Basics of Pallet Automation

Kick-start your FMS production with this practical training designed to help you achieve a fast production ramp-up while learning the system's key features. The training is intended for customers using FPx, MLS, and RobotFMS systems. It is especially suitable for customers starting up production or for those who want to refresh their employees' and operators' FMS knowledge.

## Learn to use your system efficiently with Fastems training services

■ With training   ■ Self-learning



- Faster production ramp-up
- Improved productivity and machine tool utilization
- Higher availability level
- Work safety training and engagement
- Learn and develop efficient ways of working with FMS, hands on
- Steep learning curve increases job satisfaction and motivation to use the system efficiently



Fastems Automation Trainings

## Get the most out of your system

**+58**

Net Promoter Score  
(above 50 = excellent customer satisfaction)

**9**

languages

**4,000+**  
Trainings



### FOR WHOM

Production employees, production planners and similar



### WHEN

After system installation



### DURATION

1+3 days

*Additional training days available for purchase*



### MAX PARTICIPANTS

6



### PREREQUISITE

None

## AGENDA

### REMOTE PRE-TRAINING (1 DAY)

- Discussion of your needs and requirements
- Introduction to Fastems FMS and your MMS version
- Preparations for on-site training

### ON-SITE TRAINING (3 DAYS):

- Safety
- Starting production with Fastems FMS
- NC program and tool management
- Troubleshooting and error recovery
- Adjusting the system for your processes
- Hands-on training with the system

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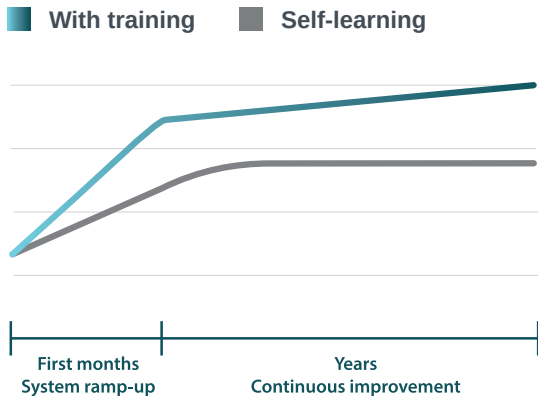
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Fastems Automation Training

# Basics of Part Automation

This training introduces the basic operation principles of Fastems robot system and Manufacturing Management Software (MMS). After the training you are able to start production with your robot system using pre-programmed robot programs.

## Learn to use your system efficiently with Fastems training services



- Faster production ramp-up
- Improved productivity and machine tool utilization
- Higher availability level
- Work safety training and engagement
- Learn and develop efficient ways of working with FMS, hands on
- Steep learning curve increases job satisfaction and motivation to use the system efficiently



Fastems Automation Trainings  
**Get the most out of your system**

**+58**

Net Promoter Score  
 (above 50 = excellent customer satisfaction)

**4,000+**  
 Trainings

**9**

languages



### FOR WHOM

Production employees, production planners and similar



### WHEN

After system delivery



### DURATION

1+3 days

*Additional training days available for purchase*



### MAX PARTICIPANTS

6



### PREREQUISITE

Basic robot training

## AGENDA

### REMOTE PRE-TRAINING (1 DAY)

- Discussion of your needs and requirements
- Introduction to Fastems FMS and your MMS version
- Preparations for on-site training

### ON-SITE TRAINING (3 DAYS):

- Safe use of the systems
- Starting production with Fastems FMS
- NC program and tool management
- Troubleshooting and error recovery
- Adjusting the system for your processes
- Hands-on training with the system

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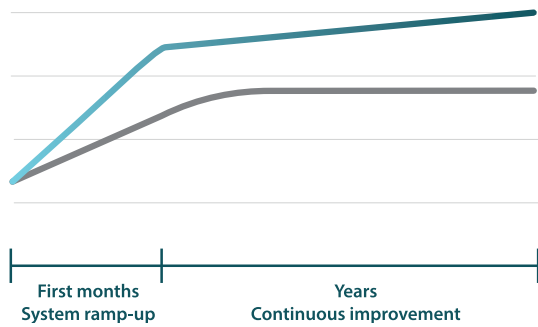
Fastems Automation Training

# Basics of Work Cell Operations

This training introduces the basic operation principles of Fastems Manufacturing Management Software (MMS) and work cell production with it. After the training you are able to start work cell production and utilize the most important features of MMS. Best for customers who are starting up their production and/or those who need a refreshed training about FMS for their employees and operators.

## Learn to use your system efficiently with Fastems training services

■ With training ■ Self-learning



- Faster production ramp-up
- Improved productivity and machine tool utilization
- Higher availability level
- Work safety training and engagement
- Learn and develop efficient ways of working with FMS, hands on
- Steep learning curve increases job satisfaction and motivation to use the system efficiently



Fastems Automation Trainings

## Get the most out of your system

**+58**

Net Promoter Score  
(above 50 = excellent customer satisfaction)

**9**

languages

**4,000+**  
Trainings



### FOR WHOM

Production employees, production planners and similar



### WHEN

After system delivery



### DURATION

1+3 days

*Additional training days available for purchase*



### MAX PARTICIPANTS

6



### PREREQUISITE

None

## AGENDA

### REMOTE PRE-TRAINING (1 DAY):

- Discussion of your needs and requirements
- Introduction to Fastems Work Cell Operation system and your MMS version
- Preparations for on-site training

### ON-SITE TRAINING (3 DAYS):

- Setting up WCO environment
- Starting production with Fastems MMS
- Device basic operations and scheduling
- Hands on training with the system

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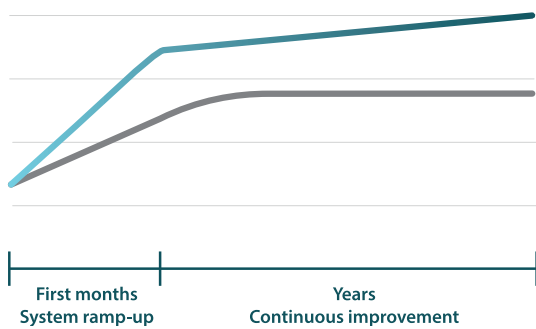
Fastems Automation Training

# Pallet Automation Professional

Training refreshes and deepens knowledge about Fastems automation system and Manufacturing Management Software (MMS). Training focuses on the areas where improvement is needed – needs and goals will be discussed together with you prior to the training. After the training you are able to utilize more advanced MMS features and use system more effectively.

## Learn to use your system efficiently with Fastems training services

■ With training ■ Self-learning



- Utilize the full potential of the system with more advanced MMS features
- Take your system's productivity and machine utilizations rates to the next level
- Higher employee engagement
- Training modified specifically to answer your needs



Fastems Automation Trainings

Get the most out of your system

+58

Net Promoter Score  
(above 50 = excellent customer satisfaction)

9

languages

4,000+ Trainings



### FOR WHOM

Production employees with some previous experience on Fastems systems



### WHEN

1-2 months after basic training or as a refresher training



### DURATION

3 days

*Additional training days available for purchase*



### MAX PARTICIPANTS

6



### PREREQUISITE

Basics of Pallet Automation

## AGENDA

**SYSTEM SPECIFIC PARTS OF THE AGENDA WILL BE AGREED TOGETHER WITH YOU PRIOR TO THE TRAINING.**

- Recap and deepening of basics
- Pallet management
- Master data management
- Production management
- System settings
- MMS reporting

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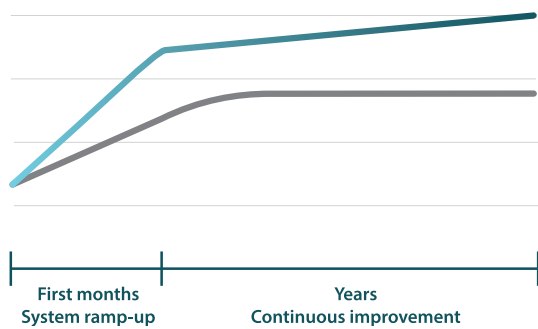
Fastems Automation Training

# Part Automation Professional

Training refreshes and deepens knowledge about Fastems part automation system and Manufacturing Management Software (MMS). Training focuses on the areas where improvement is needed – needs and goals will be discussed together with you prior to the training. After the training you are able to utilize more advanced MMS features and use system more effectively.

## Learn to use your system efficiently with Fastems training services

■ With training ■ Self-learning



- Utilize the full potential of the system with more advanced MMS features
- Take your system's productivity and machine utilization rates to the next level
- Higher employee engagement
- Training modified specifically to answer your needs



Fastems Automation Trainings  
**Get the most out of your system**

**+58**

Net Promoter Score  
 (above 50 = excellent customer satisfaction)

**4,000+**  
 Trainings

**9**

languages



### FOR WHOM

Production employees, production planners and similar



### WHEN

1-2 months after basic training or as a refresher training



### DURATION

3 days

*Additional training days available for purchase*



### MAX PARTICIPANTS

6



### PREREQUISITE

Basics of Part Automation

## AGENDA

**SYSTEM SPECIFIC PARTS OF THE AGENDA WILL BE AGREED TOGETHER WITH YOU PRIOR TO THE TRAINING.**

- Recap and deepening of basics
- Part master data
- Production orders and batches
- System settings
- Scheduling and automatic operation mode

**Contact us**

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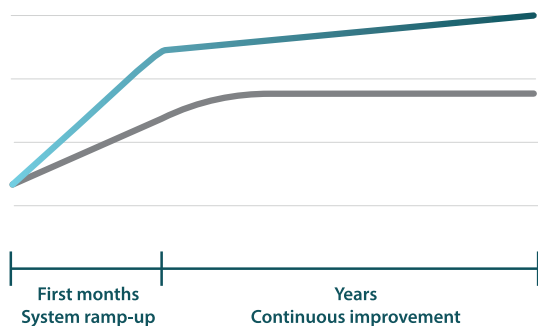
Fastems Automation Training

# Work Cell Operations Professional

Training refreshes and deepens knowledge about Fastems work cell production with Manufacturing Management Software (MMS). Training focuses on the areas where improvement is needed – needs and goals will be discussed together with you prior to the training. After the training you are able to utilize more advanced MMS features and use system more effectively.

## Learn to use your system efficiently with Fastems training services

■ With training ■ Self-learning



- Utilize the full potential of the system with more advanced MMS features
- Take your system's productivity and machine utilizations rates to the next level
- Higher employee engagement
- Training modified specifically to answer your needs



Fastems Automation Trainings

## Get the most out of your system

**+58**

Net Promoter Score  
(above 50 = excellent customer satisfaction)

**4,000+**  
Trainings

**9**

languages



### FOR WHOM

Production employees, production planners and similar



### WHEN

After system delivery



### DURATION

3 days

*Additional training days available for purchase*



### MAX PARTICIPANTS

6



### PREREQUISITE

Basics of Work Cell Operations

## AGENDA

**SYSTEM SPECIFIC PARTS OF THE AGENDA WILL BE AGREED TOGETHER WITH YOU PRIOR TO THE TRAINING.**

- Recap and deepening of the basics of WCO
- Scheduling and automatic operation mode
- Part master data in WCO
- Production orders
- Running production with MMS
- System settings
- Material management

Contact us

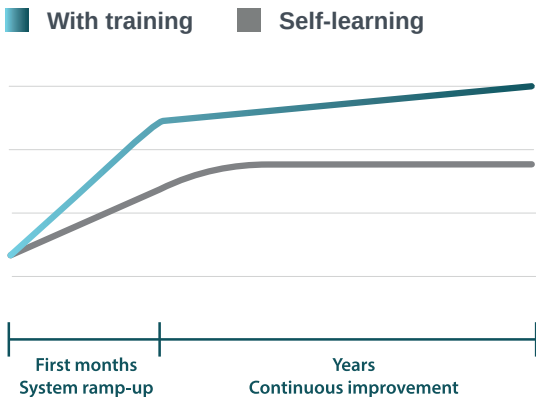
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Fastems Automation Training

# Basics of System Maintenance

Training introduces the basic maintenance tasks that are needed to maintain high availability for the automation system. After the training your maintenance personnel can perform basic level mechanical and electrical periodic checks and maintenance for the system.

## Learn to use your system efficiently with Fastems training services



- Achieve and maintain higher level of availability
- Ability to recover from basic level errors independently
- Longer lifetime for the system with right maintenance procedures



Fastems Automation Trainings  
**Get the most out of your system**

**+58**  
 Net Promoter Score  
 (above 50 = excellent customer satisfaction)

**4,000+**  
 Trainings

**9**  
 languages



**FOR WHOM**

Production employees, production planners and similar



**WHEN**

After system delivery



**DURATION**

1 day

*Additional training days available for purchase*



**MAX PARTICIPANTS**

4



**PREREQUISITE**

None

**AGENDA**

- Introduction to the system and its maintenance
- Safe use of the systems
- Basic operation of the system
- System Maintenance Manual
- Crane Manual modes
- Crane reference points
- IT maintenance
- Troubleshooting

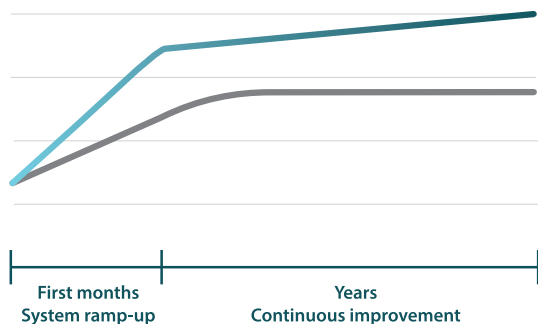
Fastems Automation Training

# Production Support

Production support is on-site support to provide assistance during system start-up and support in special situations. Service ensures smooth production ramp-up. It focuses on helping you to operate the system and to solve related problems.

## Learn to use your system efficiently with Fastems training services

■ With training ■ Self-learning



- Faster and smoother ramp-up
- Faster problem solving through on-site support
- Support after system start up improves personnel work satisfaction and trust to the new system
- Better utilization of your existing systems



Fastems Automation Trainings  
**Get the most out of your system**

**+58**

Net Promoter Score  
(above 50 = excellent customer satisfaction)

**4,000+**  
Trainings

**9**

languages



### FOR WHOM

Production employees, production planners and similar



### WHEN

After system training



### DURATION

5 days

*Additional training days available for purchase*



### MAX PARTICIPANTS

6



### PREREQUISITE

Any Fastems training

## AGENDA

- Content specified case-by-case according to customer needs

**Contact us**

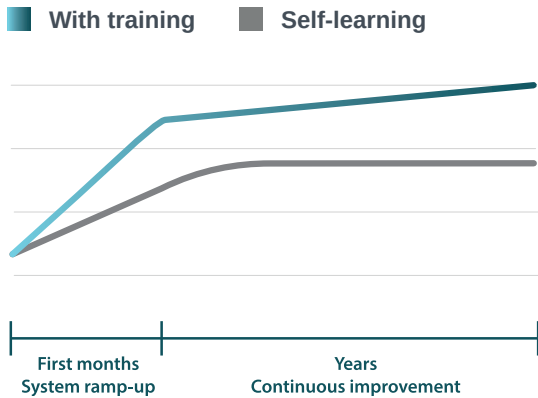
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Fastems Automation Training

# Basics of Tool Automation

The training introduces the Fastems' tool automation system and its basic operation. After the training you will be able to start production with the tool automation faster, improve system productivity, and recover quickly from common errors.

## Learn to use your system efficiently with Fastems training services



- Capability to use CTS/GTS efficiently
- Faster ramp-up of production
- Improved system productivity
- Faster error recovery
- Prevent system damages



Fastems Automation Trainings  
**Get the most out of your system**

**+58**  
 Net Promoter Score  
 (above 50 = excellent customer satisfaction)

**4,000+**  
 Trainings

**9**  
 languages



### FOR WHOM

production employees working with systems with Centralized Tool Storage (CTS) or Gantry Tool Storage (GTS)



### WHEN

After system delivery



### DURATION

3 days

*Additional training days available for purchase*



### MAX PARTICIPANTS

6



### PREREQUISITE

Basic robot training

## AGENDA

- Introduction to CTS/GTS
- Safe use of the systems
- NC programs in CTS/GTS
- Tool master data and tool instances
- Tools presetting procedure and workflow
- Robot manual and MDI tasks
- System and tooling settings
- Troubleshooting and error recovery

**Contact us**

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