

MT2168 LSPK AH Machine Training

Pick and Place Handler



Course Description

This training material introduces the student to the MT2168 AH test handler. The training is offered in three levels from the perspective of an Operator, a Maintenance Technician and an Advanced Technician:

- Level 1 Basic: Focused on basic operational procedures: loading/unloading parts, troubleshooting, and general equipment safety
- Level 2 Intermediate: Maintenance focused course intended to get the student familiar with the product. Operational requirements, setup and alignment, device workflows, and mechanical/electrical diagnosis
- Level 3 Advanced: Maintenance focused course intended to get the student familiar with the product. Complex mechanical/electrical diagnosis, motor tuning, setup and alignment

Course Outline

- Introduction and Course Orientation
- Software
- Machine Platform

- Machine Input and Output
- Machine Modules
- Adjustments
- Q&A, Test, Wrap Up

Course Length

- Level 1: Basic two days (sixteen hours)
- Level 2: Intermediate five days (forty hours)
- Level 3: Advanced five days (forty hours)

Prerequisites

- Level 2: Level 1 training and a minimum of thirty days experience with the MT2168 AH
- Level 3: Level 2 training and a minimum of six months experience with the MT2168 AH test handler

Recommended

English - written and spoken





Mobility



IoT/IoV & Optoelectronics



Computing & Network



Industrial & Medical



Consumer

- Full tri-temp range -50C° to +155°C
- Temperature accuracy ± 1°C
- Up to 15,000 UPH

- Up to 32 contact sites
- High soak capacity
- Modular and scalable base unit engineering to HVM



MT2168 LSPK AH Machine Training

Level 1: Basic

Day 1

- 1 Course Orientation Introduction
- 2 Safety Regulations and Overview

3 - Basics/Handler Modules

- Machine Structure
- Available Machine Configurations
- Scalability
- Operation and Display Elements
- Signal Tower
- Location of Supply Connections and Interfaces

4 - Device Flow

- Device Flow throught the Modules
- Tray Flow at the Unloader
- Definition of Movements and Numbering Conventions
- Pin 1 Orientation

5 - HMI

- HMI Design, Operating Elements, Run Screen
- Navigation Wizard
- Main Menu Items and Menu Structure

6 - Handler Operation

- Power On/Off
- Load/Unload

7 - HMI Operation

- Sorting Operation and Temperature Operation
- Check Recipe, Bin Mapping, Yield
- Load Recipe

Day 2

8 - Customer Specific Operation

- Lot Tracking
- Soft-Plunge Function
- Hardware Options (DDD, Plunger Pressure Booster, ATC)

9 - Troubleshooting

10 - Q&A

Q&A, Test, Wrap Up

Level 2: Intermediate

Day 1

- 1 Course Orientation Introduction
- 2 Safety Regulations and Overview

3 - Device Flow and Machine Operation

- Tray and Device Flow through the Modules
- Definition of Movements and Numbering Conventions
- Pin 1 Orientation
- Load and Unload Trays

4 - HMI and Application

- HMI Design, Operating Elements, Run Screen
- Menu Structure
- Sorting Operation and Temperature Operation
- Practice Operating the Handler
- Software Update (new patch for Controller PC)

Day 2

5 - Electrical Hardware

- Theory of Operations
- Module Details Base Unit Unloader and Sort Shuttle

6 - Temperature Calibration

- Introduction on Temperature Calibration
- Static Temperature Calibration of BUH

Day 3

7 - Conversion and Teaching

- Conversion Kit/Site Pitch Kit
- Pick and Place Teaching

Day 4

8 - UPG's, Teaching and Alignment

- UPG/Options/Tools
- Teaching/Basic Alignments

Day 5

9 - Troubleshooting

10 - Preventive Maintenance

11 - Q&A

Q&A, Test, Wrap Up

- Full tri-temp range -5oC° to +155°C
- Temperature accuracy ± 1°C
- Up to 15,000 UPH

- Up to 32 contact sites
- High soak capacity
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Level 3: Advanced

Day 1

1 - Introduction Basics/Handler Modules

- Course Orientation
- Machine Structure
- Module Names and Locations

2 - Safety

- Different Operating Conditions
- Door Request and Emergency Off Switch
- Potential Dangerous Areas

3 - Basic Alignments/Software

- Loader
- Unloader

4 - Basic Alignments/Mechanics

• Pick and Place Head

Day 2

5 - Alignment Alignments/Mechanics

- Dual Shuttle
- Indy, Race Car, Docking Station

6 - Module Exchange

- Manual Tray Unloader
- Automatic Tray Unloader

Day 3

7 - Module Exchange

- Race Car
- 8 Software
- Recovery
- Configuration
- Exchange Controller PC

Day 4

9 - Installation/Exchange of Motor/Drive

- Firmware Installation, Parameter Setting
- Software Tools

10 - Troubleshooting

- CAN-Net
- Vacuum

Day 5

- 11 Troubleshooting
- 12 Finish Open Tasks

13-Q&A

Q&A, Test, Wrap Up

Who Should Attend

- Level 1: Operator
- Level 2: Maintenance Technician
- Level 3: Advanced Technician

Training Locations

- Level 1 Basic: on-site customer class
- Level 2 Intermediate: on-site customer class or Cohu training facility
- Level 3 Advanced: on-site customer class or Cohu training facility

Customized classes and on-site customer classes are available to suit your training needs.

More Information/Registration

Contact <u>training@cohu.com</u>

Training Course Catalog

 Visit our handler training catalog to view our other training offerings <u>www.cohu.com/handler-training</u>