

PANTHER Power Machine Training

All-in-One Test and Inspection System for small packaged ICs



Course Description

This training material introduces the student to the PANTHER 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 Process Overview
- Software
- Machine Platform
- Machine Input and Output
- Machine Modules
- Vision and Laser
- Q&A, Test, Wrap Up

Course Length

- Level 1: Basic - one day (eight hours)
- Level 2: Intermediate - six days (forty eight hours)
- Level 3: Advanced - seven days (fifty six hours)

Prerequisites

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

Recommended

- English - written and spoken



Automotive



Mobility



IoT/IoV & Optoelectronics



Computing & Network



Industrial & Medical



Consumer

- Tri-temp chamberless system
- 6 sides vision inspection (optional)
- Device alignment with vision (closed loop)
- Forceless device handling due to AccuChuck

PANTHER Power Machine Training

Level 1: Basic

Day 1

1 - Introduction and Process Overview

- Machine General Overview
- Device Flow and Process

2 - MMI/OPI

- Menu Navigation
- Production
- LOT Management
- Alarms
- Binning

3 - I/O Module Input and Output

- De-Tape
- Wafer/Waffle
- Wafer/Waffle Recovery
- Taping (AFTR)
- Tape Recovery
- Waffle Pack Out

4 - Process Module

- FlipChip
- XYT Recentering
- Shuttle
- Vision

5 - Test Module

- AccuChuck
- Contacting
- TM Clearing

6 - Q&A

- Q&A, Test, Wrap Up



- Tri-temp chamberless system
- 6 sides vision inspection (optional)

- Device alignment with vision (closed loop)
- Forceless device handling due to AccuChuck

PANTHER Power Machine Training

Level 2: Intermediate

Day 1

1 - Introduction and Process Overview

- Machine General Overview
- Device Flow and Process

2 - NTI and OPI Software

- Software Structure
- Menu Navigation
- Sub Menu Navigation
- Debug Tools
- OPI Menus
- TM CS Inspection

Day 2

3 - I/O Platform

- Turret Overview
- Mechanical Ref
- Turret Setup

Day 3 - 4

4 - Test Module Platform

- Docking
- AccuChuck
- Rotary
- Contactor
- Manual Controls
- Temperature Calibration

5 - Input Modules

- Bowl Feeder
- De-tape

6 - Process Modules

- Flip Chip
- XYT Recentering
- Shuttle
- Re-centering Rotary

Day 5 - 6

7 - Test Module

- Recipe Setup
- Recovery
- Vision Verification
- Empty Check Sensor Verification
- Maintenance
- Temperature
- CS Inspection

8 - Output Modules

- Tape (AFTR) Module

9 - Vision

- Vision Overview
- Vision Calibration
- Vision Setup

10- Q&A

- Q&A, Test, Wrap Up

- Tri-temp chamberless system
- 6 sides vision inspection (optional)

- Device alignment with vision (closed loop)
- Forceless device handling due to AccuChuck

PANTHER Power Machine Training

Level 3: Advanced

Day 1 - 7

1 - Introduction and Process Overview

- Machine General Overview
- Device Flow and Process

2 - NTI and OPI Software

- Software Structure
- I/O Soft Tools
- OPI Menu
- TM CS Inspection

3 - I/O Platform

- Turret
- Etel Motor Controller
- Preventive Maintenance
- Mechanical Ref

4 - Input Modules

- Bowl Feeder
- De-tape

5 - Process Modules

- Flip Chip
- XYT Recentering
- Shuttle

6 - Test Module

- Device Setup
- Plunger
- Temperature
- Maintenance
- Vision Verification
- CS Inspection

7 - Output Modules

- Tape (AFTR) Module
- Waffle Pack
- Film Frame

9 - Vision

- Calibration
- Module
- Hardware
- Inspection Setup

10 - Laser

- Hardware
- Recipe

11- 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 training@cohu.com

Training Course Catalog

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