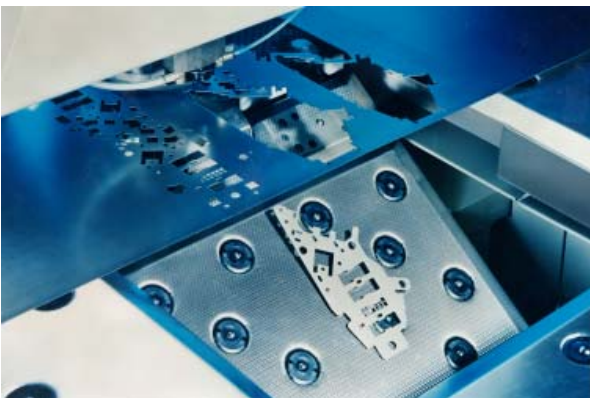


TruPunch 2020 Maintenance



COURSE DESCRIPTION

The TruPunch 2020 Maintenance course provides students with the knowledge and skills enabling them to maintain their machine to its fullest potential. Through lecture, group discussion, theory, and hands-on practice, students will gain an extensive understanding of all aspects of the internal workings of the punch machine. Upon completion of this course, students will be able to resolve problems in a timely manner and perform proper preventive maintenance procedures to ensure peak performance of their machine.

PREREQUISITES

Basic math skills, basic understanding of hydraulic and pneumatic theory, and schematic reading. The ability to use precision gauges (dial indicator and caliper) is a plus.

COURSE DURATION

5 days

OBJECTIVES

- Demonstrate safe work practices to ensure machine is safe for maintenance and service repair work.
- Identify basic machine layout and components.
- Successfully activate the SMC.
- Successfully adjust the gripper table mechanical stops.
- Successfully set gripper jaw and sensor.
- Accurately set double sheet detector arm gap.
- Check double sheet detector voltage.
- Inspect vacuum cups and suction cups sensors.
- Accurately set suction cup sensors.
- Accurately set suction frame hangers.
- Accurately adjust lift table bearings.
- Successfully install the gripper table and set the proxy switch.
- Perform maintenance on the vacuum generator and test vacuum cups.
- Adjust gripper table movement.
- Adjust double sheet detector speed.
- Program the ASI-bus module.
- Inspect fluid leaks.
- Read pneumatic and hydraulic schematics.



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COURSE OUTLINE

- Discuss components and perform basic operation
 - Nomenclature
 - Parts
 - Focus Menu Keys
- How to Activate the SMC
- Perform basic maintenance tasks
 - Subassembly Section
 - Adjust Gripper Table Mechanical Stops
 - Set Gripper Jaw and Sensors
 - Set Double Sheet Detector Arm Gap
 - Check Double Sheet Detector Voltage
 - Inspect Vacuum Cups
 - Set Suction Cup Sensors
 - Set Suction Frame Hangers
 - Final Assembly Section
 - Lift Table Bearings
 - Adjust Table Mechanical Stops
 - Set Gripper Table Installation
 - Pneumatic and Vacuum Section
 - Adjust Vacuum Generator
 - Conduct Vacuum Cup Testing
 - Adjust Gripper Table Movement
 - Adjust Gripper Movement
 - Adjust Double Sheet Detector Speed
 - Electrical Section
 - Program the ASI Module
 - Locate different ASI Modules
 - Install ASI Cables
 - Sensor Adjustment Settings
 - Inspect Fluid Leaks
- Read pneumatic and hydraulic diagrams