



TruPunch 5000 Maintenance



COURSE DESCRIPTION

The TruPunch 5000 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
- Replace the stripper receiving ring and set stripper adapter at tool change position
- Check the ram working positions and change the ram reference point parameters
- Perform maintenance on worksheet and moveable clamps
- Replace the linear amplifier and normalize cycle for the linear amplifier
- Set the stripper sensor on the TruPunch 5000
- Perform maintenance on the die base from die base
- Check the LEDs on the linear amplifier and set the mean position of the linear amplifier
- Set up a murr linker, ASI, ProfiBus gateway
- Perform Macoda backup procedures
- Diagnose and troubleshoot most common machine problems.

TRUMPF



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COURSE OUTLINE

- Introduction to punch safety and safe work practices
- Overview of punch machine controls and components
- Perform maintenance on the hydraulic punch head:
 - Identifying and disassembling major components
 - Identifying various positions of movement
 - Ram and ram cap
 - Punch clamp, piston, and wedge
 - Adjusting the ram reference/change position
 - Linear amplifier
 - Hydraulic control
 - C-axis rotation
 - Rotary drive
 - Setting the bearing pre-load
 - Worm gear
 - Checking and setting the worm gear centerline
 - Checking and adjusting backlash
 - Setting the zero point on the upper C-axis
 - Stripper adapter
- Perform maintenance on the die base
 - Identifying and disassembling major components
 - Lamping the die plate
 - Die sensing
 - Rotary drive
 - Setting the bearing pre-load
 - Worm gear
 - Checking and adjusting backlash
 - Setting the zero point on the C-axis
- Disassembling major components on the coordinate guide
- Perform maintenance on the coordinate guide
- Perform maintenance on the hydraulic system
- Perform maintenance on the pneumatic system
- Tooling types and functions and required tonnage
- Disassembling major components on the vacuum system
- Programming ASI boards
- Performing Macoda backup
- Reading schematics
- Troubleshooting and correcting machine faults with schematics

CUSTOMER SERVICES

COURSE OUTLINE