



## COURSE DESCRIPTION

The TruLaser RotoLas Operator and TruTops Tube course is intended for customers that have experience running their TRUMPF lasers and are ready to utilize their RotoLas option. The goal of this course is to provide students with essential RotoLas operations knowledge and skills to successfully run the machine, draw parts using TruTops Tube, and produce satisfactory RotoLas parts. Students will develop a working knowledge of tube cutting by learning machine hardware, fundamental operations, and how to program TruTops Tube. Upon completion of this course, students will possess the necessary skills to operate the laser in a safe manner, maximize tube material processing capabilities, and carry out basic preventive maintenance tasks.

## PREREQUISITES

General knowledge of processing flat sheet metal - 6 to 8 weeks. Familiarity with CAD drawings is a plus. Students must come in teams, one operator and one programmer, for the class.

## COURSE DURATION

2.5 days

## OBJECTIVES

- Identify RotoLas unit hardware components.
- Perform addition and removal of covers.
- Perform referencing of the chuck.
- Identify automatic chuck key functions.
- Perform addition and removal of support arms and jaws for clamping.
- Locate different working positions of the chuck.
- Execute RotoLas tech menus (fast key selections).
- Produce cut parts from customer RotoLas programs (spatter guards, support discs).
- Identify maintenance points.
- Set-up machine and run programs.
- Create material lists and draw standard cases, i.e., GEO, ROT, and RPF files.
- Drive tool paths.
- Manipulate tech tables and logic of contour approaches and withdrawals.
- Create NC code.



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## COURSE OUTLINE

- Cutting parts from customer RotoLas programs
  - Splatter guard program
  - Discs program
  - Support discs
- RotoLas unit hardware components and their functions
  - Exhaust system
  - Rotary axis
  - Supports
  - NC stop
  - Automatic chuck key
  - Clamps and jaws
- Removing and adding covers
- Manual functions via the Switch Element
  - Referencing the chuck
  - Adding and removing the support arms and jaws for clamping
  - Performing NC stop
  - Performing test markup
  - Locating different working positions of the chuck
- Overview of TruTops Tube
  - TruTops theory
  - Identifying components on the user interface
  - Programming sequence
- Programming with the Drawing module
  - Loading and importing drawings
  - Creating material lists
  - Profile management
  - Drawing standard cases, GEO, ROT, and RPF files
  - Measuring the tube center
  - Creating drawings for round tubes
  - Saving drawings
- Programming with the Tech module
  - Processing strategies
  - Process extras
  - Manipulating tech tables and logic of contour approaches and withdrawals
- Generating and processing NC code
- RotoLas tech menus (fast key selections)
- Creating drawings for square tubes
- Creating drawings for rectangular tubes
- Maintenance points
- Setting up the machine and running part programs