Programming TB-Deco on EvoDeco PTO Machine Lines

EvoDECO training course

Objectives of the course

- *Creating a program based on an existing model*
- *Implementation of a program*

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Target audience	• *Operators and programmers of CNC machines*
Prerequisites	• *Knowledge of Windows* • *Knowledge of ISO programming*

Participants	3 to 6 people
Duration	5 days
Language	English
Location	Tornos SA, Rue industrielle 111, 2740 Moutier
Services	Course and related documentation, lunch included

In the event of less than 3 participants, Tornos Academy reserves the right to postpone the training date.

Content of the course

Introduction
- *Presentation of the kinematics (machine / origin / stroke axes)*
- *Discovering the TB-Deco software environment*

TB-Deco programming
- *Analysis of programs and their sequences (initialization, main, bar loading, etc.)*
- *Review of global variables #3xxx and #2xxx*
- *Setting of initial spindle speeds*
- *Creation of the tool catalog and adjustment of geometries*
- Study of the ISO code and G9xx macros of a model
- *Demonstration of the principle of PTO tables*
- *Explanation of the main machining macros*
- *Layout and synchronization of operations according to the GANTT chart*

Implementation of the program
- *Writing operations for fixed tools (turning, centering, drilling, threading, milling)*
- *Drafting of operations for revolving tools*
- *Program generation*
- *Simulation and visualization of 2D trajectories*

Other
- *Using the C-axis and the Transmit function (polar coordinates)*
- *Synchronization / locking of axes*
- *Comparison of program parts*
- *Printing of the program and the operating range*