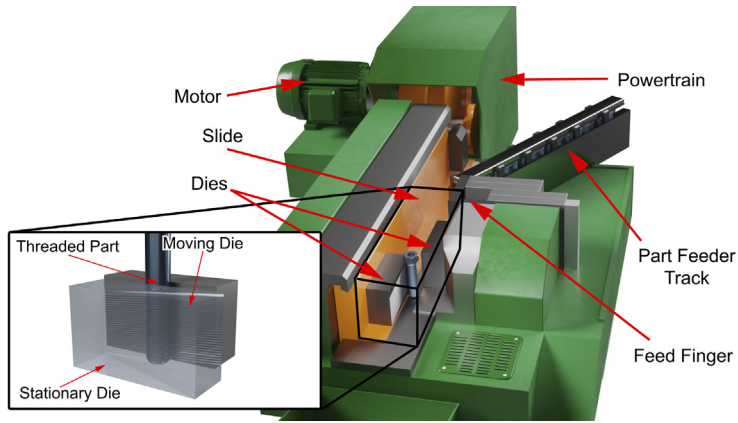


THREAD ROLLING FUNDAMENTALS

eLearning courses designed to increase productivity and profits



Learning Made Simple, Visual, and Interactive

The THORS *Thread Rolling Fundamentals* course introduces learners to thread rolling terminology and the equipment used in the industry. The course also presents thread rolling process steps, thread accuracy factors, and common process defects. Presented in THORS' highly visual and interactive learning format, this course equips learners with a foundational knowledge of thread rolling equipment and processes.

Credit Hours **1.5**

Learning Objectives

- Recall the terminology associated with threaded components.
- Recognize the different machine types and die types for thread rolling.
- Differentiate between the various thread rolling process steps.
- Understand the major thread accuracy factors influencing thread rolling.
- Determine courses of action for troubleshooting various thread rolling defects.

Table of Contents

I. Terminology and Equipment

- **Terminology**
 - Thread Terminology
 - Rolling Terminology
- **Passive Sensors**
 - Machine Types
 - Flat Die Machine
 - Two Cylindrical Die Machine
 - Three Cylindrical Die Machine
 - Planetary Die Machine
 - Computer Numerical Control (CNC) Machine Attachment
 - Machine Selection

II. Process and Troubleshooting

- **Thread Rolling Process Steps**
- **Thread Accuracy Factors**
 - Thread Diameters
 - Thread Angle and Lead
 - Roundness
 - Uniformity
- **Troubleshooting Defects**
 - Laps
 - Slivers
 - Drunkenness
 - Lead Error
 - Incomplete Threads
 - Acceleration
 - Hollow Parts
 - Taper

