

ROTARY SURFACE GRINDING VIDEO SERIES 2

Data-driven, time efficient training for Machine Tools, Machines, and Manufacturing Operations



The Rotary Surface Grinding Video Series 2 introduces learners to concepts that are important to the grinding process, such as cutting parameters, basic program codes, and macro variable programming. Finally, important best practices and troubleshooting techniques for surface grinding operators are presented.

Learning Hours **2.5**

This video series was designed in partnership with Bourn & Koch Inc., manufacturers of the Blanchard rotary surface grinding machines.



Learning Objectives

- Recall the cutting parameters applied to rotary surface grinding operations
- Recognize the common codes used for programming rotary surface grinders
- Understand how macro variable programming impacts the rotary surface grinding process
- Recall important safety and best practices for rotary surface grinding operations
- Recognize common troubleshooting techniques for rotary surface grinding operations



Course Topics

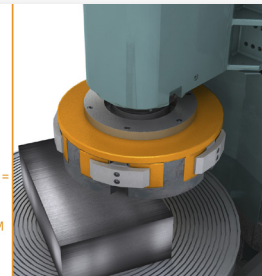
Series 2

- Rotary Surface Grinding Cutting Parameters
- Rotary Surface Grinding Programming and Machine Codes
- Rotary Surface Grinding Macro Variable Programming
- Rotary Surface Grinding Safety and Best Practices
- Rotary Surface Grinding Troubleshooting

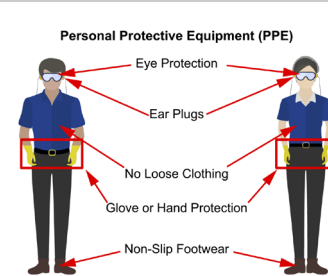
$$\text{Spindle Speed (Wheel RPM)} = \frac{3.82 \times \text{SFM}}{\text{Wheel Diameter}}$$

$$\text{Wheel Surface Footage Per Minute (SFM)} = \frac{3.14 \times \text{Wheel Diameter} \times \text{RPM}}{12}$$

Typical SFM Ranges = 3,000 - 7,000 SFM
Maximum of Range of 12,000 SFM



Personal Protective Equipment (PPE)



- Eye Protection
- Ear Plugs
- No Loose Clothing
- Glove or Hand Protection
- Non-Slip Footwear