



# RothGreaves Precision Coil Winders

## General Product Information

### Automatic Coil Winder (80")

#### Dimensions

135" length x 35" width x 38" height

#### Power requirements

220 VAC 20Amp Single Phase 50/60Hz

#### Pneumatic requirements

80 psi @ 5.0 cfm for models without hot air torch

#### Motor type and size

60 mm brushless servo, 80 mm brushless servo for carriage

#### Winding speed max

6000 rpm

#### Drive amp size

400 watt, 750 watt

#### Controller type

PCI-2 CNC multi-axis servo controller

#### Interface

17" touch screen monitor and track ball keyboard

#### Wire tensioning

Electronic (range of sizes available)

#### Arbor tensioning

Pneumatic (on tail stock)

#### Chuck size/type

1/8" Albrecht tailstock, custom collets for spindle

#### Coil cutter

Pneumatic with side cutting blades

#### Manual jog controller

Pendant with joy stick operation all axis

#### Computer Operating System

Microsoft Windows XP

#### Hot air torch

1200° Fahrenheit maximum

#### Available Options:

- Electronic spool brakes  
(3 oz-in, 11 oz-in, 35 oz-in, 85 oz-in, 140 oz-in)
- Pneumatic arbor tension (20 lbs, 85 lbs, 130 lbs)
- Electronic arbor tension with force feedback  
(0–10 lbs, 0–25 lbs, 0–50 lbs)
- Arbor dampers (flat faced contact and roller style)
- Heavy-duty wheels with leveling feet
- Multi-Filar spool racks
- Payout angle compensator (with or without protractor)
- Safety light curtain and/or safety covers
- On-site training

### Manual Coil Winder

#### Dimensions

129" length x 26" width x 36" height

#### Weight

600 lbs (approximately)

#### Power requirements

208-240VAC single phase 50/60Hz 20amp

#### Pneumatic requirements

80 psi

#### Motors/Drives

Yaskawa servo motors, Yaskawa Sigma V drives

#### Chuck type/size

3-Jaw precision

(sizes available: 0"–0.125"; 0"–0.250"; 0"–0.375"; 0"

#### Pitch range

0" to 1" with 0.0001" resolution

#### Arbor sizes

0.001" to 0.500" (maximum diameter depends on chuck size)

#### Wire Sizes

0.0005" to 0.025" (tensioning system will vary depending on wire size)

#### Winding Length

102" chuck to chuck

#### Wire diameter compensation/back angle control

maximum controlled back angle -25°

#### Wire tensioning

- Electronic shaft brake with five torque ranges: 0-3 oz.-in; 0-11 oz.-in; 0-35 oz.-in; 0-85 oz.-in; 0-140 oz.-in
- Driven spool with closed loop control: 10 grams minimum; 2500 grams maximum (requires range selection)

#### Arbor tensioning

- Pneumatic (three sizes): 20 lbs.; 85 lbs.; 130 lbs.
- Force feedback closed loop control: 0–10 lbs.; 0–25 lbs.; 0–50 lbs.

#### Controls

Computer with Windows XP embedded.

PCI-2 fully synchronized servo

#### Interface

17" touch screen monitor and track ball keyboard

#### Software

RothGreaves EasyWind™ multi-segment multi-pitch recipe software

#### Hot air torch

1000° Fahrenheit maximum

#### Safety guarding

Light curtain with three sides guarded



# RothGreaves

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