

MAGNETICS RESONANCE IMAGING

SPECIFICATIONS

Broomfield **MRI Winding Systems** provide for a wide range of coil sizes, coil styles and wire types, for smaller extremity diagnostic units to larger MRI units with former diameters over 2 meters diameter.



Benefits:

- Constant precision wire tensioning with dancer/accumulator.
- Automatic wire dereeler alignment with guide arm.
- Single speed range and multi-speed winders.
- Heavy-duty welded steel construction for superior strength.
- AC Vector drives for precise speed control.
- Servo wire guide traverse: Two precision layering styles are provided; Parallel and Spiral.
- Control station custom configured to your application.
- Quick-select touch screen wire tension control.
- Linear wire usage readout and live wire tension display.

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MRI Coil Winding Systems

Headstock Connection: Steel faceplate or 3-jaw self-centering chuck.

Primary Reduction: Timing belt and pulleys.

Secondary Reduction: Gear reducer or multi-speed gearbox, depending upon model.

Spindle Rotation: Either direction can be selected by a switch on the control panel.

Spindle Center Height: 43" (1092mm) from the floor or as required to accommodate coil diameter swing.

Brake: Brake on the main drive motor and also after the gear reduction on the output shaft, operated by removing foot from variable speed control, by total turns count programming or by emergency stop button.

Tailstock: Mounted on precision ways to allow positioning anywhere along winding axis. Large crank handle provides easy movement. Locking hardware to hold tailstock firmly in position.

Tailstock Connection: May be 3-jaw self-centering chuck, steel faceplate, saddle bearing with locking yoke or as required.

Maximum Distance Between Centers:

As required.

Maximum Swing Diameter: As required.

Machine Control: MP-4 Microprocessor controller.

Custom control systems may also be provided as required. (See MP-4 page for details)

Motor Equipment: 5 HP (3.73 KW) AC Vector duty motor and controller with variable speed that can be foot controlled and/or dial controlled.

Spindle Speeds and Corresponding Torques:

Speeds range choices up to 80rpm. Torque available up to 1750 ft. lbs. (2,373 Nm)

Power Requirement: Electrical: 208/220, 380, 415 or 460V, 3 phase, 50 or 60 hz. Other voltages available. Air: 80 PSI (5.5 Bar) at minimal CFM.

Weight: Dependent upon model and machine configuration.

Options:

- Special controls.
- Side pressure packer on wire turns.
- Multi-wire guide assembly.
- Special wire guide pulley sizes and configurations.
- Automatic Run.
- Longer or shorter machine length.
- Larger or smaller coil swing diameters.
- Other machine power ranges.
- Winding area guard, safety zone floor pads or light curtains.
- Paper or fiberglass insulation dereeler/tensioners.
- Multiple coil winding.
- Custom modifications for special applications.