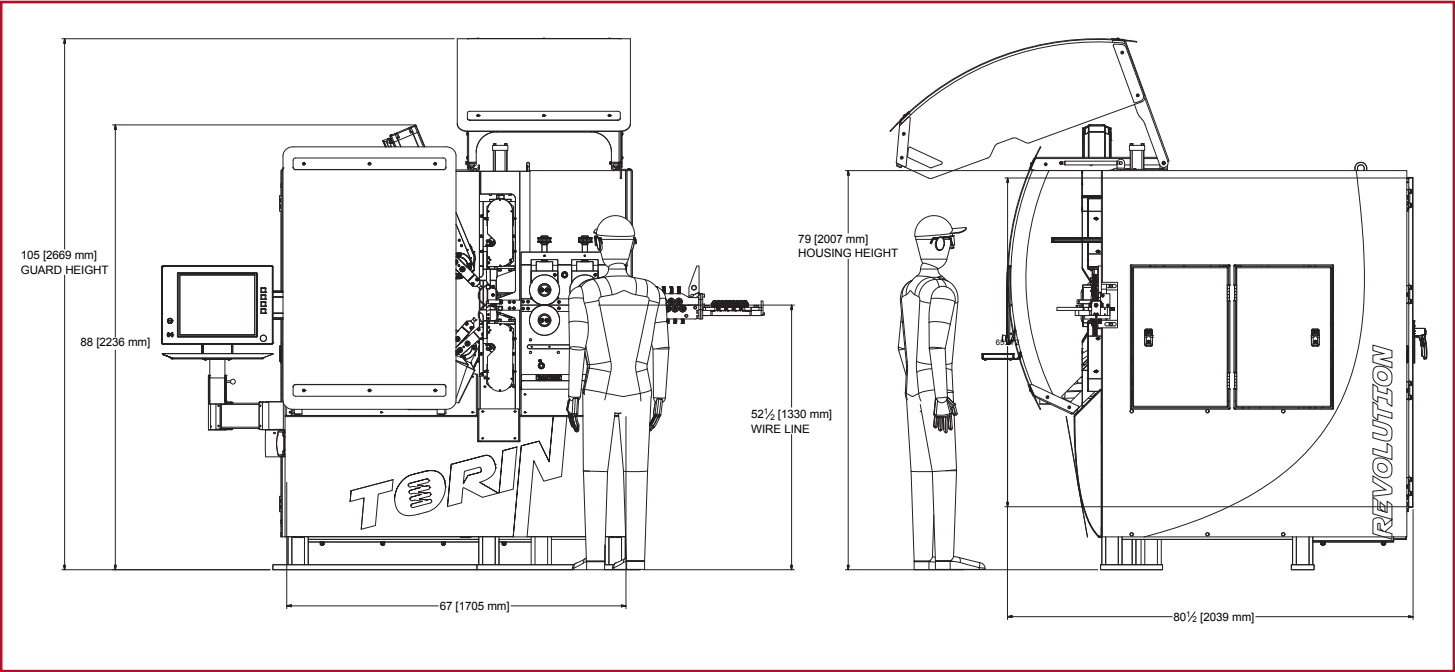


Models Available

Machine Size	0	1	1-1/2	2	2-1/2	3	4	5
	R 10	R 11	R 115	R 12	R 125	R 23	R 24	R 25
Wire Diameter (in)	.008-.028	.015-.080	.032-.135	.047-.177	.080-.275	.125-.375	.250-.625	.375-.750
Wire Diameter (mm)	.20-.70	.40-2.0	.80-3.5	1.2-4.5	2.0-7.0	3.2-9.5	6.35-16	9.5-19
Minimum Index	3	3	3	3	3	3	5	5
Spring Body Max (in)	.875	1.75	2.25	3.25	4.25	5	6	10
Spring Body Max (mm)	22	44	57	83	108	127	152	254
Feed Length	UNLIMITED							

All dimensions subject to factory confirmation.



R 12 size machine depicted.

 In 1776, we evolved the best ideas out of Europe, and revolutionized them here in America. Today, we've done the same with dual-point technology for spring coilers. Evolve your spring production. **Join the Revolution with Torin!**



Now a standard offering from Torin!
Dual point tooling technique utilizing Torin's robust mechanics and reliable, accurate controls.

Dual Point Spring Coilers

Engineered & Built in the USA

FENN has always been in the business of creating custom machinery based on our client's needs. The market has asked for it, and we've listened. We're pleased to welcome our latest standard product offering to the Torin family of spring coilers. Like our single point line, our Revolution Series of dual point coilers are designed and built in our Connecticut, USA headquarters by our experienced staff. We look forward to serving your business with the highest quality equipment and spring making technology, backed by an OEM you know and trust.

Standard Features

- **Left Hand or Right Hand Coiling** — Save on set up time with our three programmable axes for diameter allowing quick, 2 screw, changeover from left hand to right hand spring helix.
- **Movable Wire Lines** — Save time and get production up and running faster with our multi wire line tooling. Wire line tooling does not need to be changed with the wire size.
- **Common Guides and Feed Rolls** — Compatible with your existing Torin machines.
- **Programmable horizontal pitch & vertical (wedge) pitch**
- **Programmable servo elliptical cutter motion**



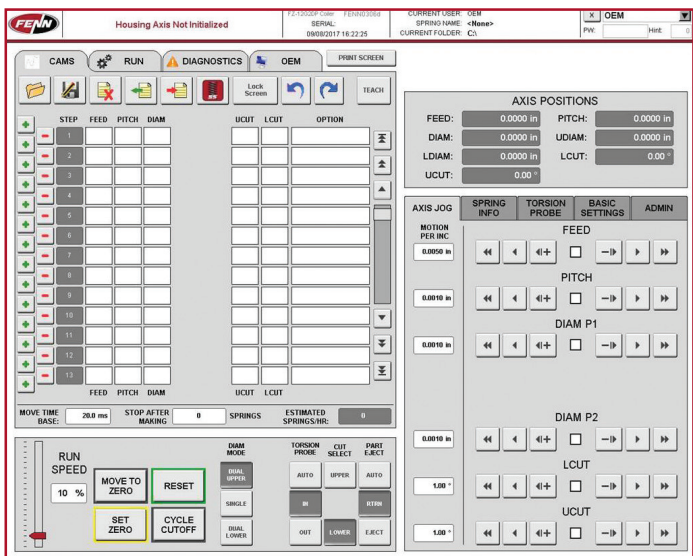
REVOLUTION
SERIES

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Standard Features, Continued

Torin is pleased to offer a long list of standard features available on every Revolution Series spring coiler, including:

- **Spring Portal** allows for secure connection to your machine by FENN technicians. Technicians are able to remotely access your machine to provide software updates, diagnostic support and access machine set-up conditions. Our real time video feature allows our technicians to see exactly what's happening with your machine and help you resolve issues quickly
- **Spring Shortcut** spring program generator
 - Accelerates the spring program development process by allowing the operator to enter a few key characteristics to generate a spring program
 - Allows less experienced spring operators the opportunity to learn through making minor adjustments to generated programs rather than developing the entire program
 - Shortened setup enables more time for profitable production runs
- Ergonomic pendant style operator interface with **19-inch touch screen display**
- **User-friendly operator interface** — Torin's latest software combines many high tech features paired with our classic CNC style programming, making training easy for current Torin operators
- Ergonomic **remote hand wheel** for easy setup
- **Complete system diagnostics** accessible through user interface
- **Spring jog mode** allows operator to step through the program; highlighting each operation on the CAMS screen
- **High speed, high accuracy**, tight index spring production
- **User interface is available in multiple languages** to accommodate a diverse workforce
- Heavy duty construction of the machine continues Torin's tradition of **robust American quality** capable of meeting your production demands for decades
- **Easy accessibility from all sides**— including a full door to access the back of the machine face ensures quick, easy maintenance
- **Local, reliable service and sales staff**— We are ready to assist you with your standard and specialty coiling needs
- Torin's industry leading **2 year warranty**



Optional Features

A selection of optional features are available to meet the diverse requirements of the spring making industry. Optional features include:

- **Length Gauge Interface** — For customer supplied length gauge such as a Larson or Moyer for on the fly, automatic adjustment of free length
- **Laser Probe** — The laser probe provides precise feedback of spring geometry to the FZ control system, enabling the spring maker to control critical dimensions such as the angular clocking of torsion legs and extension hooks
- **Part Handling Devices** — Such as dump troughs, conveyor belts, ejection devices
- **Wire Straighteners** — High quality 2 plane wire straightener that eliminates cast in the wire, resulting in higher quality springs
- **Customer Configurable Programmable Inputs/Outputs** — Enables the connection of secondary inline equipment
- **End of Wire Sensor** — This sensor signals the operator when the wire has run out, or will shut the machine down for lights out production
- **Tool Breakage Sensor** — In the unlikely event that a tool breaks, or something malfunctions in the set up, this sensor will stop the machine, preventing further damage
- **Custom Auxiliary Attachments** — Available to suit your complete forming needs
- **Cutter Height Adjust** — Fully programmable cutter height adjust is available
- **Wire De-Reelers/Payoff** — Current designs for some model sizes, new model sizes to come



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