



Custom Iron Highlights Innovative Spiral Staircase Designs for Interior and Exterior Projects

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Custom Iron continues to expand attention on innovative spiral staircase designs built for a range of residential, multi-family, and light commercial settings. Produced at the company's facility in Zumbrota, Minnesota, the current lineup includes standard models that can be tailored by dimension, handrail profile, baluster style, tread surface, and finish. Each staircase is designed to conserve floor space while meeting code requirements for interior and exterior use.

The collection spans traditional and contemporary looks. The D100 Old Faithful features an ornamental handrail with a vertical volute and square vertical balusters, with optional upgrades such as round, hammered, or twisted mid balusters. The D105 Wildwood pairs a metal structure with a solid wood handrail, commonly shown with a 6010 oak profile, and can include wood tread and platform covers in additional species. The D124 New Faithful keeps square vertical balusters while introducing a 1-1/2-inch round handrail with a welded dome endcap.

The D154 Greenwich Jazz uses flowing horizontal lines created by round tubes that continue into a vertical end post. The D156 Cablerail Spiral combines square posts, a round handrail, and stainless steel cables for

an open appearance suited to both indoor and outdoor installations. The D224 Monterey Bay presents a contemporary profile with a round handrail and round vertical balusters. The D500 Expression uses a smooth flat handrail and square main balusters, with interchangeable laser-cut panel options such as Bamboo, Botanical, Champagne, Flourish, Fracture, Greenwich, Patriot, and Waterford.

These designs support applications that include loft access, basement connections, lake homes and cabins, mezzanines, second-story additions, deck-to-patio access, rooftop terraces, and secondary exits. Exterior models can be built in aluminum with protective powder-coated finishes intended to withstand rain, snow, and seasonal temperature changes.

Interior models are designed for compact footprints where a conventional stair run would consume too much space. Tread options include checkerplate and other surfaces selected to match traffic and style needs. Handrails are formed to follow the curve of each staircase so on-site reshaping is not required.

The production process begins with consultation on project goals, site measurements, style preferences, and code considerations. Designers then prepare CAD drawings and shop plans before each staircase is built in Minnesota. After assembly at the facility, the staircase is taken apart into smaller sections for shipping. Two-page instructions guide reassembly, which is typically completed by two people in a few hours without on-site cutting, drilling, or welding.

“Design choices across the spiral lineup allow a project to follow a traditional, transitional, or modern direction without changing the basic space-saving form of the stair,” said Robert Driscoll, President and CEO. “The models differ in handrail shape, infill, and surface detail, but they share the same approach of building each unit to the project’s measurements.”

Stair companies, builders, architects, and homeowners have used Custom Iron products for both standard and highly customized work. Website comments from long-term partners describe multi-decade purchasing relationships and note assistance from the design and operations staff on projects ranging from simple to complex. The company supplies businesses in the stair industry as well as consumers and builders across the country.

“The range of spiral models exists so clients can match the stair to the building rather than force a single look onto every site,” added Driscoll. “Interior and exterior versions follow the same design and building process, then receive finishes appropriate to the location.”

Custom Iron was established in 1975 by Terry Driscoll and now operates from an 80,000-square-foot facility under President and CEO Robert Driscoll, who assumed leadership at the end of 2021. The company builds spiral stairs, mono-beam and two-beam systems, deck railings, handrails, newels, balusters, and additional

architectural metalwork in the United States. The team includes design, operations, and production staff with long tenure in the shop and office, supporting custom-built stairs intended for straightforward installation and lasting use.

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Custom Iron

Custom Iron doesn't believe you should settle for a one-size-fits-all spiral stair! That's why we don't sell kits. Instead, we build beautiful spiral stairs one at a time for a reasonable price.

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