



Custom Iron Highlights Mono-Beam and Two-Beam Stair Systems for Contemporary Projects

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Custom Iron continues to provide mono-beam and two-beam stair systems as sleek, modern alternatives within its line of architectural metalwork. Fabricated entirely in the United States at the company's facility in Zumbrota, Minnesota, these designs emphasize open architecture and clean lines suited to residential, commercial, and multi-family applications. The systems deliver a minimalist aesthetic while maintaining structural integrity and code compliance, offering builders and designers efficient solutions for straight stair configurations.

The mono-beam stair features a single central support structure that creates a floating appearance, with treads extending outward to minimize visual obstruction. Two-beam models incorporate dual parallel supports for added stability in wider spans or higher-traffic settings. Both styles incorporate square or round balusters, optional cable infill, and customizable handrail profiles. Materials include powder-coated steel for interior durability or aluminum for exterior resistance to corrosion and weather. Finishes range from classic black and matte tones to custom colors, brushed effects, or bare metal, ensuring seamless integration with surrounding architecture.

Fabrication begins with detailed client consultations to capture project specifications, followed by CAD-generated shop drawings and precise measurements. Each component is cut, welded, and finished by hand in the Minnesota facility, with tight quality controls applied throughout. Products ship disassembled into manageable sections, accompanied by detailed two-page instructions that enable most installations to be completed by two people in just a few hours without on-site welding, cutting, or drilling. This modular approach reduces labor costs and simplifies handling for contractors and homeowners alike.

Custom Iron's mono-beam and two-beam systems complement broader offerings that include spiral staircases and complementary railings. The designs support a range of tread options such as checkerplate, smooth metal, bar grate, or wood species, along with riser configurations that include solid panels, bar patterns, or open styles. Platform variations accommodate wall-adjacent or open layouts, while handrails can feature ornamental details, round profiles, or wood accents. The result is a fully tailored solution that aligns with modern design trends favoring transparency and minimal framing.

The emphasis on American-made production supports consistent quality and responsive communication. All elements receive corrosion-resistant powder coating suitable for both interior and exterior use, promoting longevity across diverse environments from urban lofts to outdoor terraces. Long-term clients have noted reliable performance over extended periods, with installations spanning multiple states and project types.

"Mono-beam and two-beam systems allow for creative freedom in spaces where traditional framing would feel heavy or dated," said Robert Driscoll, President and CEO of Custom Iron. "The open structure enhances light flow and visual spaciousness while delivering the strength and safety our clients expect from every piece we fabricate."

The fabrication process ensures precise fit and alignment, eliminating field adjustments and supporting efficient project timelines. Custom Iron works directly with architects, builders, and homeowners to refine designs, providing mockups and revisions as needed before production begins. This collaborative method has contributed to repeat business, with some partnerships extending more than two decades.

"Our approach to these stair systems reflects a commitment to practical innovation that meets both aesthetic and functional demands," Driscoll added. "From initial concept through final installation, the focus remains on delivering products that perform reliably for years to come."

Custom Iron operates from an 80,000-square-foot facility in Zumbrota, Minnesota, where all design, fabrication, and finishing occur under one roof. The company specializes in custom stair systems, railings, and architectural metalwork, serving stair industry professionals, builders, architects, and consumers nationwide. Under the leadership of President and CEO Robert Driscoll, Custom Iron maintains its focus on precision manufacturing and customer-driven solutions that have defined its operations since 1975. The

experienced team continues to support a wide variety of projects through durable, USA-produced metalwork tailored to individual specifications.

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For more information about Custom Iron, contact the company here: Custom Iron Robert Driscoll 800-732-7696 CustomIronInc@gmail.com 400 E 1st St, Zumbrota, MN 55992

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.

Website: <https://www.customiron.com/>

Email: CustomIronInc@gmail.com

Phone: 800-732-7696

