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Custom Iron has been in the spiral stair business since 1975. Although we didn't invent the spiral stair, we did invent the custom-built spiral stair that arrives in a Custom Iron box, easy to install in just a couple of hours.

Custom Iron spiral stairs are not kits. Our stairs are built to your specifications for your particular installation. The



# CUSTOM IRON SPIRAL STAIRS

framework for our spiral stairs is structurally engineered to provide maximum strength and stability for a lifetime. We provide installation instructions in both printed and digital formats so that even first-time installers are able to completely install one of our stairs in about two hours.

Mix and match using Custom Iron's wide selection of metal and wood tread covers, platform covers, handrails, and center column finials. Swap balusters shown for any of our other balusters and panels. (Within tread width limitations.)

Whether your stair is a simple one-level from a deck to the ground, or a pair of 50 feet tall "his" and "her" lighted spirals in an opera house, Custom Iron is your source for custom-engineered, custom-built spiral stairs.



**Custom Iron Spiral Stairs are available in established designs as well as designs of your imagination. Work with our talented staff to design the stair of your dreams within the price point of your budget.**

# SPIRAL STAIRS

## English Garden

Bring the garden inside with the English Garden stair. Accented by meticulously handcrafted steel leaves and roses of brass, the woody-textured vines wind their way along the stair's path. Also available with steel accents.

Model number: D443

Handrail: Polished brass with brass rose subrail

Balusters: 10150 (vine), 10120 (square)

Shown with options:

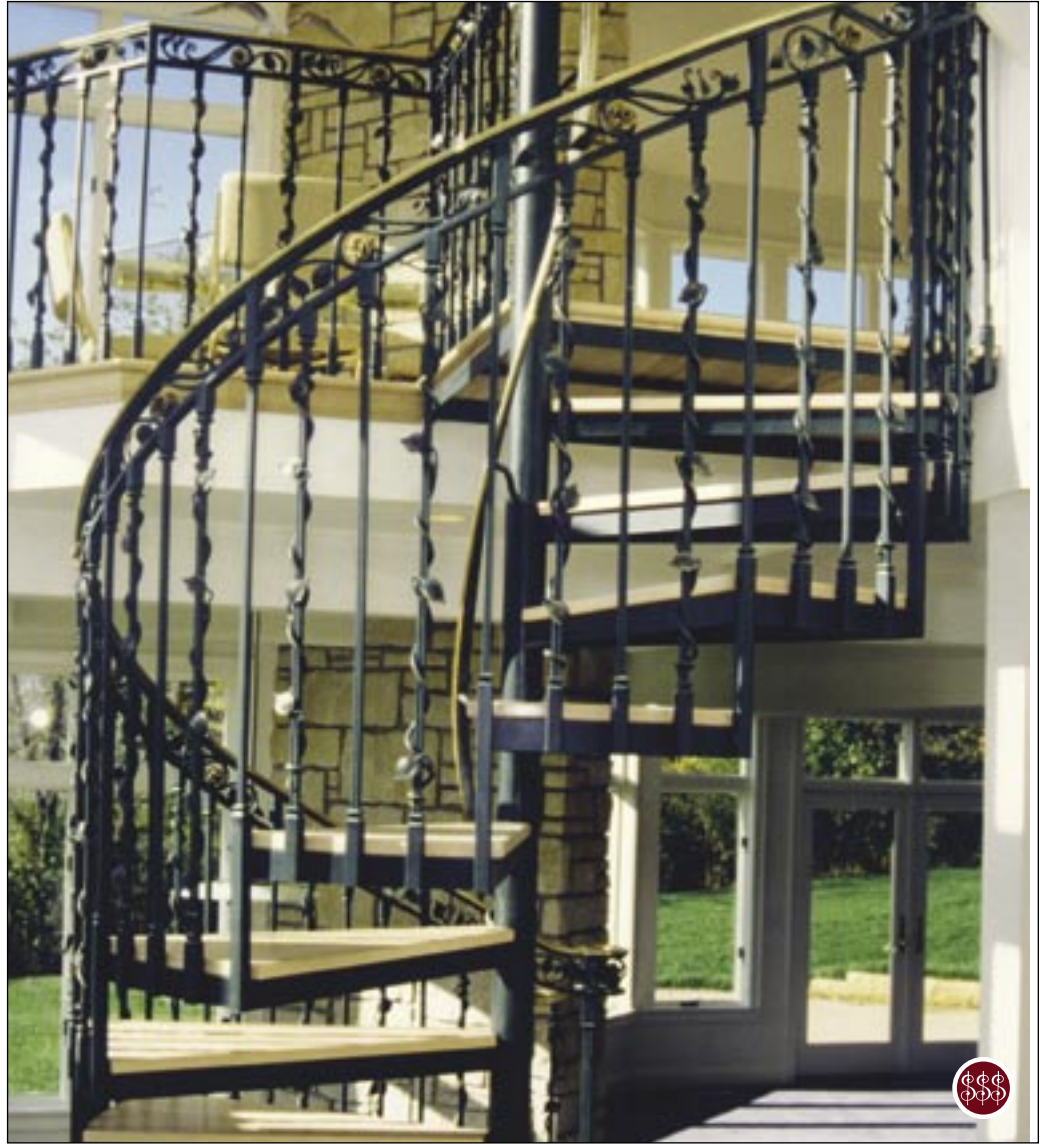
Treads: Maple

Paint color: Dark verdigris with gold

highlights

Inside handrail

*Rich brass roses among steel vines in the subrail topped by the handsome brass handrail and volute*



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"Try it before you buy it." Please inquire about our Dream it. Build it.™ design service.

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## **Athens Wave**

Transport yourself to ancient Greece with these classic wave panels. Inspired by Greek art and architecture, the fluid grace of this stair is achieved by the combination of the curves in the main and companion panels.

Model number: D420

Handrail: Embossed brass or embossed copper

Panels: 10670 (large), 10671 (small)

*Shown with options:*

Handrail: Embossed brass

Treads: Red oak

Paint color: Light bronze

Closure: Hardwood

*Matching detailed scrollwork filler between the end post and embossed return-to-floor handrail.*



Smooth elements in baluster and panels are also available with hammered and other embossed surfaces.

# SPIRAL STAIRS

## Heritage Lace

Reminiscent of fine lace work found in Belgium, this stair has ornate detail and an elaborate border skirting. The theme continues with a floral embossed brass handrail.

Model number: D433

Handrail: Embossed brass or embossed copper

Balusters: I0130

Panels: I0650

*Shown with options:*

Handrail: Embossed brass

Treads: Red oak

Paint color: Antique natural

*Matching detailed scrollwork filler between the end post and embossed return-to-floor style handrail.*



Wood tread and platform covers are available in ten different species. Please inquire.



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## Spanish Gate

Carry on a centuries old tradition with this modern adaptation of the classic Spanish gate style. Accents include scroll skirting and embossed brass or copper handrail.

Model number: D423

Handrail: Embossed brass or embossed copper

Panels: 10620

*Shown with options:*

Handrail: Embossed copper

Treads: Red oak

Paint color: Antique natural

*Matching detailed scrollwork filler between the end post and embossed return-to-floor style handrail.*



Embossed copper and brass handrails are also available with an aged finish. Please inquire.

# SPIRAL STAIRS

## **Martinique**

Enjoy a slice of France set down in the tropics. The Martinique expresses both the fun and the flavor of the island.

The stair is accented by basket balusters and an embossed brass handrail with a graceful turnout.

Model number: D112

Handrail: Embossed brass, steel, or copper

Balusters: 10171 (basket), 10130 (square)

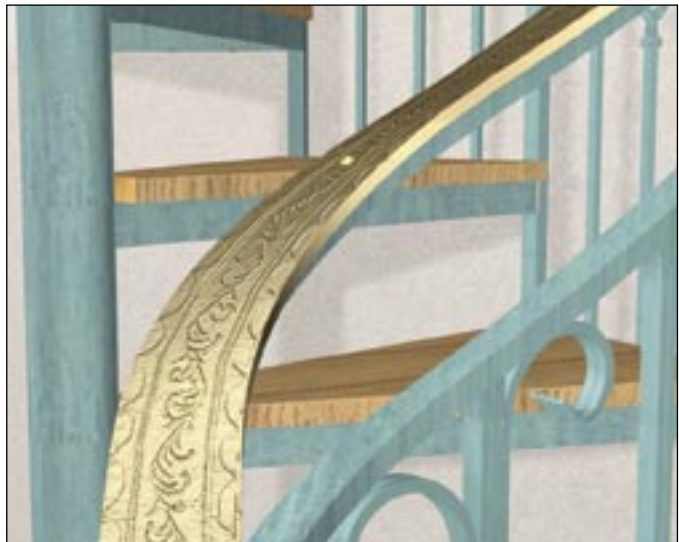
*Shown with options:*

Handrail: Embossed brass

Treads: Red oak

Paint color: Verdigris

*Matching detailed scrollwork filler between the end post and embossed brass return-to-floor handrail on a turnout tread.*



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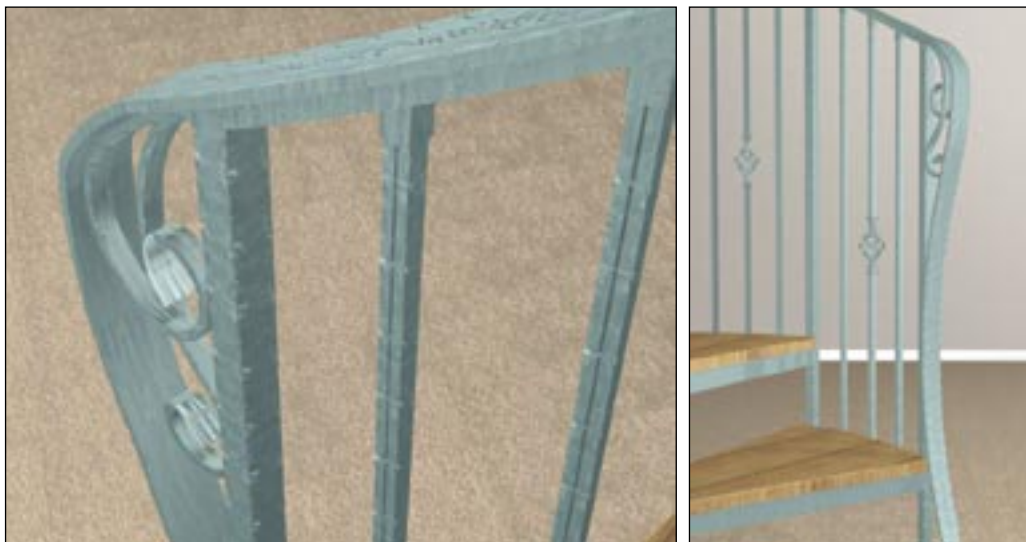
Please inquire about using this turnout style tread on other spiral stair models.

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## **Monaco**

Similar to the Martinique with an understated elegance, this all painted stair is designed without the subrail and mid baluster scroll. The handrail finishes in a "return-to-floor" style.

Model number: DI 12A

Handrail: Embossed steel

Balusters: 10160 (basket),  
10130 (square)

*Shown with options:*

Handrail: Embossed steel

Treads: Red oak

Paint color: Verdigris

*Scrollwork filler between the end post and embossed steel return-to-floor handrail.*



Please inquire about using this "return-to-floor" rail termination on other spiral stair models.

# SPIRAL STAIRS

## Crystal Cove

Experience the clear clean lines of the Crystal Cove stair. Laminated glass side panels with polished edges offer the illusion of a curving waterfall frozen in space.

Model number: D475

Handrail: Round painted steel tube

Panels: Laminated glass

*Shown with options:*

Treads: Glass block

Paint color: Midnight blue

*Laminated glass panels hover between round painted steel handrail and bottom subrail.*



Other paint colors and finishes are available. See *Paint + Finishes* tab for more information.



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## Grand Marais

Reflecting both the simplicity and subtle detail found in nature's favored places, the Grand Marais features a double volute handrail of round steel tubing and round bar balusters with a gentle gleam of brass or nickel rings.

Model number: DI 30

Handrail: Round painted steel tube with subrail and double volute

Balusters: 10271 (brass, brass ring) or 10274 (stainless, brass ring) or 10192 (steel, brass ring).

*Shown with options:*

Balusters: 10192

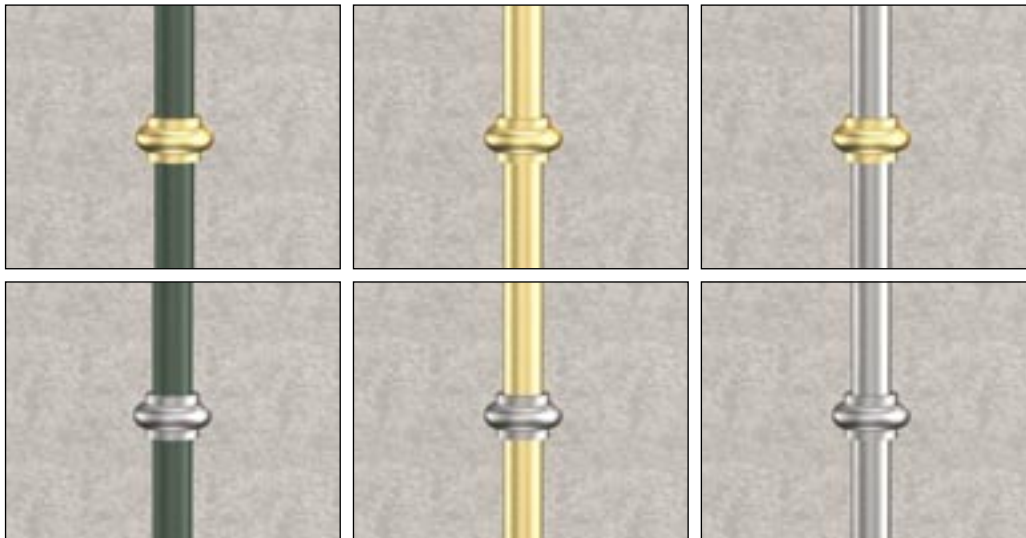
Handrail: Round painted steel tube

Treads: Red oak

Paint color: Forest green

*Round handrail and subrail finish to a double volute.*

*Also available with polished brass ring or brushed nickel ring on painted, brass or stainless round mid-balusters.*



Many baluster accents are available in steel, stainless, brass, or copper.

# SPIRAL STAIRS

## Copper Mountain

Capture this rustic and sophisticated combination of steel and copper. Rugged hammered and chiseled balusters are the perfect complement to the diamond-shaped copper baskets and embossed copper handrail.

Model number: D366

Handrail: Embossed copper with fishtail scroll or embossed brass without fishtail scroll

Balusters: 10138 (basket), 10130 (square)

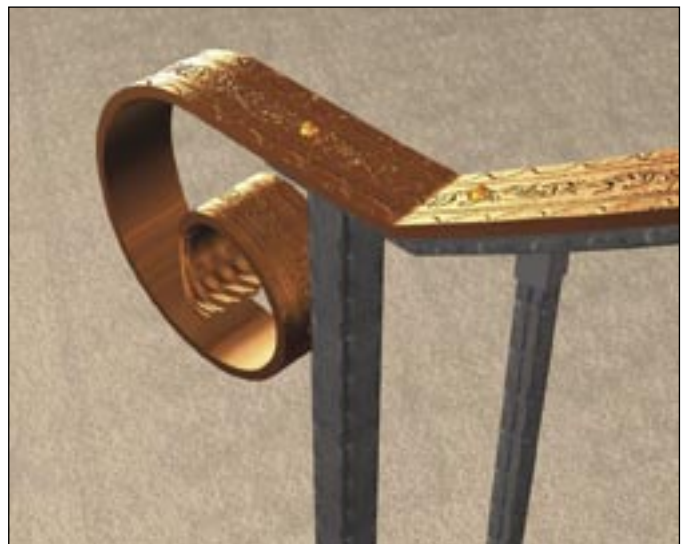
Shown with options:

Handrail: Embossed copper

Treads: Red oak

Paint color: Antique natural

*Embossed copper handrail finishes with a fishtail scroll*



Embossed handrails are also available in different patterns. Please inquire.



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## Iron Range

Continuing the rugged motif, the Iron Range stair sports diamond-shaped baskets and an embossed handrail of steel. This all steel version whispers of cabins on the river near deep clear quarry lakes.

Model number: D366A

Handrail: Embossed steel

Balusters: 10141 (basket),  
10130 (square)

*Shown with options:*

Treads: Red oak

Paint color: Antique  
natural

*Embossed steel handrail  
finishes with a fishtail scroll*



Handrail styles shown on spiral stair models can be used on other stair models.

# SPIRAL STAIRS

## Soho Gallery

Sweeping horizontal lines of eight round tubes flow naturally from the top to the bottom, as though rendered with an artist's hand. Note the unique transition from horizontal to vertical at the bottom stair detail.

Model number: D155

Handrail: Round painted steel tube

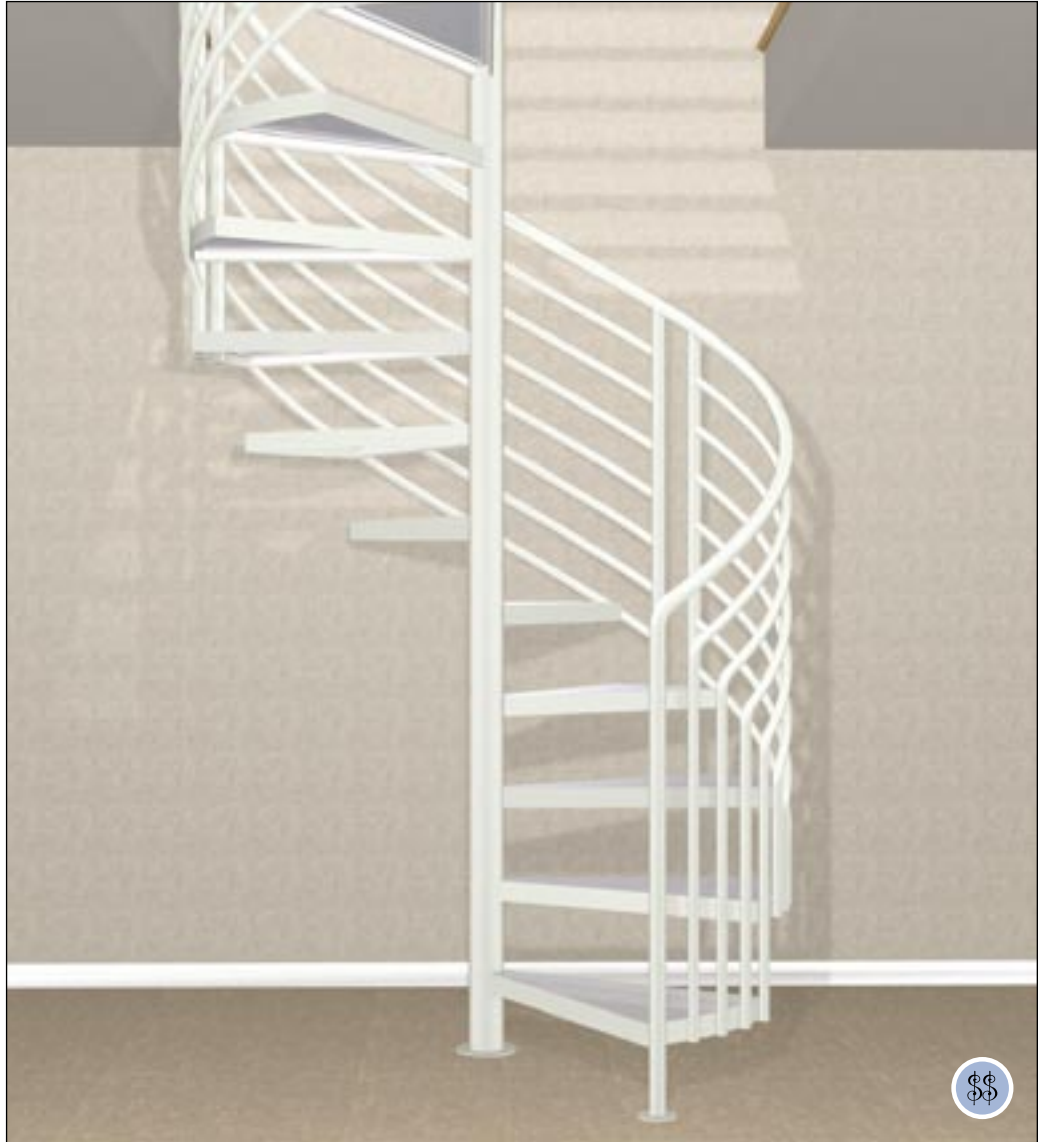
Panels: Round painted steel tube

*Shown with options:*

Treads: Laminated glass

Paint color: Winter white

*Round horizontals drop in an obtuse angle at the finish.*



Platform railing is welded or fastened (depending on the platform style) to the platform, and it attaches to the center column above the platform. Platform railing is included in the price of every spiral stair. See the *Spiral Order Guide* for more information.

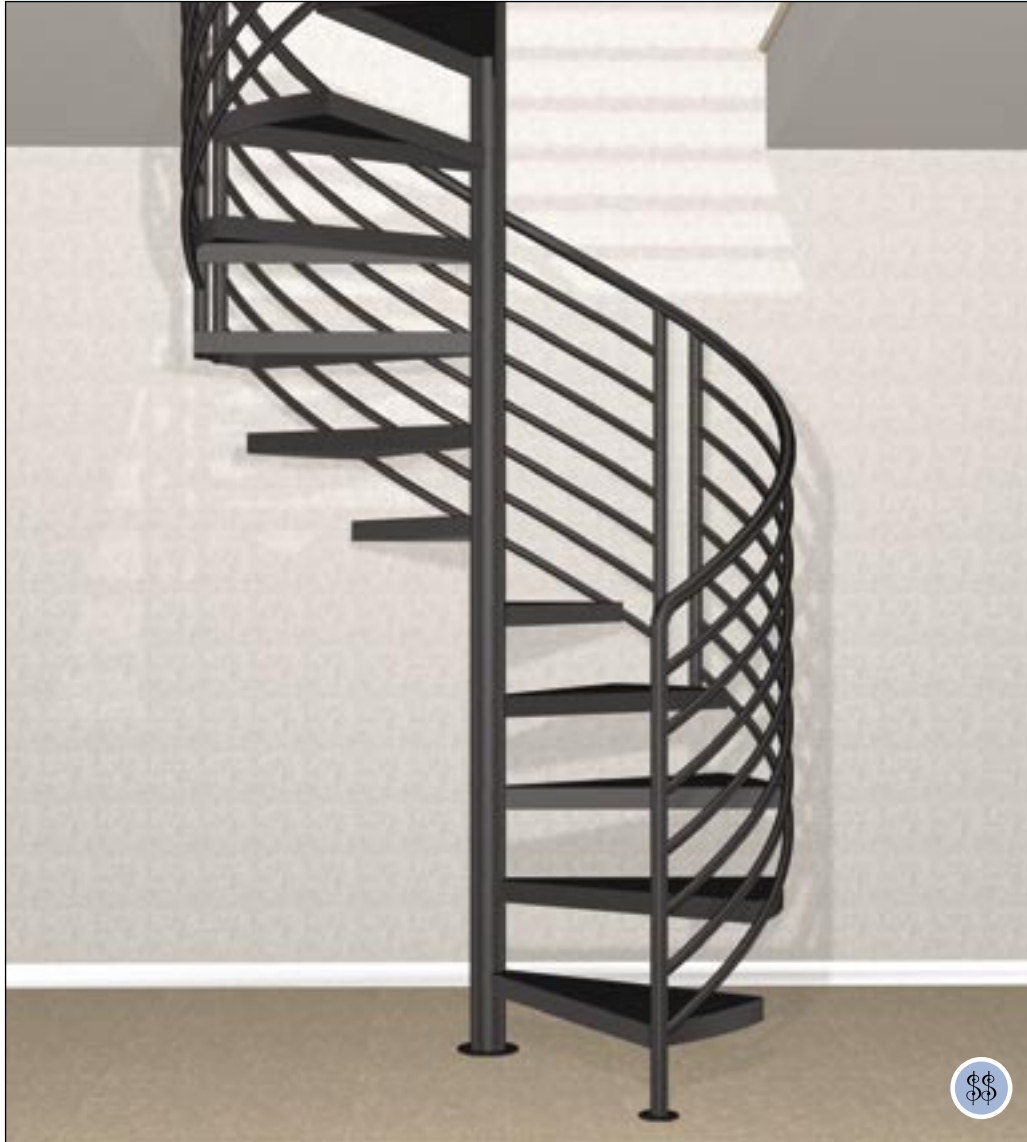


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## **Greenwich Jazz**

The Greenwich Jazz stair retains the artistic horizontal sweep of the Soho, differing in the bottom detail. Ending on a staccato beat, the horizontal finishes directly into a vertical end post.

Model number: DI54

Handrail: Round painted steel tube

Panels: Round painted steel tube

*Shown with options:*

Treads: Painted smooth pan

Paint color: Dark pewter

*Round horizontal tubes join to the vertical end post at the finish.*



Matching balcony railing is available. Balcony railing surrounds the stairwell opening or encloses the balcony area. *For more info about platform styles or platform and balcony railings, see the Order Guide at the end of this section.*

# SPIRAL STAIRS

## Maui Sunburst

Bright bursts of energy lead the way with sunburst panels on alternating treads. These vivid laser cut panels are welded to round balusters for attachment to the round steel handrail. Pairs of round mid balusters create a sleek symmetry.

Model number: D464

Handrail: Round painted steel tube

Balusters: 10190 (steel) or 10272 (stainless)  
Also available in brass.  
Please inquire.

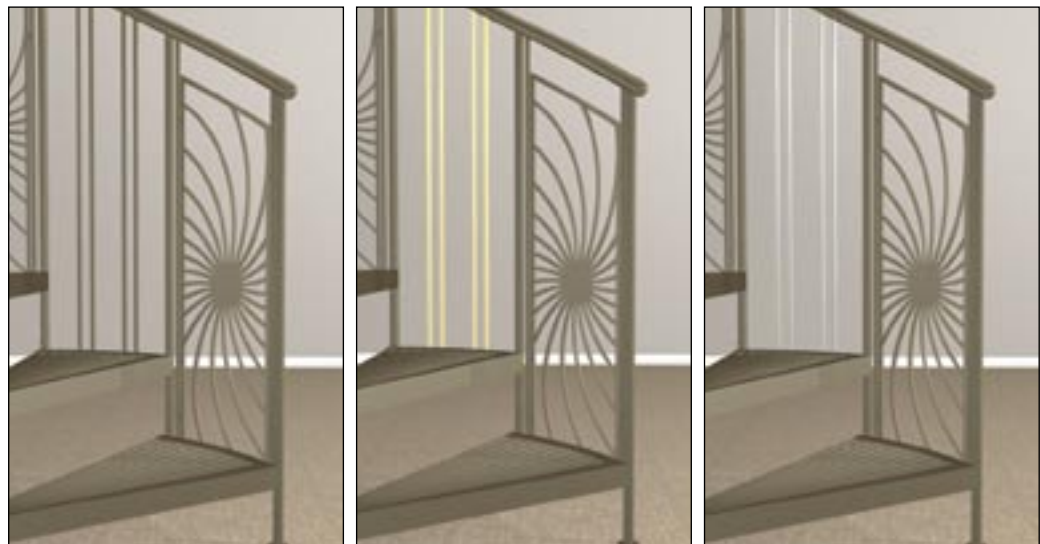
Panels: 10710

Shown with options:

Treads: Radial grate

Paint color: Dark bronze

*Laser cut sunburst panels are made-to-order for each spiral stair. Round mid balusters are available in steel, brass, or stainless.*



Please inquire about using aluminum for your exterior spiral stair.



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## Sanibel Sunrise

Greet each day with a sunrise reaching over the waves. Laser cut sunrise and wave panels encompass two treads and are then briefly interrupted by a rainfall of round wave balusters. The sunshine and water are complemented by the round main balusters and round steel handrail.

Model number: D465

Handrail: Round painted steel tube

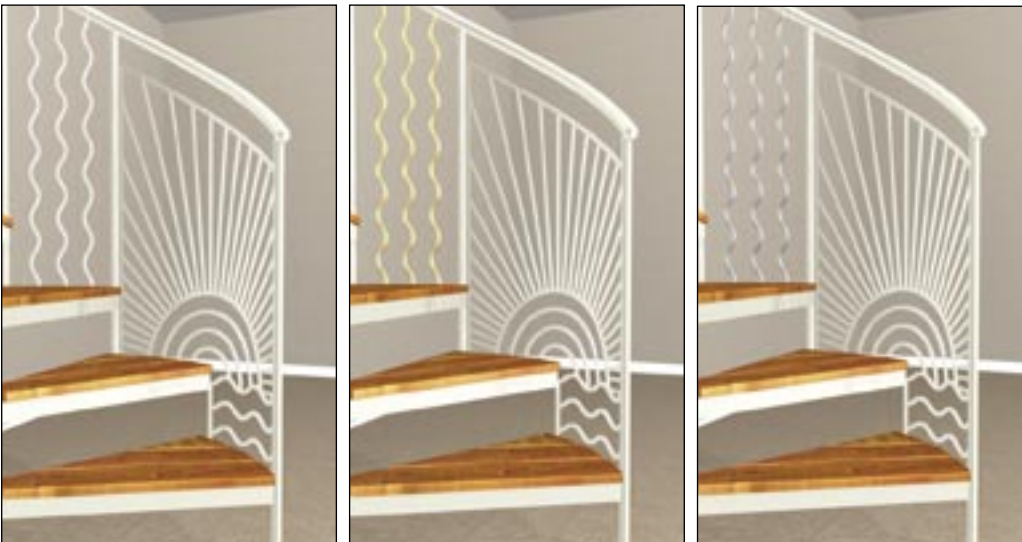
Balusters: 10182 (steel)  
*Also available in stainless or brass. Please inquire.*

Panels: 10700

*Shown with options:*

Balusters: Painted steel  
Treads: Cedar deck  
Paint color: White

*Mid baluster waves are available in steel, brushed stainless and polished brass.*



Most balusters are available in steel, stainless, or brass.

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## Chesapeake Bay

As a coastal lighthouse warmly beckons seafaring folk, the Chesapeake Bay stair invites world-weary travelers home. A channel allowing insertion of square main balusters supports the round handrail. Baluster and handrail options include a mix of polished brass, brushed stainless, and painted steel.

Model number: D224C

Handrail with channel:  
Round brass or round stainless or round painted steel tube

Balusters: 10190 (steel) or 10272 (stainless) Also available in brass. Please inquire.

Shown with options:

Handrail: Round brushed stainless

Balusters: Brushed stainless

Treads: Red oak

Paint color: Midnight blue

Combinations include:

brass handrail with brass mid balusters (224-C1B), brass handrail with painted mid balusters (224-C2B), painted handrail with brass mid balusters (224-C3B), brushed stainless handrail with brushed stainless mid balusters (224-C1S), brushed stainless handrail with painted mid balusters (224-C2S), and painted handrail with brushed stainless mid balusters (224-C3S).



224-C1B



224-C2B



224-C3B



224-C1S



224-C2S



224-C3S



Please inquire about alternative materials and finishes.

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224-N3



224-N2S



224-N2B



224-N1S

## Monterey Bay

Envision the serenity of a moonlit stroll along a warm pacific bay. There are treasures to be found at the water's edge. The round handrail of the Monterey Bay is supported by round main and mid balusters. Like the Chesapeake Bay stair, baluster and handrail options include a mix of polished brass, brushed stainless, and painted steel.

Model number: D224N

Handrail: Round stainless or round painted steel tube

Balusters: 10190 (steel) or 10272 (stainless) Also available in brass. Please inquire.

Shown with options:

Handrail: Round painted steel

Treads: Carpeted (carpet not sold)

Paint color: Dark pewter

Combinations include: painted handrail with painted mid balusters (224-N3), painted handrail and main balusters with brushed stainless mid balusters (224-N2S), painted handrail and main balusters with brass mid balusters (224-N2B), complete stair in brushed stainless (224-N1S).



Carpet grade tread and platform covers are included in the price of every spiral stair. See the other tread and platform cover options at the end of this section.

# SPIRAL STAIRS

## Sausalito

Let your discovery of this splendid playground welcome you home. Sturdy wire mesh panels attached to round steel end posts and handrail seem to echo with the sound of children at play.

Model number: D450

Handrail: Round painted steel tube

Panels: Wire mesh

*Shown with options:*  
Treads: Smooth  
Paint color: Brick

*Wire is welded at every intersection of the mesh and every wire end is welded to either the center of the vertical end posts or the center of the handrail.*



Please inquire about fabrication and shipment of a Set Up (SU) spiral stair for exterior use.



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## Wildwood

By blending contrasting materials we create a vibrant composition. The red oak handrail of the Wildwood is tamed (completely formed and pre-fit) to the shape of the metal spiral stair. Round painted steel main and mid balusters support the handrail, which is usually shipped, knocked down (KD), in two to four pieces (depending on radius and tread quantity). The laminated wood profile 105-3 can be shipped as one continuous piece for a set up Wildwood stair.

Model number: DI05

Handrail: Red oak

Balusters: 10190

*Shown with options:*

Handrail: Red oak

Treads: Red oak

Paint color: White

*Other wood profiles offered are shown on page 24 in this section.*



All Custom Iron Knocked Down (KD) stairs can be completely installed by two people in about two hours. See comparison to kit stairs at the end of this section.

# SPIRAL STAIRS

## Yellowstone

A destination you can choose again and again, the steel main and mid balusters of the Yellowstone spiral are topped with a polished brass profile handrail with enclosed underside.

Model number: D103

Handrail: Polished brass standard railcap profile

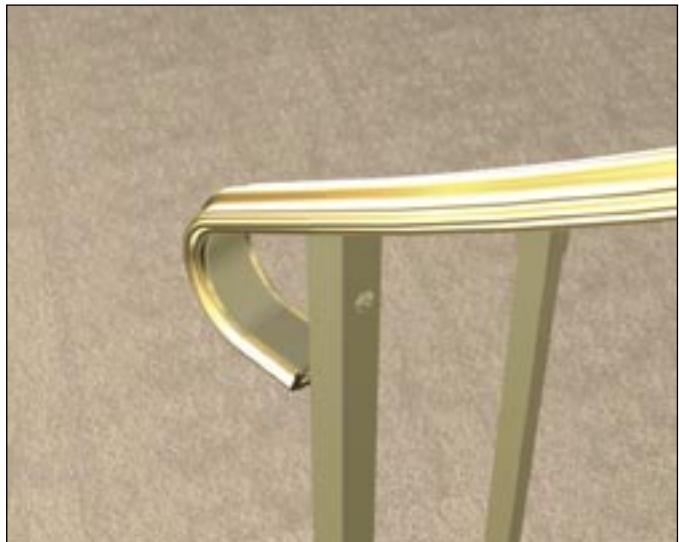
Balusters: I0110

*Shown with options:*

Treads: Red oak edge

Paint color: Terratone

*Brass handrail is enclosed to smooth, flat surface on the underside.*



Most handrails are available in steel, copper, or brass.



# SPIRAL STAIRS

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## Old Faithful

The Old Faithful was the first (and for awhile, the *only*) spiral stair built by Custom Iron. We've made aesthetic, structural, and installation design improvements to it since then, but we are pleased to continue to offer this affordable and simple design. No frills, straightforward, always popular – steel profile handrail with steel main and mid balusters.

Model number: D100

Handrail: Steel standard railcap profile

Balusters: 10110

Treads: Carpet grade

*Shown with standard model options in Black. (Carpet on treads not sold)*

*Painted steel standard railcap profile handrail with square steel main and mid balusters.*



You can create your own stair model by substituting other balusters or panels for those shown. See the *Balusters or Panels tabs* of this catalog.

# TREADS

All parts necessary for a complete stair and matching platform rail are included in the price of a Custom Iron spiral stair. Custom Iron spiral stair models include: carpet grade tread covers, carpet grade platform covers, and a painted center column cap. For an additional cost, other materials are available.

## Tread options

Carpet grade and platform covers are included in the price of each Custom Iron spiral stair. Select from the following styles of tread and platform cover options: Frame only, Red Oak Edge, Hardwood, Cedar Deck, Pan (fill not included), Checkerplate, Radial Grate, Glass Block, Laminated Glass, Customizable Laser-cut, or Smooth.

## Hardwood tread and platform covers

Several different wood species are available for tread and platform covers.

- Red oak
- Hard maple
- Hickory
- White oak
- Beech
- Cherry
- Brazilian cherry
- Walnut
- Quarter sawn white oak

Please inquire about other species of wood not listed here. All wood products provided by Custom Iron are supplied unfinished (natural).



Frame only



Carpet grade



Red Oak Edge



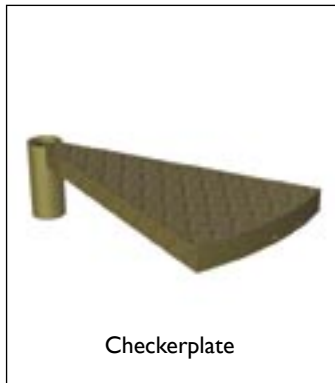
Hardwood



Cedar Deck



Pan



Checkerplate



Radial Grate



Glass Block



Laminated Glass



Laser



Smooth

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# OPTIONS

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Econo Riser



Oak Riser



Scroll Riser



Solid Riser

## Riser options

Risers are attached between the treads of a spiral stair to provide a pass-through barrier between the treads. We offer the following four riser options: Econo, Oak, Scroll, and Solid.

## Finial options

A painted center column cap is included in the price of each Custom Iron spiral stair. You can add an optional finial to top the center column at the platform rail. Additional options are: Hardwood Cap, Basket, Painted, Brass, and Chrome.



Painted Cap



Hardwood Cap



Basket Finial



Painted Finial



Brass Finial



Chrome Finial

# SPIRAL STAIRS

## Closure options

Optional tread bottom closures provide a clean look to the underside of a spiral stair. We offer closures for these tread frames: Hardwood, and Glass Block.

## Wildwood (DI05) alternative wood profiles

Wood handrails for the Wildwood spiral stair are available in four industry standard profiles plus three additional rectangular profiles. All but the rectangular handrail profile are available in the same species listed for wood tread and platform covers (with the exception of quarter sawn white oak). All wood products provided by Custom Iron are supplied unfinished (natural).



Hardwood



Glass Block



6010



6210



6600



6900



R10503



R10515



R10505

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# SPIRAL STAIR INSTALLATION

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**Step 1. Position treads** Position bottom tread and place center column in tread sleeve. • Lower remaining treads onto the column and attach to the tread below it.

Note: Treads are numbered from the top down. It is easier to install the treads on the column, from a corner of the second floor opening.

**Step 2. Fasten platform** Place the platform over the center column and fasten to the floor opening. • Position the treads and column into the final position.

Note: Use 4" bolts with lock washers and nuts if the floor joists are exposed. These are supplied. For other floor systems, you should select and supply an appropriate fastener. For example, use lag bolts if the floor/ceiling is closed.

**Step 3. Plumb & secure column** Level base plates with shims if the floor is uneven at the stair location. Plumb center column. • Fasten the bottom tread to the floor using fasteners selected by you for your system.

**Step 4. Fasten treads** Fasten the lower tread to the tread above it using  $\frac{1}{4}$ " x  $\frac{1}{2}$ " round head screws and lock washers.

Note: The fasteners are supplied with the stair, usually in the same color as the stair.

**Step 5. Lower handrail** Lower the bottom section of the handrail onto the main balusters. • Lower successive sections of handrail into place.

Note: A wood block and hammer may be needed to seat the handrail sleeves onto the balusters.

**Step 5A. Wood handrail option:** Assemble the handrail onto the main balusters starting from the bottom. • While mounting the top section of the handrail, glue the two sections and connect with the hanger bolt. • Install the star nut assembly through the 1" access hole and tighten with a hammer and flathead screwdriver.

**Step 6. Fasten metal handrail sections** Fasten the handrail sections to each other and to the main balusters using  $\frac{1}{4}$ " x  $\frac{1}{2}$ " round head screws and lock washers.

Note: The fasteners are supplied with the stair, usually in the same color as the stair.

**Step 7. Inject silicone** For stairs with mid baluster sockets, inject clear silicone into the sockets. • Place mid baluster in socket and fasten to the associated tread.

Note: Inject enough to get a good seal. Remove all excess after mid baluster is inserted.

Note: If using a round tube handrail and round mid balusters, you may need to use a center punch to dampen vibration. Tap the punch at a point on the handrail about  $\frac{1}{8}$ " away from the mid baluster.

**Step 8. Insert mid baluster** into handrail socket. • When applicable, place spacer on baluster stud between baluster and tread. • Fasten baluster with 10-24 flange nut.

**Step 9. Align the wood tread covers** with the tread cover frame and touching the balusters. • Using #9 x 1" buglehead "grippit" screw after drilling a  $\frac{7}{64}$ " diameter pilot hole.

Note: Wood treads should be finished before installation.

**Step 10. Lower the platform cover** onto the platform frame so the cover is flush with the edges of the frame. • Use 9 #8 x 1" wood screws to mount the platform frame.

**Step 11. Install level rail panel** into place. • Drill a  $\frac{3}{8}$ " diameter hole in the support baluster for the spacers and hardware for assembly. • Mount to the wall support. (Mounting hardware selected by you.)

**Note:** These instructions are meant as a guideline. Your site conditions may dictate variations to these instructions.



Step 1



Step 2



Step 3



Step 4



Step 5



Step 5A



Step 6



Step 7



Step 8



Step 9



Step 10



Step 11



# CI VS KIT STAIRS

## ■ CUSTOM IRON SPIRAL STAIRS (KD STAIRS) VS. COMPETITION (KIT STAIRS)

	Ours	Kit stairs
<b>INCLUDED IN BASE PRICE</b>		
Center column sleeves that are custom cut and don't require measuring, adjusting, or set screws	Yes	No
Platform	Yes	No
Platform railing	Yes	No
Mid (intermediate) balusters	Yes	No
Enclosed tread ends standard on all models	Yes	Rarely
<b>CONSTRUCTION</b>		
Custom built to your specifications	Yes	No
Stairway completely pre-assembled at the factory	Yes	No
Handrail made of plastic tubing	Never	Standard
Handrail is pre-formed and pre-fitted	Yes	No
Mid balusters pre-cut to required length	Yes	No
<b>INSTALLATION</b>		
On site fabrication required	No	Yes
Handrail can be installed without drilling holes	Yes	No
Balusters can be installed without drilling holes	Yes	No
Mid balusters can be installed without drilling holes	Yes	No
Installation requires less than 25 fasteners	Usually	No
Installation requires less than 100 fasteners	Yes	No
Installation requires less than 150 fasteners	Yes	Rarely
Installation completed by 2 people in 2 HOURS	Yes	No Way!
<b>STAIR SELECTION</b>		
15 plus standard models to choose from	Yes	No
All models have options for exterior use	Yes	No
Over 20 paint colors to choose from	Yes	No
Custom color matching	Yes	Rarely
<b>OPTIONS AVAILABLE</b>		
Tread and platform covers in hardwood and metal	Yes	Not always
Decorative risers between treads	Yes	Rarely
Fully enclosed bottom treads	Yes	Rarely
Selection of more than 100 balusters for customization	Yes	No
Decorative panels	Yes	No
Dream It. Build It.™ design service	Yes	No
Matching creative metalwork (gates, door guards, furniture)	Yes	No

■ EXPERIENCE THE CUSTOM IRON DIFFERENCE

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