Challenge:

How to fabricate one-of-a-kind spiral staircase rails, which are tricky to form flawlessly?

TSM Solution:

Most spiral staircase manufacturers are limited in scope to only making rails that will fit a prepackaged stair measurement or forming the spiral rails at the jobsite. TSM does not make stairs, only the rails themselves, but we can make them to fit any unusual application. These beautiful ellipses were made in our factory strictly from plans supplied by the contractor, and they fit perfectly when they arrived.





Architect: Lawton Umemura Architects Bright Finish Brass 2" O.D. One-Line Floor Mounted Rail (51mm) Model # U-200-1/BB





Civic Center Station Los Angeles, California Architect: Arthur Erickson Satin Finish Type 304 Stainless Steel Barrier Railing 12" O.D. x .25" (305x6.4mm), Posts 2" x 6" x .120" (51x152x3mm) Model #GRD-842



Fundadores Station Monterrey, Mexico

Architect: Albuerne & Associates

Parapet Rail Model # GRD-156 Gate Model # GRD-604

Satin Finish Type 304 Stainless Steel

Parapet Rail: 1.9" O.D. (48mm) with Welded Dome Cap

Brackets & Posts 2" x 1/4" Flat Bar (51x6.4mm)

Crosspieces 5/8" O.D. (16mm); Barrel Hinges

Gate: Frame 2" O.D. x .120" (51x3mm)

Side Mounted Handrail 1.9" (48mm) with Welded Dome Cap

End Post 4" O.D. x .120" (102x3mm) with Welded Dome Cap

Challence: How to attach the heavy, 7' long (2134mm) gates to the posts?

TSM Solution:

The length of these custom gates required heavy-duty hinges that were not commercially available and had to be designed and fabricated by TSM. TSM has since then provided these hinges for several other projects.



Civic Center Subway Station

Los Angeles, California

Architect: Arthur Erickson Satin Finish Type 304 Stainless Steel Railing Top Line and Half-Circle End, 1.9" O.D (48mm) Posts 11/2" x 1" (38x25mm); Centerline Rail 3" O.D. (76mm) with Light Housing Welded to Posts and Welded Dome Cap Model # GRD-896



Satin Finish Type 304 Stainless Steel Bench at Left: Tubing 8" O.D. x .120" (203x3mm), Posts 2½" x .120" (64x3mm) Curved Ladder 1" O.D. x .120" (25x3mm) Bench at Right: Tubing 6" O.D. x .120" (152x3mm) and 3" O.D. x .120" (76x3mm) Triangle Posts 1/8" Plate (3mm) Left, Model #GRD-822 Right, Model #GRD-827



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Challenge:

How to produce a consistent finish on 12" diameter stainless steel tubing?

TSM Solution:

It's a well-known fact that the larger diameter of the tubing, the more difficult it is to produce a consistent finish. Furthermore, the bending and handling of this extraordinarily heavy tube had produced many noticeable indentations in the tubing surface. TSM solved this by