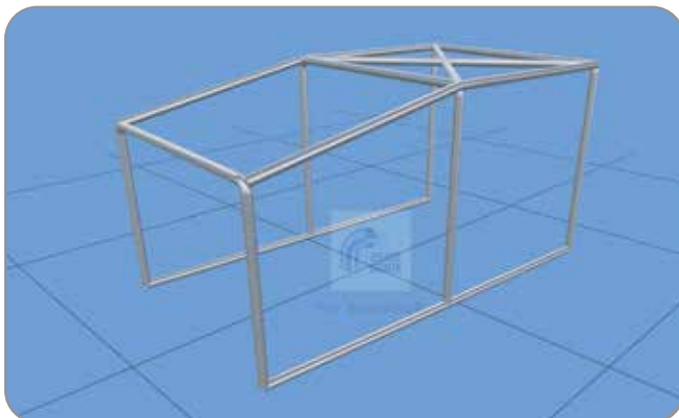


# Bend Genie Bending Software



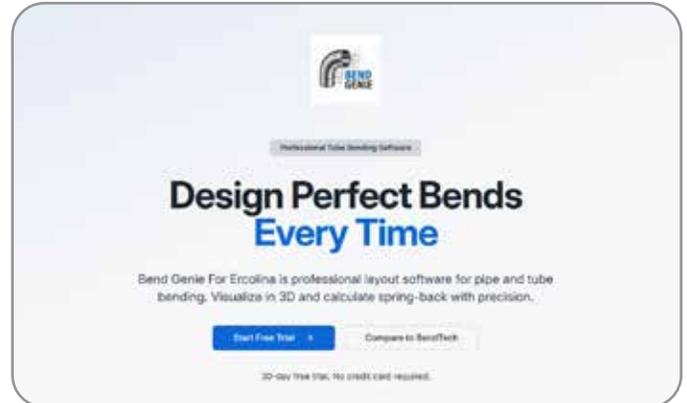
## FEATURES

- Complete Ercolina standard mandrel die library included. App automatically guides you when mandrel tooling is required based on D-factor.
- Displays D-factor (CLR/OD ratio), predicted ovality %, and bend quality rating (Excellent/Good/Marginal/Poor) based on your material and tooling selection.
- Pre-loaded with Ercolina, JD Squared, Huth/Ben Pearson, and Baileigh dies. Create your own custom libraries.
- Steel, stainless, aluminum, copper, titanium with yield strength and springback factors built in.
- Fine-tune stretch factors for accurate cut lengths. Material properties factor into all calculations.
- Full 3D visualization for round, square, and rectangular tube profiles with realistic rendering.
- Automatic checks for material, die compatibility, and bend conflicts. Real-time alerts prevent costly mistakes.



### 12-Point Cage

Full 12-point cage for maximum structural integrity



## Everything You Need

From design to production, Bend Genie handles every step of your tube bending workflow.

**FREE 30-DAY TRIAL**

- New AI feature reviews your bend setup and offers optimization suggestions for better results.
- Access from any device - Windows, Mac, tablet, even phone. No installation required.
- All templates included.
- Multi-seat organizations with shared cloud storage and project management.
- Built-in presets for CE40, CE50, CE60, CE70, and CE100 machines.
- Multi-language interface (EN, DE, IT, ES, FR) with USD and EUR pricing.
- 11-step guided walkthrough gets you productive fast. No manual reading required.
- One-click screen sharing with our tech support team. Get help right inside the app - no third-party software needed.



### Assembly Drawing

www.ercolina-usa.com



# Handrail Simulation Samples

## Wall Rail

Material: 1¼" Schedule 40  
 Tooling: 1.660 Pipe R90  
 CLR: 3.5  
 Cal. CLR: 3.550  
 Cut Off Start End: 5.25  
 Cut Off Far End: 5.25

### Shop Instructions:

Cut Length: 132 5/16

A	B	Location	Rotation	Angle	CLR
1	1	4 1/4	0	90	3.5
2	2	17 3/16 Flip	(-90)	32	3.5
4	3	128 1/16	(-90)	90	3.5
3	4	115 1/16	(-90)	32	3.5



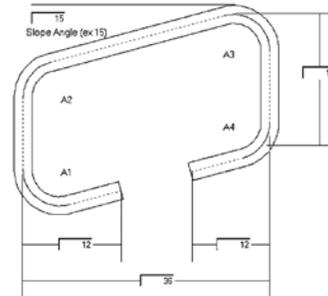
### Design Instructions: Custom Part

Cut Length:

A	Length	Rotation	Angle	Type
1	2.5	0	90	Apex
2	12	-90	32	Apex
3	96	180	32	Apex
4	12	-90	90	Apex
E	2.5			

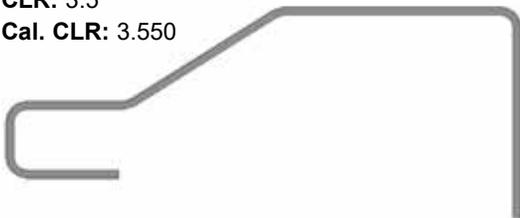
## Bleacher

Material: 1¼" Schedule 40  
 Tooling: 1.660 Pipe R90  
 CLR: 3.5  
 Cal. CLR: 3.550



## Handicap Rail

Material: 1¼" Schedule 40  
 Tooling: 1.660 Pipe R90  
 CLR: 3.5  
 Cal. CLR: 3.550



A	B	Location	Rotation	Angle	CLR
5	1	18 1/2	0	90	3.5
4	2	31	0	90	3.5
3	3	55 15/16	180	32	3.5
2	4	91 7/8	180	32	3.5
1	5	137 5/16	0	90	3.5

### Design Instructions: Custom Part

Cut Length:

A	Length	Rotation	Angle	Type
1	42	0	90	Apex
2	48	0	32	Apex
3	36	0	-32	Apex
4	24	0	90	Apex
5	14	0	90	Apex
E	22			

Location      Rotation      Bend

Bend Number: 1 Location: 18 1/2 Rotation: 0 Bend Angle: 90			
Bend Number: 2 Location: 31 Rotation: 0 Bend Angle: 90			
Bend Number: 3 Location: 55 15/16 Rotation: 180 Bend Angle: 32			
Bend Number: 4 Location: 91 7/8 Rotation: 180 Bend Angle: 32			
Bend Number: 5 Location: 137 5/16 Rotation: 0 Bend Angle: 90			