

# Ideal For Handrail Fabricators



Part# **050KD**  
Capacity: **2½"** Tube  
**2"** Sch. 40 Pipe



Part# **060**  
Capacity: **2"** Tube  
**1½"** Sch. 40 Pipe



Part# **BENSU-SUPER**  
Quickly layout and produce drawings for bending applications!  
Ideal for use with A40-P two axis positioner.

## How can I justify Super Bend-Tech SE for Ercolina®?

Super Bend-Tech SE for Ercolina® saves countless hours spent engineering, on the shop floor and out in the field. Super Bend-Tech SE for Ercolina® greatly decreases scrap allowing your shop greater productivity with the same equipment and man hours. Super Bend-Tech SE for Ercolina® will quickly become one of your best productivity tools. At CML USA, Ercolina®, our core belief is "Do it right the first time." enabling our customers to produce superior products with less overhead, essential in today's competitive marketplace.

## Does Super Bend-Tech SE for Ercolina® provide documentation for the shop floor?

Yes. Super Bend-Tech SE for Ercolina's® setup sheet consists of 2 pages. The first page contains material, tooling, design and shop instructions with 3D graphic of part. The second page provides a step-by-step rendering of tube transitioning through the bend process.

## Features

- Reduce layout cost
- Eliminate unnecessary material scrap
- Previous layout and design experience not required
- Dimension with decimals or fractions, convert inch to metric
- Save part program files for later use
- Information material data base included
- CLR or inside radius (adjustable for each bend)
- Flat layout of cut length & bending locations
- Print includes bending data such as bend angles, CLR or inside radius, rotation angle & bend order
- Verifies sufficient material is available for bending process
- Allows multiple dies to be used on the same part
- Powerful reverse engineering feature

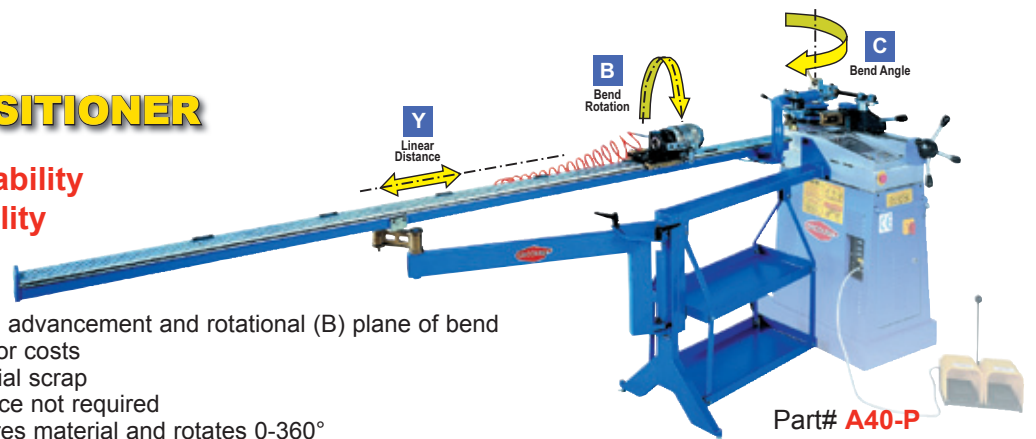
Super Bend-Tech SE for Ercolina®, Part# **BENSU-SUPER**, with Hand Rail Module includes templates specifically for hand railings with a chord window for detailed large radius bending.

## A40-P® TWO AXIS POSITIONER

**Consistency - Repeatability**  
**Increased Profitability**

### Features

- Manually controls accurate linear (Y) advancement and rotational (B) plane of bend
- Reduces operating handling and labor costs
- Helps eliminates unnecessary material scrap
- Previous layout and design experience not required
- Pneumatic work holding chuck secures material and rotates 0-360°
- Chuck activation valve conveniently positioned near operator and machine controls
- Ideal for repetitive parts and left & right mirror images



Part# **A40-P**  
Accommodates parts to 10' length.  
Custom lengths available.

# Typical Handrail Simulation Samples



## Bleacher

Material: 1 1/4" Schedule 40

Tooling: 1.660 Pipe R90

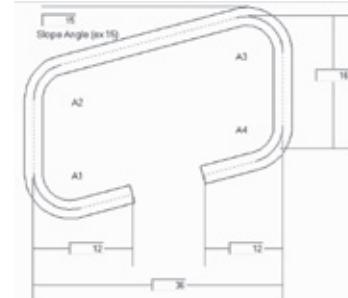
CLR: 3.5

Cal. CLR: 3.550

### Shop Instructions:

Cut Length:

| A | B | Location | Rotation | Angle | CLR |
|---|---|----------|----------|-------|-----|
|---|---|----------|----------|-------|-----|



## Wall Rail

Material: 1 1/4" 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:

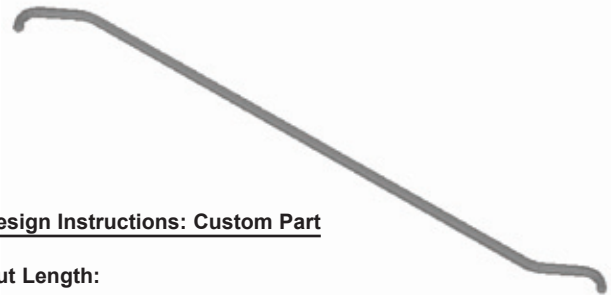
Cut Length: 132 5/16

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



## Handicap Rail

Material: 1 1/4" Schedule 40

Tooling: 1.660 Pipe R90

CLR: 3.5

Cal. CLR: 3.550

### Shop Instructions:

Cut Length: 181 5/16

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

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