

All rolls and secondary tooling are designed and fabricated in-house to your needs, and machinery specifications. We currently have 8 roll form lines. We are also capable of restoring worn or damaged rolls, and can turn rolls with CNC lathe or manual lathe. Our wire 1", 1-1/2" and 2" EDM machines manufacture sweep blocks, straighteners, and section gages. We currently have 8 roll mill lines and can produce sections up to 12" wide.

**Tooling:**

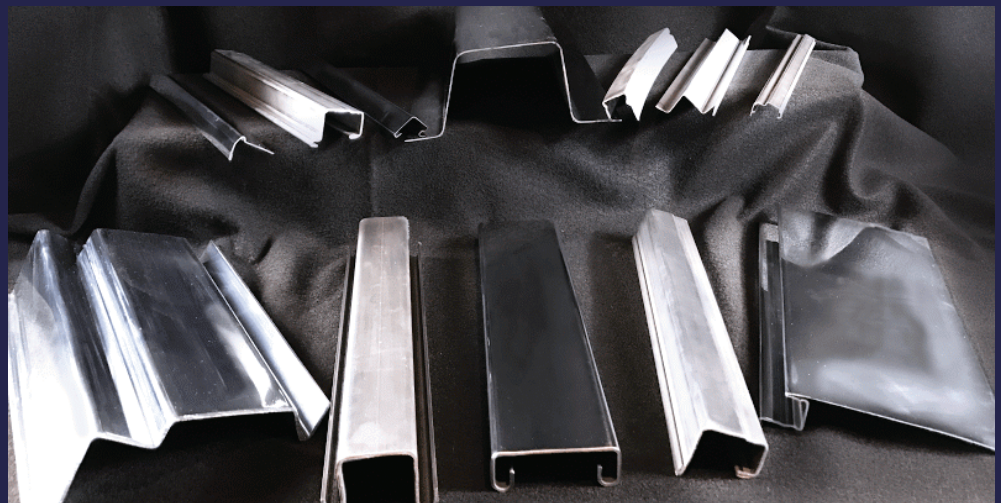
Roll Forms - Custom roll form tooling, inline pre-notch tooling, inline, mid-pierce tooling, inline cut-off tooling, inline sweeping, in-house design  
Stretch benders  
Punch tooling  
10 Roll Mills in-house

**Applications:**

Bright trim, structural, painted trim, welded or fastened assemblies, buffing

**Secondary Operations:**

Punching holes & slots, laser cutting, welding



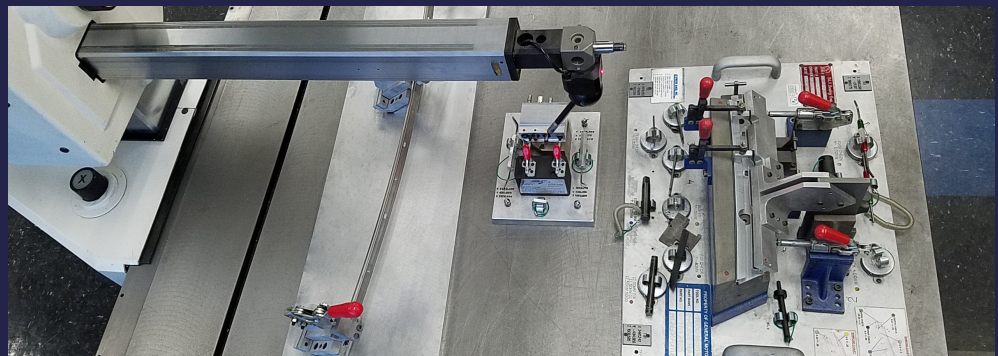
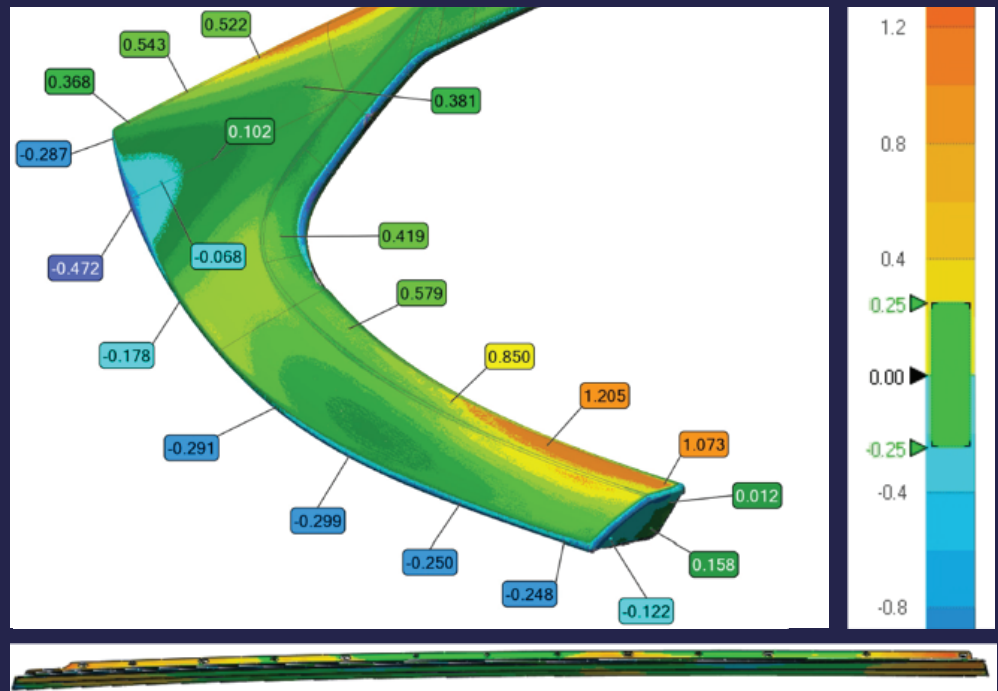
D&N Bending has many applications where only inspection and assembly are required. For these applications we are able to design and build custom equipment to ensure your standards are met. Our design and engineering team are able to not only read multiple software systems, but also design in them and provide a diverse range of machinery and assembly tools.

## Some of our inspection measuring devices:

Zett Mess Coordinate Measuring Machine – equipped with PC DMIS with a 5'x 8"5' measuring surface  
 Romer 75301S – 40" measuring circumference - 7 axis portable scanner equipped with poly work software.

## List of software that we can read and design in:

Unigraphics  
 Cimatron  
 Auto Cad  
 Master Cam  
 Work NC  
 Catia





## Prototype

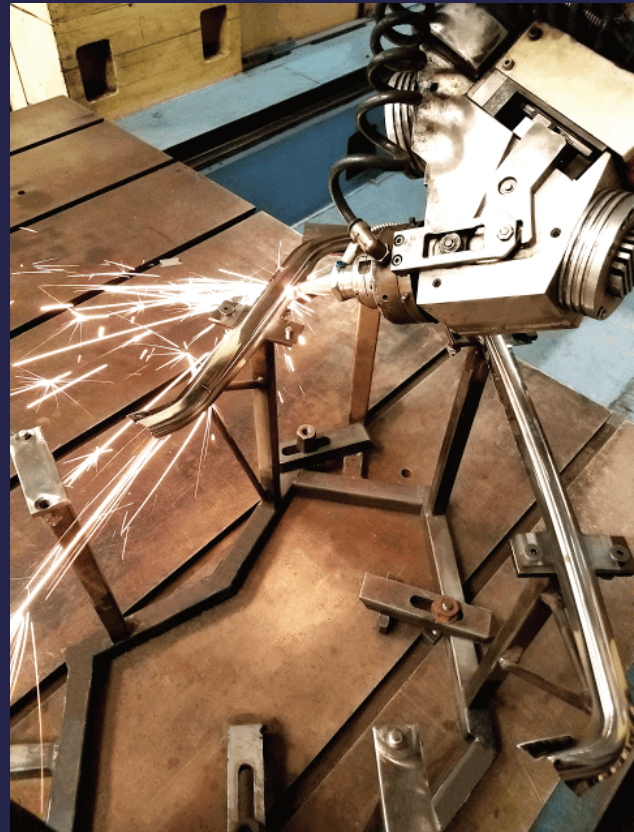
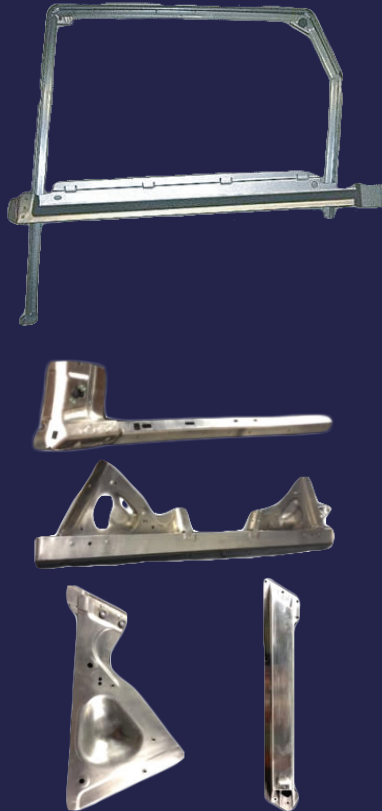
Similar to our production capabilities D&N also is able to supply our customers with the same style tooling that does not necessarily need to withstand a 5 year program and only needs to be capable of producing 10 or 500 parts.

### Examples of prototype parts:

- Door Frames
- Upper Reveals
- Belt moldings and assemblies
- Glass Channel Reinforcements
- Division Posts
- Bumper Beams
- Ditch Moldings
- Various Roof Components

### Applications:

- Stretch , Roller, Form & Reverse Benders
- Weld and assembly fixtures
- CNC and Robotic machining
- Hand Forming devices to fabricate metal components
- Drawbench – Pull through Sections





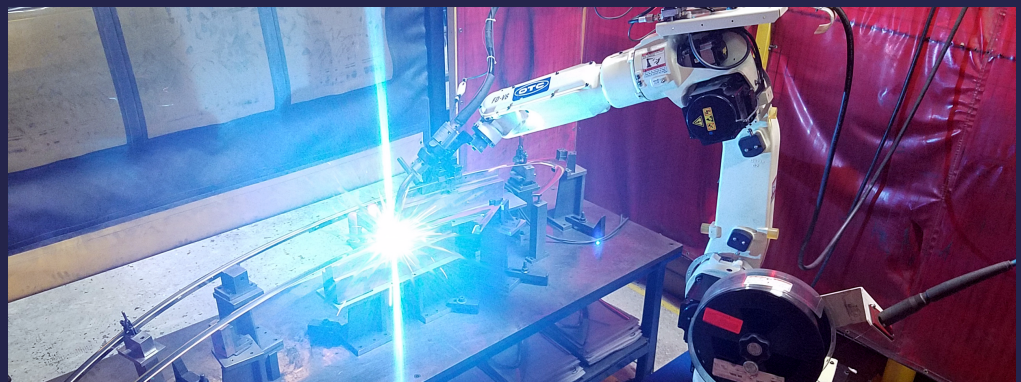
D&N can customize many different types of machinery to run low and high volume production applications that include but not limited to Aluminum extrusion, roll forming components.

**Our capabilities include but are not limited to:**

Stretch , Roller, Form & Reverse Benders  
Production welders and tooling  
CNC and Robotic machining  
Stand alone pierce and trim units  
Fastener installation machines

**Secondary options that often are associated with these applications:**

Chrome plating  
E Coat/ Powder Coat  
Painting  
Anodizing





With the ability to simulate your part during forming we can carefully design and build your tool in house. In addition to our design and build capabilities we can run your program in the prototype, production and service phases while performing all necessary preventative maintenance and rework to your tools.

## Die Design and Build capabilities:

- Line Dies
- Trim Dies
- Form Dies

## Tooling:

New tools, tooling repair and/or modification done in-house

## Secondary Operations:

- Assembly
- Welding
- Fastener installation
- Laser cutting
- Plating
- Painting
- Chrome plating





## Thermal Plastic Extrusions

D&N Bending can design, develop and manufacture the extrusion dies, roll form tools and also secondary tooling for a complete tryout or production part. With 6 different lines ranging from 1.5" to 4.5" diameter barrels D&N can handle any supported or unsupported extrusion.

### Examples:

Bi Laminations  
Co Extrusion  
Compound materials  
Dual an Tri Durometer  
Colored Extrusion Sections.  
Materials we can extrude in house  
are PVC, Rigid PVS, TPO, Alcryn,  
Sunprene and Foam sub straights.

### Secondary Operations:

Flocking, painting, fabrication,  
taping, bending, trimmimg,  
injection molding, sonic welding

