

## Stretch Forming and Bending of Aluminium Extrusions

Stretch Forming of Aluminium is the most accurate, repeatable and quickest of the forming processes. There are a number of benefits to this process, in particular greater control of accuracy achieving closer tolerance, better shape control and surface quality than rolled or drawn parts.



Also efficiency is improved as stretch forming eliminates steps in the manufacturing process. By stretching the metal beyond its elastic limits and wrapping it around the die, imperfections are minimised and the overall structural integrity of the material is maintained.

Stretch forming can be applied to a wide range of sections making the process very flexible to a wide range of applications and industries. It is an ideal solution even for small to medium size batch quantities and can be cost effective on a “one off contract” such as a new architectural project or construction build. Even though tooling costs maybe higher than other forms of bending the piece part is much lower so the overall cost of a part remains competitive for a high quality product.

Parts are produced, where possible in pairs, in one single forming operation so ideal for symmetrical parts made from the same section which in turn reduces the cost.

Also the control parameters can be set to incorporate compression bending to give tighter corner radii – overcoming the limitations of material yield strength.

ABL have invested in new up to date technology incorporating a fully controlled 2 axis forming machine that is capable of 8 axis forming; four axis on the base of the machine and two on each side.

Our investment in modern, efficient machinery provides highly repeatable quality products whilst our special purpose machines will produce high volume components. Prototypes can be produced with a short lead time and we can assist with rapid implementation of design modifications.

Contact us today to learn more about how ABL Components can assist you with stretch forming and bending of aluminium extrusions.

Tel: +(0)44 121 789 8686 or visit their website at:

<http://www.ablcomponents.co.uk/aluminium-extrusion-processing/extrusion-stretch-forming.htm>