

The Ultimate Secret of Acrylic Bending and Moulding



If you look around acrylic is everywhere. From gift items to awards, acrylic companies are producing wonderful products using this material. As new techniques emerge, the process of moulding and bending has also evolved. Let us learn some secret facts behind acrylic moulding and bending and how it is actually done by acrylic companies.

Injection based acrylic moulding

This is one of the most modern yet common methods of manufacturing acrylic parts. It is perfect for manufacturing huge quantity of the same product. Compared to handcrafted or fabricated acrylic injection moulded items are less expensive as they are produced in large quantities. The injection based acrylic moulding machine comprises of four major components. Let us look at them:

- **Base**
It supports electronics as well as all other components that are required to run the machine.
- **Hopper**
It is the area where the plastic material is poured before injection moulding process can begin.
- **Barrel**
Barrel heats the pellet turning them into molten state and allowing pellets to flow through the barrel where the screw inside the barrel injects acrylic into cavities or moulds.
- **Clamping unit**
Clamping unit with its two large plates is responsible for holding the actual mould. During acrylic moulding the clamping unit closes two plates when the machine is ready to inject molten pellets, allowing material to flow into the cavity to create the part. The acrylic is then cooled into a solid.

Acrylic bending

The industrial strip heaters are used to bend the cut sheets if needed. The cut sheet piece will be put few inches above the heat strip for the right amount of time so that it becomes malleable. Once heating is done, the acrylic is bent and is left to cool. Problem may occur if you bend incorrectly or before the material became soft enough. Overheating may also cause irregularities.

We are an acrylic moulding and bending company based out of Dubai. We have served many clients across UAE and if you looking for [a reliable acrylic moulding bending company in Dubai or UAE](#), kindly get in touch and we would be happy to assist you.