

When CNC technology was introduced to the Architectural Cladding industry over 20 years ago, it changed the dynamics of the industry. Fabricators could now meet the growing demand of producing hundreds or even thousands of panels in a short time periods, enabling them to deliver high volumes of consistent and accurate panels; something not possible in the past.

Equipment manufacturers took their woodworking industry derived CNC technology, and built larger tables, added new tooling required for composite panels and cladding materials. They then customized existing CAD/CAM software to accommodate batch panel importing and machine output. These developments quickly made CNC automation an irreplaceable and vital component for fabricators in the industry.

Today, the Architectural Panel Cladding and Curtain Wall market is robust and growing. Its popularity has led to a steady introduction of new and advanced cladding materials that required equally advanced manufacturing technologies to help fabricators meet the growing demand for panel processing in a cost-effective manner while delivering a high quality finished product.

One manufacturer stands alone in matching the pace and dynamics of these industry changes: [Casadei Industria ProComposite Tech](#). They have become known as the most innovative manufacturer of panel processing equipment in the industry. They have rapidly responded to industry needs and have been 'first to market' with many unique designs and fabrication solutions. Casadei accomplished this by establishing itself as a partner to the panel industry, taking input from material manufacturers and top panel fabricators to guide their product development.

Here is a brief timeline of their history and accomplishments.

2007 the Alu Ranger is introduced to the ACM market. Unlike traditional horizontal routers, the Alu Ranger featured a vertical table design that reduced the machines floorspace footprint by half. This design had ergonomic benefits too – the vertical table made it easier for operators to manually load and unload large ACM panels. In addition, space saved by the machine design became available to operators for post fabrication assembly.

2010 The Alu Loader is introduced featuring a patented material handling system that eliminated the arduous task of manually loading large ACM Panels and heavy panels such as HPL and Fiber Cement boards. In addition to mitigating work-related injuries and down time, the panel fabrication work cell could now be reduced from three people to just one single operator! This game changing innovation drastically increased daily throughput and eviscerated labor costs.

2011 The Alu Bender introduction changed panel fabrication by automating the most manual step of panel processing: panel edge finishing. The patented process automatically mills and folds the edges of ACM, delivering a finished hemmed edge at lightning speed. Alu Bender's also have the capability to:

- Finish and bevel the edges of HPL and Fiber Cement.
- Fold and bend aluminum honeycomb panels.
- Automatically apply Luko sealant to seal the edges of Fiber Cement panels.

2015 Casadei introduces the Alu Edger, a modified edge banding machine that could glue and apply aluminum edge banding on aluminum honeycomb panels to protect the exposed edge from natural elements.

2017 Alu Doubler is brought to market specifically to help honeycomb panel fabricators. This dual machine first mills enough material to allow for a double inside fold on aluminum honeycomb, then perfectly folds the edges to give fabricators a clean and finished edge protecting the panels from the natural elements.

Many of the world's top producers of cladding materials such as ACM, Aluminum Honeycomb, Fiber Cement, HPL have officially endorsed Casadei Industria as their preferred vendor for fabrication processing equipment thanks to our innovative, market leading machine designs.

New developments for 2021

For 2021, Casadei will be announcing an exciting new material handling automation system, new design upgrades and strategic partnerships that will further enhance their position in the market as an industry leader offering the world's most advanced automated solutions for the Architectural Cladding Industry.

For more than 30 years, Joseph Machine Company has been synonymous with the "*best in custom fabrication solutions*" for the fenestration and curtainwall industries. In the past few years we have developed a very successful partnership with Casadei Industria ProComposite Tech as we continue to deliver and support this innovative technology in the North American market. We have an extensive showroom featuring demonstration machines and maintain an impressive inventory of tooling and replacement parts. JMC has a committed and qualified service team that delivers 24/7/365 support for the North American market.