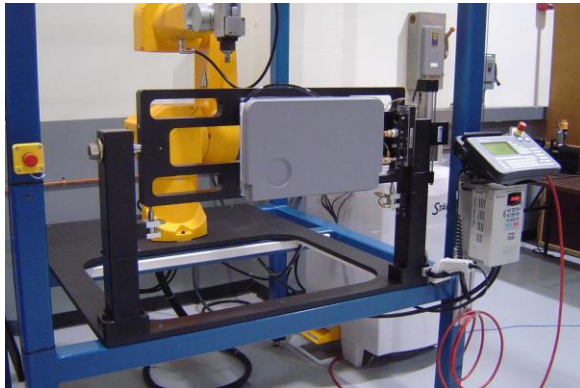


- Programming based on CAD/CAM principles;
- Quick programming, simulation and code generation, all integrated inside one software solution;
- Simple robot program revision and adjustment;



Staubli Robotics Manager, Mike Ouren, commented: *"This is fantastic! Over the past couple of years, it seems more and more clients that are familiar with machine tools are becoming aware of and showing interest in the low cost and high flexibility/speed of 6 DOF manipulators for certain applications that currently use large machine tools; especially with trimming, machining and deburring of soft materials. Offline seems to be the future of many process applications. Robotmaster provides us with an excellent tool to which we can refer customers that need this type of interface."*

Within five months, ARRI designed and delivered a fully operational robotic routing cell to the Weber Aircraft facility. Robotmaster provided Weber with the ability to:

- Program their robots in the same manner as their CNC machines;
- Program all six axes of the robot and take full advantage of the robot architecture;
- Check the programmed trim trajectories for robot joint limits and singularities and offered tools to avoid and correct for any of these issues;
- Decrease programming time.

According to Raul Fernandez, Program Manager at ARRI, *"The trimming paths generated by Robotmaster were good basically on the first try – congratulations!"* The performance of the new system surpassed the existing traditional routing machine in terms of cycle time, cutting quality, footprint, and operating costs.

Confirmed Results:

The robotic routing cell, supported by Robotmaster's CAD/CAM for robots, quickly proved itself in Weber's operations:

- improved the quality of the tray components (higher cut quality and higher precision);
- Reduced the routing cell footprint by more than 65 percent;
- Reduced cycle time by 23 percent;
- Simplified part load/unload procedure for the operators;
- Improved safety and cleanliness of the workplace;
- Streamlined work procedures.

Weber programmed hundreds of parts to the cell, generating off-line code, loading it to the robot and running the parts without any editing or additional intervention. A second robot work cell and additional seats of Robotmaster were added to leverage the benefits across their product line. *"The robotic routing system has really streamlined the process. In every instance, it has exceeded our expectations,"* says Jeff Robinson, Weber's Manager of Engineering Services. At the official opening of the new seat manufacturing facility, Weber Aircraft's president, Michel Labarre, remarked: *"This factory is our showcase, and it is a competitive weapon. We will put it to good use for our customers, for our employees, for our community and for our shareholders."*