Case Study

IT TAKES SPEED TO MAKE SPEED

Problem defined.

It takes reliability and speed to make high speed trains. One of the US Rail Transportation market leaders in the design, manufacture, maintenance and supply of such equipment and components worldwide, is located in Upstate NY. This company is known for their quality products and services and for the speed at which they complete projects. They do all their design and research, testing, production and fine-tuning in one of their two facilities. They need to be as efficient as possible to meet the needs of their international customers like Birmingham Metro Trams (UK), Saudi Arabia and the country of Latvia. To this end, they recently expanded and their Elmira facility spans across 38 acres and has more than 400,000 Sq. Ft. of covered space. It houses CAF USA's Engineering, Production, Testing, and Human Resources. CAF USA has gradually increased its activities in Elmira over the years and has completed important upgrades to the plant. They already had robots but would the addition of more robots help them be faster and more efficient?

Solution in reach.

Enter Applied Robotics. Our sales and applications engineers worked to understand the manufacturing challenges and ask the right questions. Working collaboratively, Applied Robotics was able to discover that they had all the robots they needed but these robots needed to perform multiple tasks. They had mostly material handling of huge parts (for train cars) and a lot of welding. They needed tool changer that could hold up in strength, durability and reliability.

In response, Applied Robotics developed a solution that included its Sigma 5 tool changer and provided custom-built modules, which were manufactured out of stainless steel for strength. The Sigma 5 is among the most versatile and highly repeatable tool changers on the market. In addition, Applied Robotics created an automated solution to hold down their frame components when they resistance weld their frame pieces together. ARI helped to provide the maximum uptime, reliability and speed of manufacturing to help the customer speed their products around the globe.


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