

# ROBOTIC PLASMA CUTTING: DOES THE ALL-IN-ONE SOLUTION EXIST?



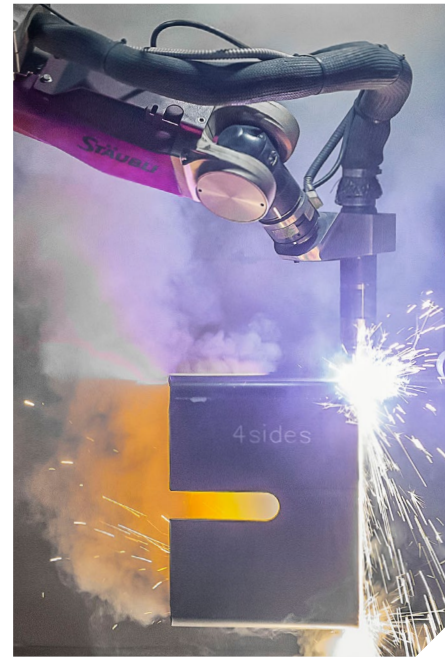
## IS THERE ONE IDEAL APPLICATION FOR ADDRESSING ALL YOUR PROCESSING NEEDS?

We often get asked by steel fabricators if there is one ideal application solution capable of addressing all their processing needs. The most versatile application process in most cases is coping, and the machine capable of being as close to a “all-in-one” solution as possible is a robotic plasma processor – such as the Voortman V807. Combining the full motion freedom of a robot with the automation possibilities and flexibility of thermal plasma cutting and marking results in a processing machine with unrivaled possibilities.



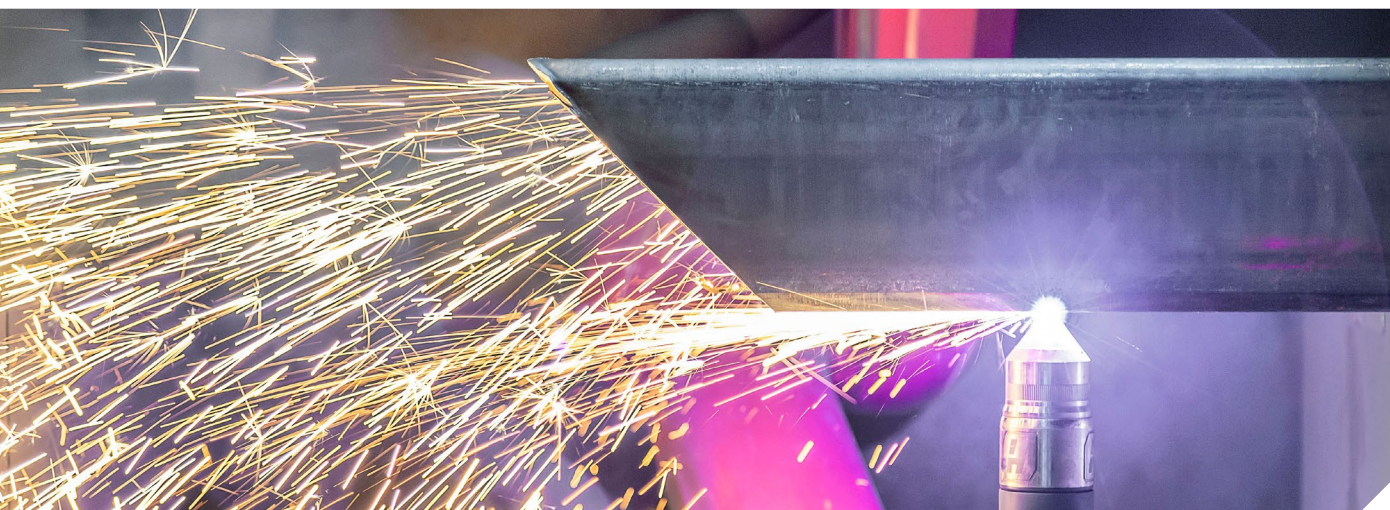
## PUSHING BOUNDARIES

Most structural steel fabricators can benefit from the added possibilities of a plasma cutting robot. The process of designing and engineering has become more sophisticated since the introduction of 3-D modeling. Digital product modeling has been pushing the boundaries of geometrical forms for part production needed to complete the product or building design. Full digital integration of data workflow (from structural analysis to parts assembling) sets even greater demands for flexibility in both the production process and its application.



## FULL FREEDOM IN GEOMETRY WITH A PLASMA CUTTING ROBOT

This is where robotic plasma processing with the Voortman V807 excels, offering freedom to produce whatever geometry you need from the raw stock. Where processes like drilling, milling, sawing and cutting with acetylene could be restricted by operating range or speed, robotic plasma processing offers an efficient replacement capable of handling all of those processes faster, in most cases. Copers, rat holes, bolt holes, slots, notches, bevels, weld preparation and layout marking - The V807 robotic plasma cutting machine can process it all in one pass with the ability to reach all four sides of the material with exceptional speed and accuracy.



## MEETING HIGH QUALITY STANDARDS

While part geometry is becoming more complex, at the same time quality standards are increasing. Digital production data flow eliminates manual intervention from the 3-D modeling software, to work preparation, and finally to the machine, which provides a lower margin of error and increased quality and repeatability. In the V807's case, the elimination of manual intervention also means the robot doesn't require programming. Just import DSTV files and the V807 automatically generates cutting operations by analyzing the part geometry. This is all computed in Voortman's VACAM control software, making it as easy to operate the V807 as any drill or sawing machine.



## ONE-STOP-SHOP

With greater versatility comes greater economic advantages. Robotic plasma cutting offers fabricators hard-to-beat cost savings over separate solutions for drilling, milling, sawing, punching, shearing and marking. Combining all of these processes in one do-it-all machine not only saves you the financial investment of needing multiple machines with individual functions, but also requires much less space in your workshop, since the V807 robotic plasma cutting machine has a very small footprint.



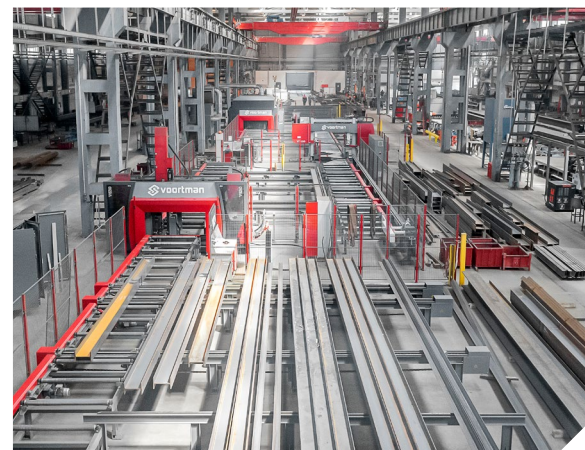


## FUTURE EXPANSION?



The Voortman V807 robotic plasma cutting machine is an ideal foundation for future growth capabilities. The V807 is incredibly versatile and can be part of a complete new layout including roller conveyors and cross-transports connected to other Voortman beam processing machines - also referred to as Multi System Integration, or as a stand-alone processing center. We'll work with you to come up with a solution for any situation you face – including implementation into an existing production line, or outside loading and roller conveyors. The roller-feed measuring system is completely integrated in the machine housing and offers complete freedom for planning and expansion in your workshop.

You can start with a small layout and easily extend the machine with more automated logistics or add complementary machines at a later time as your business grows. Voortman makes machines that can grow with your company seamlessly when extra capacity is needed without increasing labor costs.



## HEAR WHAT OUR CUSTOMERS HAVE ALREADY EXPERIENCED

Many customers worldwide have experienced the dramatic time- and cost savings by adding the robotic plasma cutting process to their production. Watch the video below to hear everything about the benefits of owning a Voortman robotic plasma cutting machine directly from our customers!



**WANT TO DISCUSS YOUR CHALLENGE?  
CHALLENGE US! GET IN TOUCH WITH ONE OF  
OUR EXPERTS!**

**GET IN TOUCH!**

**EXPLORE THE V807**



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