



Vehicle manufacturer improves productivity with new Integrated Plasma Cutting System.

Industry: Specialty vehicle manufacture

Equipment: ProNest®, HPR260XD® Autogas, MicroEDGE® Pro, and ArcGlide®

The company and products

Shandong ENxin Special Vehicle Manufacturing Co., Ltd. is a special-purpose vehicle manufacturer, located in the Jining City, Northern China. Products produced include concrete mixers, dump trucks, semi-trailers, bulk powder goods tankers and other special purpose vehicles.

The problem

To be more competitive and grow their specialty vehicle manufacturing business, ENxin needed to increase productivity. This included review of their current automated cutting machine capabilities, plus review of secondary operations, such as preparation of bolt holes and slots.

The solution

To learn about the latest machinery that could help them, ENxin contacted a local automated machinery manufacturing company; Shandong ShuiPo Welding & Cutting Equipment Manufacture Co., Ltd. also located in Jining City and in business since 2004. ShuiPo specializes in special-purpose welding and cutting equipment used by vehicle, engineering machinery, and structural steel industries.

ShuiPo educated ENxin about the latest plasma cutting machinery; explaining how integrated systems with CAM Software, CNC, THC, and power supply are designed to operate seamlessly together. As a result, the integrated systems are able to deliver superior performance, including optimized productivity and part quality. This includes Rapid Part™ and True Hole® technologies from Hypertherm; a long-time technology supplier to ShuiPo. These technologies deliver up to twice the number of parts per hour from the machine compared to prior technology, plus offer bolt-ready holes and slots using Hypertherm HyPerformance® plasma technology.

The benefits

After viewing a cutting demonstration of the ShuiPo integrated plasma cutting machine, ENxin proceeded with the investment. Also, ENxin evaluated ProNest CAM nesting software performance with the new machine, allowing them to test its numerous features; proving its ease of use, power, and ability to impact part quality and productivity.

Today, ENxin has significantly increased productivity due to faster cut speed and cutting bolt-holes and slots on the plasma machine, instead of performing as a secondary operation. Additionally, operating cost of the system is very efficient due to optimized gas, power, and consumable life management provided by the new integrated plasma cutting system.



- Parts cut using the new integrated plasma cutting system.



- AShuiPo integrated plasma cutting machine being exhibited at a tradeshow in China.