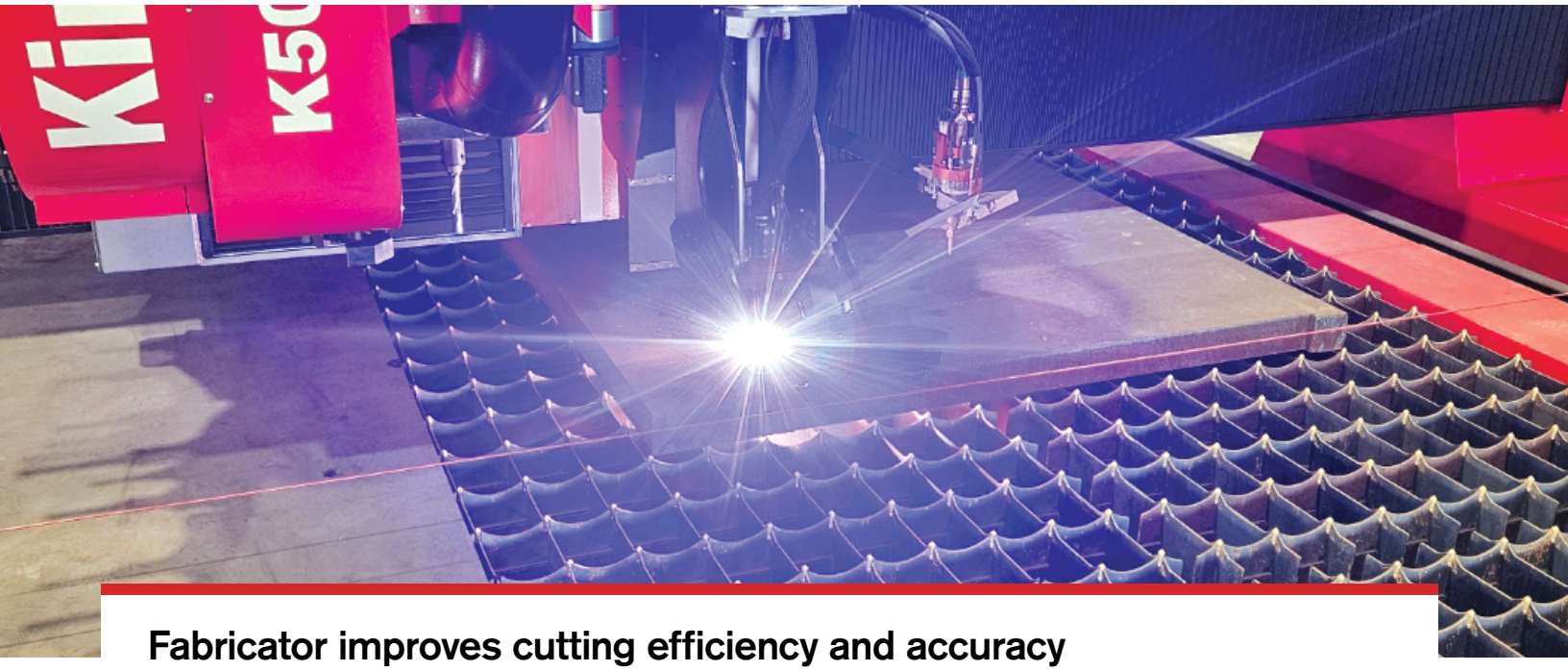
HYPERTHERM®
A Hypertherm Associates Brand

High Steel Structures reduces field issues with precise parts



Fabricator improves cutting efficiency and accuracy with a new end-to-end plasma cutting solution

BUSINESS IMPACT

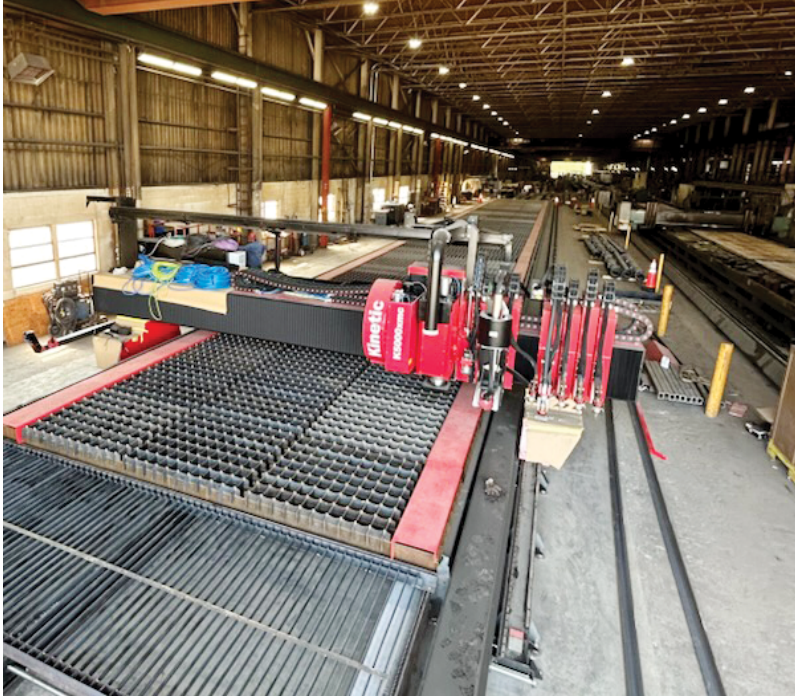
- Improved efficiency and accuracy
- Long-term reliability and high performance
- Rapid return on investment

Operating with 700+ employees across three plants in Pennsylvania, High Steel Structures (HSS) specializes in building steel bridges for highways, pedestrians, and railroads. Serving businesses of all sizes, from private entities to the Federal Highway Administration for road projects, HSS has supplied steel for many noteworthy projects, including the *Arthur Ravenel, Jr. Bridge, Woodrow Wilson Bridge, Gov. Mario M. Cuomo Bridge,* and the HOT Lanes megaprojects in Northern Virginia. Since the 1990s, HSS has undergone major facility expansions and expanded its market, running two to three shifts daily in its fabricator bays.

"Our company has a reputation for ensuring that our products fit together perfectly when they reach the job site, reducing field issues."

— **Barry Miller**, Maintenance and Facilities Director, HSS





CHALLENGE:
High Steel Structures required tight tolerances for precise parts

HSS prides itself on quickly responding to urgent work and providing precise parts, reducing field issues. The company predominantly cuts mild steel plates, including grades 588 and 572, with thicknesses ranging from 0.5 to 3.5 inches. HSS required a cutting system to hold a maximum of 2 degrees of variance for lengthy straight cuts to ensure consistent cut quality and precision.

SOLUTION:
Invest in an advanced plasma cutting solution

HSS upgraded to a new Hypertherm XPR460® plasma cutter, delivering improved accuracy, speed, and cut quality. The XPR460 provides the most powerful, high-definition plasma cutting capability to the KINETIC K5000xmc gantry machine and features a multifunctional setup that includes drilling and marking capabilities. The KINETIC cutting table is 185 feet long by 15 feet wide, making it one of the largest on the East Coast.

ADVANTAGE:
Reduces field issues with parts that fit perfectly

HSS is successful because they handle large projects and are responsive, including urgent work taken with little or no advanced notice. “We are known for our quality and timeliness,” said Maintenance and Facilities Director Barry Miller. “Our company has a reputation for ensuring that our products fit together perfectly when they reach the job site, reducing field issues.” The new plasma cutting solution of the Hypertherm XPR460® and KINETIC K5000xmc improves efficiency and accuracy, enabling HSS to align labor estimates with actual hours worked to within 15 minutes. “We also expect the new cutting setup to provide long-term reliability and high performance with proper maintenance and operator training,” added Mike Slein, Shop Supervisor, HSS.

Learn more about Hypertherm plasma solutions at www.hypertherm.com

Learn more about KINETIC at www.kineticusa.com

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