SureCut™

Hypertherm Associates
Software Group

Rapid Part enables up to a 100% increase in parts per hour

Delivers embedded expertise for XPR and HPR plasma systems



No matter your industry or application, your production floor must cut faster and more efficiently to remain competitive. Hypertherm Associates has collaborated with its global partners for over fifty years to provide our customers with the most significant advances in mechanized plasma cutting technology and automation software to boost production and improve the bottom line.

Key business benefits

Provides more efficient motion

CAM software and select hardware components combine to deliver more efficient motion during the cutting process

Halves production time

Rapid Part provides more efficient motion and skips unnecessary steps, reducing production time by up to 50%

Reduces cycle time

Rapid Part reduces cycle time and produces up to 100% more parts per hour

Optimize your Hypertherm plasma performance with SureCut™ technology

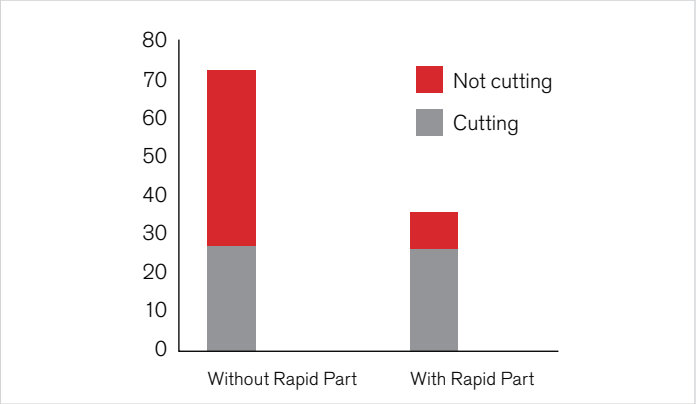
Our exclusive SureCut technology automatically embeds advanced cutting capabilities into our plasma cutting process, delivering improved outcomes, simplifying cutting operations, and reducing operator intervention.

Rapid Part™ dramatically reduces cut cycle time

More than half of production time is often spent moving between cuts—time that could be used to cut faster and increase productivity. Rapid Part uses hardware and software features to reduce cycle time, providing more efficient motion and enabling up to a 100% increase in parts per hour.

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Reduce total production time by half



In this example, non-cutting time (red) is reduced by 80%, lowering the overall production time by 50%.

Note: Testing based on 20.3 cm [8"] flange parts with eight holes each, mild steel, 3.97 mm [5/32"] thickness.

System requirements

- Hypertherm HyPerformance® HPRXD® or XPR® X-Definition® plasma system
- ProNest® with the Collision Avoidance module or CAM software from an authorized partner
- EDGE® Connect or CNC from an authorized partner
- Sensor THC or torch height control from an authorized partner

Three ways Rapid Part reduces cycle time

Rapid Part optimizes three critical aspects of the cutting process and executes them automatically through the CNC.

1. Improves cut path

CAM software optimizes the cut path, minimizing the distance traveled from one cut to the next. It also avoids potential collisions, such as part tip-ups that would otherwise require a time-consuming full head raise (Z-axis) motion to traverse safely.

2. Features rapid Z-axis/vertical motion

In cases where the torch head must be raised fully, the torch® height control features rapid Z-axis/vertical motion capability, including automatic fast-to-slow speed crossover calibration.

3. Gas pre-flow

At the beginning of the initial height sensing or machine motion, Hypertherm HPRXD or XPR plasma system gas consoles feature gas pre-flow functionality, saving valuable time on each pierce.

Rapid Part can cut production time by 50%.

To stay competitive, manufacturers must improve their total cutting process to boost production and minimize operating costs. SureCut technology optimizes Hypertherm plasma performance by automatically embedding advanced cutting capabilities and delivering improved outcomes for our customers.

Learn more about Rapid Part and other SureCut technologies at www.hypertherm.com/SureCut

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Please visit www.hypertherm.com/patents for more details about Hypertherm Associates patent numbers and types.

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