



Waterjet

ProNest® process support

Introduction

Users of ProNest advanced nesting software gain an advantage when able to program for more than one cutting process. Using a single software solution to program for plasma, laser, waterjet, and oxyfuel machines can result in:

- Reduced cost of software ownership (upgrade charges, maintenance fees, etc)
- Reduced employee (programmer) training requirements
- Reduced business risk by making it easy for any employee to program any cutting machine using a single software product
- Increased flexibility allowing NC output for alternate cutting processes during a machine failure

ProNest assists companies that cut parts by providing the above benefits and delivering programming capability for virtually all plasma, laser, waterjet, oxyfuel and punch combination machines, regardless of machine brand or model.

ProNest waterjet process support overview

ProNest offers complete support for the waterjet cutting process, including cutting machines equipped with Hypertherm's HyPrecision™ waterjet pump products, as well as other brands such as OMAX and Flow.

Below is an overview of the waterjet-specific capabilities you'll find in ProNest. Note that some machine manufacturers have their own naming convention for a number of the capabilities listed below. Please contact us with any questions you have concerning machine support not listed.

- Dynamic waterjet feedrate calculator
- Abrasive control
- Collision avoidance
- Common line cutting (array)/advanced
- Nest around material defects
- 2D CAD color selection for waterjet quality
- Waterjet color quality shown on the nest
- Piercing techniques – wiggle, dynamic, stationary, circle

- Part Program Support – NC code integration of advanced commands for external device control
 - Abrasive flow, etc
- Process parameters
 - Automatic and interactive separations for part, plate, and pierce spacing
 - Cutting head – pierce height, pierce time and pierce pressure
 - Material type and thickness-based lead parameters including various lead styles
 - Material type and thickness-based process parameters including advanced kerf and feedrate commands for interior and exterior techniques, etc
 - Part tabbing
 - User defined variables – numerous parameter configurations.
 - Ramping



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One of Hypertherm's long-standing core values is a focus on minimizing our impact on the environment. Doing so is critical to our, and our customers' success. We are always striving to become better environmental stewards; it is a process we care deeply about.