

# Finecut™ WMC500II 3X 3-Axis Micro Waterjet Cutting Tool

Unmatched Precision Cutting from  
Fathom Manufacturing

**Fathom Ithaca's** new Finecut WMC 500II 3X micro waterjet is the world's most advanced waterjet cutting tool. It can hold tighter tolerances than any other waterjet cutting machine in the world.

Built by Finepart Sweden AB, it uses an extremely fine stream of water and garnet to cut even the toughest metals with a 10-micron tolerance and excellent edge quality.

## Features //

- Cutting Width Down to 0.2 mm
- Tolerances as Tight as 10 microns (0.0008 inch)
- Most Precise Tolerance of Any Waterjet Cutting Tool
- Cuts Virtually Any Material

## How It Works //

The micro abrasive waterjet process is a particle erosion based, non-thermal cutting process.

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Whether it's just for one element, or your entire product lifecycle, **Fathom works with you.**

Utilize Fathom's comprehensive suite of 25+ technologies.

Fathom will work with you to identify the BEST technology and processes alongside immersive engineering support. Benefit from:

- Faster Product-to-Market Timelines
- Seamless Project Continuity
- Supplier Consolidation

## Contact Us

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This process can cut virtually all materials, produces an excellent surface finish and does not change the material properties. It can also pierce starting holes in the part and cut complex contours with minute features with radii as small as 0.1 mm.



## Advantages //

- Tight tolerances and excellent surface finish
- Enables narrow parallel cuts and thin sections as small as 0.1 mm
- Cutting doesn't produce adverse mechanical and thermal effects
- Workpiece and fixturing move in unison to create complex geometries



## Applications //

Industries that require parts with complex geometries and fine details, including:

- Aerospace
- Defense
- Life sciences



## Specifications //

SPECIFICATION	DIMENSIONS
Cutting Envelope (X, Y, Z)	500 mm x 500 mm x 80 mm
Fixturing Area	700 mm x 700 mm (max depth 700 mm)
Machine Table Size	900 mm x 900 mm (W x D)