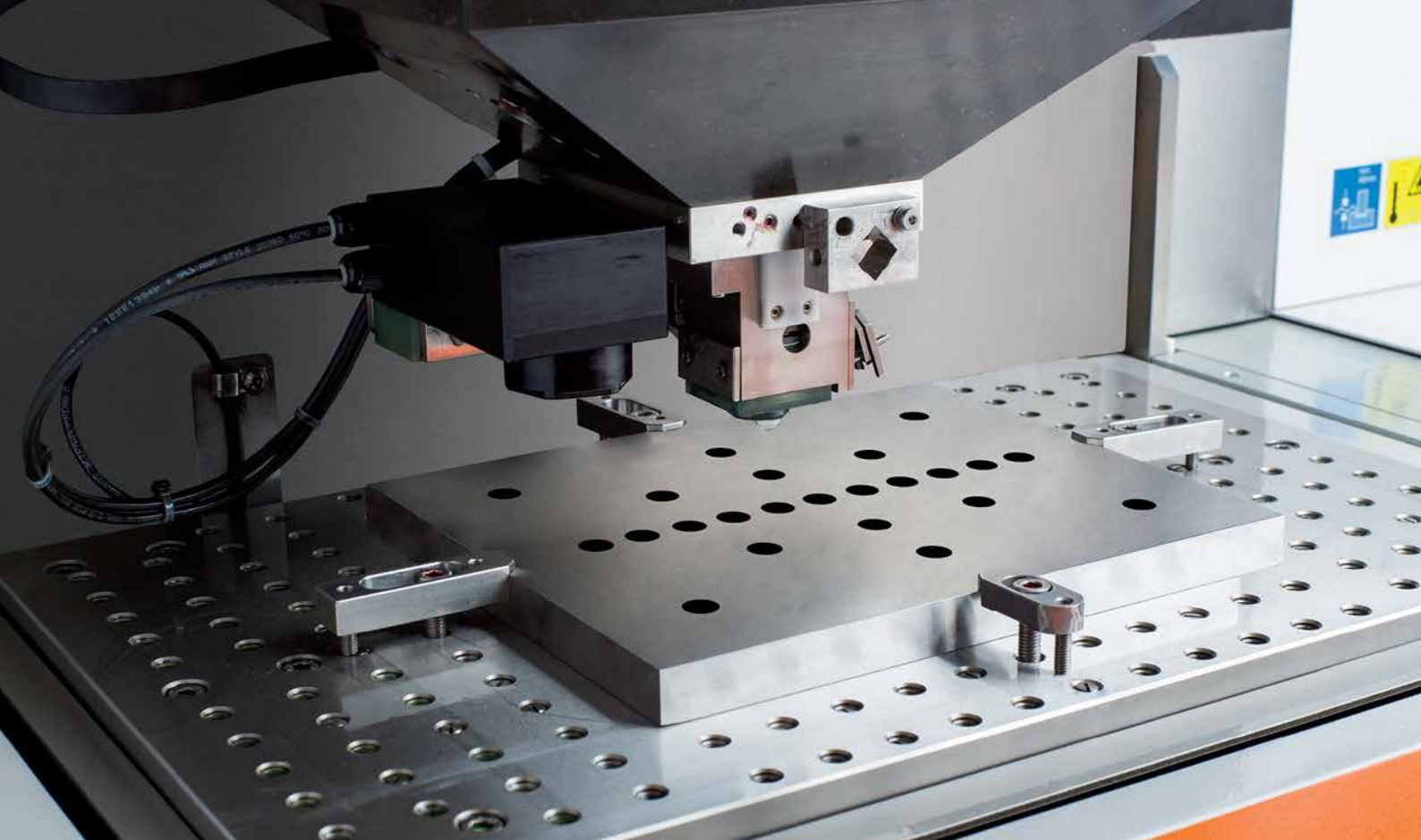


AgieCharmilles

CUT 1000 X

CUT 1000 X OilTech





Accuracy without compromise

# CUT 1000 X CUT 1000 X OilTech

The highly accurate CUT 1000 X and CUT 1000 X OilTech take micro wire-cutting EDM to the extreme, thanks to expert and dedicated machine testing on our production site.

## Your benefits

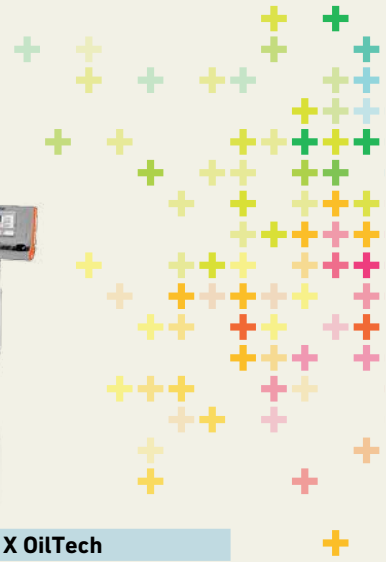
### Extreme precision to reach extraordinary pitch and positioning accuracy

Across a wide variety of industrial applications, manufacturers are under heavy pressure to repeatedly—sometimes over thousands of iterations—machine highly complex micro components at the highest level of precision. As your manufacturing demands become more extreme, the CUT 1000 X and CUT 1000 X OilTech take highly accurate wire cutting to a new extreme by eliminating pitch and positioning errors that can result in rejected parts, higher production costs, damage your brand, and jeopardize your ISO certifications. The result: No compromise in accuracy to constantly achieve  $\pm 1.0 \mu\text{m}$  pitch accuracy over 200 mm by 140 mm, and M-

shape form accuracy of  $\pm 1.0 \mu\text{m}$ . Our high assembly standards and specific calibration tests on our production site are as extreme as the demands you face every day.

### Extreme tolerances for positioning and geometrical controls

Expert geometrical and erosion inspections ensure the results your customers expect. Prior to installation, we machine a large number of holes in a plate, then use a high-precision coordinate measuring machine (CMM) to measure the position of each hole's center. We reload the CMM results into your machine's computer numerical control. Our correction of the CNC guarantees you perfect pitch and positioning accuracy from the very first die or mold you machine.



Technical data		CUT 1000 X	CUT 1000 X OilTech
Travel X, Y, Z	mm (in)	220 x 160 x 100 (8.66 x 6.29 x 3.93)	220 x 160 x 100 (8.66 x 6.29 x 3.93)
Travel U, V	mm (in)	± 40 (1.57)	± 40 (1.57)
Max. part dimensions *	mm (in)	300 x 200 x 80 (11.81 x 7.87 x 3.14)	300 x 200 x 80 (11.81 x 7.87 x 3.14)
Max. part weight	kg (lbs)	35 (77)	35 (77)
Max. taper angle/height	° / mm (in)	3/80 (3.14)	3/80 (3.14)
Wire diameters	mm (in)	0.07 – 0.20 (0.003 – 0.008) 0.02 – 0.05 (0.0008 – 0.002) **	0.07 – 0.20 (0.003 – 0.008) 0.02 – 0.05 (0.0008 – 0.002) **
Wire spool	kg (lbs)	2 x 8 (17.6)	2 x 8 (17.6)
Min. surface roughness (Ra)	µm (µin)	0.05 (2)	0.05 (2)

\* Length x depth x height \*\* Option

### Extreme confidence to deliver perfect quality

Stamping tools and multi-cavity micro molds for production of electronic, information and communications technology (ICT) and automotive, as well as the tiniest components for medtech and watchmaking, are produced with absolute confidence. You—and your customers—experience new benchmarks in micro erosion.

### Extreme accuracy—at your fingertips

#### Savings potential on the setup time and expensive clamping tools

Your applications demand extreme accuracy of positioning, shape and detail, and the CUT 1000 X and CUT 1000 X OilTech are engineered to guarantee those perfect results. The patented monoblock framework, separately arranged main axes, dual measurement system on all axes, consistent separation of the EDM area from heat sources, and submerged working area provide the optimal machining conditions for your extremely demanding micro applications.

Your mastery of quality and accuracy are ensured before you ever take delivery of your CUT 1000 X and CUT 1000 X OilTech, thanks to our thorough measurement and process control of all mechanical components during machine assembly. Plus, you benefit from a wide range of productivity- and quality-enhancing features:

- Exclusive Automatic Wire Changer (AWC) two-wire spool allows you to use larger diameter wire or premium wires for the main cut and then automatically switch to smaller wire for the finishing cut. You will benefit from huge increases in cutting speeds. Plus, your productivity is boosted by fast and reliable wire threading combined with simple and dependable wire disposal, thanks to the integrated wire chopper.
- Highest flexibility to insert urgent machining jobs, thanks to the onboard Job Management System.
- Perfect wire threading, even under the most difficult conditions, with the THREADING-EXPERT, a retractable device driving the wire from the upper guide to the start hole (upper surface). This solution is available in various configurations.
- The Integrated Vision Unit (IVU Advance), with an embedded charge-coupled device (CCD) camera linked to a backlight installed on the lower arm of the machine, allows pre-setting, offers in-process local measurements and scanning of the machined contour. This ensures 100 percent quality results.

## At a glance

We enable our customers to run their businesses efficiently and effectively by offering innovative Milling, EDM, Laser, Spindle, Automation and Tooling solutions. A comprehensive package of Customer Services completes our proposition.

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