

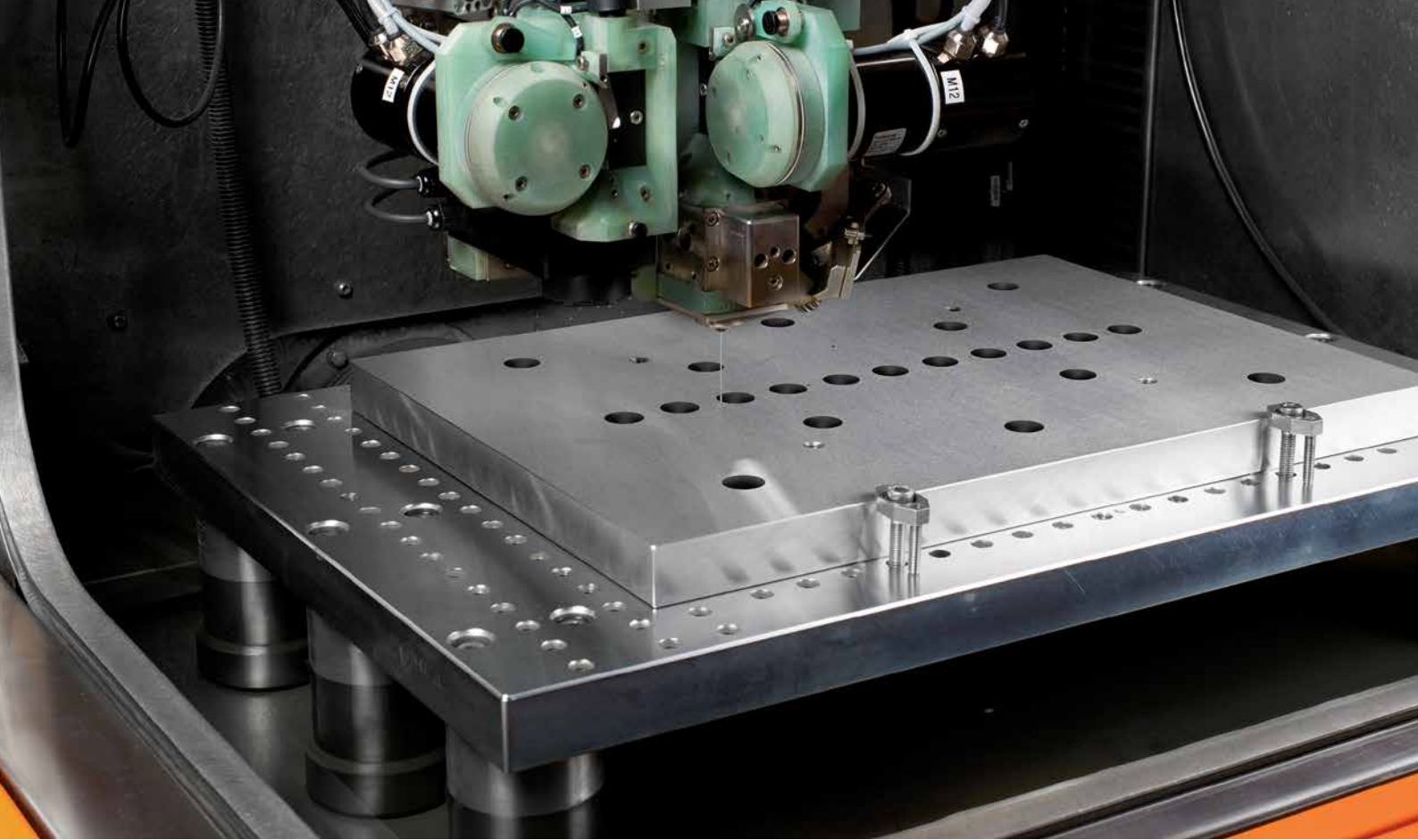
AgieCharmilles

CUT 2000 X

CUT 2000 X OilTech

CUT 3000 X





Accuracy without compromise

# CUT 2000 X CUT 2000 X OilTech CUT 3000 X

The highly accurate CUT 2000 X, CUT 2000 X OilTech and CUT 3000 X take 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 components at the highest level of precision. As your manufacturing demands become more extreme, the CUT 2000 X, CUT 2000 X OilTech and CUT 3000 X 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 certifica-

tions. The result: No compromises in your quest to consistently achieve  $\pm 1.5 \mu\text{m}$  pitch accuracy over 340 mm x 240 mm (460 mm by 320 mm for CUT 3000 X size), and M-shape form accuracy of  $\pm 1.5 \mu\text{m}$ . 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



Technical data		CUT 2000 X / CUT 2000 X OilTech	CUT 3000 X
Travel X, Y, Z	mm (in)	350 x 250 x 256 (13.77 x 9.84 x 10)	500 x 350 x 256 (19.7 x 13.77 x 10)
Travel U, V	mm (in)	± 70 (2.7)	± 70 (2.7)
Max. part dimensions *	mm (in)	750 x 550 x 250 (29.5 x 21.6 x 9.8)	1050 x 650 x 250 (41.3 x 25.6 x 9.8)
Max. part weight	kg (lbs)	200 (440)	400 (880)
Max. taper angle/height	°/mm (in)	30/100 (3.93)	30/100 (3.93)
Wire diameters	mm (in)	0.10 – 0.30 (0.004 – 0.012) 0.05 – 0.07 (0.002 – 0.003) **	0.10 – 0.30 (0.004 – 0.012) 0.05 – 0.07 (0.002 – 0.003) **
Wire spool	kg (lbs)	25 (55)	25 (55)
Min. surface roughness (Ra)	µm (µin)	0.07 (2.7) / 0.05 (2) ***	0.07 (2.7)

\* Length x depth x height \*\* Option \*\*\* CUT 2000 X OilTech

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.

#### Extreme confidence to deliver perfect quality

Stamping tools and multi-cavity molds are produced with absolute confidence for a wide range of specific segments such as electronic components, ICT, automotive, aerospace and many others. You—and your customers—experience new benchmarks in wire-cutting EDM.

#### Extreme accuracy—at your fingertips

**Your applications demand extreme accuracy of positioning, shape and detail, and the CUT 2000 X, CUT 2000 X OilTech and CUT 3000 X are engineered to guarantee those perfect results**

The highly accurate cross table directly supporting the part to be machined, 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 applications.

Your mastery of quality and accuracy are ensured before you ever take delivery of your CUT 2000 X, CUT 2000 X OilTech and CUT 3000 X, 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 back-light 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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