AgieCharmilles

CUT E 350
CUT E 600
GF Machining Solutions: all about you
When all you need is everything, it’s good to know that there is one company that you can count on to deliver complete solutions and services. From world-class electrical discharge machines (EDM), Laser texturing and Additive Manufacturing through to first-class Milling and Spindles, Tooling, Automation and software systems — all backed by unrivalled customer service and support — we, through our AgieCharmilles, Microlution, Mikron Mill, Liechti, Step-Tec and System 3R technologies, help you raise your game and increase your competitive edge.
Experience flexible, intelligent job management, speed-dedicated processes

The CUT E 350/CUT E 600 range puts efficiency at the touch of your finger with a smart, easy-to-use human-machine interface (HMI) and onboard technologies that streamline your job setup, improve your cutting speed, improve your surface finish, protect your valuable workpieces, and ensure your process robustness.
Power your performance

Your business performance is powered by machine performance. Our Intelligent Power Generator (IPG) boasts a wide range of expert technologies helping you to achieve the surface quality and precision your discerning customers demand.

Accelerate your productivity

Time saved is money earned. Onboard speed technology package puts you on the fast track to provide excellent performance at an affordable price.

Experience ergonomy

You’re just one click away from machining perfect punches, dies, molds and parts, thanks to our intelligent, intuitive AC CUT HMI. Included are powerful tools for fast, safe machining preparation to make your machine programmer’s life easier. Industry 4.0 at the tip of your finger.

Benefit from our expertise

You benefit from GF Machining Solutions’ legacy of more than 60 years of EDM expertise. We attach extreme importance to our ability to provide you highly competent application support, Customer Services and business support for your specific field.
Intelligence inside

Expert solutions for your success

You benefit from GF Machining Solutions’ legacy of more than 60 years of EDM expertise. That expertise informs our solutions and triggers your success.
PART EXPRESS
Operators sometimes face unexpected situations. It is very common to be confronted with a change in priorities in the flow of production. With AC CUT HMI, the insertion of an urgent machining job can be done in a simple, rapid and reliable manner and you can resume the previous work exactly where it was interrupted.

AUTO RESTART
If the power goes out, the point and the job name are memorized, allowing a direct re-start of the job after power is restored.

POWER-EXPERT
Wire breakage prevention on parts with variable heights
This smart module continually analyzes the machining conditions and adapts the power according to the geometry modifications. Critical situations such as when the part is approaching or crossing a blind hole, are fully automatically controlled by POWER-EXPERT.

Integrated Collision Protection (ICP) saves you money
Your operator can work with greater confidence during job preparation and execution, because the ICP on the X, Y and Z axes protects sensitive workpieces from damage.

TAPER-EXPERT
Mastery of large tapers
TAPER-EXPERT allows very precise machining of taper with angle varying from 0 to 30°. Thanks to a dedicated measuring cycle, the position of the guides will be defined accurately according to the angle. During machining, the position of the wire will be corrected automatically according to this measuring cycle result. Despite angles up to 30°, the surface quality is close to cylindrical machining.

WIRE-EXPERT
Precision over height
Control of the conicity of the piece compensates for the wire wearing across the height.
Compact layout
For space savings. The compact layout of about four square meters allows efficient integration of the CUT E series into your workshop.

Drop door
For best use of workshop space. The standard drop door system allows easy and convenient access to the working zone.

Filters
For easy operation. We positioned the two filters side by side to make maintenance fast and easy.

Uses 30 percent less floor space compare to previous model
New design, new features based on years of legacy

Solutions to advance your performance and productivity, secure your processes, and accelerate your time to market are engineered into the CUT E 350/CUT E 600 wire-cutting EDM machines

**Thermocut for easy operation**
Your key to successful, efficient threading is preparing the wire properly before threading, thanks to the Thermocut module.

**Wire circuit**
Reliable table wire circuit design ensures a perfect unrolling process that does not disrupt the EDM process during machining.

**Automatic threading**
The automatic threading and rethreading is rapid and useful for all kinds of coated and uncoated and hard and soft brass wires.

**Automatic indexing chuck**
Autoindexer is an integrated rotary indexing unit with continuous 90° capability intended for submerged use in wire EDM machines.

**Remote control**
Designed for one-handed use, the remote control is a standard feature offering ease of use and help in fine tuning workpiece preparation.

**Large spool**
A 25 kg spool option is available for both the CUT E 350 and the CUT E 600 to extend running hours and allow continuous production in combination with:
- 20-liter deionizing bottle
- Two filter cartridges

Save energy: an economic and ecological necessity
In order to control production costs, saving energy has become a priority in many workshops. The Econowatt modules manage the electrical power of the machine so as to never waste energy when the machine is running unattended. When machining is finished or interrupted, the power supply is reduced to the minimum, lower than 1 kW, or completely disconnected depending on the parameters of the machine. Automatic restart is programmed according to a daily schedule corresponding to the working hours of the workshop. The machine is switched on in sufficient time to be thermostabilized when the workshop opens.
GF Machining Solutions quality

Engineered for precision and repeatability

The CUT E series is designed to make it easy for you to accurately machine even large, heavy workpieces. You can count on highly repeatable results.

**T shape**
For accuracy. The T-shaped based frame permits loading of large and heavy work pieces. The compactness and independence of the XY/UV axes guarantee good positioning accuracy and highly repeatable results.

**Large/heavy workpieces**
Thanks to the standard drop door, large and heavy workpieces up to 1,000 kg can be easily loaded and unloaded.
Taper
Precison cuts up to $30^\circ$ over 56 mm are enabled by a compact and flexible mechanical concept.

Glass scales
For repeatability. The glass scales preserve long-term accuracy, require no recalibration, and eliminate classical screw system errors related to backlash and wear.
A new era of functionalities with an ergonomic HMI

With a 19-inch touch screen with pinch-and-pull effect for high detail accuracy, intuitive logic for fast learning, and a new hand box designed for one-hand use, the AC CUT HMI makes fast work of programming multi-cavity and multi-technology jobs.
Area which provides relevant information about consumables, job execution and messages

Area that allows programming, execution and monitoring of the fields

Operator’s panel and keyboard for manual data input (MDI)

19-inch touch screen
The 19-inch touch screen gives you a clear view of the process management. Job preparation, monitoring of the current job, and various function are available in a single view.
Digital IPG generator

Power your performance

Your efficient production is at the heart of the modern IPG. Its onboard technologies boost cutting speed, precision and surface quality to satisfy your customers and put you ahead of your competitors.

Variable height
The POWER-EXPERT module decides the optimal power to send in the wire, and is especially efficient for stepped parts.
- Height: 10-60 mm
- Steel
- AC Cut AH (brass coated) wire
- Five cuts
- Positioning accuracy: ± 3 µm
- Surface roughness: Ra 0.55 µm

Stamping punch
The corner strategy module automatically adjusts the parameters during changes of direction to ensure sharp angles and small radii.
- Height: 60 mm
- Steel
- AC Cut AH (brass coated) wire
- Five cuts
- Contour accuracy: ± 5 µm

Hole plate
- Dimensions: 250 x 150 x 15 mm
- Steel
- AC Cut AH (brass coated) wire
- Five cuts
- Positioning accuracy: ± 3 µm
- Surface roughness: Ra 0.22 µm
The CUT E series demonstrates its versatility by offering the capability to cut cones:

- Up to 30 degrees over 56 mm height
- Steel
- AC Brass 400 (soft) wire
- 5 cuts
- Surface roughness: Ra 0.55 µm

High part:
- Height: 150 mm
- Steel
- AC Cut AH (brass coated) wire
- Six cuts
- Maximum dimensional error TKM: ± 2 µm

Form accuracy:
- Height: 60 mm
- Steel
- AC Cut AH (brass coated) wire
- Five cuts
- Maximum dimensional error TKM: ± 2 µm

Hard metal die:
- Height: 20 mm
- Tungsten carbide
- AC Cut AH (brass coated) wire
- Five cuts
- Surface roughness: Ra 0.17 µm

Stamping die:
- Height: 20 mm
- Steel
- AC Cut AH (brass coated)
- Five cuts
- Clearance: 4 µm
- Surface finish: Ra 0.22 µm

Taper
The CUT E series demonstrates its versatility by offering the capability to cut cones:
- Up to 30 degrees over 56 mm height
- Steel
- AC Brass 400 (soft) wire
- 5 cuts
- Surface roughness: Ra 0.55 µm
Digital IPG generator

Dedicated to accelerate your productivity

Our latest anti-electrolysis IPG generator combined renewed state of the art CNC control is the new base for the next generation GF Machining Solutions machines. The future is here.

Electronic integration
The latest generation of GF Machining Solutions’ power generators allows a digital control of each spark allowing precision and very fine surface quality down to Ra 0.16 µm.
Easy EDM management
EDM EXPERT module generates the best process according to precision and material needs. A large panel of preconfigured technological parameters enables an optimal choice of parameters for your application. Combined with the latest state of the art GF Machining Solutions wires enables excellent performances.

Steel dedicated process range

Speed dedicated process
Focusing on productivity, the integrated processes are saving you time and can reduce cutting time by as much as 18 percent compared to equivalent standard machines.

AC Cut VS
A wire EDM machine has a very wide range of applications and the choice of wire is crucial in order to obtain the best productivity and optimum results in terms of speed, precision and surface finish. The GF Machining Solutions AC Cut VS certified wire accelerates cutting speed that allows to increase machining speed up to 15%.

Digital IPG generator
18% faster

Wires
15% faster

Brass wire
Coated wire
Graphite
Copper
Aluminium

Previous model
CUT E 350/600
AC Cut VS
Standard brass
Machine performance

Outstanding precision and repeatability

This part was machined under the conditions our customers face daily in the stamping industry. It demonstrates the excellent machining capabilities essential for precision parts: remarkable form accuracy, excellent contour precision, exemplary surface quality and outstanding production repeatability—four reasons to buy a CUT E series machine.

TKM
Maximal error (e) calculated by subtracting highest from lowest deviations compared to nominal on dimensional measures A to I.

\[ TKM = \frac{\text{Max}(e_{A-I}) - \text{Min}(e_{A-I})}{2} = \pm 2 \, \mu m \]

Contour accuracy
± 5 µm maximal deviation measured on contour at three heights. Shows imperfections on angles.

Geometrical accuracy
Parallelism

Corner strategy
The corner strategies adjust automatically the machining parameters during changes of direction. Even on the smallest details, high geometrical accuracy is obtained.

To ensure accuracy of:
- Sharp angles
- Small radii
Machine options

Customize your solution

Make your CUT E 350/CUT E 600 solution distinctly yours by customizing it to your specific workshop needs. It’s as easy as choosing from our wide range of options.

Set of wire guides
Set of two closed wire guides in diamond with clearance.
- Available diameters: 0.1, 0.15, 0.2, 0.25, 0.3 mm

Kit for wire diameter 0.100 mm
This set includes all the parts that ensure a good machining reliability when using a wire diameter of 0.1 mm.

Alarm lamp
Stack lamp for the visualization of the equipment status
- Stack three-light unit (green, yellow, red)
- Mounting material

18 kVA external transformer

Additional year parts warranty
This is an extension of the first year warranty. The contract is on the same legal basis as applicable to the first year warranty for the parts only. Consumables and wear parts are excluded. This option must be purchased when the machine is ordered.

AC CAM EASY
Professional license
This option is the updated package from the basic version to professional version.

Taper kit
Option for accurate taper cutting
- One set of large radius guides
- One threading nozzle
- One set of nuts
Available for 0.2 and 0.25 mm diameter wires.

AC CAM EASY
Advanced license
This option is the updated package from the basic version to advanced version.

Automatic indexing chuck
Autoindexer is an integrated rotary indexing unit with continuous 90° capability intended for submerged use in wire EDM machines.

Large wire spools up to 25 kg for more running hours
More value
Equipment availability, productivity and continuous improvement are essential drivers for your business. Therefore your service strategy today is a crucial success factor. GF Machining Solutions Customer Services offers you a modular concept with three levels of support. You choose the services that fit best to your specific needs.

Maintenance program: to minimize maintenance costs and optimize productivity
Our qualified service experts will visit you on a regular basis to examine and adjust your equipment and, when necessary, exchange maintenance parts.

Regular maintenance is the first step to ensuring the full productivity potential of your GF Machining Solutions machine fleet. Armed with detailed, customer-centric checklists, we use state-of-the-art measurement tools to painstakingly inspect and adjust your machines.

Many years of maintenance experience for EDM machines are consolidated in our checklists. Every visit ends with a machining test in order to confirm the successful and satisfying completion of our services.

Maintenance every 2,000 machining hours*

* For optimal functionality, reliability and precision of your equipment, we recommend maintenance every 2,000 machining hours.
Productivity losses amounting to 20 percent can be attributed to not using recommended certified EDM wire. As the world’s largest distributor of EDM wire, we offer the right wire for your application needs: precision, speed, surface quality and workpiece complexity. Our wide selection includes high qualitative brass coated wire with special zinc alloy, copper core wires as well as special wires for specific applications needs.
## Technical data

### Machine

<table>
<thead>
<tr>
<th></th>
<th>CUT E 350</th>
<th>CUT E 600</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions of complete equipment *</td>
<td>mm 1750 x 2470 x 2200</td>
<td>mm 2020 x 2790 x 2320</td>
</tr>
<tr>
<td></td>
<td>in 68.9 x 97.24 x 86.61</td>
<td>in 79.53 x 109.84 x 91.34</td>
</tr>
<tr>
<td>Total weight of equipment without dielectric</td>
<td>kg (lbs) 2525 (5567)</td>
<td>kg (lbs) 4440 (9789)</td>
</tr>
</tbody>
</table>

### Work area

<table>
<thead>
<tr>
<th></th>
<th>CUT E 350</th>
<th>CUT E 600</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part dimensions</td>
<td>mm 820 x 680 x 245</td>
<td>mm 1030 x 800 x 345</td>
</tr>
<tr>
<td></td>
<td>in 32.28 x 26.77 x 9.64</td>
<td>in 40.55 x 31.5 x 13.58</td>
</tr>
<tr>
<td>Max. part weight</td>
<td>kg (lbs) 400 (882)</td>
<td>kg (lbs) 1000 (2205)</td>
</tr>
<tr>
<td>Level of dielectric min./max.</td>
<td>mm (in) 0/240 (0/9.45)</td>
<td>mm (in) 0/380 (0/14.96)</td>
</tr>
</tbody>
</table>

### Air supply

<table>
<thead>
<tr>
<th></th>
<th>CUT E 350</th>
<th>CUT E 600</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pressure</td>
<td>bar 6-7</td>
<td>bar 6-7</td>
</tr>
<tr>
<td>Min. flow</td>
<td>l/min 150 (39.6 gal/min)</td>
<td>l/min 150 (39.6 gal/min)</td>
</tr>
</tbody>
</table>

### Axes

<table>
<thead>
<tr>
<th></th>
<th>CUT E 350</th>
<th>CUT E 600</th>
</tr>
</thead>
<tbody>
<tr>
<td>X, Y, Z Travel</td>
<td>mm 350 x 250 x 250</td>
<td>mm 600 x 400 x 350</td>
</tr>
<tr>
<td></td>
<td>in 13.78 x 9.84 x 9.84</td>
<td>in 23.62 x 15.75 x 13.78</td>
</tr>
<tr>
<td>U, V Travel</td>
<td>mm (in) ± 45 (± 1.77)</td>
<td>mm (in) ± 50 (± 1.97)</td>
</tr>
<tr>
<td>Taper angle/height</td>
<td>°/mm ± 30/56 or ± 25/96</td>
<td>°/in ± 30/2.20 or ± 25/3.78</td>
</tr>
<tr>
<td>X, Y, U, V, Z measurement resolution</td>
<td>µm (µ-inch) 0.1 (3.94)</td>
<td>µm (µ-inch) 0.1 (3.94)</td>
</tr>
<tr>
<td>Speed of axis movement (XYZ)</td>
<td>mm/min (in/min) 0-3000 (0-118.1)</td>
<td>mm/min (in/min) 0-3000 (0-118.1)</td>
</tr>
<tr>
<td>Anti-collision protection for axes</td>
<td>X, Y, Z</td>
<td>X, Y, Z</td>
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</table>

### Dielectric

<table>
<thead>
<tr>
<th></th>
<th>CUT E 350</th>
<th>CUT E 600</th>
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</thead>
<tbody>
<tr>
<td>Type</td>
<td>Deionised water</td>
<td>Deionised water</td>
</tr>
<tr>
<td>Total volume of dielectric</td>
<td>l 760 (200.77 gal)</td>
<td>l 1000 (264.17 gal)</td>
</tr>
<tr>
<td>Filtering cartridges</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Deionization bottle (not standard)</td>
<td>l 1 (0.26 gal)</td>
<td>l 1 (0.26 gal)</td>
</tr>
<tr>
<td>Deionization resin (not standard)</td>
<td>l 20 (5.3 gal)</td>
<td>l 20 (5.3 gal)</td>
</tr>
</tbody>
</table>

* Width x depth x height
### Electrode/Wire

<table>
<thead>
<tr>
<th></th>
<th>mm</th>
<th>(0.20) or (0.25)</th>
<th>(0.008) or (0.010)</th>
<th>cm</th>
<th>(0.1) or (0.3)</th>
<th>(0.004)-(0.012)</th>
<th>mm</th>
<th>(0.20) or (0.25)</th>
<th>(0.008) or (0.010)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard wire guide</td>
<td>mm</td>
<td>(0.20) or (0.25)</td>
<td>(0.008) or (0.010)</td>
<td>cm</td>
<td>(0.1) or (0.3)</td>
<td>(0.004)-(0.012)</td>
<td>mm</td>
<td>(0.20) or (0.25)</td>
<td>(0.008) or (0.010)</td>
</tr>
<tr>
<td>Wire diameter</td>
<td>mm</td>
<td>(0.1)-(0.3)</td>
<td>(0.004)-(0.012)</td>
<td>cm</td>
<td>(0.1)-(0.3)</td>
<td>(0.004)-(0.012)</td>
<td>mm</td>
<td>(0.1)-(0.3)</td>
<td>(0.004)-(0.012)</td>
</tr>
<tr>
<td>(according to configuration equipment)</td>
<td>mm</td>
<td>(0.1)-(0.3)</td>
<td>(0.004)-(0.012)</td>
<td>cm</td>
<td>(0.1)-(0.3)</td>
<td>(0.004)-(0.012)</td>
<td>mm</td>
<td>(0.1)-(0.3)</td>
<td>(0.004)-(0.012)</td>
</tr>
<tr>
<td>Automatic threading for wires</td>
<td>mm</td>
<td>(0.1)-(0.3)</td>
<td>(0.004)-(0.012)</td>
<td>cm</td>
<td>(0.1)-(0.3)</td>
<td>(0.004)-(0.012)</td>
<td>mm</td>
<td>(0.1)-(0.3)</td>
<td>(0.004)-(0.012)</td>
</tr>
<tr>
<td>Min. diameter of pre-hole for automatic threading</td>
<td>mm</td>
<td>(0.2)-(0.3)</td>
<td>(0.008)-(0.012)</td>
<td>cm</td>
<td>(0.2)-(0.3)</td>
<td>(0.008)-(0.012)</td>
<td>mm</td>
<td>(0.2)-(0.3)</td>
<td>(0.008)-(0.012)</td>
</tr>
<tr>
<td>Max. height for automatic threading with 0.25 mm wire (0.010 inch)</td>
<td>mm</td>
<td>220</td>
<td>(5) (JIS P5), (25) (DIN 160)</td>
<td>cm</td>
<td>8.66</td>
<td>(11.02) (JIS P5), (55.11) (DIN 160)</td>
<td>mm</td>
<td>220</td>
<td>(5) (JIS P5), (25) (DIN 160)</td>
</tr>
<tr>
<td>Permissible weights and types of reel</td>
<td>kg</td>
<td>(0.12)/(0.18) (4.72/7.09)</td>
<td>(0.12)/(0.18) (4.72/7.09)</td>
<td>lbs</td>
<td>(0.12)/(0.18) (4.72/7.09)</td>
<td>(0.12)/(0.18) (4.72/7.09)</td>
<td>mm²/min (in²/min)</td>
<td>300 (0.46)</td>
<td>300 (0.46)</td>
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<tr>
<td>Best Ra Tungsten Carbide/Steel</td>
<td>µm (µ-inch)</td>
<td>(0.12)/(0.18) (4.72/7.09)</td>
<td>(0.12)/(0.18) (4.72/7.09)</td>
<td></td>
<td>(0.12)/(0.18) (4.72/7.09)</td>
<td>(0.12)/(0.18) (4.72/7.09)</td>
<td>mm²/min (in²/min)</td>
<td>300 (0.46)</td>
<td>300 (0.46)</td>
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</table>

### Cabinet

<table>
<thead>
<tr>
<th></th>
<th>mm</th>
<th>(0.20) or (0.25)</th>
<th>(0.008) or (0.010)</th>
<th>cm</th>
<th>(0.1) or (0.3)</th>
<th>(0.004)-(0.012)</th>
<th>mm</th>
<th>(0.20) or (0.25)</th>
<th>(0.008) or (0.010)</th>
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<tbody>
<tr>
<td>Three-phase input voltage</td>
<td>V</td>
<td>380/400</td>
<td>50 or 60</td>
<td>Hz</td>
<td>(±10)%</td>
<td>(±10)%</td>
<td>kVA</td>
<td>10</td>
<td>10</td>
</tr>
<tr>
<td>Network frequency</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>ms</td>
<td>4</td>
<td>4</td>
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<tr>
<td>Permissible fluctuations</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Power factor</td>
<td>0.8</td>
<td>0.8</td>
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<tr>
<td>Total installed power</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Screen/Operating system</td>
<td>TFT 19”/Windows 7</td>
<td>TFT 19”/Windows 7</td>
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<tr>
<td>Permissible micro-break</td>
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<td></td>
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<td>CD-ROM/Keyboard</td>
<td>No/No</td>
<td>No/No</td>
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<tr>
<td>Ethernet port</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>Ambient conditions</td>
<td></td>
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<tr>
<td>Ambient conditions</td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td>Power factor</td>
<td>0.8</td>
<td>0.8</td>
</tr>
<tr>
<td>Temperature for optimum accuracy</td>
<td>°C</td>
<td>20 ± 1°C (68 ± 33.8°F)</td>
<td>20 ± 1°C (68 ± 33.8°F)</td>
<td>°F</td>
<td>30 ± 1°F (86 ± 33.8°F)</td>
<td>30 ± 1°F (86 ± 33.8°F)</td>
<td>Ambient conditions</td>
<td></td>
<td></td>
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<tr>
<td>Temperature for operation of the equipment</td>
<td>°C</td>
<td>15-30°C (59-86°F)</td>
<td>15-30°C (59-86°F)</td>
<td>°F</td>
<td>59-86°F</td>
<td>59-86°F</td>
<td>Ambient conditions</td>
<td></td>
<td></td>
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<tr>
<td>Permissible relative humidity</td>
<td>%</td>
<td>40-80%</td>
<td>40-80%</td>
<td>%</td>
<td>40-80%</td>
<td>40-80%</td>
<td>Ambient conditions</td>
<td></td>
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<td>Max. sound emission of the machine</td>
<td>Db(A)</td>
<td>76</td>
<td>76</td>
<td>dB(A)</td>
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<td>Ambient conditions</td>
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<tr>
<td>Thermal stabilization time</td>
<td>h</td>
<td>3</td>
<td>3</td>
<td>h</td>
<td>3</td>
<td>3</td>
<td>Ambient conditions</td>
<td></td>
<td></td>
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<tr>
<td>Level of protection of electrical equipment</td>
<td>IP</td>
<td>43</td>
<td>43</td>
<td>IP</td>
<td>43</td>
<td>43</td>
<td>Ambient conditions</td>
<td></td>
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</table>
GF Machining Solutions

EDM (electrical discharge machining)
AgieCharmilles wire-cutting, die-sinking and hole-drilling machines

For over 60 years we have been at the forefront of every EDM development: designing and refining the EDM process and building machine tools that deliver peerless part accuracies, surface finishes, cutting speeds and process reliability. Today, our AgieCharmilles wire-cutting, die-sinking and hole-drilling machines are recognized throughout the world as the best in the business. Our continuous research and development in digital generator technology, control systems and integrated Automation systems are evidence of our commitment to keeping your EDM operations on the leading edge of technology.

Milling
Mikron MILL S (high-speed Milling), Mikron MILL P (high-performance Milling) and Mikron MILL E (high-efficiency Milling)

Customers operating in the mold, tool and die and precision component manufacturing sectors stake their reputations on being able to quickly and cost-competitively meet their customers’ demands. That’s why they invest in GF Mikron machines. Incorporating the latest and most advanced technologies and premium-performance components, Mikron MILL S, Mikron MILL P and Mikron MILL E machines help you increase your production capabilities and improve your productivity. Designed and built for speed, accuracy and reliability, the machines, like you, are proven performers.

Laser
AgieCharmilles Laser texturing machines

Laser texturing is a fully-digitized surface engineering process that has huge potential. The technology enables precise 2D and 3D textures or engravings to be machined accurately and directly onto complex parts or molds to improve and alter their aesthetic appeal, functionality and performance. The process is infinitely repeatable and offers many distinct environmental and economic advantages over conventional texturing processes.

Laser Additive Manufacturing (AM)
GF Machining Solutions has partnered with EOS, the global leader for high-end AM solutions, to integrate this innovative technology and further develop it into its current solutions to fully benefit the mold industry, by focusing on injection efficiency: optimized cooling design to reduce cycle time, lower energy consumption, higher quality of plastic parts.

Step-Tec Spindles

At the heart of every GF Mikron machining center is high-performance Step-Tec Spindle. Step-Tec Spindles are essential core components of our machining centers. Highly accurate and thermally stable Step-Tec Spindles ensure that our machines can handle everything from heavy-duty roughing to fine-finishing operations.

Customer Services

Operations Support, Machine Support and Business Support

To help you get the most and the best from your machine tools and equipment, we offer three levels of support. Operations Support covers our range of original wear parts and certified consumables (EDM wires, filters, resins, electrodes etc.) to ensure that your machines are performing at the highest levels. Machine Support maximizes, through our best-in-class technical support, preventive services and quality spare parts, your machine tool uptime. Business Support is designed to help you make a real step-change in your productivity and performance with solutions tailored to your specific needs.
At a glance

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

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