GF Machining Solutions

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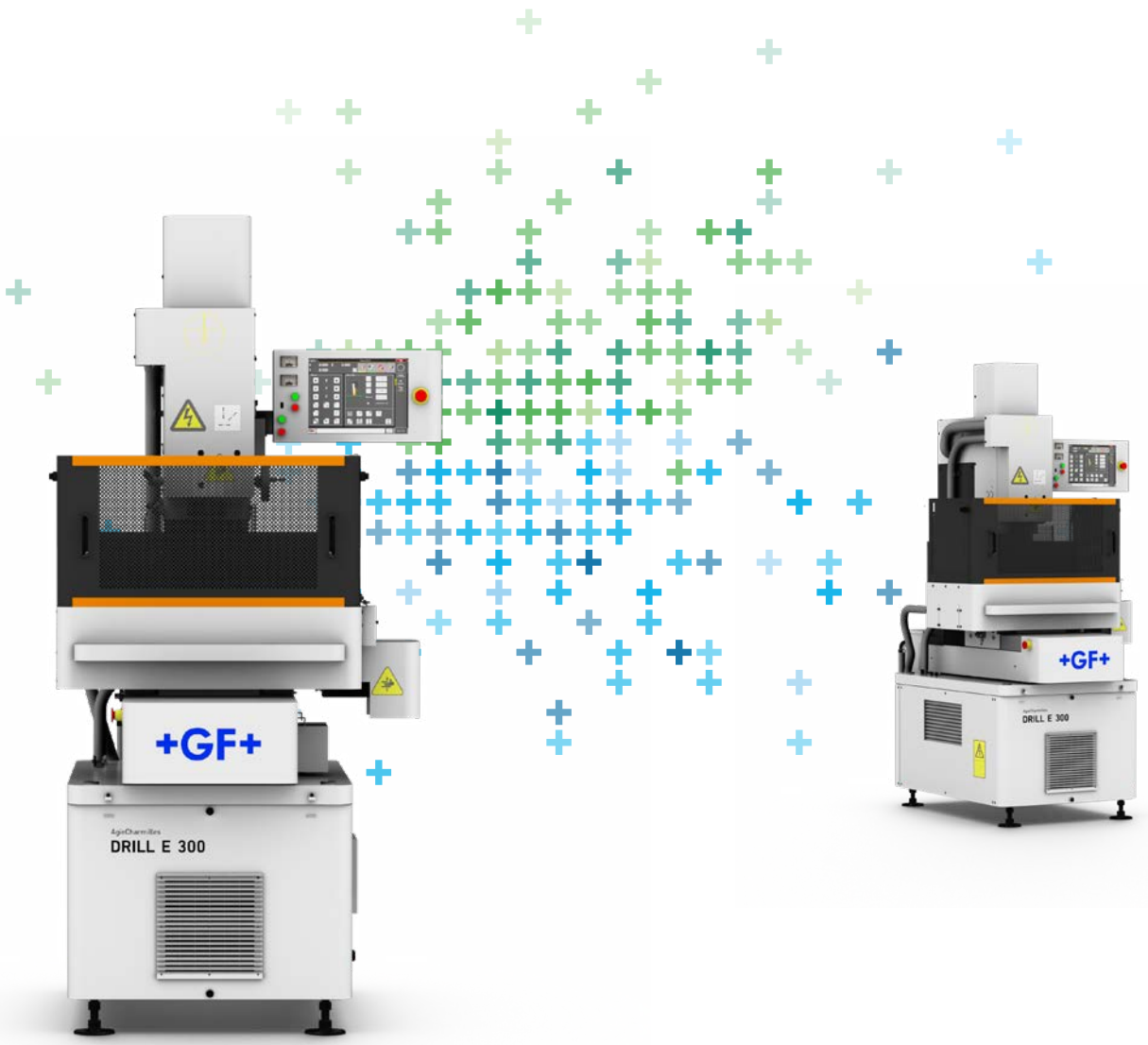
DRILL E 300



Drilling starting holes with GF Machining Solutions

Quick, reliable and powerful

Main functions of the human-machine interface (HMI)

Process optimization

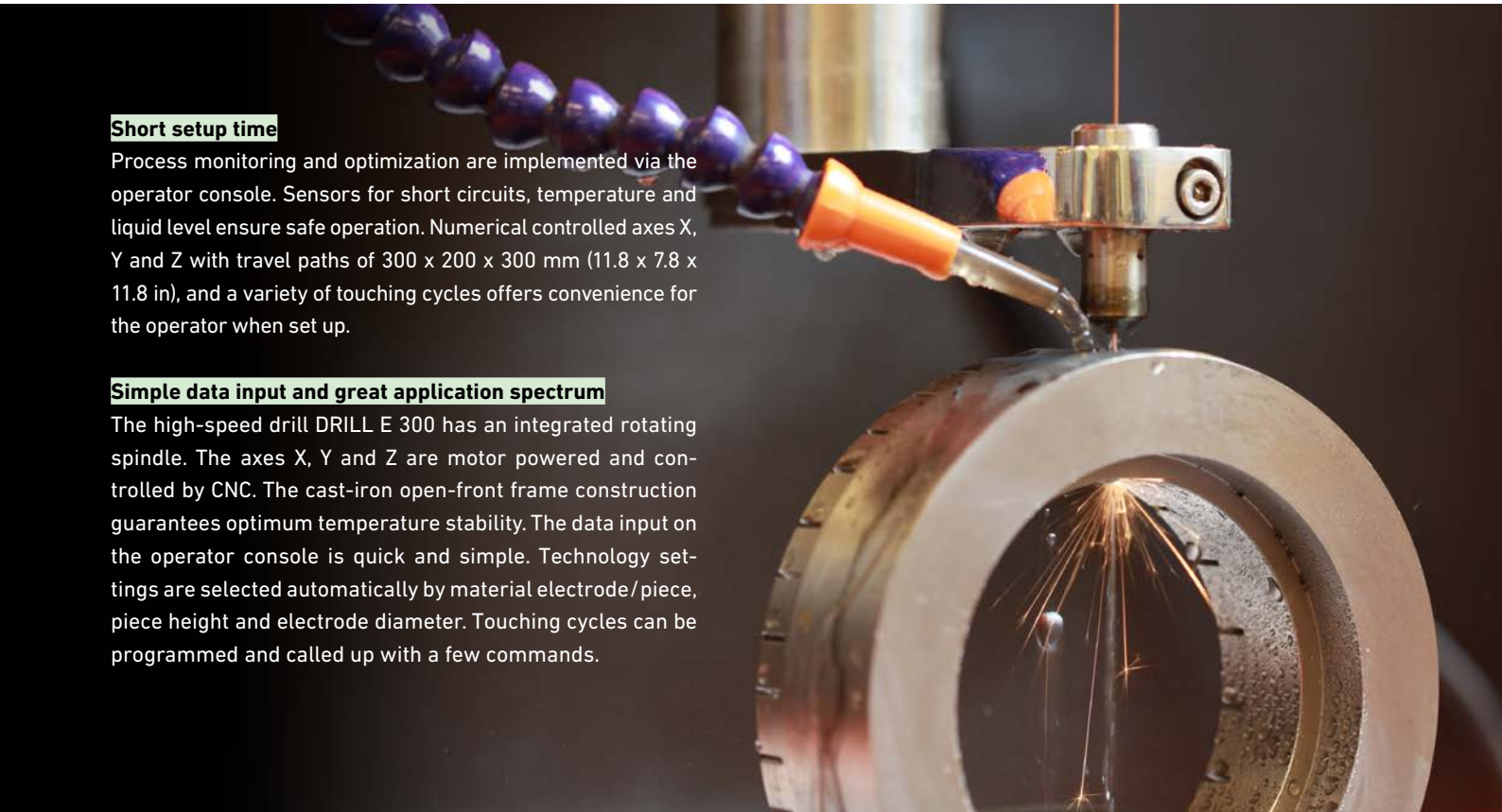
- Display erosion parameters
- Display erosion status
- Display erosion time
- Optimizing technology parameters

Work preparation

- Multi holes, import of position data (ISO, TXT)
- Create, edit and delete job
- Data transfer via LAN and USB

Easy Drill

- Single and multi-hole pattern, array rectangular or circular
- Automatic technology selection according to: piece material and height, electrode material and diameter
- Graphic control and simulation program
- Onboard operating manual
- Multi holes with multi-technologies



Short setup time

Process monitoring and optimization are implemented via the operator console. Sensors for short circuits, temperature and liquid level ensure safe operation. Numerical controlled axes X, Y and Z with travel paths of 300 x 200 x 300 mm (11.8 x 7.8 x 11.8 in), and a variety of touching cycles offers convenience for the operator when set up.

Simple data input and great application spectrum

The high-speed drill DRILL E 300 has an integrated rotating spindle. The axes X, Y and Z are motor powered and controlled by CNC. The cast-iron open-front frame construction guarantees optimum temperature stability. The data input on the operator console is quick and simple. Technology settings are selected automatically by material electrode/piece, piece height and electrode diameter. Touching cycles can be programmed and called up with a few commands.

Fine hole drilling

DRILL E 300 is widely used for drilling starting holes with the electrode range Ø 0.1–3 mm (0.004–0.12 in) and with electrode materials brass, copper and carbide, and workpiece materials steel and carbide. The newly added technologies for electrode Ø 0.1–0.3 mm (0.004–0.012 in) are suitable for drilling fine start holes on lead frames and high-speed stamping molds, etc. DRILL E 300 is a sensible complement to GF Machining Solutions wire cut EDM.

Machine setup

- Automatic and manual axis movement
- Choice of four speeds of axes X, Y, Z: high, middle, low or step by step
- Edge find
- Inside/outside center find
- Corner find

Eroding small holes of various diameters and allowing for different materials and workpiece heights

Technical data		DRILL E 300
Electrode diameter *	mm (in)	0.30 up to 3 (0.012 up to 0.12)
Maximum drilling depth	mm (in)	200 (7.78)
Maximum workpiece weight	kg (lb)	300 (660)
Travel paths of axes X, Y and Z	mm (in)	300 x 200 x 300 (11.8 x 7.8 x 11.8)
Work table size (width x length)	mm (in)	400 x 300 (15.7 x 11.8)
Rotating spindle	rpm	57.5
Travel path of the electrode guide	mm (in)	100 (3.9)
Heavy duty generator	A	30
Dielectric volume	l (us gal)	16 (4.2)
Mains connections	V, Hz	3 x 400, 50/60
Maximum power consumption	kW	5
Display	TFT	Touch screen, 12.1"
Pump operating pressure	bar	70
Machine dimensions	mm (in)	1345 x 940 x 2040 (52.9 x 37 x 80.3)
Total weight of the machine	kg (lbs)	870 (1918)
Options: fine drill holders and guides, filtration system, deionization unit, AC CAM DRILL		

* Option: 0.10, 0.15, 0.20 (0.004, 0.006, 0.008)

GF Machining Solutions

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 services completes our proposition.

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