WIRE EDM FEATURING SPARK TRACK

Author: Mike Onida

Principle

- GF knows where the sparks are.
- We know if the sparks are good or bad. • GF introduced a unique and patent Spark Track generator.

Spark Track generator is able to adjust in real-time the generator spark setting while cutting the work piece. Spark track avoids wire break and creates with I-wire a reduction of wire consumption by 40%. For the first time it is possible to define the surface as we want to have it.



Advantages

• Real-time process.

- No wire break. • Wire saving cost.
- Automatic process no programming needed.

Production boundaries and limits

• The technology is set for 100 mm height maximum.

Disadvantages

• GFMS sells less wire. Investment in new technology may cause a doubt.

Cost

 Wedm CUT P series average 230.000 euro. Spark Track technology 22.000 euro.



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GF Machining Solutions is the partner of choice to successful tool, mold and die makers, and to producers of high-value parts in fast-growing market segments. GF Machining Solutions offers innovative Milling, EDM, Laser texturing, Automation, and Customer Services solutions.

More information:





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Electrical discharge machines, Spindles, Tooling, Automation

Author: Manuel Gómez Marzoa, Bernd Martiné

Principle

brittleness or electrical conductivity.

5-axis Laser machining centers.

Advantages

- Contactless machining on virtually any material. • Tiny tool size. Laser spots smaller than 10 µm are possible.
- High-precision 3D scanning provides uniform results on non-flat surfaces. • Low Cost of Ownership: no wear parts and only a few consumables. • Dedicated CAM suite with specific Laser machining strategies.

- High precision and repeatability. • Excellent quality-to-productivity ratio with ultrashort pulsed Lasers. Automation-ready technology.
- process.

Examples







Disadvantages

• Quality limitations on high aspect ratio features, such as deep slots and • Limited productivity compared to traditional technologies for high volumes of material removal.

Production boundaries and limits

• Sensitivity to material type, initial surface quality and manufacturing

Cost

• The starting price for a GF Laser machining center is around €280 000. Sustainable technology: low energy consumption and no wear parts.

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