

Mikron ~ "High Speed, High Accuracy"

HSM 500

Electrodes Graphite/Copper



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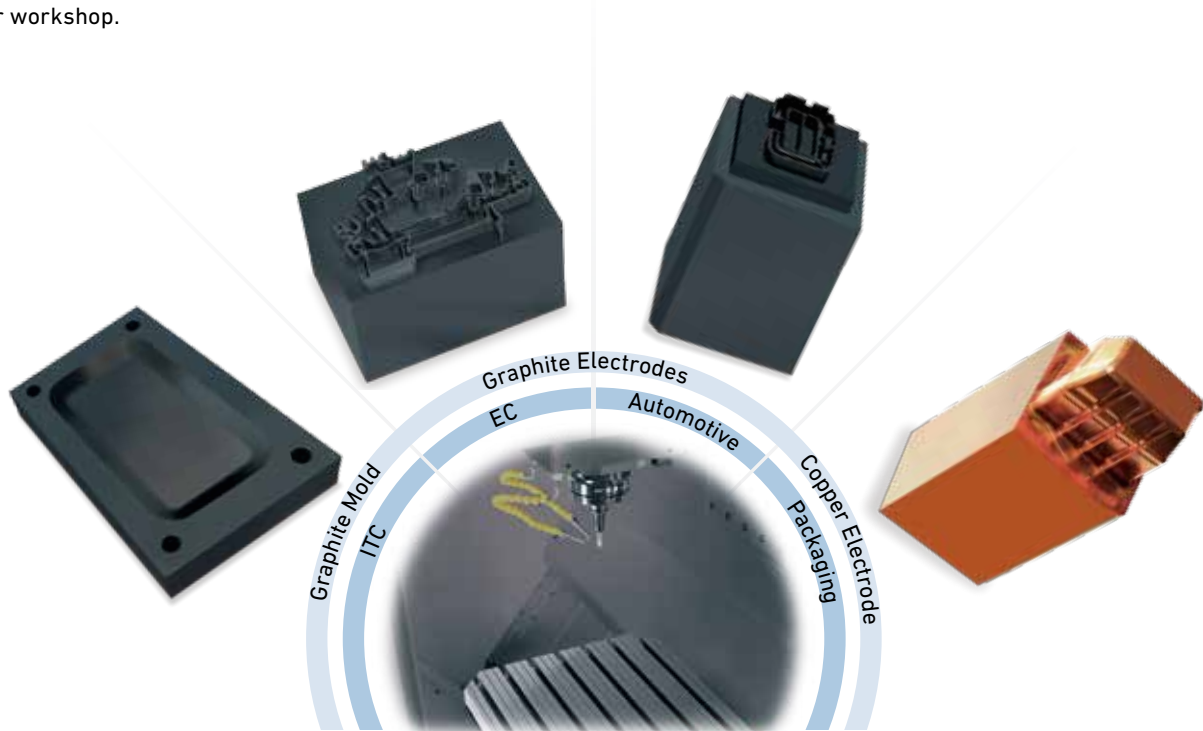


Fast track that leaves no trace

Graphite machining has never been so attractive—and challenging. While graphite electrodes boost die-sinking electrical discharge machining's (EDM's) productivity and reduces costs, the graphite-based glass mold market is quickly growing, with new requirements in terms of surface finish, precision and machining speed.

The HSM 500 Graphite provides the ideal answer to these challenges. It combines the well-established HSM 500 that set a benchmark in terms of speed and surface finish with a dedicated high-precision Step-Tec Spindle. Additional benefits are its improved dust exhaust unit in a black enclosure and integration of the System 3R WPT1+.

The fast-track machine has been transformed into the perfect graphite solution that leaves no trace on your parts or in your workshop.



- 200%** **more profit** due to
 - fastest machining on the market, cutting your costs per part by half
- 100%** **perfectly finished parts** due to
 - genuine HSM Milling technology and components allowing 100 percent of performance to be transferred to your parts
- 24/7** **reliable automated process** due to
 - efficient dust evacuation, even with pallet and tooling automation
 - high precision and contamination free for spindle
- 2x** **more process capabilities** allowing
 - from Graphite manufacturing up to hard metal milling
 - combining GF EDM and Milling Solutions, through S3R Automation



System 3R tooling and automation

Make more of your potential! With System 3R best-in-class automation, tooling, work-holding and work-handling systems and software.

Flexible automation systems that can be added to and expanded to grow with your changing manufacturing needs and requirements. We can serve one or two machines in a production cell.

Our Cost-effective solutions that ensures high productivity and deliver a more than favorable return on investment (ROI).

One, two or three magazine capability gives exceptionally flexible capacity.

Large doors facilitate loading of work-pieces and tools into the magazines.

Minimal floor space requirements.



Customer Services

Increase your productivity, optimize your costs and time

Graphite's extraordinary characteristics make it the perfect material for electrodes and Glass Molds. Graphite is largely used for electrical discharge machining (EDM) in production and other applications fields like mold making, general engineering and micro machining. It offers many advantages, including low wear, easy machining and thermostability to provide very high cost-effectiveness.

GF Machining Solutions offers various grades of graphite with a wide range of performance characteristics. Each grade can be dedicated to a specific range of applications.



Agie Charmilles EDM solution

With the Form 2000 VHP you achieve high performance, extend the scope of your parts production operation, take on new applications, and enjoy vast Automation capability. Boost your application potential with this solution's best accuracy on micro parts, fast machining of ribs and surfaces, and easy production of big and heavy parts.

Die-sinking iGap feature varies spark power between front and side of electrodes, leading to an outstanding material removal amount. Pushing ahead your productivity.

Mikron HSM 500 Graphite

Workarea

Longitudinal	X	mm	500
Lateral	Y	mm	450
Vertical	Z	mm	350

Working spindle (40% ED, S6)

42,000 rpm	HSK-E40	kW / Nm	13.0/ 4.2
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Feed rate

Rapid traverse	(X, Y)	m / min	20/42
Rapid traverse	(Z)	m / min	20/42

Work table

Clamping surface	mm	550x450
Max table load	kg	200

Tool magazine

HSK-E40	Capacity	36
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Dust extraction (Amano)

Weight	kg	300
Power	kW	3.7
Suction	Pa	980 ~2940
Largest gas receive amount	m³/h	3600



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.

www.gfms.com

