

# Mega 1

## Engraving Head



*A copper mine — perhaps the only way to dig deeper into copper than the MEGA 1 head.*

### A New System

The MEGA 1 engraving head pushes electromechanical engraving to a new level. Depths previously thought only possible by chemical etching or mechanical knurling are within the MEGA 1's depth capability. This advancement brings the consistency of electronic engraving to a whole new market!

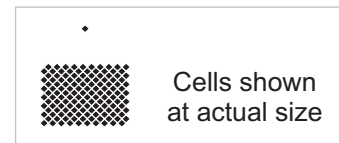
The MEGA 1 uses Ohio Gravure Technologies' advanced engraving head control system—Digital Signal Processing (DSP) and closed-loop feedback. These two technologies provide precise tool control by monitoring stylus position and other critical factors. Additionally, DSP allows the unique ability to control the tool path for superior stylus response.

### A Special Engraver

The MEGA 1 engraving head is only available on a custom Gravostar engraver. This specialized engraver is designed for the coarse screen rulings required by knurl applications. The unit can operate as a stand-alone engraver or be driven by an Ohio GT engrave controller.

### A New Stylus

The MEGA 1 engraving head requires a specially designed diamond stylus to cut cells 275µm deep. The MEGA 1 stylus includes reinforcement of the stylus and a greater tip-to-shank distance (more diamond). These improvements protect the stylus and allow the extreme depths capable by the MEGA 1 head.

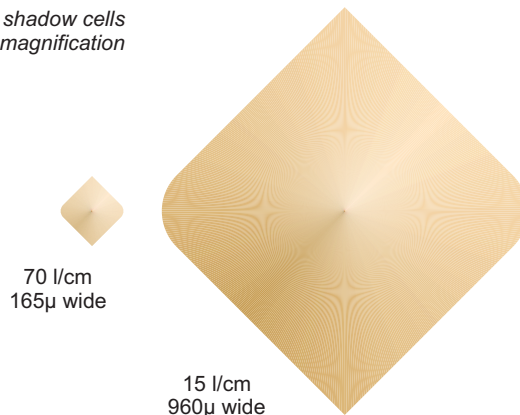


### MEGA 1 Engraving Head Technical Data

- Capable of engraving depths up to 275µ
- Operates at a speed of 800 cells per second (0.72 m<sup>2</sup>/hr @ 20 l/cm)
- Digital Signal Processing and closed-loop feedback provide for precise tool control and variable tool path
- Effective screen range of 9 to 30 l/cm
- Engraves all screen angles from 30° to 60°
- Uses a modified diamond stylus— 120° to 145° tool angles available

The MEGA1 engraving head destroys the notion that deep cells require chemical etching. The MEGA 1 head engraves cells up to 275 microns deep. With depths this great, maybe we should call it mining!

*Typical shadow cells shown at 50x magnification*





# **Ohio Gravure Technologies Inc**

*Engineering Excellence in Dayton since 1980*

## **About Ohio Gravure Technologies**

Ohio Gravure Technologies Inc, the developer of the Vision engraving heads, Collage Layout System, Gravostar 857 and 827, and the automated Gravostar HS with Vista II, is bringing our expertise to new markets. With the AccuPress MicroGravure Printing system and the  $\mu$ Star MicroEngraving system, Ohio GT has targeted markets for advanced micro-machining and micro-printing, including printed electronics, specialty coatings, films, optical, and more.

Ohio Gravure Technologies is leading the way for non-traditional uses of gravure with special application engineered cylinders holding accuracies as tight as 5 $\mu$ m. For the packaging gravure market, we continue to develop new technology to produce the fastest, most accurate, and cost-effective engraving hardware.



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