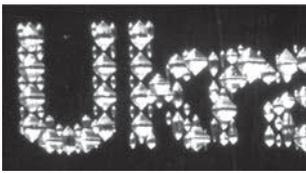
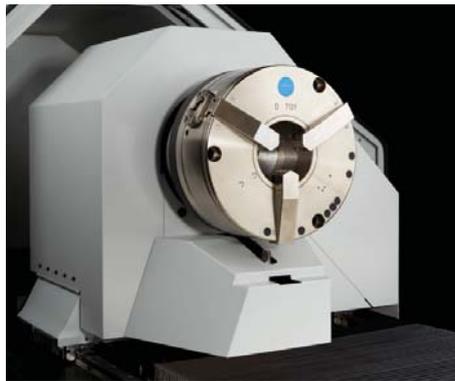


# SPECTRUM



Levels of  
Automation



BASED ON INNOVATION.

[WWW.OHIOGT.COM](http://WWW.OHIOGT.COM)

 **OHIO**  
GRAVURE TECHNOLOGIES

# SPECTRUM

## A Spectrum of Capabilities for Packaging Gravure

The Spectrum Engraver has proven itself around the world as fast, flexible, and productive. The Spectrum allows for production of virtually any kind of work. Many basic engraver functions have been automated for high performance, regardless of the work or the operator expertise.

The linear drive and the standard Vision 3 engrave head on this One-Button engraver provides unquestioned quality.

Automated cylinder loading with AutoCon is proven. OHIO has built machines for fully automated lines in earlier years and we used our experience to make our Automated Spectrum just what you need.

OHIO is well-known for providing customized solutions available nowhere else. Tell us what you need and we will provide a solution for you.

## Vision 3 Engrave Head

The robust and reliable Vision 3 engrave head is well-known for consistency and capability. Engraving speed with 70 l/cm screen is 0.76 m<sup>2</sup>/h. If the depth offered with the 90µ Impact Engraving is not enough, consider a separate High Output head (up to 130 µm of depth) or the Mega head (up to 300 µm of depth).



### Standard Tunes

8.6 kHz to 35 µm of depth  
8.1 kHz to 60 µm of depth  
32 kHz to 70 µm of depth

### Premium Tunes

Impact (1.7 kHz to 90 µm)  
Hybrid Engraving  
tranScribe Engraving

### Specifications

Recommended screen range: 31.5 l/cm to 200 l/cm  
Screen angles from 30° to 60° in 0.01° increments  
Range of stylus angles: 90°, 100° to 145° in 5° increments

## Hybrid Engraving System\*

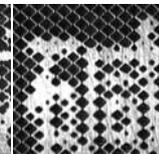
The Hybrid Engraving System balances speed with resolution for a practical commercial solution. Continuous tone and Line work images can be engraved in a single operation for a simplified workflow.



Hybrid



Hybrid



Traditional



75% text on 50% tone

## Hell Match / DTG Match\*

With Hell Match/DTG Match, engrave cylinders on an OHIO engraver that exactly emulate Hell screening so that OHIO and Hell cylinders can be mixed without moiré.



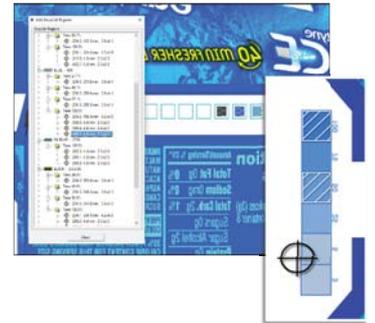
\*The Hybrid, Hell Match and DTG Match options require Collage version 4.3 or higher. Hybrid requires embedded software version 2.1 or higher.

# SPECTRUM

## The Auto-Documented Cylinder from OHIO

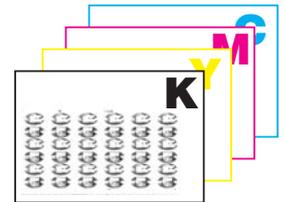
### DocuCell Capturing System

Instead of manually measuring densities on the cylinder to be sure the engraving matches the image data, use DocuCell for fast, easy and automatic quality control. In Collage, the operator simply clicks on each area of the job to be measured. The engraver automatically takes cell pictures and measures cell sizes on the fly, then records the information. The cell size information can be found on the Cylinder Birth Certificate.



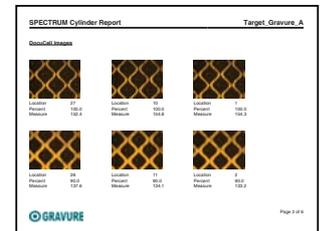
### Vital Proof Multi-Color System

Vital Proof uses the Vision 3 feedback system and compares the actual (i.e. measured) engraved result with the original Collage data. During engraving, the engrave depth and width signals are digitized and a grayscale image of the engraved data is constructed. This image can be viewed on the engraver monitor, alternating between the standard real-time display and the Vital Proof display at the touch of a button. The image is saved back to the Collage computer. When all cylinders have been engraved, the composite image can be viewed in color with the Vital Proof Viewer. The cylinder information is available on the Cylinder Birth Certificate.



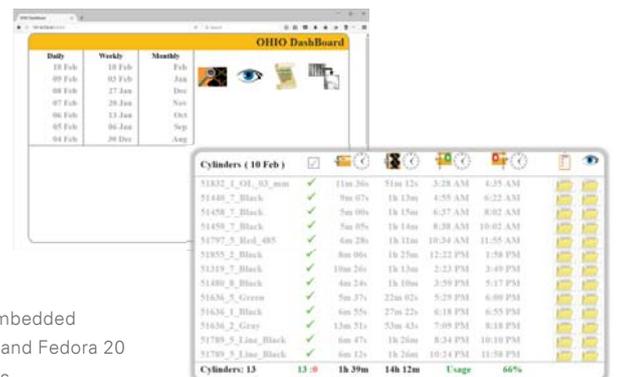
### Enhanced Birth Certificate

OHIO's engravers with the Vision 3 engrave head are well known for the superior repeatability of cylinder engraving. For every cylinder engraved, information is recorded on the Birth Certificate: screens, angles and stylus used, test cut and midtone results, with pictures and data, and Stylus Profile information. The Enhanced Birth Certificate includes DocuCell and Vital Proof information.



### OHIO Dashboard

The OHIO Dashboard puts all the numbers right in your hands so you can manage production efficiently from anywhere ... on your desktop computer, your tablet or even your smart phone. If your device has a web browser and internet connection, you can check on all your engravers any time. The exclusive Dashboard shows a summary of what has been engraved over the past day, week, or month. Even cylinders with faults are listed so you can solve problems quickly. Daily reports can be emailed to you.



The Auto-Documented Cylinder requires Collage version 4.3 and embedded software version 2.1 or higher. Dashboard requires motorized head and Fedora 20. Some features are optional. Please visit [www.ohiogt.com](http://www.ohiogt.com) for details

# SPECTRUM

## Specifications

The headstock and tailstock move symmetrically. Enclosures move automatically.

	Length	Height	Depth
Compact	3,923 mm	1,544 mm	1,082 mm
Packaging	4,826 mm	1,544 mm	1,082 mm
Decorative	6,081 mm	1,544 mm	1,082 mm
Large Format	6,855 mm	1,660 mm	1,700 mm

Colors: Dark gray RAL 7021, Light gray RAL 7035

For information on cylinder fixturing options and cylinder sizes, please visit our website

## Features

- The one-button head setup with the advanced Vista II system is easy. Test cells are automatically cut, measured, adjusted if needed, then engraving automatically starts.
- Icons on the touchscreen make the machine easy to operate, and the high-resolution monitor displays engraved cells in real time.
- The advanced linear drive allows for fast, precise carriage positioning.

### Fully-Automated features

- Cylinder positioning supports, Cylinder detection (measuring and verification) and cylinder end location, Cylinder TIR verification, and Keyway detection
- Automatic chucks
- Automatic test cut and job positioning
- Interface with AutoCon cylinder scheduling system



### OHIO Engraver Comparison

	Prism	Prism Prime	Spectrum
Foundation (V3)	•	•	•
Hybrid*	•	•	•
Helio Match*	•	•	•
One Button		•	•
Auto-Document*		•	•
Automation*			•

\* Option

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