

# Engrave Heads

## OHIO Vision 3 Feedback Engrave Head

The core part of an engraver is the engrave head. The quality of text and line reproduction is dependent on how fast the head can follow quick density changes and the ink volume of the engraved cells. OHIO designed the Vision head with this in mind.

### Fast, Reliable and Precise

The Vision 3 engrave head provides standard engraving to 9 kHz. This head is stable and reliable over years of use, proven by customer after customer. The ability to follow density changes with no delay is directly dependent on the available power accelerating the stylus. On the Vision 3 head, the average used power is 1,200 watts for very precise control.

### Feedback for Consistency

For a constant print density over the cylinder regardless of screen, the Vision engrave head is equipped with a feedback sensor to measure the stylus movement and adjust as needed. This guarantees a constant volume throughout the engraving job, from the first to the last cell, even when engraving coarse screens up to 24 L/cm.

### Highest Quality Cells

The symmetrical cell shape produced by the Vision engrave head is visibly superior, and can be seen on the touchscreen monitor as well as on the cylinder.



### Unique Capabilities

- Nearly immune to copper hardness changes
- Longer stylus arm decreases the attack angle, improves cell shape and stylus life
- 30° screen angles are common for optimal rosette overlays
- Unique 3D stylus shapes for more efficient printing
- Cartridge diamonds for precise, rapid change
- Stable for all cylinder circumferences and lengths

### Specialty Engraving

The third generation of Hybrid Engraving balances speed with resolution for a practical and productive solution. Engrave CT and LW in a single pass for a simple workflow with unmatched quality. The tranScribe with AccuEdge system is superior for certain applications, such as security work. When you need deep cells, approaching 100µm, for coating and high volume applications, the Impact Engraving tune can be added to your Vision head.



Hybrid Engraving for 1 point text next to 465 µm wide cells engraved with same Vision head. The Vision head has broad and practical application capabilities.

# Vision Engrave Head

The Vision heads are multi-frequency engrave heads. The head comes with your choice of several tunes, each tune having different speeds and cell depths

## 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

Standard Tunes	BCM	Screen	Angle	Stylus
8.6 kHz to 35 µm of depth	6.8	95 L/cm	40°	120°
8.1 kHz to 60 µm of depth	12.9	55 L/cm	40°	120°
3.2 kHz to 70 µm of depth	14.5	52 L/cm	40°	120°

### Premium Tunes

Impact 1.7 kHz to 90 µm of depth	19.3	40 L/cm	40°	120°
tranScribe 4.5 kHz		not available		
Hybrid Engraving	12.0	60 L/cm	57°	120°

BCM = Billion Cubic Meters. This shows the ink volume

When a Vision 3 head is purchased, an additional head may be purchased:

High Output Head	BCM	Screen	Angle	Stylus
2.0 kHz to 130 µm of depth	28.8	27 L/cm	45°	120°

### 300 Micron Head

800kHz to 300 µm of depth	67.7	10 L/cm	45°	130°
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Note: Higher force styli and a higher vacuum system are used.

## Specialty Engrave Heads

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