



AMSMicro



Overview

AMSMicro is a stationary diamond verification instrument designed to automatically feed, measure, and dispense small, round brilliant diamonds, synthetic diamonds and diamond simulants into their respective categories. It can process diamonds that fall into an overall size range of 0.6mm to 1.0mm girdle diameter.

Batches of up to 200ct can be fed into the hopper and processed at a time, provided each batch falls within one of the prescribed diameter ranges of 0.6 - 0.69mm, 0.7 - 0.79mm, 0.8 - 0.89mm or 0.9 - 0.99mm.

AMSMicro will automatically categorize the stones and dispense them into following bins:

- i) Pass (ie. natural diamond)
- ii) Refer
- iii) Synthetic
- iv) Non-diamond

Stones in the Refer and Non-diamond bins should be fed back into the hopper and run through the instrument again.

AMSMicro requires periodic calibration.

Stone Testing Capabilities

Weight range: **0.001 ct**
 Size of stones: **0.6 mm to 1.0 mm**
 Colour range: **D-K**
 Stone shape: **Round brilliant**
 Diamond simulants: **Yes (Cubic Zirconium, Moissanite, Glass)**
 Mounted stones: **No**

Instrument Capabilities

Automated feed: **Yes**
 Automated results: **Yes**
 Automated dispense: **Yes**
 Detect or Refer (synthetic diamonds): **Detect**
 Detect or Refer (diamond simulants): **Detect**
 Multiple stones at once: **Yes**
 Training required: **Yes (on site)**

ASSURE 2.0 Performance


Key ASSURE 2.0 test results for JTR Reveal:

	Ultra Smalls Loose	Primary Mounted
Diamond False Positive Rate <i>(Optimal rate 0%)</i>	0.0%	N/A
Diamond Referral Rate <i>(Optimal rate 0%)</i>	2.3%	N/A
Diamond Accuracy Rate <i>(Optimal rate 100%)</i>	97.7%	N/A
Operating Speed <i>Stones per hour</i>	3,200	

Notes:

Ultra Smalls Sample set includes Diamonds, Synthetic Diamonds, Cubic Zirconium and Moissanite. Sapphire stones were excluded from the sample set.
 Operating Speed based on measured performance processing Ultra Smalls sample set when device is operating at steady state.
 See Laboratory Report for full set of performance results.

Instrument Specifications

 890mm (w) x 660 (d) x 1700 (h)

 264 kg

Price: 180,000 USD (July 2026)

Contact

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