



ASDI



ASDI is a stationary fully automated diamond verification instrument, designed to screen large quantities of colourless and near colourless loose stones at a high speed. ASDI automatically separates diamonds from synthetic diamonds and diamonds simulants.

The user loads a parcel of loose polished stones into the ASDI. ASDI dispenses the stones into three categories:

- ◇ Diamond
- ◇ Refer
- ◇ Diamond simulant

'Refer' could contain potential synthetic diamonds and diamonds. The referrals should be tested further for full verification.

ASDI can provide batch reports for up to 15 size measurements plus proportions for each diamond. ASDI is delivered with a series of master stones which can be tested anytime to ensure the correct calibration of the instrument.

Stone Testing Capabilities

Weight of stones:	0.002 ct - 0.20 ct
Size of stones:	0.85 mm - 3.80 mm
Colour of stones:	D-J
Shape of stones:	Round
Diamond simulants:	Yes
Mounted stones:	No

Instrument Capabilities

Automated feed:	Yes
Automated results:	Yes
Automated dispense:	Yes
Detect or Refer (synthetic diamonds)	Refer
Detect or Refer (diamond simulants)	Refer
Multiple stones at once:	Yes
Training required:	Yes three-day course at SSEF

Instrument Performance

The results demonstrate the performance of the ASDI tested by a novice operator:

	Core Sample	Smalls Sample
Diamond False Positive Rate <i>Optimal rate 0%</i>	0%	0%
Diamond Referral Rate <i>Optimal rate 0%</i>	6.4%	6.8%
Diamond Accuracy Rate <i>Optimal rate 100%</i>	93.6%	93.2%
Speed <i>Stones tested per hour</i>	6,511	6,511

Instrument Specifications

170 cm (l) x 90 cm (w) x 160 cm (h)

350 kg

Contact SATTGEMS for price

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ASSURE Tested May 2019

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