

SSEF introduces the Automated Diamond Spectral Inspection System offers solution for authenticating quantities of colourless melee

Basel, Switzerland --March 29, 2014: The Swiss Gemmological Institute SSEF has developed the [Automated Diamond Spectral Inspection \(ASDI\)](#) - a device which can analyse very large quantities of melee diamonds at low cost. The development of the instrument is all the more important following concerns expressed by members of the global diamond industry in the past year after undisclosed lab-grown diamonds were mixed in with parcels of natural diamonds.

The ASDI, which has a patent pending, analyses round polished diamonds ranging from 1.0 to 3.8 mm in diameter. The machine conclusively identifies colourless natural diamonds, and operates at an unrivalled average sorting speed of 4,000 stones per hour. The machine uncovers colourless synthetic diamonds, both HPHT and CVD grown, as well as colourless HPHT-treated diamonds.

"The threat of undisclosed synthetic diamonds possibly mixed into batches of melee diamonds is a very serious issue," said Jean-Pierre Chalain, director of SSEF's diamond department. "As part of SSEF's mission to protect the jewellery and watch-making industries, the release of ASDI brings a safe, reliable and very efficient industrial solution to the trade.. This machine can authenticate melee diamonds of low individual value using high-tech methods at a highly competitive price per stone."

Two major Swiss diamond suppliers and two prestigious Swiss jewellery and watch-making companies have already ordered the ASDI machine. And as of the end of last month, the SSEF had already tested 400,000 diamonds submitted for inspection by the Swiss diamond trade using the ASDI machine.

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For more information, see our ASDI video: www.ssef.ch/asdi

About SSEF

The Swiss Gemmological Institute SSEF was founded in 1974 as a non-profit institution. SSEF's mission is to protect and provide solutions for the jewellery and watch-making industry. For more information on SSEF's diamond testing services see www.ssef.ch. Recently, SSEF has become an active and contributing partner in the world's oldest gemmological publication, the Journal of Gemmology, that is published by Gem-A, the UK.