Auto DIASSORTER™ is jointly developed by Eternity Manufacturing Ltd. and the Hong Kong University of Science and Technology to sort diamonds according to their colour and clarity grading. The system employs the latest technology in image processing that measures the properties of the diamonds based on pictures captured by high resolution cameras. It can handle diamonds with diameter ranging from 0.8mm to 3mm. These diamonds are transported to the sorting system by an automatic feeding device. The fully automatic grading process takes about 6 seconds per stone and the result will show the colour / clarity of the diamond in accordance with the industry standard. With this information, the graded diamond will be delivered to a designated bin as programmed by the operator. The system facilitates the automatic sorting of diamonds in large quantities.

*Patent Pending
**Range:** Diamond sizes with diameter from 0.8mm to 3mm
Colour grades from D to J (GIA standard)
Clarity from VVS to I

**Time of grading:** 6 seconds for each diamond

**Method of grading:** Analysis of image captured by two high resolution cameras with the diamond sample placed inside an integration sphere

**Operation:** Fully automatic. Diamonds with same colour / clarity will be sorted and placed into a designated bin. The graded results are shown on the LCD display.

**Dimensions:** 560mm x 560mm x 970mm

**Weight:** 40 Kg

**Electrical supply:** 220 Vac 50Hz

**Compressed air:** 5 bar

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**Eternity Manufacturing Ltd.**
18/F, Melbourne Plaza, 33 Queen’s Road Central, Hong Kong
Tel: (852) 2854-4688  Fax: (852) 2854-0157
Email: info@eternitymfg.com  www.diassorter.com