

DIA-MEASURE

Because your precious deserves precision



Automated Diamond Measuring & Sorting Technology

DESCRIPTION :

Dia-Measure is a high-performance, automated round diamond measuring system engineered for exceptional speed and precision. Capable of processing up to **5,500 diamonds per hour**, it accurately measures stones ranging from **0.90 mm to 4.00 mm** with a precision of **5 microns**, while simultaneously sorting them into **10 distinct size profiles**, depositing each into separate bins.

In a single, seamless operation, Dia-Measure captures key parameters such as **diameter, total height, crown + pavilion angles** and **girdle size**. It delivers fast, reliable, and fully automated diamond grading and sorting—making it the ideal solution for both **high-volume production** and **precision sorting** applications

INCLUDED ACCESSORIES :

- Power Cable
- All-in-One PC set
- USB cable
- 10 Bin
- Vacuum Pump
- HASP
- Calibration Pieces
- PU Pipe
- Diamond Scoop

KEY FEATURES :

- **Micron-Level Accuracy, Minimal Handling**
Dia Measure captures all key diamond measurement parameters, including diameter and total height with ± 0.0055 mm precision, as well as crown angle, pavilion angle ($\pm 2\%$), and table size, with minimal handling to reduce the risk of diamond loss and damage.
- **Multiple Operation Modes**
The system offers various modes to suit user needs, including **Measuring, Only Counting**, and **EdgeGuard** mode.
- **High-Speed Processing with Bulk Capacity**
Processes up to **5,500 diamonds per hour** and handles **1,000 carats per batch**, with automated sorting into **10 precise size profiles**—for effortless, high-volume operation.
- **Automatic Damage Detection**
EdgeGuard Mode automatically detects broken culets or ovality, to ensuring only flawless stones continue through the process.
- **Stay Organized and Informed**
Dia Measure captures images of each measured diamond, exports detailed results in **Excel and PDF** (with real measurement images), and integrates with your **ERP system** for seamless, accurate record-keeping.
- **Visual Alerts for Smooth Operation**
Top-mounted light indicators provide instant visual feedback on machine status, actions, and errors—enabling remote monitoring at B glance.
- **Self-Cleaning and Auto-Calibration with Zero Downtime**
Dia Measure features an **automatic disk cleaning system** and an **easy, fully automated calibration process**, ensuring consistent performance and accuracy —without interrupting your workflow.

TECHNICAL SPECIFICATIONS :

- Input Voltage Range : 110 - 230 v
- Input Current : 5 Amp
- Operating Temperature : 18° - 35°c
- Humidity : Recommended 40%- 60% RH
- Dimensions : 820 x 850 x 575 mm
- Weight : 65 KG (Machine only)

WARRANTY :

- One-year warranty covers Dia-Measure hardware, software and updates.