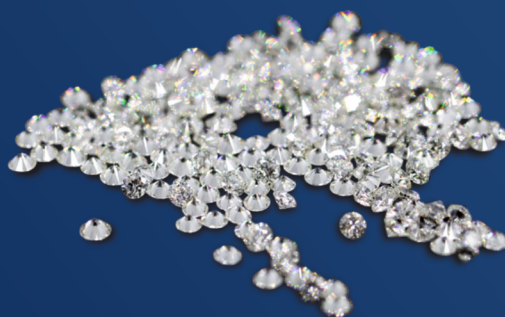




## Automated Melee Sorting

Introducing next generation automatic sorting of small diamonds by diameter, crown size, girdle thickness and other customer selected parameters. Thousands of stones per hour to 0.005 mm accuracy.

From the Global Leader in Diamond Technology,  
Diamtech Research Centre, DRC

DIA-MEASURE

# Automated Diamond Sorter

## Dia Measure by DRC

The Dia Measure Machine is a cutting-edge automated system engineered to elevate the precision, speed, and efficiency of round melee diamond measurement and sorting.

Seamlessly integrating mechanical, electronic, and optical components, the system delivers accurate geometric measurements-such as diameter and height-while also analyzing key optical properties.

Automated design minimizes manual intervention, ensuring consistent quality control through advanced features including dual-camera imaging, sensor-based detection, and air-jet sorting.

Increasing throughput and efficiency, Dia Measure saves time and money while increasing production with the capacity to sort thousands of stones per hour with an accuracy of 0.005 mm.

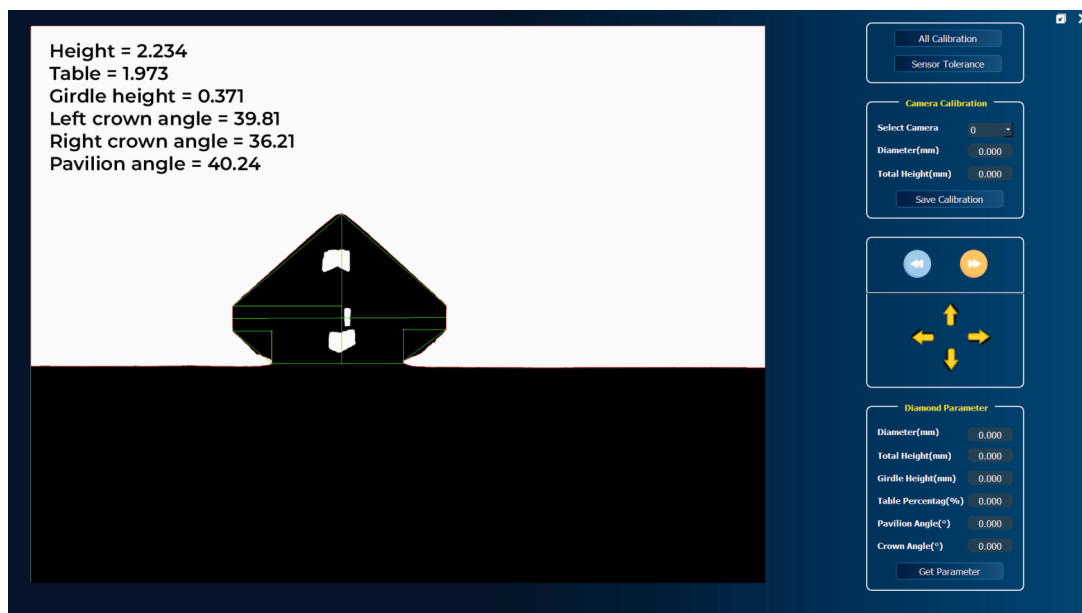
## Dia Measure Increases Productivity and Efficiency

Diamond Suppliers

Jewelry Manufacturers

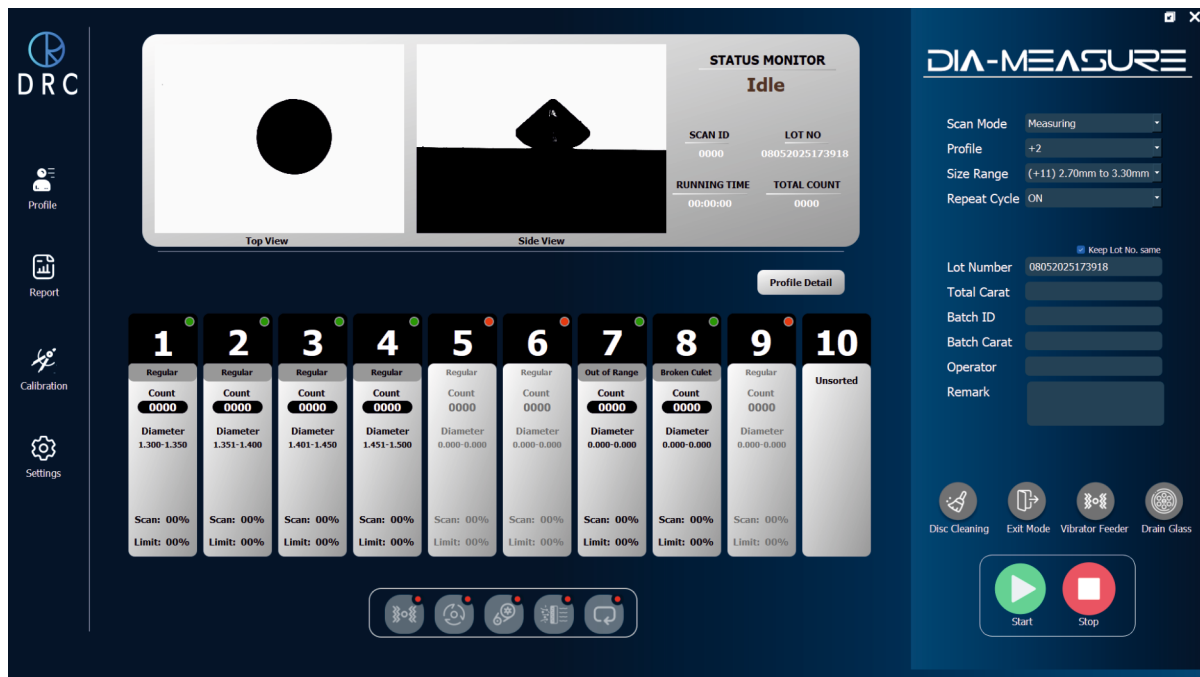
Manufacturing Retailers

### Calibration Screen



Twice monthly calibration assures the precise capture of every gemstone measurement for accurate sorting

# Automated Diamond Sorter Dia Measure by DRC



Designed for high-volume operations such as jewelry manufacturing, the Dia Measure Machine significantly reduces labor costs and operational errors.

Its fully automated process replaces manual sorting and measurement, accelerating production while maintaining superior consistency and reliability.

With customizable sorting profiles, users can tailor the system to meet specific measurement criteria, ensuring adaptability for diverse manufacturing requirements: i.e. matching girdle thickness or crown size.

## Profile Screen

Container Profile 

+2

| Criteria                     |                                     |     | 1                                   | 2                                   | 3                                   | 4                                   | 5                        | 6                        | 7                                   | 8                                   | 9                        | 10                       |
|------------------------------|-------------------------------------|-----|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|--------------------------|--------------------------|-------------------------------------|-------------------------------------|--------------------------|--------------------------|
| Activate                     |                                     |     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Type                         |                                     |     | Regular                             | Regular                             | Regular                             | Regular                             | Regular                  | Regular                  | Out of Range                        | Broken Culet                        | Regular                  | Undetermine              |
| Diameter<br>(+/-0.005mm)     | <input checked="" type="checkbox"/> | Min | 1.300                               | 1.351                               | 1.401                               | 1.451                               | 0.000                    | 0.000                    | 0.000                               | 0.000                               | 0.000                    | 0.000                    |
|                              |                                     | Max | 1.350                               | 1.400                               | 1.450                               | 1.500                               | 0.000                    | 0.000                    | 0.000                               | 0.000                               | 0.000                    | 0.000                    |
| Total Height<br>(+/-0.005mm) | <input type="checkbox"/>            | Min | 0.000                               | 0.000                               | 0.000                               | 0.000                               | 0.000                    | 0.000                    | 0.000                               | 0.000                               | 0.000                    | 0.000                    |
|                              |                                     | Max | 0.000                               | 0.000                               | 0.000                               | 0.000                               | 0.000                    | 0.000                    | 0.000                               | 0.000                               | 0.000                    | 0.000                    |
| Girdle Height                | <input type="checkbox"/>            | Min | 0.000                               | 0.000                               | 0.000                               | 0.000                               | 0.000                    | 0.000                    | 0.000                               | 0.000                               | 0.000                    | 0.000                    |
|                              |                                     | Max | 0.000                               | 0.000                               | 0.000                               | 0.000                               | 0.000                    | 0.000                    | 0.000                               | 0.000                               | 0.000                    | 0.000                    |
| Table Percentage<br>(+/-2%)  | <input type="checkbox"/>            | Min | 0.000                               | 0.000                               | 0.000                               | 0.000                               | 0.000                    | 0.000                    | 0.000                               | 0.000                               | 0.000                    | 0.000                    |
|                              |                                     | Max | 0.000                               | 0.000                               | 0.000                               | 0.000                               | 0.000                    | 0.000                    | 0.000                               | 0.000                               | 0.000                    | 0.000                    |
| Pavilion Angle<br>(+/-2°)    | <input type="checkbox"/>            | Min | 0.000                               | 0.000                               | 0.000                               | 0.000                               | 0.000                    | 0.000                    | 0.000                               | 0.000                               | 0.000                    | 0.000                    |
|                              |                                     | Max | 0.000                               | 0.000                               | 0.000                               | 0.000                               | 0.000                    | 0.000                    | 0.000                               | 0.000                               | 0.000                    | 0.000                    |
| Crown Angle<br>(+/-2°)       | <input type="checkbox"/>            | Min | 0.000                               | 0.000                               | 0.000                               | 0.000                               | 0.000                    | 0.000                    | 0.000                               | 0.000                               | 0.000                    | 0.000                    |
|                              |                                     | Max | 0.000                               | 0.000                               | 0.000                               | 0.000                               | 0.000                    | 0.000                    | 0.000                               | 0.000                               | 0.000                    | 0.000                    |
| Count Limit                  |                                     |     | 0                                   | 0                                   | 0                                   | 0                                   | 0                        | 0                        | 0                                   | 0                                   | 0                        | 0                        |
| Beeker Capacity              |                                     |     | 48048                               | 42357                               | 38188                               | 35000                               | 0                        | 0                        | 7560                                | 0                                   | 0                        | 0                        |

New Profile

Clear Data

Edit Data

Delete Profile

# Specifications



## Power Supply

Input Voltage range : 110 - 230V  
Input Current : 5 Amps



## Standard Operating Temperatures

18° - 35° C (65° - 95° F)



## Desktop Computer Specifications : Dell All-in-One

Intel® Core™ i7-1355U  
Windows 11 Home  
Graphics Card: 2GB (Nvidia)  
RAM: 16 GB DDR4, 3200 MT/s  
SSD: 512GB M.2 PCIe NVMe Solid State Drive  
Display: 23.8", FHD 1920x1080, 60Hz, IPS, Non-Touch,  
Anti-Glare, Infinity Edge, Narrow Border  
Wireless Bluetooth keyboard and mouse  
Wireless Intel® Wi-Fi 6E AX211, 2x2, 802.11ax,  
Bluetooth® wireless card



## Vacuum Pump

Voltage Rating: 230v / 110v AC  
Rated Frequency: 50 Hz / 60 Hz  
Power Consumption: 39w  
Air Displacement: 25l/Min  
Weight: 2.3 Kg



## Power

90W AC adapter, 4.5 mm barrel  
130W AC adapter, 4.5 mm barrel



## Service and Support

One Year Comprehensive Warranty  
On-Site setup and training  
Live Support 24/7



# DIA-MEASURE



Width

850 mm  
33.5 inches



Height

575 mm  
22.75 inches



Depth

820 mm  
32.3 inches



Weight

65 kg  
143 pounds

## Recommended Clearance

12 inches on each side | 10 inches from back wall | 24 inches overhead space

## Diamtech Research Centre Pvt. Ltd. (DRC)

Surat, India | USA | Italy | Switzerland | Hong Kong | Thailand | Canada

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