

*Godrej*

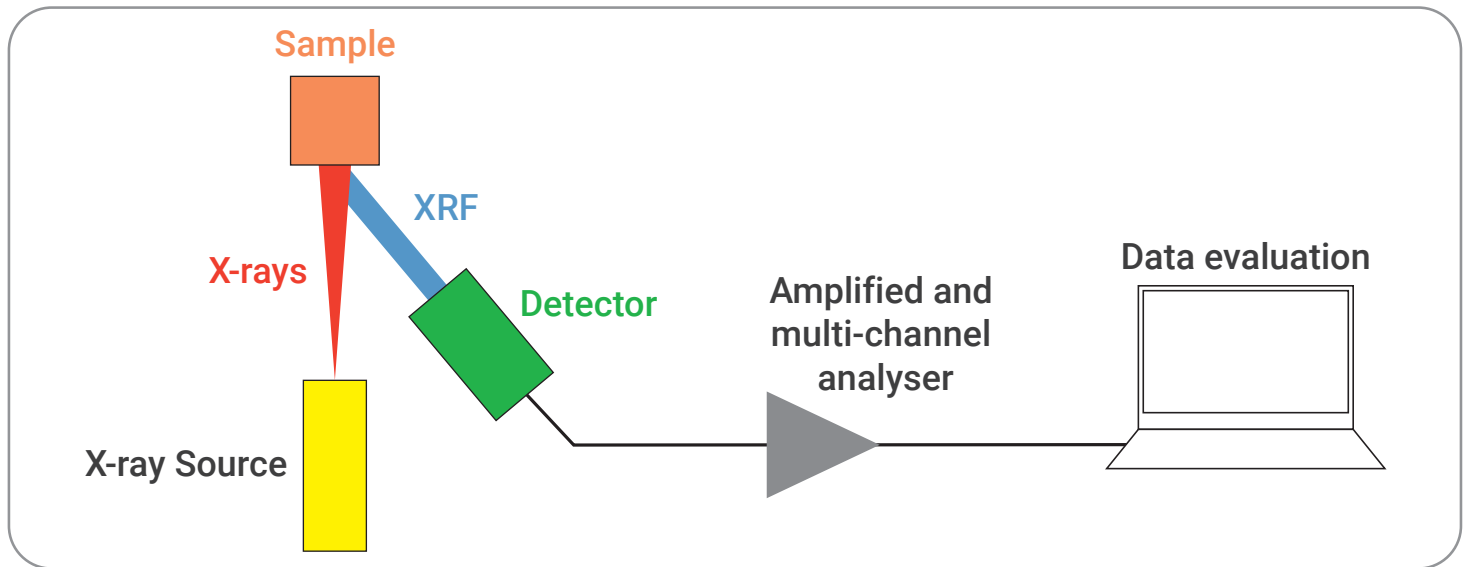
**A MACHINE WORTH  
ITS WEIGHT IN GOLD**

**ACCUGOLD®**



Trust Godrej's AccuGold machine to determine gold purity with the highest accuracy. This machine is designed to give you the composition of the ornament under testing, without damaging the ornament. Whether you are a jeweler, a bank or a financial institution, this machine is the perfect addition to your business.

## Energy-dispersive X-ray fluorescence (EDXRF) Technology



Energy-dispersive X-ray fluorescence (EDXRF) is a non-destructive analytical method for qualitative as well as quantitative determination of elements in a sample independent of their chemical form.

In EDXRF technique, all of the elements in the sample are excited simultaneously. An energy dispersive detector in combination with a multi-channel analyzer is used to simultaneously collect the fluorescence radiation emitted from the sample. These different energies represent characteristic radiation from each of the different element contained in the sample. X-ray energies are majored as a step in voltage ramp of pulse processor. This is analysed through software to give accurate results.

The X-ray detectors are used from a reputed manufacturer which provides most accurate results in precious metal detection.



### Method

Energy Dispersive  
X-ray Fluorescence  
(EDXRF)  
Non Destructive  
Testing



### Analysis Range

1 ppm to 99.99%



### Measurement Area

2 mm



### Working Temperature & Relative Humidity

20 - 23° Celsius  
& 15% - 90%

# ACCUGOLD® 770



## Technical Specifications

|                              |                           |
|------------------------------|---------------------------|
| <b>Detector Type</b>         | Proportional Counter Tube |
| <b>Measurement Range</b>     | 8 Elements                |
| <b>Measurement Time</b>      | 50 Seconds                |
| <b>Measurement Precision</b> | 99.50% (± 0.5%)           |
| <b>Image of Sample</b>       | HD Camera                 |
| <b>X-ray Tube Voltage</b>    | 5 KV - 50 KV              |

|                           |                     |
|---------------------------|---------------------|
| <b>Input Power</b>        | 230 V / 5A          |
| <b>Power Consumption</b>  | 1000W               |
| <b>Relative Humidity</b>  | 15% - 90%           |
| <b>Dimensions</b>         | 38 x 38 x 36.2 (cm) |
| <b>Weight</b>             | 38 Kg               |
| <b>Throughput Per day</b> | 240 Samples         |

\*Suited for Banks, Gold Loan Companies and Retail Jewelers

# ACCUGOLD® 880



## Technical Specifications

|                              |                 |
|------------------------------|-----------------|
| <b>Detector Type</b>         | Silicon-Pin     |
| <b>Measurement Range</b>     | 24 Elements     |
| <b>Measurement Time</b>      | 50 Seconds      |
| <b>Measurement Precision</b> | 99.80% (± 0.2%) |
| <b>Image of Sample</b>       | HD Camera       |
| <b>X-ray Tube Voltage</b>    | 5 KV - 50 KV    |

|                           |                   |
|---------------------------|-------------------|
| <b>Input Power</b>        | 230V / 5A         |
| <b>Power Consumption</b>  | 1000W             |
| <b>Relative Humidity</b>  | 15% - 90%         |
| <b>Dimensions</b>         | 43 x 43 x 35 (cm) |
| <b>Weight</b>             | 40 kg             |
| <b>Throughput Per day</b> | 400 samples       |

\*Suited for Jewelry Manufacturers, Banks, Gold Loan Companies and Gold Testing Centers

# ACCUGOLD<sup>®</sup> 990



## Technical Specifications

|                              |                         |                           |                   |
|------------------------------|-------------------------|---------------------------|-------------------|
| <b>Detector Type</b>         | Silicon Drift Detector  | <b>Input Power</b>        | 230V / 5A         |
| <b>Measurement Range</b>     | 30 Elements             | <b>Power Consumption</b>  | 1000W             |
| <b>Measurement Time</b>      | 30 - 50 Seconds         | <b>Relative Humidity</b>  | 15% - 90%         |
| <b>Measurement Precision</b> | 99.85% ( $\pm 0.15\%$ ) | <b>Dimensions</b>         | 48 x 48 x 39 (cm) |
| <b>Image of Sample</b>       | HD Camera               | <b>Weight</b>             | 45 kg             |
| <b>X-ray Tube Voltage</b>    | 5 KV - 50 KV            | <b>Throughput Per day</b> | 450 Samples       |

\*Suited for Assaying & Hallmarking Centers and Jewelry Manufacturers



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