

Octagon Solutions

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GSM Round Cutter

The GSM Round Cutter is an essential tool used across various industries for precise measurement of Grammage per Square Meter (GSM) of materials such as paper, textiles, films, and more. Designed for accuracy and ease of use, it facilitates quality control and ensures consistency in material thickness and weight measurements.



Details

This tool includes a sample cutter with a safety catch lock and long-lasting cutting pads.

The sample cutter has 4 German reversible blades. The design of the blade is reversible i.e. if one side becomes blunt due to continuous use, the blade can be turned to the other side. This way, all four sides of the blade can be used. For convenience of changing blades, numbers 1-4 are written on the edges of each blade.

This unit is recommended for yield testing i.e. determination of weight per unit area. The sample cutter quickly and accurately cuts circular samples of 100 cm², which is exactly 1/100th of a square meter, with a depth of up to 5 mm. The result is grams, which are multiplied by 100, which directly gives the GSM (grams per square meter).

Technical Specification

- | | |
|-------------------------|---------------------------------|
| ● Sample Area: | 100 cm ² |
| ● Sample Diameter: | 113 mm |
| ● Type of cut: | Standard |
| ● Blade holders: 4 Nos. | Stainless Steel |
| ● Blades: | Heavy duty
Reversible Blades |
| ● No of Blades: | 4 Nos |



Specifications:

- **Material:** Stainless steel or hardened steel for durability.
- **Cutting Capacity:** Adjustable cutting diameters, typically ranging from 10 cm² to 100 cm².
- **Accuracy:** Provides measurements with a precision suitable for industrial and laboratory use.
- **Dimensions:** Compact and lightweight design for portability and ease of handling.
- **Maintenance:** Low maintenance requirements, with periodic blade cleaning and calibration checks.

Key Features:

- **Precision Cutting:** Equipped with a sharp, durable blade for clean and precise sample cutting.



- **Adjustable Cutting Diameter:** Allows for cutting samples of different sizes, typically available in standard sizes like 100 cm², 10 cm², etc.

- **Comfortable Grip:** Ergonomic design with a comfortable handle for ease of use during prolonged operations.

- **Durable Construction:** Made from high-quality materials such as stainless steel or hardened steel for longevity and reliability.

- **Measurement Accuracy:** Provides accurate GSM measurements within a specified tolerance, ensuring consistent results.

Applications:

- **Paper Industry:** Measure GSM of various types of paper, including cardstock, tissue paper, and specialty papers.
- **Textile Industry:** Determine GSM of fabrics, ensuring consistency in weight and thickness.
- **Packaging Industry:** Assess GSM of packaging materials like cardboard and corrugated sheets.
- **Quality Control Labs:** Used extensively in laboratories for research, development, and quality assurance purposes.

Industries:

- **Paper and Pulp:** Assess paper quality and thickness.
- **Textiles:** Measure fabric weight for uniformity and quality control.
- **Packaging:** Ensure consistency in packaging materials.
- **Printing:** Optimize print quality by controlling paper GSM.

- **Research and Development:** Essential tool for material testing and analysis.

Usage Guidelines:

- Place the material sample on the pad.
- Align the cutter and press down firmly to cut out the specified area.
- Weigh the cut sample using a precision scale.
- Calculate GSM using the standard formula: $GSM = (\text{Weight of sample in grams} / \text{Area of sample in square meters})$.



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