

## Sample cutter

A round sample cutter is the classical sample cutter for measuring the fabric square weight. By mounting 4 cutters on the circumference a 90°-rotation is enough for cutting a round sample.

The size of a sample is 100 sq cm from which by the help of an industrial scale the fabric square weight can easily be determined.

$$\text{fabric sample weight} \left[ \frac{\text{g}}{\text{sqm}} \right] = \frac{\text{sample weight [g]} \times 100}{\text{sample area [sqm]}}$$

If the fabric width is known the weight of the running meter of a product can be determined by the help of the fabric sample weight.

$$\text{weight of running meter} \left[ \frac{\text{g}}{\text{fm}} \right] = \text{width [m]} \times \text{fabric sample weight [g/sqm]}$$

## Areas of application

Measurements of fabric sample weight are one of the most frequently applied tests in the textile industry. Besides the width the fabric sample weight is a main criterion for a textile product and is therefore very often deployed in the following process steps:

- embroidery
- weaving
- manufacturing of fleece
- control of raw materials
- lamination
- dressing
- final inspection of goods

## Technical data

The round sample cutter with its compact dimensions and the robust steel-case with four inner blades cuts a sample of 100 sq cm within seconds (fleece, paper, leather, textile, cork ...). A quarter rotation is thereby enough to determine the fabric sample weight. We recommend an industrial scale with a weighing range of 0 – 200 g and a resolution  $\pm 0,01$  g.



Picture 1 – Round sample cutter

<b>Sample cutter</b>	<b>Ord.No. ZB-RPS01e</b>
<b>Measurement</b>	165 x 115 mm
<b>Material</b>	cast steel
<b>Weight</b>	about 1,7 kg
<b>Handling</b>	manual
<b>Cutting blades</b>	4 pieces in stainless steel
<b>Cutting depth</b>	max. 5 mm
<b>Accessories</b>	1 cutting underlay
<b>Package item</b>	1 piece

There are also spare parts such as cutting blades and cutting underlays available at Flexuma GmbH.