

## E. Consumables and Spares

1. Blunt or damaged blades should be turned or changed, otherwise cutting will be impaired. Use only the approved type of blade.

Spare blades are available as follows:

761-806 Pack (100) Blades for Models 230/140, 230/103, 230/100 and 230/50

761-808 Pack (20) Blades for Model 230/100(C);

761-807 Pack (100) Blades for Models 230/38 and 230/10

2. Worn boards should be turned or changed, otherwise cutting will be impaired. Use only the approved type of board.

Spare cutting boards are available in packs of 10. Quantity discounts are available if 2, 5, 10, 15, 20 or 25 packs are ordered together

Stock Code: 761-801

## F. Balances

We have a range of balances available for weighing the cut specimens. Particularly suitable are:

Sartorius Portable Digital Balance Model BL 150 Weighing range: 0-150g and 0-5oz  
Readability: 0.01g and 0.0001oz

Portable Cloth Balance Model 90A Ranges: 0-9oz/yd<sup>2</sup> and 0-300g/m<sup>2</sup>  
(Direct reading)

Please ask for further details

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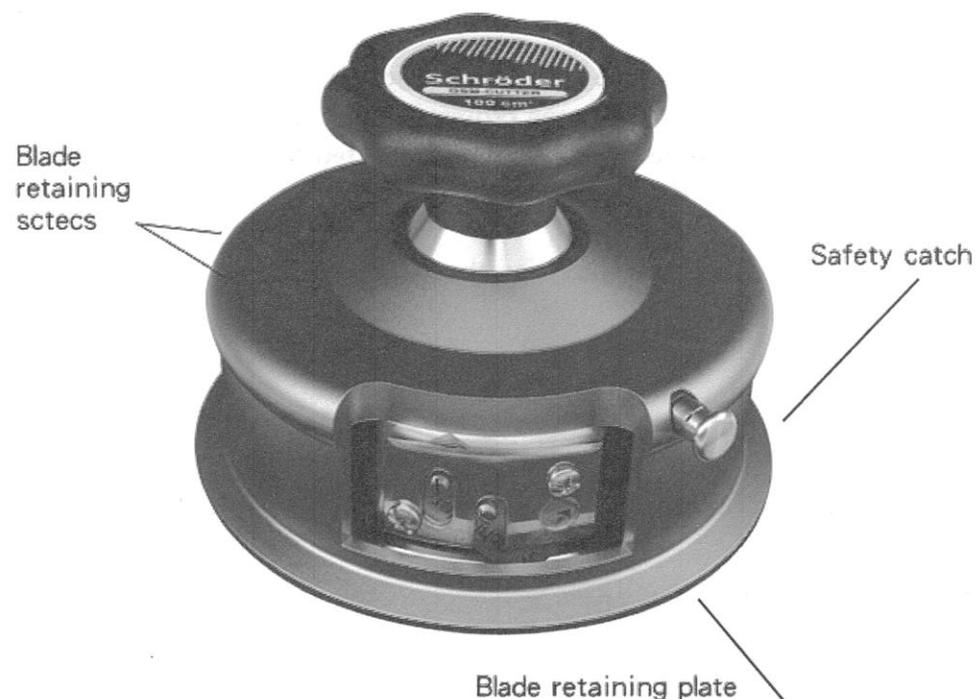
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## OPERATING INSTRUCTIONS SAMPLE CUTTERS



Model No.	Specimen Area	Specimen Diameter	Approximate Depth of Cut
230/140	154 cm <sup>2</sup> (approx.)	140mm	5mm
230/103	1/100th yd <sup>2</sup>	103mm	5mm
230/100	100cm <sup>2</sup>	113mm	10mm
230/100(C)	100cm <sup>2</sup>	113mm	5mm
230/50	50cm <sup>2</sup>	80mm	5mm
230/38	12cm <sup>2</sup> (approx.)	38mm	5mm
230/10	10cm <sup>2</sup>	36mm	

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## A. General

1. The instrument is designed to cut out, rapidly and accurately, circular specimens of a particular fixed area or diameter from virtually any type of material, including woven, non-woven and knitted textiles, carpet, film, foam, paper and board.

2. Each cutter is supplied complete with; one set of blades fitted).

## B. Use of the cutter

1. Place the sample on the cutting board making sure that it is flat and smooth. Do not stretch it.

2. Place the cutter on the sample and release the safety catch. This is done by withdrawing the head of the catch, turning it through 90 degrees and locating the pin in the two recesses. This allows the blades to become operational.

3. Whilst holding the cutter with one hand, apply pressure to the handle and rotate through at least 90 degrees. It may be necessary to turn further for certain materials.

4. Re-lock the safety catch and remove the cutter.

5. For determination of weight per unit area, weigh the specimen to 0.01 g or 0.0001 oz (See Section F for suitable balances).

## C. Calculation of weight per square metre /square yard

Models 230/100 and Model 230/100(C)	Specimen size: 100 cm <sup>2</sup> Multiply weight in grammes by 100
Model 230/50	Specimen size: 50 cm <sup>2</sup> Multiply weight in grammes by 200 for g/m <sup>2</sup>
Model 230/10	Specimen size: 10 cm <sup>2</sup> Multiply weight in grammes by 1000 for g/m <sup>2</sup>
Model 230/103	Specimen size: 1/100th square yard Multiply weight in ounces by 100 for oz/yd <sup>2</sup>

## D. Changing the blades

1. Make sure that the safety catch is locked.

2. Loosen the blade retaining screws to allow the blade retaining plates to be removed. Then either turn or replace the blades.

3. Replace the blade retaining plates and tighten the screws.

4. Repeat this procedure for each blade.

5. Note that blades may be rotated until all cutting corners have been used.