

**Elcometer 103**

**Blast Nozzle Gauge**

**Operating Instructions**



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A copy of this Instruction Manual is available for download on our website via [www.elcometer.com](http://www.elcometer.com).

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Thank you for your purchase of this Elcometer 103 Blast Nozzle Gauge. Welcome to Elcometer.

Elcometer are world leaders in the design, manufacture and supply of inspection equipment for coatings and concrete. Our products cover all aspects of coating inspection, from development, through application to post application inspection.

Your Elcometer 103 Blast Nozzle Gauge is a world beating product. With the purchase of this product you now have access to the worldwide service and support network of Elcometer. For more information visit our website at [www.elcometer.com](http://www.elcometer.com)

## **1 ABOUT YOUR GAUGE**

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The Elcometer 103 Blast Nozzle Gauge is a simple tool designed to give a quick and easy measurement of the orifice size of an abrasive blasting nozzle. Proper use of this gauge can determine nozzle orifice wear which can cause low nozzle pressure and decreased efficiency in the performance of the nozzle's venturi. This wear results in decreased productivity, increased abrasive consumption and improper surface profile.

## 1.1 WHAT THE BOX CONTAINS

- Elcometer 103 Blast Nozzle Gauge
- Wax/grease pencil (inside gauge)
- Leather pouch
- Operating instructions

The Elcometer 103 gauge is packed in a cardboard and foam package. Please ensure that this packaging is disposed of in an environmentally sensitive manner. Please consult your local Environmental Authority for further guidance.



**To maximise the benefits of your new Elcometer 103 Blast Nozzle Gauge please take some time to read these Operating Instructions. Do not hesitate to contact Elcometer or your Elcometer supplier if you have any questions.**

## 2 GETTING STARTED

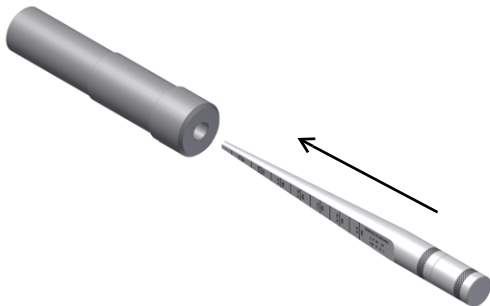
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1. Unscrew cap from gauge body
2. Remove grease pencil from inside body
3. Rub wax/grease pencil along the rounded side of the gauge body.

**Note:** *An area from 3/16" to 5/8" should be marked with grease pencil.*

4. Replace the pencil and screw cap back on to the gauge
5. Depressurise the blast system and remove the nozzle from the blast hose coupling
6. Insert gauge into the back (threaded side) of the blast nozzle
7. Rotate gauge against the liner of the nozzle
8. Remove gauge and record orifice size (in inches) at the point where the the lines have scratched in the wax/grease mark.

**Note:** *The nozzle should be replaced when the orifice is worn more than 1/16" larger than the original orifice size, as this is the point that performance beings to dramatically decline.*



### 3 MAINTENANCE/STORAGE

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You own one of the finest Blast Analyser Gauges in the world. If looked after, it will last a lifetime.

- Do not subject the gauge to a strong impact.
- Clean the gauge with a soft, dry cloth such as those made to clean eyeglasses. Do not use solvents!

### 4 SPARE PARTS AND ACCESSORIES

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Description	Part Number
Wax/grease pencil, pack of 12	T10323558

### 5 RELATED EQUIPMENT

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In addition to the Elcometer 103 Blast Nozzle Gauge, Elcometer produces a wide range of environmental measuring equipment and other equipment for measuring the characteristics of surface coatings.

Users of the Elcometer 103 Blast Nozzle Gauge may also benefit from the following Elcometer products:

- Elcometer 102 Needle Pressure Gauge
- Elcometer 224 Digital Surface Profile Gauge

For further information contact Elcometer, your local Elcometer supplier, or visit [www.elcometer.com](http://www.elcometer.com)