

# User Guide

## Elcometer 103

### Blast Nozzle Gauge

## CONTENTS

---

| <b>Section</b>         | <b>Page</b> |
|------------------------|-------------|
| 1 Overview             | en-2        |
| 2 Box Contents         | en-2        |
| 3 Using the Gauge      | en-2        |
| 4 Care & Maintenance   | en-3        |
| 5 Spares & Accessories | en-3        |
| 6 Warranty Statement   | en-3        |
| 7 Gauge Markings       | en-3        |



For the avoidance of doubt, please refer to the original English language version.

The Elcometer 103 is packed in a cardboard package. Please ensure that all packaging is disposed of in an environmentally sensitive manner. Consult your local Environmental Authority for further guidance.

elcometer® is a registered trademark of Elcometer Limited, Edge Lane, Manchester, M43 6BU.  
United Kingdom

All other trademarks acknowledged.

© Elcometer Limited 2018. All rights reserved. No part of this document may be reproduced, transmitted, transcribed, stored (in a retrieval system or otherwise) or translated into any language, in any form or by any means (electronic, mechanical, magnetic, optical, manual or otherwise) without the prior written permission of Elcometer Limited.

## 1 OVERVIEW

---

The Elcometer 103 Blast Nozzle Gauge has been designed to provide 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.

## 2 BOX CONTENTS

---

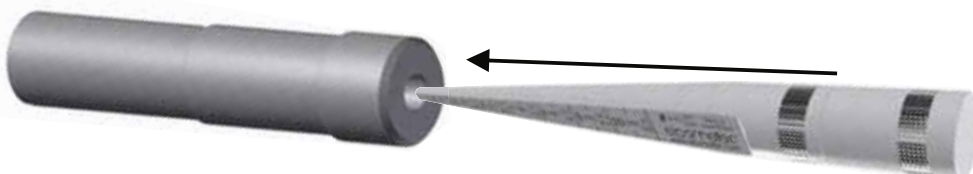
- Elcometer 103 Blast Nozzle Gauge
- Black Wax Pencil (stored inside the gauge)
- Protective Case
- User Guide

## 3 USING THE GAUGE

---

- 1 Unscrew the cap from the gauge body.
- 2 Remove the wax pencil from inside the gauge body.
- 3 Rub the wax pencil along the rounded side of the gauge body.
  - ▶ An area from 3/16" to 5/8" should be marked with grease pencil.
- 4 Replace the wax pencil and screw the cap back on to the gauge.
- 5 Depressurise the blast system and remove the nozzle from the blast hose coupling.
- 6 Insert the gauge into the back (threaded side) of the blast nozzle.
- 7 Rotate the gauge against the liner of the nozzle.
- 8 Remove the gauge and record the orifice size (in inches) at the point where the lines have scratched in the wax mark.

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 begins to dramatically decline.



## 4 CARE & MAINTENANCE

---

To prolong the life of the Elcometer 103:

- Do not subject the gauge to strong impact.
- Clean the gauge with a soft, dry cloth. Do not use solvents.

## 5 SPARES & ACCESSORIES

---

Each gauge is supplied with one black wax pencil. Additional spare / replacement pencils are available to purchase separately.

| Description                  | Part Number |
|------------------------------|-------------|
| Black Wax Pencil, Pack of 12 | T10329146   |

## 6 WARRANTY STATEMENT

---

The Elcometer 103 is supplied with a one year warranty against manufacturing defects, excluding contamination and wear.

## 7 GAUGE MARKINGS

| Nozzle Size | #4  | #5   | #6  | #7   | #8   | #9   | #10 |
|-------------|-----|------|-----|------|------|------|-----|
| mm          | 6.4 | 8    | 9.5 | 11   | 12.7 | 14.3 | 16  |
| inch        | 1/4 | 5/16 | 3/8 | 7/16 | 1/2  | 9/16 | 5/8 |
| CFM         | 81  | 137  | 196 | 254  | 338  | 430  | 548 |

