



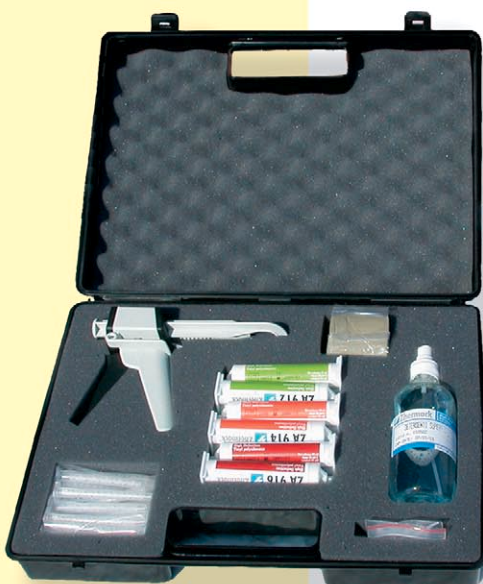
The new, non-destructive way to measure internal dimensions

Metro-FORM is a silicone based polymer that can be injected into blind holes, internal cavities and threaded components. Where conventional techniques would involve the destructive testing of a component, **Metro-FORM** allows a highly accurate internal representation of the component to be made, leaving the original test piece intact. This moulding can then be easily removed and measured using standard non-contact gauging equipment.

The high performance silicone polymer is elastic enough to allow removal, but stable enough to reproduce the moulded shape to a very high level of accuracy. A range of silicon compounds is available to maximise accurate measurement of different types of part (see datasheet overleaf).

For rapid, repeatable and accurate gauging of internal features, **Metro-FORM** offers a unique solution.

Internal threads - Injectors - Mould cavities - Dies - Internal bores - Blind holes



The easy to use **Metro-FORM** kit allows for rapid preparation of internal feature mouldings, on the shop floor.

In a matter of minutes, these can be removed and accurately measured using non-contact optical measuring systems. The original component is left undamaged.

Everything needed to create the moulding is included in the kit. Production downtime is minimised and test component scrap is eliminated.





Each **Metro-FORM** kit consists of:

- Rugged carry case
- Two cartridges of each compound type
 - 2 x ZA912 (soft green)
 - 2 x ZA914 (orange)
 - 2 x ZA916 (firm red)
- Dispensing gun
- Assorted nozzle types
- Micro-funnel set (for small orifices)
- Detergent bottle for grease removal
- Putty to seal off open channels & create hand-holds



Three compounds of varying hardness are available, the choice of compound depending on the type of feature to be measured.

Green is the softest compound, suitable for complex internal features or where the most flexibility is needed to remove the moulding from the component.

Red is the hardest compound, suitable where little manipulation is needed to remove the moulding.

Compounds can be mixed in applications where a range of properties are required.

Compound	ZA 912 Green	ZA 914 Orange	ZA 916 Red
Hardness (Shore A)	20	40	60
Setting time (mins at 23°C)	25	25	25
Linear shrinkage (max after 5 days)	0.04%	0.04%	0.04%

Metro-FORM

Metro-FORM is supplied by Vision Engineering, specialists in optical inspection & non-contact measuring systems for over 45 years. Worldwide support is available through a network of international offices and distributor network. Assistance is never further than a phone call away.

UK & International

Tel: +44 (0) 1483 248 300
generalinfo@visioneng.com
www.visioneng.com

France

Tel: +33 (0) 164 46 90 82
info@visioneng.fr
www.visioneng.fr

USA

Tel: +1 (860) 355 3776
info@visioneng.com
www.visioneng.com

Germany

Tel: +49 (0) 8141 40167-0
info@visioneng.de
www.visioneng.de

Japan

Tel: +81 (0)45 935 1117
info@visioneng.jp
www.visioneng.jp

Italy

Tel: +39 02 6129 3518
info@visioneng.it
www.visioneng.it