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# METRA 1D



For Workshops and Laboratories



Manual & Motorised Displacements



Air Cushion System



Adjustable Panel



Colour & Soft Touch Keypad



Included NABL Certificate



1D Measurement Mode



# METRA 2D



For Workshops and Laboratories



Manual & Motorised Displacements



Air Cushion System



Adjustable Panel



Colour & Soft Touch Keypad



Included NABL Certificate



1D & 2D Measurement Mode



## Technical Information

| Machine Specifications   | Metra 1D M/H                                | Metra 1D M/H    | Metra 1D M/H      |
|--------------------------|---|-----------------|-------------------|
| Measuring Range          | 450 mm                                      | 700mm           | 1000mm            |
| Expandable Range         | 765 mm/830 mm                               | 1015 mm/1080 mm | 1315 mm / 1380 mm |
| Resolution               | 0.01 / 0.005 / 0.001 / 0.0005 mm            |                 |                   |
| Repeatability (2σ)       | On Plane ≤ 0.0015 mm<br>On Bore ≤ 0.0030 mm |                 |                   |
| Max. Measurement Speed   | 600 mm/sec                                  |                 |                   |
| Measuring Force          | 1.2 N ± 0.2                                 |                 |                   |
| Max. Permissible Error * | 2.5+L / 250 μm (L=Length in mm)             |                 |                   |
| Squareness **            | 0.0065 mm                                   | 0.010 mm        | 0.015 mm          |
| Air Cushion              | Standard                                    |                 |                   |
| Operation Time (Battery) | 20 Hrs                                      |                 |                   |
| Operation Temperature    | 10°C to 40°C                                |                 |                   |
| Weight                   | 23 Kg                                       | 27 Kg           | 30 Kg             |
| Standard Probe           | Carbide Ball Ø 6 x 48 mm                    |                 |                   |

\*Values valid with standard ball probe at temperature 20°C ± 0.5 °C

\*\*With electronic probe Magnascam50

## Technical Information

| Machine Specifications   | Metra 2D M/H                                | Metra 2D M/H | Metra 2D M/H |
|--------------------------|---|--------------|--------------|
| Measuring Range          | 450 mm                                      | 700mm        | 1000mm       |
| Expandable Range         | 830 mm                                      | 1080 mm      | 1380mm       |
| Resolution               | 0.010 / 0.005 / 0.001 / 0.0005 / 0.0001 mm  |              |              |
| Repeatability (2σ)       | On Plane ≤ 0.0010 mm<br>On Bore ≤ 0.0020 mm |              |              |
| Max. Measurement Speed   | 1000 mm/sec                                 |              |              |
| Measuring Force          | 1.0 N ± 0.2                                 |              |              |
| Max. Permissible Error * | 2+L / 330 μm (L=Length in mm)               |              |              |
| Squareness **            | 0.005 mm                                    | 0.006 mm     | 0.010 mm     |
| Air Cushion              | Standard                                    |              |              |
| Operation time (Battery) | 16 Hrs                                      |              |              |
| Operation Temperature    | 10°C to 40°C                                |              |              |
| Weight                   | 23 Kg                                       | 27 Kg        | 30 Kg        |
| Standard Probe           | Ruby Ball Ø 6 x 48 mm                       |              |              |

\*Values valid with standard ball probe at temperature 20°C ± 0.5 °C

\*\*With electronic probe Magnascam50