

## Specyfikacja wymiarowa sond pomiarowych (EBST)

Dostępny jest szeroki wachlarz sond pomiarowych począwszy od wbudowanych w korpus miernika (PINIP) poprzez sondy na przewodach (proste, kątowe, miniaturowe) aż do sond wysokotemperaturowych czy wodoodpornych. Każda sonda dostarczona jest wraz z certyfikatem dokładności i foliami kalibracyjnymi. Sondy Ferromagnetyczne (F) służą do pomiaru powłok nieprzewodzących na podłożach ferromagnetycznych (stal węglowa). Sondy nie-ferromagnetyczne służą do pomiaru powłok nieprzewodzących na metalowych podłożach przewodzących (np. stале wysokostopowe, aluminium). Sondy dual (FNF) mają zastosowanie w obu ww. przypadkach z automatycznym wykrywaniem rodzaju podłoża

Minimalna grubość podłoża: Ferrous: 0.3mm (12mils)  
Non-Ferrous: 0.1mm (4mils)

Maksymalna temp. pracy Ferrous: 150°C (300°F)  
Non-Ferrous: 80°C (176°F)  
PINIP: 80°C (176°F)  
PINIP (High Temp): 250°C (480°F)

Zakres przechowywania -10 to 60°C (14 to 140°F)

### SCALE 1

Zakres 0 - 1500µm (0 - 60mils)

Rozdzielczość 0.1µm...: 0 - 100µm; 1µm: 100 - 1500µm  
(0.01mil: 0 - 5mils; 0.1mil: 5 - 60mils)

Dokładność ±1-3% or ±2.5µm (±1-3% or ±0.1mil)

Minimalna  
średnica  
krzywizny  
wypukłej



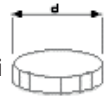
Minimalny  
promień  
krzywizny  
wklęsłej



Minimalny  
odstęp dla  
głowicy  
pomiarowej



Minimalna  
średnica próbki



| Rodzaj sondy           |             | Minimum Convex Surface Diameter             | Minimum Concave Surface Radius | Minimum Headroom                             | Minimum Sample Diameter                    |
|------------------------|-------------|---|--------------------------------|--|--|
| Prosta                 | Ferrous     | 4mm (0.16")                                 | 25mm (0.98")                   | 85mm (3.35")                                 | 4mm (0.16")                                |
|                        | Non-Ferrous | 10mm (0.39")                                | 10mm (0.39")                   | 85mm (3.35")                                 | 4mm (0.16")                                |
|                        | Dual FNF    | F Mode: 4mm (0.16")<br>N Mode: 26mm (1.02") | 12.5mm (0.49")                 | 88mm (3.46")                                 | F Mode: 4mm (0.16")<br>N Mode: 6mm (0.24") |
| Kątowa<br>(kąt prosty) | Ferrous     | 4mm (0.16")                                 | 25mm (0.98")                   | 28mm (1.10")                                 | 4mm (0.16")                                |
|                        | Non-Ferrous | 10mm (0.39")                                | 14mm (0.55")                   | 28mm (1.10")                                 | 4mm (0.16")                                |
|                        | Dual FNF    | F Mode: 4mm (0.16")<br>N Mode: 26mm (1.02") | 12.5mm (0.49")                 | 38mm (1.50")                                 | F Mode: 4mm (0.16")<br>N Mode: 6mm (0.24") |
| Mini M5                | Ferrous     | 3mm (0.12")                                 | 6.5mm (0.26")                  | Headroom: 16mm (0.63")<br>Width: 7mm (0.28") | 4mm (0.16")                                |
| Anodiser               | Non-Ferrous | 10mm (1.38")                                | 14mm (0.55")                   | 100mm (3.94")                                | 4mm  |
| PINIP                  | Ferrous     | 4mm (0.16")                                 | 60mm (2.36")                   | 170mm (6.69")                                | 4mm (0.16")                                |
|                        | Non-Ferrous | 10mm (0.39")                                | 50mm (1.97")                   | 180mm (7.09")                                | 4mm (0.16")                                |
|                        | Dual FNF    | F Mode: 4mm (0.16")<br>N Mode: 26mm (1.02") | 65mm (2.56")                   | 180mm (7.09")                                | F Mode: 4mm (0.16")<br>N Mode: 6mm (0.24") |





\* należy brać pod uwagę większy z parametrów

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## en **SCALE 2**





|            |  |
|------------|--|
| Range      | 0 - 5mm (0 - 200mils)  |
| Resolution | 1µm: 0 - 1mm; 10µm: 1 - 5mm<br>(0.1mil: 0 - 50mils; 1mil: 5 - 200mils) |
| Accuracy   | ±1-3% or ±20µm (±1-3% or ±1.0mil)                                      |

For higher resolution and accuracy on thin coatings Scale 2 ferrous probes can be switched to Scale 1 mode for better measurement performance

| Probe Design |             |  Minimum Convex Surface Diameter |  Minimum Concave Surface Radius |  Minimum Headroom |  Minimum Sample Diameter |
|--------------|-------------|---|--|--|---|
| Straight     |             |   |  |  |   |
| Armoured     | Ferrous     | 4mm (0.16")   | 25mm (0.98")   | 138mm (5.43")  | 8mm (0.32")   |
| Telescopic   | Ferrous     | 4mm (0.16")   | 25mm (0.98")   | 36mm (1.42")   | 8mm (0.32")   |
| Soft Coating | Ferrous     | Flat Surface  | Flat Surface   | 89mm (3.50")   | 8mm   |
| Waterproof   | Ferrous     | 4mm (0.16")   | 40mm (1.98")   | 130mm (5.12")  | 8mm (0.32")   |
| PINIP        | Ferrous     | 4mm (0.16")   | 60mm (2.36")   | 174mm (6.85")  | 8mm (0.32")   |
|              | Non-Ferrous | 100mm (3.97")   | 150mm (5.90")  | 185mm (7.28")  | 14mm (0.55")  |

## **SCALE 3**





|            |  |
|------------|--|
| Range      | 0 - 13mm (0 - 500mils)   |
| Resolution | 1µm: 0 - 2mm; 10µm: 2 - 13mm<br>(0.1mil: 0 - 100mils; 1mil: 100 - 500mils) |
| Accuracy   | ±1-3% or ±50µm (±1-3% or ±2.0mils)   |

| Probe Design |         |  Minimum Convex Surface Diameter |  Minimum Concave Surface Radius |  Minimum Headroom |  Minimum Sample Diameter |
|--------------|---------|---|--|--|---|
| Straight     | Ferrous | 15mm (0.59")  | 40mm (1.57")   | 102mm (4.02")  | 14mm (0.55")  |
| PINIP        | Ferrous | 15mm (0.59")  | 45mm (1.77")   | 184mm (7.24")  | 14mm (0.55")  |

\* należy brać pod uwagę większy z parametrów


## SCALE 6

|            |  |
|------------|--|
| Range      | Ferrous: 0 - 25mm (0 - 980mils)<br>Non-Ferrous: 0 - 30mm (0 - 1200mils)      |
| Resolution | 10µm: 0 - 2mm; 100µm: 2 - 30mm<br>(1mil: 0 - 100mils; 10mil: 100 - 1200mils) |
| Accuracy   | ±1-3% or ±100µm (±1-3% or ±4.0mils)  |

| Probe Design |             |  Minimum Convex Surface Diameter |  Minimum Concave Surface Radius |  Minimum Headroom |  Minimum Sample Diameter |
|--------------|-------------|---|--|--|---|
| Straight     | Ferrous     | 35mm (1.40")  | 170mm (6.70")  | 150mm (5.90")  | 51 x 51mm <sup>2</sup><br>(2 x 2 sq. inch)  |
|              | Non-Ferrous | Flat Surface  | Flat Surface   | 160mm (6.30")  | 58mm (2.30")  |
| Armoured     | Ferrous     | 35mm (1.40")  | 170mm (6.70")  | 190mm (7.48")  | 51 x 51mm <sup>2</sup><br>(2 x 2 sq. inch)  |
|              | Non-Ferrous | Flat Surface  | Flat Surface   | 200mm (7.87")  | 58mm (2.30")  |

## SCALE 0.5

|            |   |
|------------|---|
| Range      | 0 - 500µm (0 - 20mils)  |
| Resolution | 0.1µm: 0 - 100µm; 10µm: 100 - 500µm<br>(0.01mil: 0 - 5mils; 0.1mil: 5 - 20mils) |
| Accuracy   | ±1-3% or ±2.5µm (±1-3% or ±0.1mil)  |

| Probe Design                 |             |  Minimum Convex Surface Diameter |  Minimum Concave Surface Radius |  Minimum Headroom |  Minimum Sample Diameter |
|------------------------------|-------------|---|--|--|---|
| Mini-M3<br>45mm (1.77")      | Ferrous     | 1.9mm (0.07")   | 6.5mm (0.26")  | 6mm (0.24")  | 3mm (0.12")   |
|                              | Non-Ferrous | 6mm (0.24")   | 8.5mm (0.33")  | 6mm (0.24")  | 4mm (0.16")   |
| Mini-M3-90°<br>45mm (1.77")  | Ferrous     | 1.9mm (0.07")   | 6.5mm (0.26")  | Headroom: 16mm (0.63")<br>Width: 7mm (0.28")   | 3mm (0.12")   |
|                              | Non-Ferrous | 6mm (0.24")   | 8.5mm (0.33")  | Headroom: 16mm (0.63")<br>Width: 7mm (0.28")   | 4mm (0.16")   |
| Mini-M3-45°<br>45mm (1.77")  | Ferrous     | 1.9mm (0.07")   | 6.5mm (0.26")  | Headroom: 18mm (0.71")<br>Width: 7mm (0.28")   | 3mm (0.12")   |
| Mini-M3-90°<br>150mm (5.90") | Ferrous     | 1.9mm (0.07")   | 6.5mm (0.26")  | Headroom: 16mm (0.63")<br>Width: 7mm (0.28")   | 3mm (0.12")   |
|                              | Non-Ferrous | 6mm (0.24")   | 8.5mm (0.33")  | Headroom: 16mm (0.63")<br>Width: 7mm (0.28")   | 4mm (0.16")   |

\* Whichever is the greater

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