

eddyliner®P, P2 / P3 / P4 / P16 – eddynamic® – eddysort®

Encircling Coils

Probes

Flat Coils

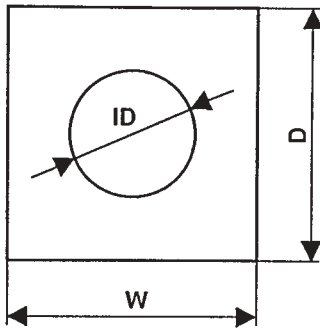


Structure Testing with ibg:
Maximum Test Reliability and Temperature Stability

- Wide range of standard accessories
- Suitable for all ibg structure testing instruments
- Coils and probes made to specification



Standard encircling coils:



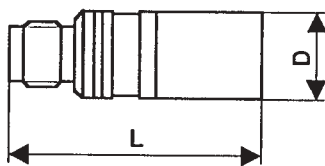
| Size | Dimensions W [mm] x D [mm] x H [mm] | Inner diameter ID [mm] |
|------|--|---------------------------|
| 1 | 80 x 80 x 35 | 10, 16, 25, 40 |
| 2 | 150 x 150 x 50 | 50, 63, 80, 100, 125 |
| 3 | 250 x 250 x 50 | 160, 200 |
| 4 | 380 x 380 x 50 | 250, 300 |

(Different inner diameters ID can be made to specification)



Frequency ranges: 25 Hz – 25 kHz (standard)
5 Hz – 5 kHz
100 Hz – 100 kHz

Standard Probes:



| Diameter D [mm] | Length L [mm] | Frequency range |
|--------------------|------------------|-------------------|
| 10 | 46 | 2,5 kHz – 250 kHz |
| 16 | 47 | 250 Hz – 25 kHz |
| 25 | 51 | 25 Hz – 2,5 kHz |

Application References:

| Operative range | Frequency range | Probe | Encircling coil | Encircling coil shielded | Rectangular coil | Flat coil |
|------------------------|------------------|-------|-----------------|--------------------------|------------------|-----------|
| Material mix | | | | | | |
| ferritic | 25 Hz – 100 kHz | + | ++ | + | ++ | + |
| austenitic | 100 Hz – 100 kHz | ++ | + | o | + | ++ |
| Ni-metals | 100 Hz – 100 kHz | ++ | + | o | + | ++ |
| Hard metals | 50 Hz – 100 kHz | ++ | ++ | + | ++ | ++ |
| Heat treatment | | | | | | |
| Tempering | 25 Hz – 25 kHz | + | ++ | ++ | ++ | + |
| Surface hardness | 100 Hz – 25 kHz | ++ | ++ | ++ | ++ | ++ |
| Case depth (of shafts) | 5 Hz – 400 Hz | - | ++ | + | ++ | - |
| Case depth | 5 Hz – 4 kHz | - | o | o | o | - |
| Carburization | 5 Hz – 25 kHz | + | ++ | + | ++ | + |
| Skin decarburization | 10 kHz – 100 kHz | ++ | + | + | + | ++ |
| Cast iron | | | | | | |
| Nodular cast iron | 5 Hz – 5 kHz | + | ++ | + | ++ | + |
| Ledeburite | 25 Hz – 25 kHz | ++ | + | + | + | ++ |
| Surfaces | | | | | | |
| Grinding abuse | 5 kHz – 100 kHz | ++ | o | o | o | ++ |

++ excellent suitability / + good suitability / o possible / - not possible

Special coils and probes optimally adapted to the respective application can be developed to solve special problems. We would be pleased to inform you about the versatile technical possibilities.

RFS

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