



## Types of eddy-current probes produced by OKOndt GROUP™

- Surface Probes (for different purposes)
  - Subsurface Probes  
(for subsurface defects detection)
  - Dynamic rotating probes  
(for bolt holes and countersink testing;  
manual and scanner)
  - Weld probes  
(for HAZ and welded seam testing)
  - Encircling Coils  
(for pipes, rods and wire testing)
- Etc.

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**OKOndt GROUP™** group proposes standard eddy current probes in a large variety of shapes and sizes, as well as designing of custom probes for a wide variety of applications.

#### PROBE SELECTIONS

- Absolute Probes

This type of probes generally have a single test coil that is used to generate the eddy currents and sense changes in the eddy current field.

Absolute probes can be used for cracks detection, conductivity measurements, thickness measurements for conductive and non-conductive layers and lift-off measurements. They are widely used due to their versatility.

- Differential Probes

Differential probes have two active coils usually wound in opposition. When the two coils are over a flaw-free area of test sample, there is no differential signal appeared between the coils since they are both inspecting identical material. The differential signal appears, when one coil is over a crack and the other is over flaw-free area of testing material.

Differential probes have the advantage of being very sensitive to defects yet relatively insensitive to slowly varying properties such as electrical conductivity, magnetic permeability or temperature variations.

- Reflection Probes

Probes of this type are often referred to as driver/pickup probes. They have at least two coils similar to a differential probe, but one coil is used to excite the magnetic field and eddy currents, and the other is used to sense changes in the test material. The advantages of reflection probes is that the driver and pickup coils can be separately optimized for their intended purpose. The driver coil can be made so as to produce a strong and uniform magnetic field around of the pickup coil, while the pickup coil can be desined very small so that it will be sensitive to very small defects.

#### **Types of eddy-current probes emitted by OKOndt GROUP™**

- Surface Probes (for different purposes)
- Subsurface Probes (for subsurface defects detection)
- Dynamic rotating probes  
(for bolt holes and countersink testing; manual and scanner)
- Weld probes (for HAZ and welded seam testing)
- Bobbin Probes (for pipes testing)
- Encircling Coils (for pipes, rods and wire testing), etc.

## 1. PENCIL PROBES

### 1.1. Straight Shaft Surface Probe (Single / Single Shielded)

Sensing element of eddy-current probe coincides with the handle axis



Designation	Tip $\varnothing$ 'D', mm	Length, mm	Centre Frequency	Connector	Material
SU200K3Dx25-115 S	3	115	200 kHz	Microdot	Fe/NFe
SU200K4.5Dx25-115 S	4.5	115	200 kHz	Microdot	Fe/NFe
SU500K3Dx25-115 S	3	115	500 kHz	Microdot	Fe/NFe
SU500K4.5Dx25-115 S	4.5	115	500 kHz	Microdot	Fe/NFe
SU2M2.5Dx25-115 S	2.5	115	2 MHz	Microdot	NFe
SU2M3Dx25-115 S	3	115	2 MHz	Microdot	NFe
SU6M2.5Dx25-115 S	2.5	115	6 MHz	Microdot	NFe

SU 200K 3D x 25 - 115S (Sh)  
1 2 3 4 5

1. SU – surface probe for surface flaws detection.
2. Probe frequency: "HZ" designates the Hz range; "K" designates the kHz range; "M" designates the MHz range.
3. Probe tip diameter, mm
4. Shaft size, mm
5. Total probe length, mm. Standard length - of 115 mm (4,5") can be changed upon request.
6. Probe type designation: "S". "S" – Single coil probe.  
Probes of standard type are manufactured unshielded. In case a shielded probe is required, when making an order, please indicate the letters "Sh" (Shielded) at the end of a designation code.

### 1.2. Straight Shaft Surface Probe (Single / Single Shielded, Bridge)

Sensing element of eddy-current probe coincides with the handle axis



Designation	Tip $\varnothing$ 'D', mm	Length, mm	Centre Frequency	Connector	Material
SU200K3Dx25-75 B	3	75	200 kHz	Triax Lemo/Fischer	Fe/NFe
SU200K4.5Dx25-75 B	4.5	75	200 kHz	Triax Lemo/Fischer	Fe/NFe
SU500K3Dx25-75 B	3	75	500 kHz	Triax Lemo/Fischer	Fe/NFe
SU500K4.5Dx25-75 B	4.5	75	500 kHz	Triax Lemo/Fischer	Fe/NFe
SU2M2.5Dx25-75 B	2.5	75	2 MHz	Triax Lemo/Fischer	NFe
SU2M3Dx25-75 B	3	75	2 MHz	Triax Lemo/Fischer	NFe
SU6M2.5Dx25-75 B	2.5	75	6 MHz	Triax Lemo/Fischer	NFe

SU 200K 3D x 25 - 75 B (Sh)  
1 2 3 4 5 6

1. SU – surface probe for surface flaws detection.
2. Probe frequency: "HZ" designates the Hz range; "K" designates the kHz range; "M" designates the MHz range.
3. Probe tip diameter, mm.
4. Shaft size, mm.
5. Probe length, mm. Standard length of 75 mm (3") can be changed upon request.
6. Probe type designation: "B". "B" – Bridge type probe.  
Probes of standard type are manufactured unshielded. In case a shielded probe is required, when making an order, please indicate the letters "Sh" (Shielded) at the end of a designation code.

## 2. L-SHAPED EDDY-CURRENT PROBES

### 2.1. Right Angle Surface Probe (90° tip, handle angle 15°, Single / Single Shielded),



Designation	Tip $\varnothing$ 'D', mm	Drop length, mm	Length, mm	Centre Frequency	Connector	Material
SU200K5A15°4.5Dx6.4-105 S	4.5	6.4	105	200 kHz	Microdot	Fe/NFe
SU500K5A15°4.5Dx6.4-105 S	4.5	6.4	105	500 kHz	Microdot	Fe/NFe
SU500K5A15°4.5Dx12.7-105 S	4.5	12.7	105	500 kHz	Microdot	Fe/NFe
SU2M5A15°2.5Dx2.7-105 S	2.5	2.7	105	2 MHz	Microdot	NFe
SU2M5A15°3Dx2.7-105 S	3	2.7	105	2 MHz	Microdot	NFe
SU2M5A15°3Dx6.4-105 S	3	6.4	105	2 MHz	Microdot	NFe
SU2M5A15°3Dx12.7-105 S	3	12.7	105	2 MHz	Microdot	NFe
SU6M5A15°2.5Dx6.4-105 S	2.5	6.4	105	6 MHz	Microdot	NFe

**SU 200K 5A 15° 4.5D x 6.4 - 105 S(Sh)**  
**1 2 3 4 5 6 7 8**

1. SU – surface probe for surface flaws detection.
2. Probe frequency: "HZ" designates the Hz range; "K" designates the kHz range; "M" designates the MHz range.
3. Drop angle of a sensing element to the probe axis "5A" is 90°.
4. Angle of a handle.
5. Probe tip diameter, mm
6. Drop length, mm
7. Probe length, mm. Standard length of 105 mm (4") can be changed upon request.
8. Probe type designation: "S". "S" – Single coil probe.

### 2.2. Right Angle Surface Probe (90° tip, Single / Single Shielded)

**Sensing element of eddy-current probe is placed at the angle of 90° to the handle axis.**



Designation	Tip $\varnothing$ 'D', mm	Drop length, mm	Length, mm	Centre Frequency	Connector	Material
SU200K5A4.5Dx6.4-105 S	4.5	6.4	105	200 kHz	Microdot	Fe/NFe
SU500K5A4.5Dx6.4-105 S	4.5	6.4	105	500 kHz	Microdot	Fe/NFe
SU500K5A4.5Dx12.7-105 S	4.5	12.7	105	500 kHz	Microdot	Fe/NFe
SU2M5A2.5Dx2.7-105 S	2.5	2.7	105	2 MHz	Microdot	NFe
SU2M5A3Dx2.7-105 S	3	2.7	105	2 MHz	Microdot	NFe
SU2M5A3Dx6.4-105 S	3	6.4	105	2 MHz	Microdot	NFe
SU2M5A3Dx12.7-105 S	3	12.7	105	2 MHz	Microdot	NFe
SU6M5A2.5Dx6.4-105 S	2.5	6.4	105	6 MHz	Microdot	NFe

**SU 200K 5A 4.5D x 6.4 - 105 S(Sh)**  
**1 2 3 4 5 6 7**

1. SU – surface probe for surface flaws detection.
2. Probe frequency: "HZ" designates the Hz range; "K" designates the kHz range; "M" designates the MHz range.
3. Drop angle of a sensing element to the probe axis "5A" is 90°
4. Probe tip diameter, mm
5. Drop length, mm
6. Probe length, mm. Standard length of 105 mm (4") can be changed upon request.
7. Probe type designation: "S". "S" – Single coil probe.

Probes of standard type are manufactured unshielded. In case a shielded probe is required, when making an order, please indicate the letters "Sh" (Shielded) at the end of a designation code.

### 2.3. Right Angle Surface Probe (90° tip, Single / Single Shielded, Bridge type)

Sensing element of eddy-current probe is placed at the angle of 90° to the handle axis.



Designation	Tip $\varnothing$ 'D', mm	Drop length, mm	Length, mm	Centre Frequency	Connector	Material
SU200K5A4.5Dx6.4-105 B	4.5	6.4	105	200 kHz	Triax Lemo/Fischer	Fe/NFe
SU500K5A4.5Dx6.4-105 B	4.5	6.4	105	500 kHz	Triax Lemo/Fischer	Fe/NFe
SU500K5A4.5Dx12.7-105 B	4.5	12.7	105	500 kHz	Triax Lemo/Fischer	Fe/NFe
SU2M5A2.5Dx2.7-105 B	2.5	2.7	105	2 MHz	Triax Lemo/Fischer	NFe
SU2M5A3Dx2.7-105 B	3	2.7	105	2 MHz	Triax Lemo/Fischer	NFe
SU2M5A3Dx6.4-105 B	3	6.4	105	2 MHz	Triax Lemo/Fischer	NFe
SU2M5A3Dx12.7-105 B	3	12.7	105	2 MHz	Triax Lemo/Fischer	NFe
SU6M5A2.5Dx6.4-105 B	2.5	6.4	105	6 MHz	Triax Lemo/Fischer	NFe

SU 200K 5A 4.5D x 6.4 - 105 B(Sh)  
1 2 3 4 5 6 7

1. SU – surface probe for surface flaws detection.
  2. Probe frequency: "HZ" designates the Hz range; "K" designates the kHz range; "M" designates the MHz range.
  3. Drop angle of a sensing element to the probe axis "5A" is 90°.
  4. Probe tip diameter, mm.
  5. Drop length, mm.
  6. Probe length, mm. Standard length of 105 mm (4") can be changed upon request.
  7. Probe type designation: "B". "B" – Bridge type probe.
- Probes of standard type are manufactured unshielded. In case a shielded probe is required, when making an order, please indicate the letters "Sh" (Shielded) at the end of a designation code.

### 2.4. Angle Shaft Surface Probe (45° tip, Single / Single Shielded)

Sensing element of eddy-current probe is placed at the angle of 45° to the handle axis.



Designation	Tip $\varnothing$ 'D', mm	Drop length, mm	Length, mm	Centre frequency	Connector	Material
SU200K3A4.5Dx6.4-105 S	4.5	6.4	105	200 kHz	Microdot	Fe/NFe
SU500K3A4.5Dx6.4-105 S	4.5	6.4	105	500 kHz	Microdot	Fe/NFe
SU500K3A4.5Dx12.7-105 S	4.5	12.7	105	500 kHz	Microdot	Fe/NFe
SU2M3A2.5Dx2.7-105 S	2.5	2.7	105	2 MHz	Microdot	NFe
SU2M3A3Dx2.7-105 S	3	2.7	105	2 MHz	Microdot	NFe
SU2M3A3Dx6.4-105 S	3	6.4	105	2 MHz	Microdot	NFe
SU2M3A3Dx12.7-105 S	3	12.7	105	2 MHz	Microdot	NFe
SU6M3A2.5Dx6.4-105 S	2.5	6.4	105	6 MHz	Microdot	NFe

SU 200K 3A 4.5D x 6.4 - 105 S(Sh)  
1 2 3 4 5 6 7

1. SU – surface probe for surface flaws detection.
  2. Probe frequency: "HZ" designates the Hz range; "K" designates the kHz range; "M" designates the MHz range.
  3. Drop angle of a sensing element to the probe axis "3A" is 45°.
  4. Probe tip diameter, mm.
  5. Drop length, mm.
  6. Probe length, mm. Standard length of 105 mm (4") can be changed upon request.
  7. Probe type designation: "S". "S" – Single coil probe.
- Probes of standard type are manufactured unshielded. In case a shielded probe is required, when making an order, please indicate the letters "Sh" (Shielded) at the end of a designation code.

## 2.5. Angle Shaft Surface Probe (45° tip, Single / Single Shielded, Bridge type)

Sensing element of eddy-current probe is placed at the angle of 45° to the handle axis.



Designation	Tip $\varnothing$ 'D', mm	Drop length, mm	Length, mm	Centre frequency	Connector	Material
SU200K3A4.5Dx6.4-105 B	4.5	6.4	105	200 kHz	Triax Lemo/Fischer	Fe/NFe
SU500K3A4.5Dx6.4-105 B	4.5	6.4	105	500 kHz	Triax Lemo/Fischer	Fe/NFe
SU500K3A4.5Dx12.7-105 B	4.5	12.7	105	500 kHz	Triax Lemo/Fischer	Fe/NFe
SU2M3A2.5Dx2.7-105 B	2.5	2.7	105	2 MHz	Triax Lemo/Fischer	NFe
SU2M3A3Dx2.7-105 B	3	2.7	105	2 MHz	Triax Lemo/Fischer	NFe
SU2M3A3Dx6.4-105 B	3	6.4	105	2 MHz	Triax Lemo/Fischer	NFe
SU2M3A3Dx12.7-105 B	3	12.7	105	2 MHz	Triax Lemo/Fischer	NFe
SU6M3A2.5Dx6.4-105 B	2.5	6.4	105	6 MHz	Triax Lemo/Fischer	NFe

- SU** **200K** **3A** **4.5D** x **6.4** - **105** **B(Sh)**  
**1** **2** **3** **4** **5** **6** **7**
1. SU – surface probe for surface flaws detection.
  2. Probe frequency: "HZ" designates the Hz range; "K" designates the kHz range; "M" designates the MHz range.
  3. Drop angle of a sensing element to the probe axis "3A" is 45°.
  4. Probe tip diameter, mm.
  5. Drop length, mm.
  6. Probe length, mm. Standard length of 105 mm (4") can be changed upon request.
  7. Probe type designation: "B". "B" – Bridge type probe.
- Probes of standard type are manufactured unshielded. In case a shielded probe is required, when making an order, please indicate the letters "Sh" (Shielded) at the end of a designation code.

## 3. Surface MDF-Type Probes (Multi-Differential)

The probe sensing element is located form the butt-end relative to the probe X-axis.



Designation mm	Tip $\varnothing$ 'D', mm	Length, mm	Centre frequency	Connector	Material	Defects under paint coating	Subsurface defects	Protective housing
SS1.5M05DA0	5	35	1,5 MHz	Lemo 04	Fe/NFe	up to 0.3 mm	-	-
SS650K06DA0	6	35	650 kHz	Lemo 04	Fe/NFe	up to 0.5 mm	-	-
SS400K07DA0	7	35	400 kHz	Lemo 04	Fe/NFe	up to 0.5 mm	-	-
SS400K08DA0	8	35	400 kHz	Lemo 04	Fe/NFe	up 0.5 mm	-	-
SS340K09DA0	9	35	340 kHz	Lemo 04	Fe/NFe	up to 1 mm	-	+
SS170K13DA0	13	35	170 kHz	Lemo 04	Fe/NFe	up to 7 mm	+	+
SS50K15DA0	15	50	50 kHz	Lemo 04	Fe/NFe	up to 9 mm	+	-
SS25K33DA0	33	50	25 kHz	Lemo 04	Fe/NFe	up to 12 mm	+	-

- SS** **1.5M** **05D** **A** **X**  
**1** **2** **3** **4** **5**
1. SS – subsurface probe for surface and subsurface defects detection.
  2. Probe frequency: "HZ" designates the Hz range; "K" designates the kHz range; "M" designates the MHz range
  3. Probe tip diameter, mm.
  4. Probe type designation "A". "A" – Absolute.
  5. Probe modification number.

## 4. EDDY-CURRENT SURFACE WELD PROBES

### 4.1. Straight Weld Probe (Bridge)



Designation	Tip $\varnothing$ 'D', in/mm	Length, mm	Frequency kHz	Connector	Material	Defects under paint coating	Subsurface defects
WLD100K3x.2DA0	.2/5.1	75	100-1000	Lemo 04	Fe	up to 0.3 mm	+
WLD100K3x.35DA0	.35/8.9	75	100-1000	Lemo 04	Fe	up to 0,5 mm	+
WLD100K3x.43DA0	.43/10.9	75	100-1000	Lemo 04	Fe	up to 0,5 mm	+
WLD100K3x.63DA0	.63/16	75	100-600	Lemo 04	Fe	up to 1 mm	+
WLD100K3x1DA0	1/25.4	75	100-600	Lemo 04	Fe	up to 1.5 mm	+

WLD 100K 3 x .63D A 0  
1 2 3 4 5 6

1. WLD – weld probe for weld joints testing.
2. Probe frequency: "HZ" designates the Hz range; "K" designates the kHz range; "M" designates the MHz range.
3. Probe length, in. Standard length 3" (75 mm), by default the size is specified in inches.
4. The probe tip diameter, inches.
5. Probe type designation "A". "A" – Absolute.
6. Probe modification number.

### 4.2. Right Angle Weld Probe (90° tip, Inline, Bridge)



Designation	Tip $\varnothing$ 'D', in/mm	Length, mm	Frequency kHz	Connector	Material	Defects under paint coating	Subsurface defects
WLD100K5A.5x2-.2DA0	.2/5	50	100-1000	Lemo 04	Fe	up to 0.3 mm	+
WLD100K5A.5x2-.35DA0	.35/8.9	50	100-1000	Lemo 04	Fe	up to 0.5 mm	+
WLD100K5A.5x2-.43DA0	.43/10.9	50	100-1000	Lemo 04	Fe	up to 1.5 mm	+
WLD100K5A.5x2-.63DA0	.63/16	50	100-600	Lemo 04	Fe	up to 1 mm	+
WLD100K5A.5x2.5-1DA0	1/25.4	65	100-600	Lemo 04	Fe	up to 1.5 mm	+

WLD 100K 5A .5 x 2 - .63D A 0  
1 2 3 4 5 6 7 8

1. WLD – weld probe for welds testing.
2. Probe frequency: "HZ" designates the Hz range; "K" designates the kHz range; "M" designates the MHz range.
3. Drop angle of sensing element.
4. Drop length, inches.
5. Probe length, inches. Can be changed upon request.
6. Probe tip diameter, inches.
7. Probe type designation "A". "A" – Absolute.
8. Probe modification number.

### 4.3. Right Angle Weld Probe (90° tip, Transverse, Bridge)



Designation	Tip $\varnothing$ 'D', in/mm	Length, mm	Frequency kHz	Connector	Material	Defects under paint coating	Subsurface defects
WLD100K5A.5x2-.2DATO	.2/5	50	100-1000	Lemo 04	Fe	up to 0.3 mm	+
WLD100K5A.x2-.35DATO	.35/8.9	50	100-1000	Lemo 04	Fe	up to 0.5 mm	+
WLD100K5A.5x2-.43DATO	.43/10.9	50	100-1000	Lemo 04	Fe	up to 0.5 mm	+
WLD100K5A.5x2-.63DATO	.63/16	50	100-600	Lemo 04	Fe	up to 1 mm	+
WLD100K5A.5x2.5-1DATO	1/25.4	65	100-600	Lemo 04	Fe	up to 1.5 mm	+

WLD 100K 5A .5 x 2 - .63D AT 0  
1 2 3 4 5 6 7 8

1. WLD – weld probe for welds testing.
2. Probe frequency: "HZ" designates the Hz range; "K" designates the kHz range; "M" designates the MHz range.
3. Drop angle of sensing element.
4. Drop length, inches.
5. Probe length, inches. Can be changed upon request.
6. Probe tip diameter, inches.
7. Probe type designation "AT". "A" – Absolute.
8. Probe modification number.

## 5. ROTATING EDDY-CURRENT PROBES

### 5.1. Manual Bolt Hole Probes with Split Tip

(coils are positioned at right angles to the probe shaft length; Single Unshielded/Shielded)



Designation	Tip Ø'D', mm	Working length (WL), mm	Length, mm	Frequency	Connector	Material
ROM3,1-3,6x85/105SS	3,1 - 3,6	35/51	85/105	200 kHz/500 kHz/2 MHz	Microdot	Fe/NFe
ROM3,6-4,1x85/105SS	3,6 - 4,1	35/51	85/105	200 kHz/500 kHz/2 MHz	Microdot	Fe/NFe
ROM4,1-4,6x85/105SS	4.1 - 4.6	35/51	85/105	200 kHz/500 kHz/2 MHz	Microdot	Fe/NFe
ROM4,6-5.1x85/105SS	4.6 - 5.1	35/51	85/105	200 kHz/500 kHz/2 MHz	Microdot	Fe/NFe
ROM5,1-5,6x85/105SS	5.1 - 5.6	35/51	85/105	200 kHz/500 kHz/2 MHz	Microdot	Fe/NFe
ROM5,6-6,1x85/105SS	5.6 - 6.1	35/51	85/105	200 kHz/500 kHz/2 MHz	Microdot	Fe/NFe
ROM6.1-6.5x85/105SS	6.1 - 6.5	35/51	85/105	200 kHz/500 kHz/2 MHz	Microdot	Fe/NFe
ROM6.5-7.5x85/105SS	6.5 - 7.5	35/51	85/105	200 kHz/500 kHz/2 MHz	Microdot	Fe/NFe
ROM7.5-8.5x85/105SS	7.5 - 8.5	35/51	85/105	200 kHz/500 kHz/2 MHz	Microdot	Fe/NFe
ROM8.5-9.5x85/105SS	8.5 - 9.5	35/51	85/105	200 kHz/500 kHz/2 MHz	Microdot	Fe/NFe
ROM9.5-10.5x85/105SS	9.5 - 10.5	35/51	85/105	200 kHz/500 kHz/2 MHz	Microdot	Fe/NFe
ROM10.5-11.5x85/105SS	10.5 - 11.5	35/51	85/105	200 kHz/500 kHz/2 MHz	Microdot	Fe/NFe
ROM11.5-12.5x85/105SS	11.5 - 12.5	35/51	85/105	200 kHz/500 kHz/2 MHz	Microdot	Fe/NFe
ROM12.5-13.5x85/105SS	12.5 - 13.5	35/51	85/105	200 kHz/500 kHz/2 MHz	Microdot	Fe/NFe
ROM13.5-14.5x85/105SS	13.5 - 14.5	35/51	85/105	200 kHz/500 kHz/2 MHz	Microdot	Fe/NFe
ROM14.5-15.5x85/105SS	14.5 - 15.5	35/51	85/105	200 kHz/500 kHz/2 MHz	Microdot	Fe/NFe
ROM15.5-16.5x85/105SS	15.5 - 16.5	35/51	85/105	200 kHz/500 kHz/2 MHz	Microdot	Fe/NFe
ROM16.5-17.5x85/105SS	16.5 - 17.5	35/51	85/105	200 kHz/500 kHz/2 MHz	Microdot	Fe/NFe
ROM17.5-18.5x85/105SS	17.5 - 18.5	35/51	85/105	200 kHz/500 kHz/2 MHz	Microdot	Fe/NFe
ROM18.5-19.5x85/105SS	18.5 - 19.5	35/51	85/105	200 kHz/500 kHz/2 MHz	Microdot	Fe/NFe
ROM19.5-20.5x85/105SS	19.5 - 20.5	35/51	85/105	200 kHz/500 kHz/2 MHz	Microdot	Fe/NFe
ROM20.5-21.5x85/105SS	20.5 - 21.5	35/51	85/105	200 kHz/500 kHz/2 MHz	Microdot	Fe/NFe
ROM21.5-22.5x85/105SS	21.5 - 22.5	35/51	85/105	200 kHz/500 kHz/2 MHz	Microdot	Fe/NFe
ROM22.5-23.5x85/105SS	22.5 - 23.5	35/51	85/105	200 kHz/500 kHz/2 MHz	Microdot	Fe/NFe
ROM23.5-24.5x85/105SS	23.5 - 24.5	35/51	85/105	200 kHz/500 kHz/2 MHz	Microdot	Fe/NFe
ROM24.5-25.5x85/105SS	24.5 - 25.5	35/51	85/105	200 kHz/500 kHz/2 MHz	Microdot	Fe/NFe

**ROM**    **3.1-3.6**    **x**    **85/105**    **SS(Sh)**  
**1**            **2**                            **3**                            **4**

1. ROM – rotary manual probe for bolt holes testing.
2. Range of tested hole diameters, mm.
3. Probe length, mm, is chosen based on the required working length ("WL").
4. Probe type designation: "SS"  
 "S" (Split) – Split end delrin housing, "S" (Single)  
 Probes of standard type are manufactured unshielded. In case a shielded probe is required, when making an order, please indicate the letters "Sh" (Shielded) at the end of a designation code.



**5.2. Dynamic Rotating Bolt Hole Probe with Split Tip**  
**(coils are positioned at right angles to the probe shaft length;**  
**Differential Unshielded / Shielded)**



Designation	Tip $\varnothing$ 'D', mm	Working length (WL), mm	Length, mm	Frequency	Connector	Material
RO3,1-3,6x85 SD	3,1 - 3,6	45	85	200 kHz -3 MHz	4-pin Fischer connector (to Hocking, GE, Rohmann and Forester drive units, etc.)	Fe/NFe
RO3,6-4,1x85 SD	3,6 - 4,1	45	85	200 kHz -3 MHz		Fe/NFe
RO4,1-4,6x85 SD	4.1 - 4.6	45	85	200 kHz -3 MHz		Fe/NFe
RO4,6-5.1x85 SD	4.6 - 5.1	45	85	200 kHz -3 MHz		Fe/NFe
RO5,1-5,6x85 SD	5.1 - 5.6	45	85	200 kHz -3 MHz		Fe/NFe
RO5,6-6,1x85 SD	5.6 - 6.1	45	85	200 kHz -3 MHz		Fe/NFe
RO6.1-6.5x85 SD	6.1 - 6.5	45	85	200 kHz -3 MHz		Fe/NFe
RO6.5-7.5x85 SD	6.5 - 7.5	45	85	200 kHz -3 MHz		Fe/NFe
RO7.5-8.5x85 SD	7.5 - 8.5	45	85	200 kHz -3 MHz		Fe/NFe
RO8.5-9.5x85 SD	8.5 - 9.5	45	85	200 kHz -3 MHz		Fe/NFe
RO9.5-10.5x85 SD	9.5 - 10.5	45	85	200 kHz -3 MHz		Fe/NFe
RO10.5-11.5x85 SD	10.5 - 11.5	45	85	200 kHz -3 MHz		Fe/NFe
RO11.5-12.5x85 SD	11.5 - 12.5	45	85	200 kHz -3 MHz		Fe/NFe
RO12.5-13.5x85 SD	12.5 - 13.5	45	85	200 kHz -3 MHz		Fe/NFe
RO13.5-14.5x85 SD	13.5 - 14.5	45	85	200 kHz -3 MHz		Fe/NFe
RO14.5-15.5x85 SD	14.5 - 15.5	45	85	200 kHz -3 MHz		Fe/NFe
RO15.5-16.5x85 SD	15.5 - 16.5	45	85	200 kHz -3 MHz		Fe/NFe
RO16.5-17.5x85 SD	16.5 - 17.5	45	85	200 kHz -3 MHz		Fe/NFe
RO17.5-18.5x85 SD	17.5 - 18.5	45	85	200 kHz -3 MHz		Fe/NFe
RO18.5-19.5x85 SD	18.5 - 19.5	45	85	200 kHz -3 MHz		Fe/NFe
RO19.5-20.5x85 SD	19.5 - 20.5	45	85	200 kHz -3 MHz	Fe/NFe	
RO20.5-21.5x85 SD	20.5 - 21.5	45	85	200 kHz -3 MHz	Fe/NFe	
RO21.5-22.5x85 SD	21.5 - 22.5	45	85	200 kHz -3 MHz	Fe/NFe	
RO22.5-23.5x85 SD	22.5 - 23.5	45	85	200 kHz -3 MHz	Fe/NFe	
RO23.5-24.5x85 SD	23.5 - 24.5	45	85	200 kHz -3 MHz	Fe/NFe	
RO24.5-25.5x85 SD	24.5 - 25.5	45	85	200 kHz -3 MHz	Fe/NFe	

**ROM**    **3.1-3.6**    **x**    **85**    **SD (Sh)**  
**1**            **2**            **3**            **4**

1. RO – dynamic rotating probe for bolt holes testing.
2. Range of hole size, mm.
3. Probe length, mm. Standard length of 45 mm (1,8") can be changed upon request. To be chosen based on the required working length ("WL").
4. Probe type designation: "SD".  
 "S" (Split) – Split end delrin housing, flexible body made of delrin "D" (Differential)  
 Probes of standard type are manufactured unshielded. In case a shielded probe is required, when making an order, please indicate the letters "Sh" (Shielded) at the end of a designation code.

### 5. 3. RSVR-04/SVR-05 Rotary scanner. Detection of cracks in holes.



A new family of SVR eddy current scanners is intended to be used with Eddycon eddy current flaw detectors.

The scanners can be operated at various speeds (600 to 3000 rpm) and frequencies (100 kHz to 6 MHz), for a wide range of applications. They are successfully used for testing of holes in aeronautical parts (both with and without fasteners), as well as for testing of wheel bolt holes, surfaces, cracks at a final production stage, inspection through several layers of aircraft skin, etc.

#### SPECIFICATIONS OF SVR-04/SVR-05 SCANNER

- Rotation speed \_\_\_\_\_ 600 to 3000 rpm
- Speed control \_\_\_\_\_ from instrument
- Frequency \_\_\_\_\_ 100 kHz to 6 MHz
- Probe connector \_\_\_\_\_ 4-pin Fischer with O-rings
- Probe type \_\_\_\_\_ Reflection
- Signal generation \_\_\_\_\_ by rotary probe
- Configuration \_\_\_\_\_ portable
- Orientation \_\_\_\_\_ without restraint
- ALARM \_\_\_\_\_ red LED on left panel of the scanner
- Cable connector \_\_\_\_\_ 12-pin LEMO (SVR-04)/16-pin LEMO (SVR-05)
- Dimensions (L x W x H) \_\_\_\_\_ 89 x 25 x 38 mm
- Weight \_\_\_\_\_ 0.11 kg.



### 5.5. Dynamic Rotating Rigid Probe (with stainless steel housing) for bolt holes testing (coils are positioned at right angles to the probe shaft length, Differential Unshielded/Shielded)



Designation	Tip Ø 'D', in (mm)	Working length (WL), mm	Length, mm	Frequency	Connector	Material
RO3.18x85 RD	1/8" (3.18)	45	85	200 kHz -3 MHz	4-pin Fischer connector (to Hocking, GE, Rohmann and Forester drive units, etc.)	Fe/NFe
RO3.57x85 RD	9/64" (3.57)	45	85	200 kHz -3 MHz		Fe/NFe
RO3.97x85 RD	5/32" (3.97)	45	85	200 kHz -3 MHz		Fe/NFe
RO4.37x85 RD	11/64" (4.37)	45	85	200 kHz -3 MHz		Fe/NFe
RO4.76x85 RD	3/16" (4.76)	45	85	200 kHz -3 MHz		Fe/NFe
RO5.16x85 RD	13/64" (5.16)	45	85	200 kHz -3 MHz		Fe/NFe
RO5.56x85 RD	7/32" (5.56)	45	85	200 kHz -3 MHz		Fe/NFe
RO5.95x85 RD	15/64" (5.95)	45	85	200 kHz -3 MHz		Fe/NFe
RO6.35x85 RD	1/4" (6.35)	45	85	200 kHz -3 MHz		Fe/NFe
RO6.75x85 RD	17/64" (6.75)	45	85	200 kHz -3 MHz		Fe/NFe
RO7.14x85 RD	9/32" (7.14)	45	85	200 kHz -3 MHz		Fe/NFe
RO7.54x85 RD	19/64" (7.54)	45	85	200 kHz -3 MHz		Fe/NFe
RO7.94x85 RD	5/16" (7.94)	45	85	200 kHz -3 MHz		Fe/NFe
RO8.33x85 RD	13/64" (8.33)	45	85	200 kHz -3 MHz		Fe/NFe
RO8.73x85 RD	11/32" (8.73)	45	85	200 kHz -3 MHz		Fe/NFe
RO9.13x85 RD	23/64" (9.13)	45	85	200 kHz -3 MHz		Fe/NFe
RO9.52x85 RD	3/8" (9.52)	45	85	200 kHz -3 MHz		Fe/NFe
RO9.92x85 RD	25/64" (9.92)	45	85	200 kHz -3 MHz		Fe/NFe
RO10.32x85 RD	13/32" (10.32)	45	85	200 kHz -3 MHz		Fe/NFe
RO10.72x85 RD	27/64" (10.72)	45	85	200 kHz -3 MHz		Fe/NFe
RO11.11x85 RD	7/16" (11.11)	45	85	200 kHz -3 MHz		Fe/NFe
RO11.51x85 RD	29/64" (11.51)	45	85	200 kHz -3 MHz		Fe/NFe
RO11.91x85 RD	15/32" (11.91)	45	85	200 kHz -3 MHz		Fe/NFe
RO12.30x85 RD	31/64" (12.30)	45	85	200 kHz -3 MHz		Fe/NFe
RO12.70x85 RD	1/2" (12.70)	45	85	200 kHz -3 MHz		Fe/NFe
RO13.10x85 RD	33/64" (13.10)	45	85	200 kHz -3 MHz		Fe/NFe
RO13.49x85 RD	17/32" (13.49)	45	85	200 kHz -3 MHz		Fe/NFe
RO13.89x85 RD	35/64" (13.89)	45	85	200 kHz -3 MHz		Fe/NFe
RO14.29x85 RD	9/16" (14.29)	45	85	200 kHz -3 MHz		Fe/NFe
RO14.68x85 RD	37/64" (14.68)	45	85	200 kHz -3 MHz		Fe/NFe
RO15.08x85 RD	19/32" (15.08)	45	85	200 kHz -3 MHz		Fe/NFe
RO15.48x85 RD	39/64" (15.48)	45	85	200 kHz -3 MHz		Fe/NFe
RO15.88x85 RD	5/8" (15.88)	45	85	200 kHz -3 MHz	Fe/NFe	
RO16.27x85 RD	41/64" (16.27)	45	85	200 kHz -3 MHz	Fe/NFe	
RO16.67x85 RD	21/32" (16.67)	45	85	200 kHz -3 MHz	Fe/NFe	
RO17.07x85 RD	43/64" (17.07)	45	85	200 kHz -3 MHz	Fe/NFe	
RO17.46x85 RD	11/16" (17.46)	45	85	200 kHz -3 MHz	Fe/NFe	
RO17.86x85 RD	45/64" (17.86)	45	85	200 kHz -3 MHz	Fe/NFe	
RO18.26x85 RD	23/32" (18.26)	45	85	200 kHz -3 MHz	Fe/NFe	
RO18.65x85 RD	47/64" (18.65)	45	85	200 kHz -3 MHz	Fe/NFe	
RO19.05x85 RD	3/4" (19.05)	45	85	200 kHz -3 MHz	Fe/NFe	
RO19.45x85 RD	49/64" (19.45)	45	85	200 kHz -3 MHz	Fe/NFe	
RO19.84x85 RD	25/32" (19.84)	45	85	200 kHz -3 MHz	Fe/NFe	
RO20.24x85 RD	51/64" (20.24)	45	85	200 kHz -3 MHz	Fe/NFe	
RO20.64x85 RD	13/16" (20.64)	45	85	200 kHz -3 MHz	Fe/NFe	
RO21.03x85 RD	53/64" (21.03)	45	85	200 kHz -3 MHz	Fe/NFe	
RO21.43x85 RD	27/32" (21.43)	45	85	200 kHz -3 MHz	Fe/NFe	
RO21.83x85 RD	55/64" (21.83)	45	85	200 kHz -3 MHz	Fe/NFe	
RO22.23x85 RD	7/8" (22.23)	45	85	200 kHz -3 MHz	Fe/NFe	
RO22.62x85 RD	57/64" (22.62)	45	85	200 kHz -3 MHz	Fe/NFe	
RO23.02x85 RD	29/32" (23.02)	45	85	200 kHz -3 MHz	Fe/NFe	
RO23.42x85 RD	59/64" (23.42)	45	85	200 kHz -3 MHz	Fe/NFe	
RO23.81x85 RD	15/16" (23.81)	45	85	200 kHz -3 MHz	Fe/NFe	
RO24.21x85 RD	61/64" (24.21)	45	85	200 kHz -3 MHz	Fe/NFe	
RO24.61x85 RD	31/32" (24.61)	45	85	200 kHz -3 MHz	Fe/NFe	
RO25.00x85 RD	63/64" (25.00)	45	85	200 kHz -3 MHz	Fe/NFe	
RO25.40x85 RD	1 (25.40)	45	85	200 kHz -3 MHz	Fe/NFe	

**RO 3.18 x 85 RD (Sh)**  
**1 2 3 4**

1. RO - dynamic rotating probe for bolt holes testing.  
 2. Range of hole size, mm.  
 3. Probe length, mm. Standard length of 45 mm (1.8") can be changed upon request. To be chosen based on the required working length ("WL").

4. Probe type designation: "RD". "R" (Rigid) – rigid metal housing made of stainless steel, "D" (Differential).  
 Probes of standard type are manufactured unshielded. In case a shielded probe is required, when making an order, please indicate the letters "Sh" (Shielded) at the end of a designation code.

## 5.6. Dynamic Rotating Countersink Probe (100° angle of chamfer, Differential Unshielded / Shielded)



Designation	Guide hole diameter "D", mm/inch	Countersink angle, degr.	Length, mm	Frequency	Connector	Material
RCP-100° - 3.17	3.17/.125	100	64	200 kHz -3 MHz	4-pin Fischer connector (to Hocking, GE, Rohmann and Forester drive units)	Fe/NFe
RCP-100° - 3.96	3.96/.156	100	64	200 kHz -3 MHz		Fe/NFe
RCP-100° - 4	4/.157	100	64	200 kHz -3 MHz		Fe/NFe
RCP-100° - 4.75	4.75/.187	100	64	200 kHz -3 MHz		Fe/NFe
RCP-100° - 5	5/.197	100	64	200 kHz -3 MHz		Fe/NFe
RCP-100° - 6	6/.236	100	64	200 kHz -3 MHz		Fe/NFe
RCP-100° - 6.34	6.34/.25	100	64	200 kHz -3 MHz		Fe/NFe
RCP-100° - 7	7/.276	100	64	200 kHz -3 MHz		Fe/NFe
RCP-100° - 7.92	7.92/.312	100	64	200 kHz -3 MHz		Fe/NFe
RCP-100° - 9	9/.354	100	64	200 kHz -3 MHz		Fe/NFe
RCP-100° - 9.52	9.52/.375	100	64	200 kHz -3 MHz		Fe/NFe
RCP-100° - 11	11/.433	100	64	200 kHz -3 MHz		Fe/NFe
RCP-100° - 11.09	11.09/.437	100	64	200 kHz -3 MHz		Fe/NFe
RCP-100° - 12.69	12.69/.5	100	64	200 kHz -3 MHz		Fe/NFe
RCP-100° - 13	13/.512	100	64	200 kHz -3 MHz		Fe/NFe
RCP-100° - 14.26	14.26/.562	100	64	200 kHz -3 MHz		Fe/NFe
RCP-100° - 15	15/.59	100	64	200 kHz -3 MHz		Fe/NFe
RCP-100° - 15.86	15.86/.625	100	64	200 kHz -3 MHz		Fe/NFe
RCP-100° - 17.44	17.44/.687	100	64	200 kHz -3 MHz		Fe/NFe
RCP-100° - 19.03	19.03/.75	100	64	200 kHz -3 MHz	Fe/NFe	

RCP - 100° - 3.17 (SS/Sh)  
 1            2            3            4

1. RCP – dynamic rotating probe for hole countersinks testing.
2. Countersink angle, degr.
3. Range of hole size, mm.
4. Guide hole diameter, mm.
5. The housing of a standard probe is made of delrin; in case a stainless steel housing is required, please indicate the letters "SS" (Stainless Steel) at the end of a probe designation code in your order. Probes of standard type are manufactured unshielded. In case a shielded probe is required, when making an order, please indicate the letters "Sh" (Shielded) at the end of a designation code.  
 It is possible to manufacture the probes for countersink testing with other angles. For this, the required countersink angle should be specified in the order.

## 6. Eddy-Current Probes for Sub-Surface Flaws Detection

### 6.1. Straight Shaft Probe for sub-surface flaws detection in the second layer, through the first layer with up to 1.5 mm thickness (e.g., testing of load-bearing elements under aircraft skin) (Reflection type)



Designation	Outer diameter, mm/inch	Length, mm/inch	Frequency kHz	Connector	Material	Detected flaws
SSP3K11DASh	11/.43	39/1.5	1-25	Lemo 04	NFe	in aluminum through skin with up to 1.5 mm thickness in titanium at 5 mm depth
SSP25K7DA	7/.28	50/2	12-40	Lemo 04	NFe	in aluminum through skin with up to 1.5 mm thickness
SSP25K10DA1	10/.39	50/2	12-40	Lemo 04	NFe	in aluminum through skin with up to 1.5 mm thickness
SSP25K10DA0	10/.39	50/2	12-40	Triax Lemo/ Fischer	NFe	in aluminum through skin with up to 1.5 mm thickness

SSP 3K 11D A (Sh)  
1 2 3 4 5

1. SSP – sub-surface probe for subsurface flaws detection.
2. Probe frequency: "HZ" designates the Hz range; "K" designates the kHz range; "M" designates the MHz range.
3. Probe tip diameter, mm.
4. Probe type designation: "A". A – Absolute.
5. Sh – shielded sensing element.  
Absence of such designation mark means that the sensing element is made unshielded.

### 6.2. L-Shaped Probe for sub-surface flaws detection in the second layer, through the first layer with up to 1.5 mm thickness (e.g., testing of load-bearing elements under aircraft skin) (Reflection type)



Designation	Outer diameter, mm/inch	Drop length, mm/inch	Length, mm/inch	Frequency kHz	Connector	Material	Detected flaws
SSP3K5A.5Dx3-37ASh	7.5/.3	3/.12	37/1.5	1-25	Triax Lemo/Fischer	NFe	in aluminum through skin with up to 1.5 mm thickness
SSP3K5A7.5Dx6.4-37ASh	7.5/.3	6.4/.25	37/1.5	1-25		NFe	
SSP3K5A7.5Dx12.5-37ASh	7.5/.3	12.5/.5	37/1.5	1-25		NFe	

SSP 3K 5A 7.5D x 3 - 37 A (Sh)  
1 2 3 4 5 6 7 8

1. SSP – sub-surface probe for subsurface flaws detection.
2. Probe frequency: "HZ" designates the Hz range; "K" designates the kHz range; "M" designates the MHz range.
3. Drop angle of a sensing element to the probe axis "5A" is 90°.
4. Probe tip diameter, mm
5. Drop length, mm
6. Total probe length, mm.
7. Probe type designation: "A". A – Absolute.
8. Sh – shielded sensing element.

## 7. Encircling probe for testing the cylindrical objects made of non-magnetic materials (Bridge type)



Designation	Outer diameter, mm/inch	Centre frequency kHz	Frequency range, kHz	Connector	Material
ID250K9.3DD0	from 3 to 180/from .12 to 7	15	2-60	Lemo 04	NFe
		50	10-250		
		250	50-500		
		600	200-1200		

- |           |             |             |          |          |  |
|-----------|-------------|-------------|----------|----------|--|
| <b>ID</b> | <b>250K</b> | <b>9.3D</b> | <b>D</b> | <b>0</b> | <ol style="list-style-type: none"> <li>1. ID – round encircling probe for surface flaws detection.</li> <li>2. Probe frequency: "HZ" designates the Hz range; "K" designates the kHz range; "M" designates the MHz range.</li> <li>3. Through hole diameter, mm.</li> <li>4. Probe type designation: "D". <b>D</b> – Differential.</li> <li>5. Probe modification number.</li> </ol> |
| <b>1</b>  | <b>2</b>    | <b>3</b>    | <b>4</b> | <b>5</b> |  |



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