

# Tubing Inspection Probes

## Eddy Current and Remote Field

### Tubing Inspection Probes for Power Generation, Oil & Gas, and HVAC Applications

GE Sensing & Inspection Technologies tubing probes are designed to meet the stringent inspection needs of Balance-of-Plant applications in the Power Generation, Oil & Gas, and Air Conditioner industries for non-ferrous and ferrous tubing. GE is a dedicated manufacturer, providing customers with high-quality and cost-effective probes for their inspection needs.

### Features and Benefits

- ID tubing probes are made with high performance materials and adhesives for excellent abrasion resistance and long life.
- Proprietary long-life kink resistant poly shafts increase probe life, improve durability, and ensure inspection ease.
- Many common eddy current and remote field probe are on the shelf and ready for shipment; rapid turn-around time for orders of up to 10 probes.



# Eddy Current Probes for Balance-of-Plant Non-Ferrous Tubing

- Designed for inspection of non-ferrous tubing in balance-of-plant applications in the Oil & Gas and Power Generation industries.
- Probe diameters from 0.380 inch to 1.5 inch (9.65 mm to 38.1 mm) in 0.010 inch (0.254 mm) increments.
- Small diameter probes also; diameters from 0.270 inch (6.86 mm) to 0.370 inch (9.40 mm); probes on 0.25 inch poly shaft in 50 ft length.
- Probes available with standard poly shaft lengths of 65 ft, 80 ft, 100 ft and 120 ft (19.8 m, 24 m, 30.5 m and 36.5 m).
- All probes have industry standard four-pin Amphenol® connectors.
- ID probes available in Barnacle Scraper (BS) and Chamfered Barnacle Scraper designs.
- Magnetically biased versions of both probe configurations are available.
- Probes available in low, mid, and high frequency ranges:
  - Low range center frequency: 150 kHz
  - Mid range center frequency: 300kHz
  - High range center frequency: 600kHz



Eddy Current ID probes for balance-of-plant non-ferrous tubing

## For Help in Determining your ID Probe Diameter...

Log on to the [www.geinspectiontechnologies.com/en/products/eddy\\_current/probes/calculator.html](http://www.geinspectiontechnologies.com/en/products/eddy_current/probes/calculator.html) to use our ID probe calculator to custom design your ID probe and generate a part number.

**Organize probe request per inspection information**

Tube OD (Inch)	2.000
Tube Wall (Inch)	0.028
Tube ID (Inch)	1.944
Pick Tube Material	304SS
Resistivity (u-ohm/cm)	72
Prime Freq. (kHz)	918
Frequency Range (HF/MF/LF)	HF
Pick Fill Factor	65%
Probe Size	1.570

**GE Inspection Technologies**

ORDER ENTRY FORM | PURCHASE ORDER FORM

**Instructions:**  
 Provide the Quantity and the Probe Options to place your order. If you do not know the Probe Size, click the Probe Size Calculator link to calculate. [\[ Probe Size Calculator \]](#)  
 Click Delete row to delete an incorrect entry. To add a new row, click Add row.  
 Upon completing the Order Entry Form, click the Purchase Order Form tab to place the Order.

**Note:**  
 BS - Barnacle Scraper  
 CBS - Chamfered Barnacle Scraper  
 MBS - Mag Biased Barnacle Scraper  
 MCB - Mag Biased Chamfered Barnacle Scraper  
 UFP - U-Bend Flex with Para Centering

**Pick probe options and place order**

Item	Quantity	Component Name	Pick Probe Size (Inch)	Pick Probe Model	Pick Freq. Range	Pick Poly Length	Pick Poly OD & Type	GE Probe Model #	GE Part #
1			0.380	BS	HF	65	3/8-Type G	0.380-ES-HF-65-3/8-G	002-621-403

Probe size calculator

Probe order entry form

# Remote Field Probes (RFT) for Ferrous Tubing

- Designed for inspection of ferrous tubing in the Oil & Gas and Petrochemical industries
- All probes encased in a stainless steel sleeve.
- Probe diameters from 0.312 inch (7.92 mm) to 0.750 inch (19.1 mm).
- Probes available with standard poly shaft length of 65 ft (19.8 m).
- Probes come with three- and six- pin Amphenol® connectors.

*Available probes and part number table on back cover*



Eddy Current RFT probes

# Eddy Current Probes for Air Conditioner Tubing

- Designed for inspection of non-ferrous tubing in industrial HVAC units.
- All probes are encased in a stainless steel sleeve.
- Cross-wound coil design for detection of omni-directional defects.
- Probe sizes: 0.409 inch (10.4 mm) to 0.800 inch (20.32 mm)
- Probes available with standard poly shaft length of 35 ft (10.7 m).
- Probes come with standard 4-pin Amphenol connectors.

*Available probes and part number table on back cover*



Eddy Current ID probes for air conditioner tubing

# Enhance durability and lifespan

Probes are manufactured using superior wear-resistant materials to achieve extended overall probe life and added durability. All probes are constructed with our proprietary kink-resistant shafts.

# Dedicated manufacturing facility provides rapid turnaround

We manufacture all ID tubing probes in our Lewistown, PA, USA facility. We have a dedicated manufacturing cell designed to enable high quality, rapid manufacturing with short delivery times. Many common probe sizes are stocked for quick delivery. For probe sizes not in inventory, GE Inspection Technologies offers rapid turnaround time for orders of up to ten probes.

# Custom builds and special applications

Our facility contains an in-house applications lab to provide custom solutions for special applications. Backed by over 75 years of experience, our talented Applications team can provide solutions for standard tubing and surface inspection applications with traditional eddy current or eddy current array technologies.

## Available RFT Probe Part Numbers

### Switchable Dual Exciters (SDE)

Size	Model	Part Number
0.375 inch (9.52 mm)	0.375-SDE-LF-65-3/8G	666-623-037
0.400 inch (10.2 mm)	0.400-SDE-LF-65-3/8G	666-623-040
0.440 inch (11.2 mm)	0.440-SDE-LF-65-3/8G	666-623-044
0.470 inch (11.9 mm)	0.470-SDE-LF-65-3/8G	666-623-047
0.500 inch (12.7 mm)	0.500-SDE-LF-65-3/8G	666-623-050
0.560 inch (14.2 mm)	0.560-SDE-LF-65-3/8G	666-623-056
0.625 inch (15.9 mm)	0.625-SDE-LF-65-3/8G	666-623-063
0.690 inch (17.5 mm)	0.690-SDE-LF-65-3/8G	666-623-069
0.750 inch (19.1 mm)	0.750-SDE-LF-65-3/8G	666-623-075

### Dual Exciters (DE)

Size	Model	Part Number
0.375 inch (9.52 mm)	0.375-DE-LF-65-3/8G	665-623-037
0.400 inch (10.2 mm)	0.400-DE-LF-65-3/8G	665-623-040
0.440 inch (11.2 mm)	0.440-DE-LF-65-3/8G	665-623-044
0.470 inch (11.9 mm)	0.470-DE-LF-65-3/8G	665-623-047
0.500 inch (12.7 mm)	0.500-DE-LF-65-3/8G	665-623-050
0.560 inch (14.2 mm)	0.560-DE-LF-65-3/8G	665-623-056
0.625 inch (15.9 mm)	0.625-DE-LF-65-3/8G	665-623-063
0.690 inch (17.5 mm)	0.690-DE-LF-65-3/8G	665-623-069
0.750 inch (19.1 mm)	0.750-DE-LF-65-3/8G	665-623-075

### Single Exciters (SE)

Size	Model	Part Number
0.312 inch (7.92 mm)	0.312-SE-LF-65-5/16T	667-323-031

## Available Air Conditioner Probe Part Numbers

### Differential

Probe Diameter	35 ft (10.7 m) Amphenol 4p	50 ft (15.2 m) Amphenol 4p
0.409 inch (10.4 mm)	622-352-012	623-352-012
0.495 inch (12.6 mm)	622-352-013	623-352-013
0.516 inch (13.1 mm)	622-352-014	623-352-014
0.560 inch (14.2 mm)	622-352-015	623-352-015
0.620 inch (15.8 mm)	622-352-016	623-352-016
0.650 inch (16.5 mm)	622-352-017	623-352-017
0.800 inch (20.3 mm)	622-352-033	623-352-033

### Cross Axis

Probe Diameter	35 ft (10.7 m) Amphenol 4p	50 ft (15.2 m) Amphenol 4p
0.409 inch (10.4 mm)	622-352-018	623-352-018
0.495 inch (12.6 mm)	622-352-019	623-352-019
0.516 inch (13.1 mm)	622-352-020	623-352-020
0.560 inch (14.2 mm)	622-352-021	623-352-021
0.620 inch (15.8 mm)	622-352-022	623-352-022
0.650 inch (16.5 mm)	622-352-023	623-352-023
0.800 inch (20.3 mm)	622-352-034	623-352-034



[www.geinspectiontechnologies.com/en](http://www.geinspectiontechnologies.com/en)

GEIT-50019EN (05/08)