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RFT Probes

RFT probes are used to detect defects in ferromagnetic tubes, such as carbon steel tubes. The probes consist of both bobbin coils and arrays, which are used to detect both local wall loss (LWL) and general wall loss (GWL). Bobbin coils can detect both LWL and GWL while Differential coils and coil arrays are able to detect small volume LWL, such as pits. Both coils record data simultaneously.

RFT Probe Options (above) from top left to bottom right: Array Rigid, Dual Exciter Flexible, Array Flexible

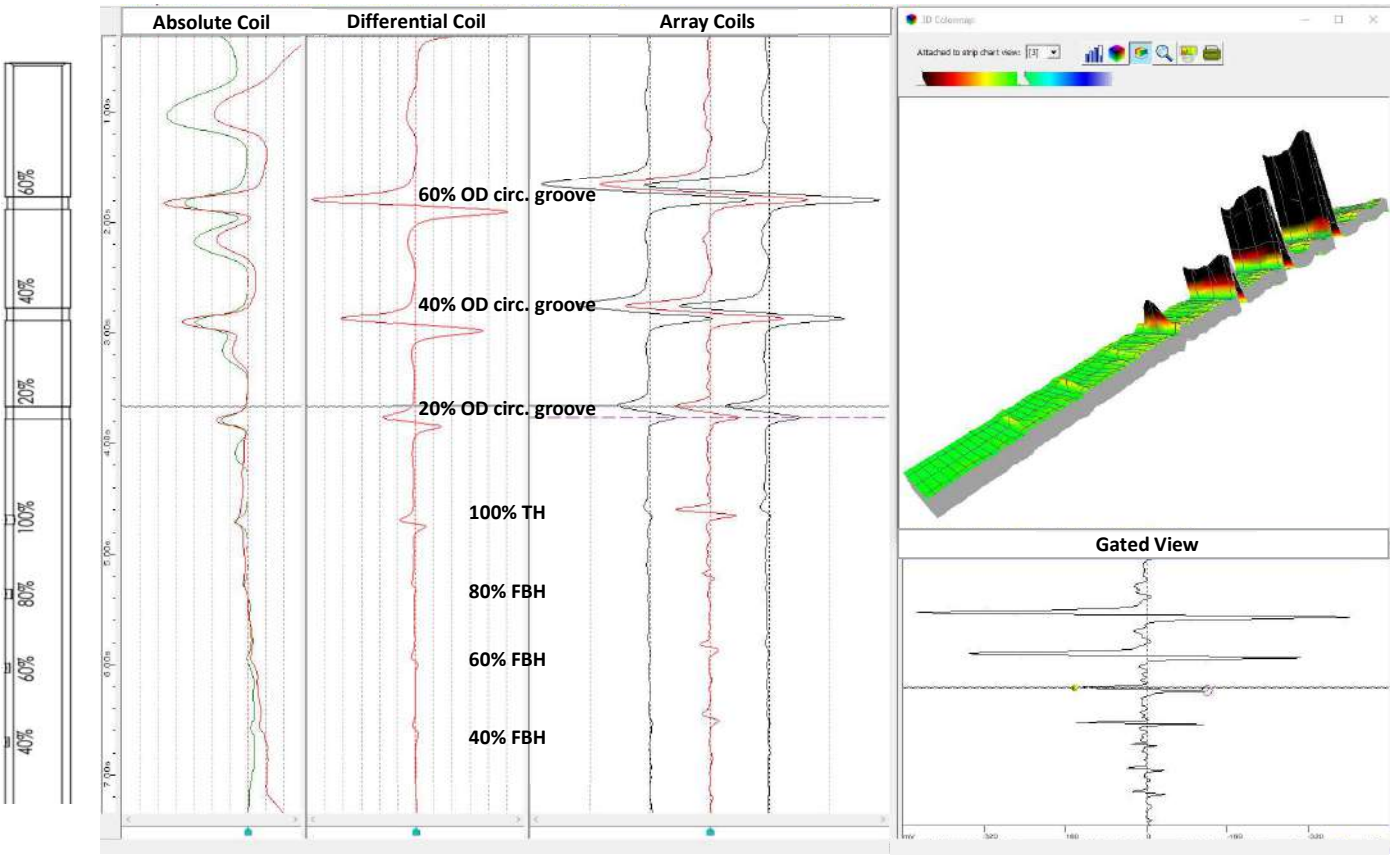
Highlights:

- ✓ Used for Ferromagnetic tubes
- ✓ Flexible probes for U-bend navigation
- ✓ Array probes
- ✓ 3D colour maps

Single Exciter Flexible RFT Probe

Single Exciter Rigid RFT Probe

Dual Exciter Rigid RFT Probe



RFT Data screencap with colormap

FBH – Flat Bottom Hole
TH – Through Hole
ID – Inner Diameter
OD – Outer Diameter

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Application:	Ferromagnetic materials	**Types of Defects Detectable:**	Internal & External pitting* and wall loss *Equal sensitivity to internal/external defects
Tube Size Range:	0.375" to 3" (19.05 mm to 76.20 mm)	**Probe Options:**	- Rigid or Flexible - Multichannel detector array
Tube Wall Thickness Range:	0.035" to 0.165" (0.89 mm to 3.91 mm)	**Operating Frequency:**	10 Hz to 20 kHz
Standard Cable Lengths:	50 ft & 65 ft	**Operating Temperature:**	-22 to 149°F (-30 to 65°C)

We provides a range of standard probe sizes as well as custom probe sizes based on customer requirements.

RFT – Standard Probe Selection Chart. Probes are generally made to 85% fill factor

Tube Wall Thickness			Tube Outside Diameter – in. (mm)											
BWG	**In. (mm)**		**0.5 (12.7)**	**0.625 (15.87)**	**0.75 (19.05)**	**1 (25.4)**	**1.25 (31.75)**	**1.5 (38.1)**	**1.75 (44.45)**	**2 (50.8)**	**2.25 (57.15)**	**2.5 (63.5)**	**2.75 (69.85)**	**3 (76.2)**
24	0.022	(0.56)	0.400	0.525	0.650	0.875	1.100	1.325	1.550	1.800	2.025	2.250	2.475	2.725
23	0.025	(0.65)	0.400	0.525	0.625	0.875	1.100	1.325	1.550	1.775	2.025	2.250	2.475	2.700
22	0.028	(0.71)	0.400	0.525	0.625	0.850	1.100	1.325	1.550	1.775	2.000	2.250	2.475	2.700
21	0.032	(0.81)	0.400	0.500	0.625	0.850	1.075	1.300	1.550	1.775	2.000	2.225	2.475	2.700
20	0.035	(0.89)	0.375	0.500	0.625	0.850	1.075	1.300	1.525	1.775	2.000	2.225	2.450	2.700
19	0.042	(1.07)	0.375	0.475	0.60	0.825	1.075	1.300	1.525	1.750	1.975	2.225	2.450	2.675
18	0.049	(1.24)	0.350	0.475	0.600	0.825	1.050	1.275	1.500	1.750	1.975	2.200	2.425	2.675
17	0.058	(1.47)	0.350	0.450	0.575	0.800	1.025	1.275	1.500	1.725	1.950	2.175	2.425	2.650
16	0.065	(1.65)	0.325	0.450	0.550	0.800	1.025	1.250	1.475	1.700	1.950	2.175	2.400	2.625
15	0.072	(1.83)	0.325	0.425	0.550	0.775	1.000	1.250	1.475	1.700	1.925	2.150	2.400	2.625
14	0.083	(2.11)	0.300	0.400	0.525	0.750	0.975	1.225	1.450	1.675	1.900	2.150	2.375	2.600
13	0.095	(2.41)	0.275	0.400	0.500	0.725	0.975	1.200	1.425	1.650	1.875	2.125	2.350	2.575
12	0.109	(2.77)	0.250	0.375	0.475	0.700	0.950	1.175	1.400	1.625	1.850	2.100	2.325	2.550
11	0.120	(3.05)	0.225	0.350	0.450	0.700	0.925	1.150	1.375	1.600	1.850	2.075	2.300	2.525
10	0.134	(3.40)	0.200	0.325	0.425	0.675	0.900	1.125	1.350	1.575	1.825	2.050	2.275	2.500
9	0.148	(3.76)	0.175	0.300	0.400	0.625	0.875	1.100	1.325	1.550	1.800	2.025	2.250	2.475
8	0.165	(4.19)	0.150	0.250	0.375	0.600	0.825	1.075	1.300	1.525	1.750	2.000	2.225	2.450