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ACFM In Detail

ACFM vs Eddy Current

TABLE 2 - SUMMARY OF DIFFERENCES BETWEEN ACFM AND EDDY CURRENT

	ACFM	EDDY CURRENTS
Crack Depth Measurement without Calibration	Yes	No
Maximum Depth *	about 30 mm	about 5 mm
Crack Length Measurement	Yes	Yes
Crack Detection and Location	Yes	Yes
Signal Variations due to Lift-off	Low (Bx only)	High
Easy deployment in transition region (eg Weld)	Yes	No
Easy to automate probe scanning	Yes	No

* N.B. Depth is the distance down a crack face from a metal surface to the crack tip - not the distance from the metal surface to a buried defect.

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