

Eddy Current Array – Surface inspection Application

The Shape Probe is a versatile surface probe that can adapt to various geometries. Its dual sensitivity allows it to detect cracks with any orientation in one pass. It can inspect a very wide range of materials such as carbon steel, duplex, stainless steel, aluminum, etc. Defects as short as 1mm can be detected reliably.

With the multiplexing electronic integrated into the probe and its real pancake coils, the Shape Probe has an unequalled sensitivity. It also makes it possible to quickly replace the flexible sensing part with a simple plug-and-play connector. This greatly reduce the cost of operation having only to replace the sensing part if it is too worn down. It also make it possible to replace the sensing part for a different one if for example a longer coverage or a lower/higher frequency probe is needed.

Its industry standard 41 pins Amphenol makes it a versatile choice than can be connected on various instruments.

Figure: SG NDT's Eddy Current Array Software, EMMA



