Hexagon Manufacturing Intelligence:
Portable Scanning, Probing, NDT/NDI, and much more

NCMS Technology Showcase
FRC East

PROBLEM STATEMENT

When it comes to precision measurement, industry professionals face the challenge of requiring multiple devices to perform a variety of quality assessments, from non-destructive testing (NDT) to laser scanning and probing. This not only complicates the workflow but also escalates costs and training requirements. The need is for a singular, versatile system that can seamlessly transition between NDT, high-resolution laser scanning, and precise probing without sacrificing accuracy, efficiency, or functionality.

BENEFITS

- **NDT Sensor**
  - For most Metals
    - Capable to resolve volumetric flaws of 0.5mm and smaller
    - Compliant with most codes: ASTM, ASME, etc…
  - For most Welds
    - Capable of resolving through-wall extensions of 5-10%T
    - Compliant with most codes: ASTM, ASME, AWS, EN/ISO, API
  - For most Composites
    - CFRP / GFRP
    - Easy to resolve 2.5mm flaws (and smaller)
- **AS1 / AS1-XL Absolute Laser Scanner**
  - Complete digitizing from small to very large parts

TECHNOLOGY SOLUTION

A multifunctional tool like Hexagon's Absolute Arm could resolve multi-tool complexities by consolidating quality assessment needs into one integrated solution, thereby optimizing the quality control process.

- 3D scan using the Absolute Scanner on small to large objects with Hexagon's AS1 and AS1-XL made for the Absolute Arm.

- PRAGMA's NDT capabilities, when integrated with Hexagon's Absolute Arm, offer unparalleled precision in flaw detection across various materials. From metals to composites, this technology detects minuscule defects and adheres to strict industry standards, ensuring the utmost quality in your materials.

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