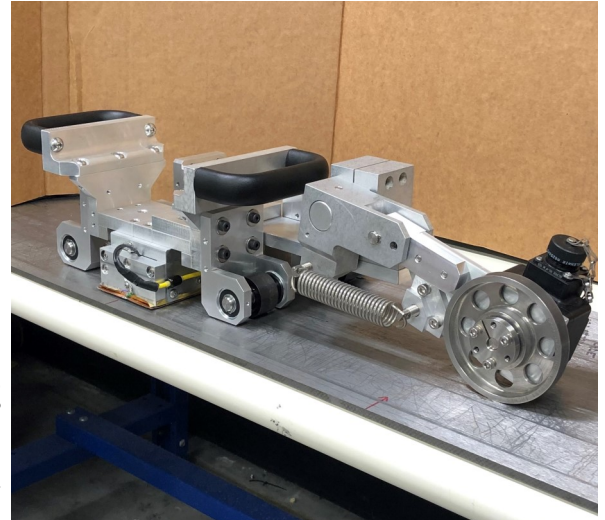


EMAT Technology Platform Plate Inspection

VALUE PROPOSITION

itRobotics' patent pending EMAT technology is at the core of our methods for inspecting metallic infrastructure across a wide range of industries. Systems may be configured for fixed installations, robotic manipulation or manual operation. Our EMAT inspection systems do not use any surface modifications and only require electromagnetic coupling to the flat or gently curved test object surface. Inspection parameters adjust automatically to changing test object geometry such as varying plate thickness or plate width. As a result, high probability of defect detection is maintained throughout the entire material volume including surfaces and boundaries/edges.



itRobotics Flat Plate Inspector

Key Features

- High detection performance for near wall, far wall, surface and subsurface defects of any orientation including those at edges/ boundaries
- Ability to rapidly sequence through different wave modes to achieve, in effect, simultaneous mode generation for improved inspection reliability and retractability

Key Features (cont'd)

- Accurate real-time measurements of geometric features such as wall thickness and width of the plate
- Scanning speeds up to 1 meter/sec while maintaining sensitivity to small defects
- Meeting various ISO specifications

Benefits

- Enables currently impractical inspections
- Volumetric inspection of inaccessible regions of structures
- Simpler and more hassle-free inspections
- Higher throughput, less down time, lower inspection cost
- Reliable packaging for harsh environments

Current and Potential Applications

- Flat Strip and welded metallic infrastructure
- Large Above Ground Storage Tanks (LASTs)
- Ferrous and non-ferrous metallic plates
- Offshore infrastructure
- Oil platforms
- Wind tower installations