

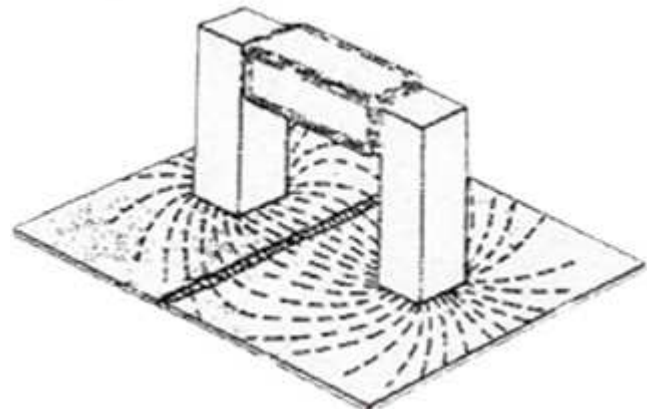


### Magnetic Particle Inspection

**MPI is a fast and relatively easy to apply and surface preparation is not as critical as it is for some other NDT methods.**

The typical use of magnetic particle inspection methods are to detect cracks, inclusions, seams, laps, and other discontinuities at or near the surface of ferromagnetic materials. Typical materials that fall into this category include “plain carbon steels” (i.e., ferrite matrix phase - those containing < .8% carbon), low grade stainless steel, cast iron, etc.

In general, MPI can be applied at any point during the manufacture and/or in-service use of a ferromagnetic part. MPI cannot be used on non-ferromagnetic materials or on parts with interfering coatings. Surface defects as small as 0.015” (0.38mm) can be reliably detected with MPI.



**Axess is a leading provider of inspection & integrity management, and engineering & construction services.**

**The business within Axess comprises the offshore, maritime and energy industries.**



Oscar Hanssensveg 5,  
6415 Molde, Norway

PO Box 2197,  
6402 Molde, Norway

Duty phone: +47 982 43 600

E-mail: [post@axess.no](mailto:post@axess.no)

Internet: [www.axess.no](http://www.axess.no)