



Bracelet Probe™ for bare or coated pipeline inspection



The Bracelet Probe™ was developed and has been deployed to inspect the pipelines from both external and internal surface. The probe is capable of detecting near-side (ID or OD) and far-side (ID or OD) defects in ferromagnetic pipes, including steel, ductile and cast-iron pipes. For external inspections, the probe can be used on pipes with a minimum OD of 6" and up to flat surface; for internal inspections, the minimum recommended pipe size is 48" with no upper limit in pipe/vessel size. The maximum applicable pipe wall thickness is 0.5", 0.6" and 0.75" for pipes made of respective steel, ductile and cast iron.



RUSSELL TECHNOLOGIES INDIA PVT. LTD.

C-2/290, SECTOR-F, JANKIPURAM, LUCKNOW-226021, U.P. (INDIA)

Mob: +91 9717720995, +91 7905987208

Email: info@russelltech-india.com, Web: www.russelltech-india.in

Bracelet Probe for Penstock Inspections

The Bracelet Probe™ works on the proprietary electromagnetic through transmission (EM TT) technology, developed by Russell NDE Systems Inc. The physics of EM TT is the basis for near-side and far-side defects to be detected at high resolution and sensitivity.



The probe is a screening tool for the near-side defects and a sizing tool for the far-side defects. Detection sensitivity decreases with increasing probe clearance resulting from thick external coating or internal lining. Note that another version of the Bracelet Probe™ is available if the or lining thickness exceeds 1" AND only the near-side defects need to be detected.



Since its introduction a decade ago, the Bracelet Probe™ has been extensively and widely used in inspecting various types of pipelines, including watermain, feedwater, raw water, sludge, sewer, influent&effluent, industrial wastewater and brine, etc. The Bracelet Probe™ inspections do not disrupt the pipeline operations when the inspections are performed from external surfaces. Buried pipes shall be excavated before the Bracelet Probe™ inspections can be performed. In addition to being a non-disruptive NDT, efficiency and productivity are some of the other key advantages of the Bracelet Probe™ technology. Each scan can cover up to 9"-10" swath of the pipe surface in circumferential or transverse directions. When being used with 100-ft (30m) data extension cable, the workstation set up at one location allows the inspection of a maximum of 200-ft (60m) pipelines.

Demo and field videos are available via this YouTube link:

<https://www.youtube.com/@RussellTechnologiesIndia/videos>

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