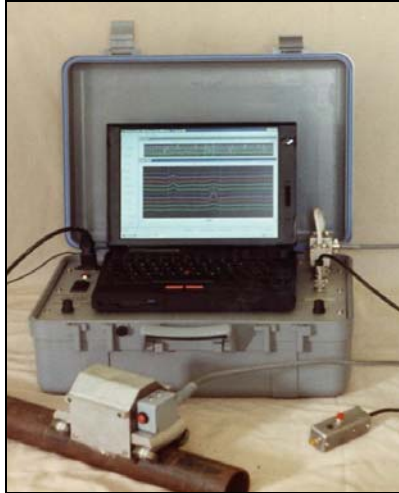


# Dinsearch 2.00

The DINSEARCH 2-00 is a multiple sensor, magnetic flux leakage system, specially developed for the inspection of carbon steel pipes and tubes 50mm to 100mm diameter.



With an external probe DINSEARCH 2-00 will detect defects on the inside of pipework and also in furnace wall tubes in water tube boilers.

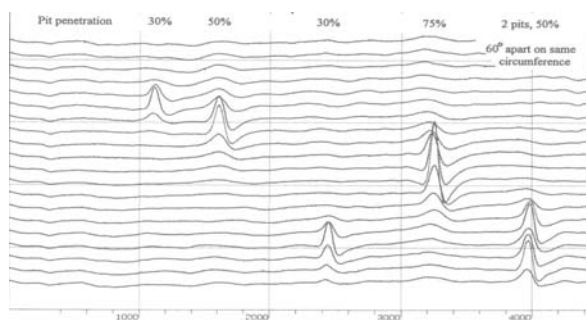
With an internal probe, it can be used in large diameter heat exchanger tubes, air pre-heater tubes in boiler installations, tubes in fire tube boilers and some types of finned boiler and economiser tubes.

For external scans, thick lagging and loose debris have to be removed but protective paint and similar protective finishes can remain undisturbed and undamaged.

For internal scans, tubes should be reasonably clean and free from loose debris but there is no need to clean down to bare metal.

Inspection is rapid, typically 1 metre per second or faster. Unlike ultrasonic systems, no couplants or water are required, the pipe remains dry.

The results of each scan are shown as a multi channel display on a computer screen.



Designed and Manufactured Under License from Dinsley Devices Ltd

By

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## Specifications

<u>Multi-channel display:-</u>	5 to 20 easy to read colour coded channels.  Initial display after each scan shows the whole length scanned, the display can be expanded to show any section in greater detail. Analysis feature allows the operator to classify up to 4 types of feature in the trace.  All information is stored on disc and can be down-loaded.
<u>Sensitivity:-</u>	Can detect pits less than 1mm diameter in the best quality steels but the performance depends on the quality of the steel and the type of tube. In most grades of tube, the resolution is more than adequate for the common types of defect.
<u>Power requirements:-</u>	AC mains, auto-ranging, 90-140 or 190-250 volts, 50/60Hz, 500VA.
<u>Housing:-</u>	Tough, impact resistant case, suitable for many forms of transport without additional packing.
<u>Size and weight:-</u>	Not including probes: 450 x 325 x 190mm, 12kg.
<u>Air transportation:-</u>	The equipment does not contain or use any hazardous components and does not use permanent magnets.
<u>Applications:-</u>	Heat exchangers with tubes larger than 40mm (internal probe).  Fire tube boilers, tubes, including stay tubes, up to 100mm diameter (internal probe).  Economiser tubes (internal probe)  Furnace wall tubes in water-tube boilers and front face of shock tubes or superheater tubes where internal access is difficult or impossible (external probe).  Pipework, up to 4 inch nominal size (external probe).  Specialist applications such as swaged joints in lighting columns and rectangular hollow section guard rails.

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