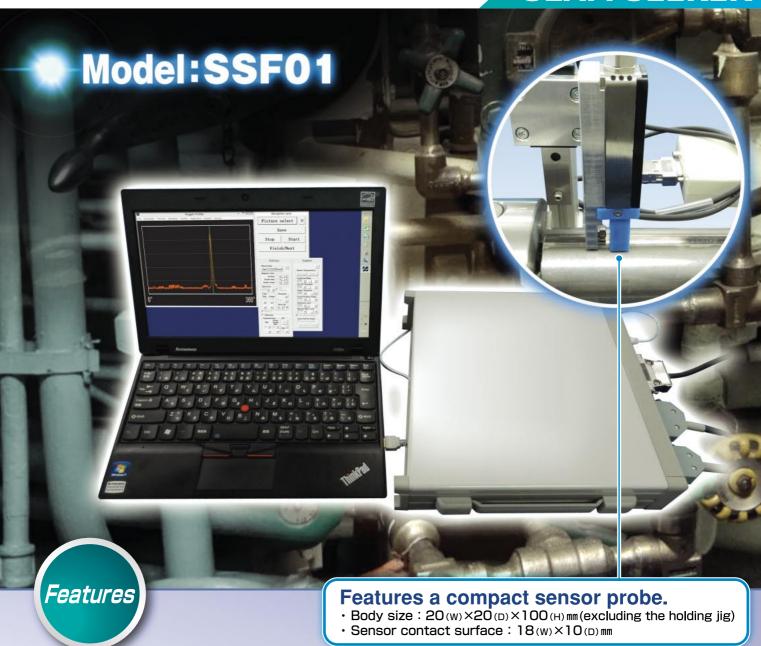
Seam Position Detector SEAM SEEKER

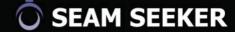
SEAM SEEKER



- Detects the position of a seam on a round pipe.
- Uses magnetism to perform non-destructive inspection.
- Not affected by reflectance, color (shading) or lighting, because no optical components are included.
- Detects seams even on dented or otherwise damaged products.
- Not affected by oil or other substances on pipe surfaces.
- Takes only about 8 seconds to complete inspection, including bringing the seam into position (for 50-mm dia, round pipes).
- Performs non-contact inspection.
 - (The distance between the sensor and the pipe being inspected must be kept constant.)
- Requires no complicated parameter settings (for 360-degree inspection).



Seam Position Detector





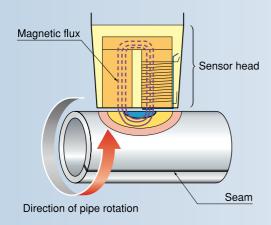
Detects the seam on a seam-welded pipe.

●Inspects pipes produced by rolling sheet steel into a cylindrical shape and then welding the seam as shown in the figure below.





- Causes no scratches or dents on the pipe being inspected.
- Magnetism is not affected by oil or other substances on pipe surfaces.
- Using a cam follower or similar device enables inspection of the pipe without the sensor touching it.

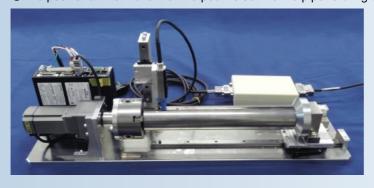


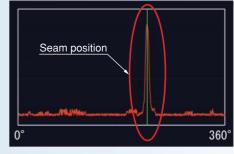


[Enlarged Photo of Sensor's Inspection Area]



- The detector obtains magnetic field data from the pipe as it rotates, and then converts the permittivity and magnetic permeability of the metal into numerical values.
- The permittivity and magnetic permeability of the metals in the base material and the seam area differ, causing a peak to appear at the seam location.
- The positional information for the peak is sent to the pipe rotating unit to bring the seam into position.





[Example of Inspection Screen]



| Model | SSF01 |
|-----------------------------|---|
| Supported OSs | Windows 7 and Windows 8 (Please contact us if your OS is not a Japanese version.) Note: The software supports Japanese and English. |
| Operating temperature range | 5℃ to 40℃ |
| Operating humidity range | 80% RH max. (non-condensing) |
| Power supply | 85 V AC to 240 V AC, 0.5 A (body only) |

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