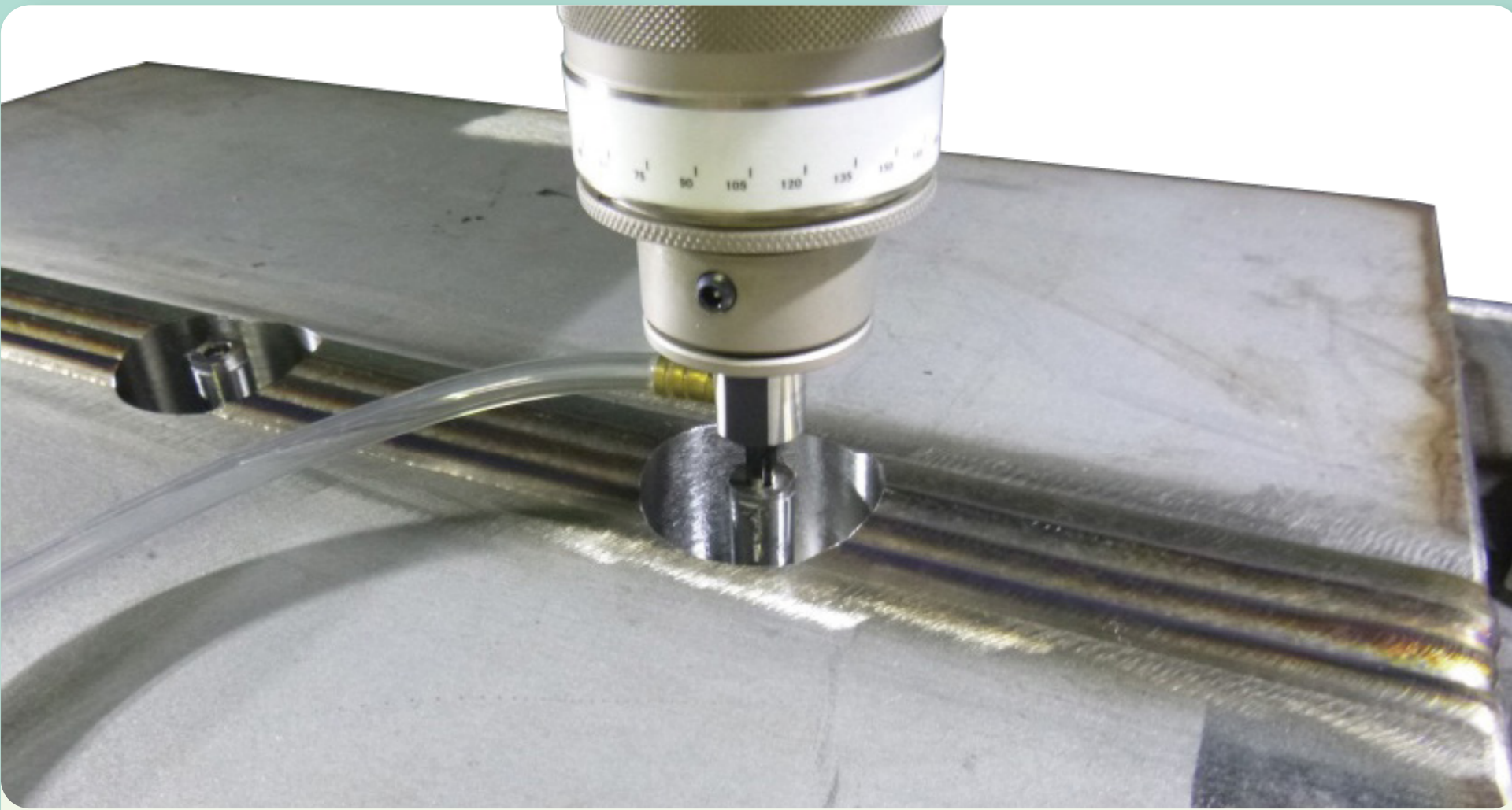


RESIDUAL STRESS MEASUREMENT SOLUTION SERVICE

SHINKO WELDING SERVICE CO., LTD.(SWS) jointly developed internal residual stress measurement technique (MIRS technique: Modified Internal Residual Stress measurement technique) with Yamamoto Metal Technos Co., Ltd., Osaka University and Okayama Prefecture Industrial Promotion Foundation.

MIRS technique consists of 3 products: MIRS-1(eq. Deep Hole Drilling Technique), MIRS-2 (eq. Incremental Deep Hole Drilling Technique) and MIRS-3(Deep Hole Drilling technique considering 3 dimensional stress states)

1 MIRS technique (MIRS-1, MIRS-2 and MIRS-3)



Distinctive features:

- High accuracy
- Reasonable price (Low cost measurement)
- Short lead time

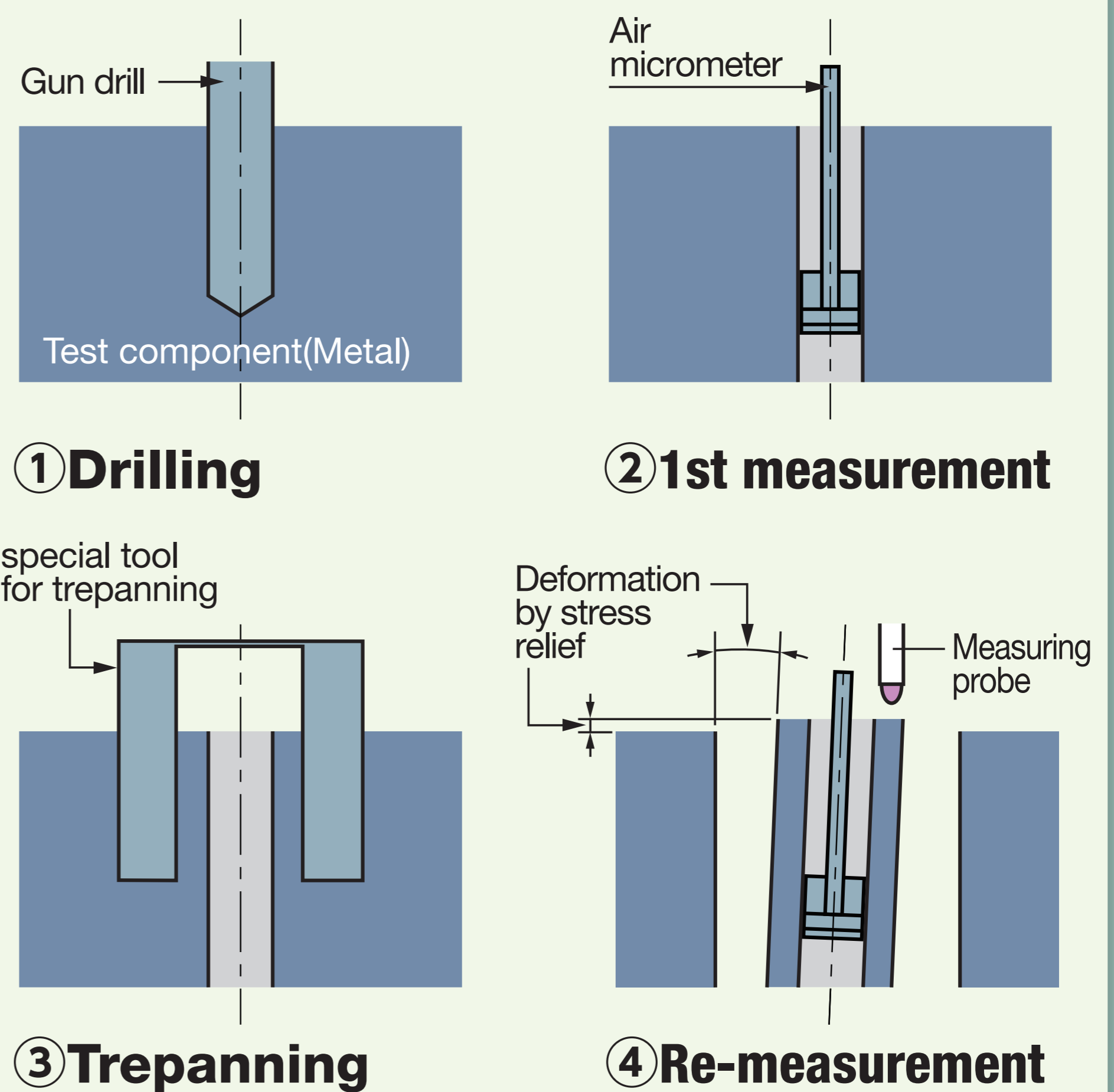
Application by MIRS technique

Confirming peening effects

Verification of FEM analysis result

Crack development behavior research

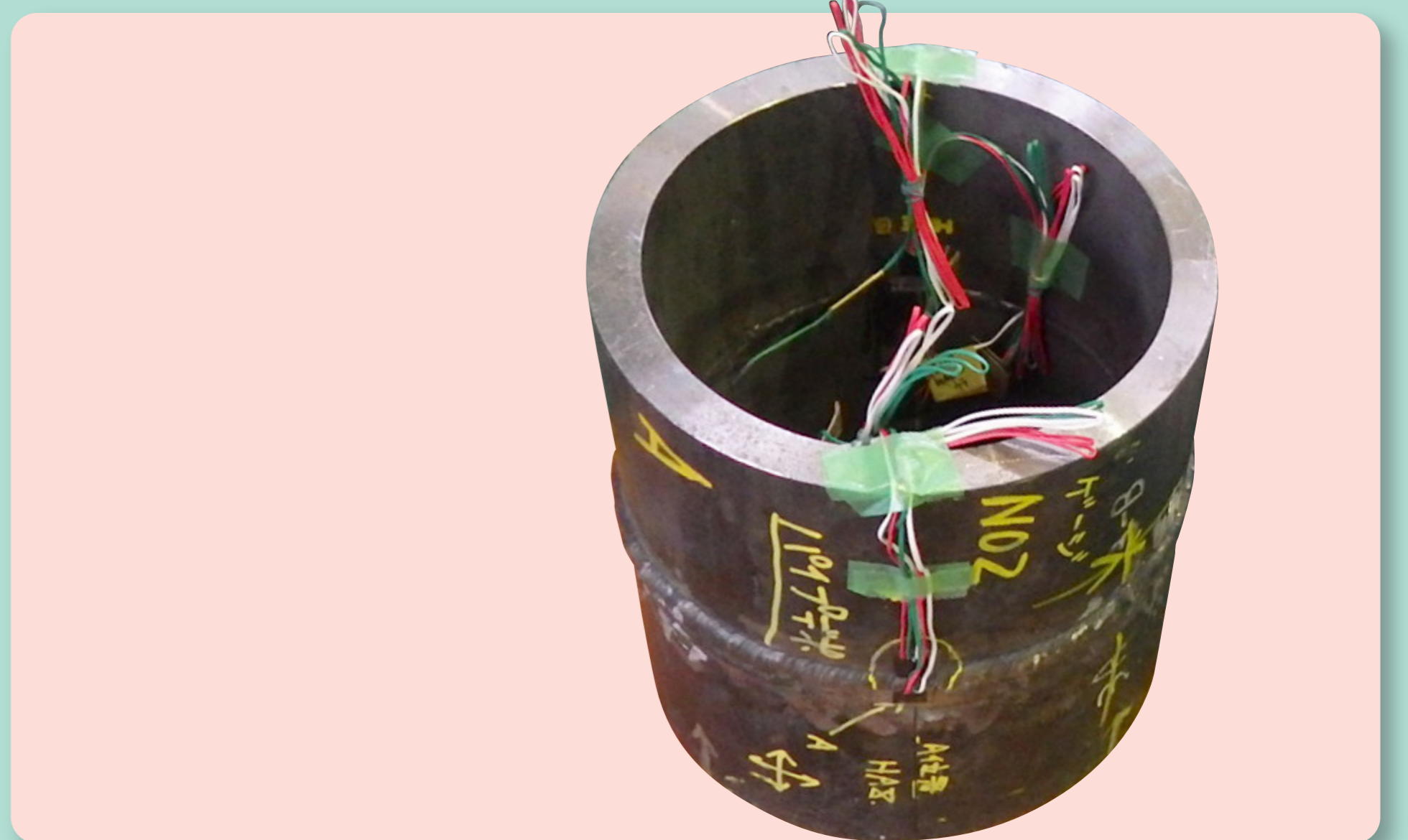
MIRS-3 technique measurement procedure



2 X-ray diffraction method



3 Slitting technique with strain gauge



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