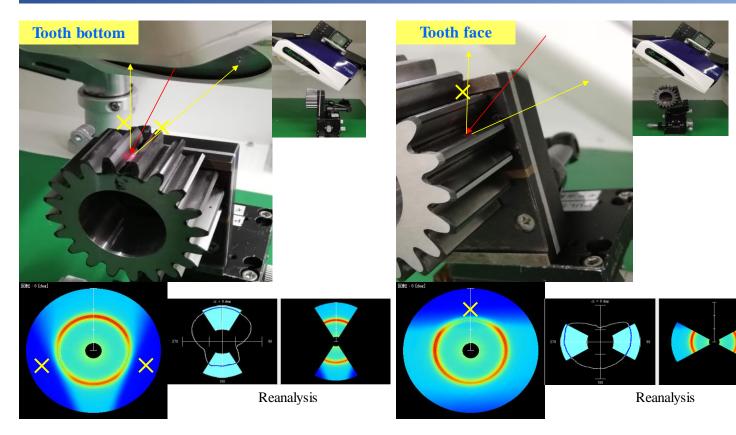
## **Application**

## Residual Stress Measurement of Gear

Gear tooth is generally cut when measuring the residual stress using X-ray diffraction technique.

Residual stress measurement without cutting is possible by single incident angle X-ray exposure and 2D detector.

## Application



Part of Diffracted X-rays are missing due to the side tooth. Select the area and re-analyze by the software

Part of Diffracted X-rays are missing due to the upper tooth. Select the area and re-analyze by the software

Acquisition of full X-ray diffraction ring by 2D detector and Use of "Reanalysis function". Reliable residual stress measurement is possible by selecting effective area.

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