

WEK2043 Positioning Cursor Error Module

>>>Instruction<<<

Product Introduction and Structure

The positioning cursor error module complies with the requirements of the "Calibration Specification for Industrial X-ray CT Devices" JJF 2043-2023.

Positioning cursor error module

Cylindrical (made of PMMA), with a height of more than 15 mm, the position error of the plug is no more than 0.5 mm. A cylindrical positioning cursor error model made of homogeneous material (made of PMMA) is adopted. The surface should have clear and visible positioning marks, and an object with a specific shape that forms a high contrast with the homogeneous environment is embedded inside. The shape and position of this object have a strict spatial geometric relationship with the positioning marks of the cursor error model. The size of the model is 35mm in diameter and 20mm in height.

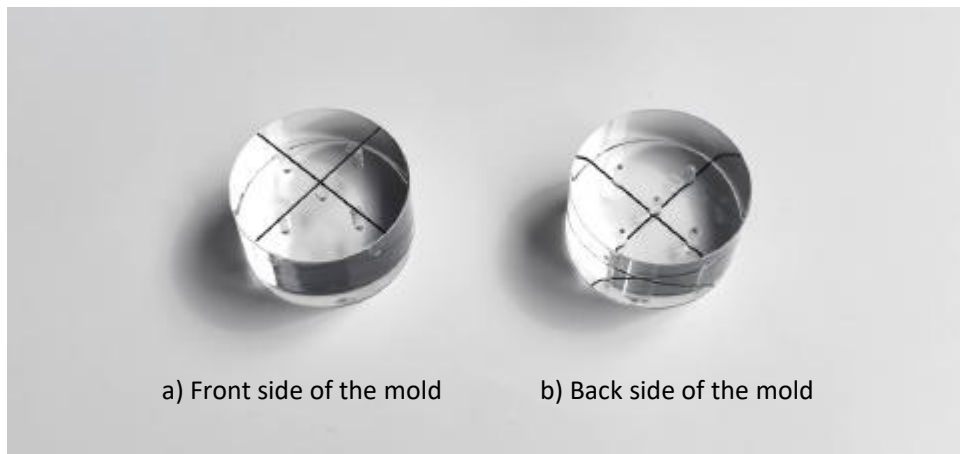


Figure A.1 Positioning Cursor Error Module

Modular operation method

Place the positioning cursor error module on the detection platform, so that the cylindrical axis of the positioning cursor error module is perpendicular to the scanning plane and is at the center of the scanning field of view. Make the positioning mark of the positioning cursor error module coincide with the positioning cursor. Use the conventional scanning conditions for scanning. Measure the accurate position of the standard specimen in the scanning layer in the CT image. Use the positioning mark on the surface to measure the error of the positioning cursor relative to the actual scanning layer position.