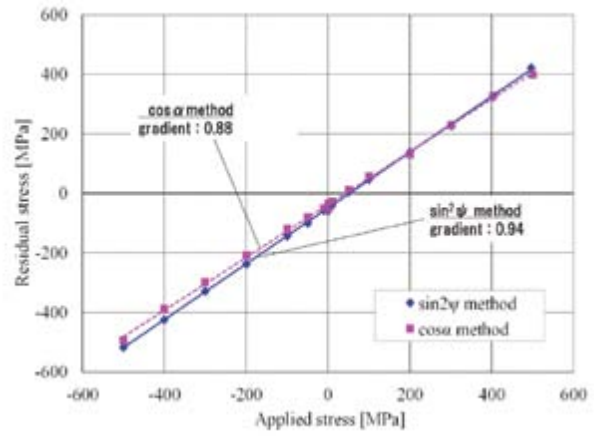

Figure 4. Comparison residual stress and applied stress.

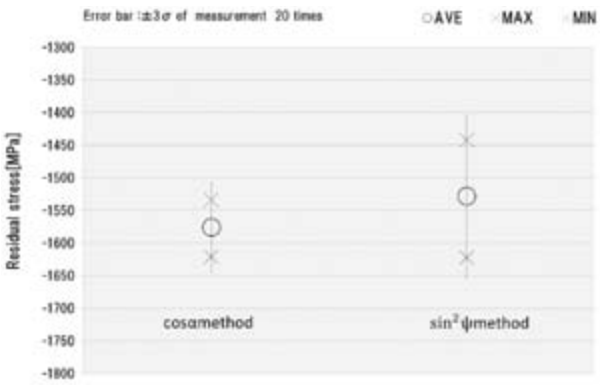

Figure 5. Comparison of measurement methods.

and fields than ever before. As the field of application becomes wider, X-ray diffraction measurement is gaining a wider acceptance as a common technique rather than being considered as a highly specialized technology.

Therefore, the certainty of the measurement result has become more important than ever. It would be highly advisable to use a stress standard specimen as a confirmation method for residual stress measurements.

About Sinto

Since its establishment in 1934, Sinto has accumulated numerous technologies related to the field of metal casting as a manufacturing and system engineering company of foundry equipment and plants.

Throughout these years Sinto has consistently followed its basic corporate philosophy of "Giving Form and Life to Process Materials" regardless of the expansion of its business fields.

Sinto's business operation has expanded to various fields of process materials industry through the advanced, integrated and applied technology based on its foundry-related technologies and accumulated know-how.

Saab's Global Defense and Security Company Lands in Indiana Near Purdue University

Global defense and security company Saab announced plans this spring to locate a new U.S. manufacturing operation in Indiana. The facility, located at Discovery Park District Aerospace on the west side of the Purdue University campus, will support production of the U.S. Air Force's next-generation T-X jet trainer and create up to 300 new jobs with hiring starting in 2020.

The expansion is a fundamental part of the company's strategy to grow its U.S. industrial and technology base. Saab also will collaborate with Purdue University to expand Saab's U.S.-based research and development within possible areas such as sensor systems, artificial intelligence and autonomous systems.

The Stockholm-based company will invest $37 million to locate and build an Indiana-based workforce in West Lafayette. Saab will construct and equip a facility to manufacture a significant portion of the Boeing T-X advanced pilot training aircraft, which will help train future U.S. Air Force pilots for generations to come. Saab is both a partner and supplier to Boeing on the program.

Construction of the facility is expected to begin in 2020 at the Discovery Park District Aerospace to support the rapid Boeing T-X production rate demanded of the program. Saab expects to begin hiring for assembly operators and airplane mechanics as well as for logistics, manufacturing engineering, and administration and management roles the same year.

Indiana Governor Eric Holcomb speaks before a crowd of more than 200 people during an event to announce that Sweden-based Saab Global Defense and Security Company is opening a $37 million facility in the Purdue University-affiliated Discovery Park District in West Lafayette, Indiana. Saab will conduct its contribution to the production of the U.S. Air Force's T-X pilot training program and other aerospace projects at the site.
(Photo credit: John Underwood/Purdue University)