

Comparison studies of the residual stresses of metal cutting tools with various methods

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Kennametal Inc. is one of the world leading manufacturers of metal cutting tools, and supplies products to a variety of industries ranging from aerospace and automotive to earthworks. X-ray laboratory supports the research and development, quality assurance, and process investigations of all types of samples related to the industries. To meet the needs of the analysis of the wide range of samples, developing capabilities, comparison studies of precisions and accuracies from different methods, and evaluations of repeatability and reproducibility are constantly carried out. Possible variability of the residual stress analysis from different methods will be presented.