

COMPUTER-AIDED ASSESSMENT OF THE QUALITY OF SMALL-SIZED CAST PARTS

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Abstract: *Quality is an important issue in casting, but it becomes essential in the case of small-size cast parts, such as dental prosthetic elements. As in most other areas of manufacturing, numerical simulation can be used for predicting potential failure areas in a cast part. This article analyses the various issues in assessing a cast part's quality and presents researches regarding the usage of a simulation software package designed for industrial castings for an accurate prediction of quality-related problems in the case of small-size cast parts used for the manufacturing of medical implants or prostheses.*

Key words: *casting, quality, numerical simulation*



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