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**Evaluation of processes controls for sintered parts – shim case study**

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The proposition for this work comes to the necessity of the knowledge of mechanisms controls for sintered parts, aiming the improvement of the production. This management means a great influence in the technology price. More specifically the case study is related to the dimensional control of a sintered shim. This part of simple geometry, i.e., a disk, has to have its diameter and above of all the height accurately controlled. The diameter is controlled by the die set dimensions, powders mixture characteristics and sintering furnaces. Once these parameters are correctly set, the shim diameter may not vary substantially. However, the part height control is a critical step. The required precision may be in the order of 0.05 mm for each class that are divided the shims, which is difficult to be attained in large numbers at small dispersion. There will be always a variation around a mean value. In this study, using the statistical process control as a decision-taking instrument it is found under which condition the best yield is set. Moreover, the study allows the establishment of how many parts are to be fabricated for the obtention of a particular height class and how many parts will be reclassified. All this information directly implicate in production cost control.