

Disruptive 4.0 foundry models based on the knowledge economy

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Faster and faster changes generate uncertainty. Foundries cannot compete in the globalised world by reducing only labour costs. Foundries must leave their comfort zone and manage to control the process in real time, minimizing its instability. This absolute control of their manufacture process will allow to raise many more aggressive designs, less conservative and much more profitable. The use of simulation systems allows working with disruptive technologies developed by AZTERLAN and already consolidated such as self-breaking processes, yield increases and parts without finishing operations. That is, the elimination of operations that do not add value to the parts and that allow to increase the economic business profitability.

From the point of view of Industry 4.0 technologies, AZTERLAN has developed for many years own strategies and products that allow the collection of the relevant data of the process, and its relationship and exploitation in real time, in order to develop predictive control models that allow reducing or eliminating part of the inspections or internal controls.

The ultimate goal of all these developments is to transform foundries into modern, cost-effective companies with a high level of knowledge that allows them to face external changes with flexibility.