

Case History 1003 - Precision Engineering**Castle Precision, Glasgow**

Castle Precision operate in a high value manufacturing environment machining precision components in a wide range of exotic and expensive materials. Manufacturing some of these components is often complex and time consuming so right first time and efficiency is important for us to remain competitive. Historically, much of our tool pre-setting was done on the machine tools as we thought in cycle measurement was best practice, that was until we began to understand the benefits of off line presetting. To evaluate further, we contacted several top end presetter suppliers to get a better understanding of each of their capability, all of which had the obvious benefit of setting the tools off our machines and not interrupting the machining cycle and giving us an immediate increase in productivity by keeping the machines cutting.

Our selection criteria was quite thorough and we narrowed it down to the two market leaders. Although both manufacturers offered similar solutions, we chose to go with Nikken, the main reasons being that they offered a high accuracy product that didn't rely on software compensation. NIKKEN presetters are constructed from solid granite guaranteeing not only the accuracy but excellent repeatability of measurement in a fluctuating temperature environment. The added benefit of having an inspection mode allowing us to inspect the cutting edge for wear or damage is also a great feature that has helped eliminate possible in-cycle cutter issues, and scrap. Finally, having worked with Nikken for some years using their other tooling systems and rotary table products we knew that their aftersales and service was already proven.

Castle Precision installed the first Nikken ELBO presetter in 2011 and such was the success of this installation they now have 5 presetters covering all key manufacturing cells, all of which are performing very well.

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<http://www.castleprecision.com/>



NIKKEN Elbo Controlli Khyan-TW Presetter