

Taylor Kightley Engineering

Mastercam Drives Shops Past the Competition

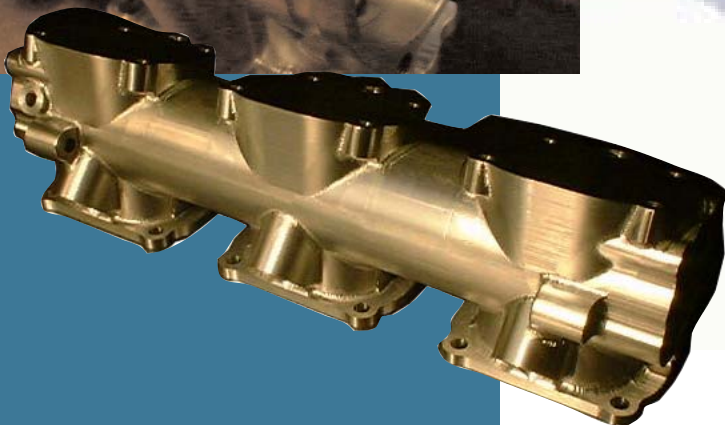
"Our experience, combined with the proven problem-solving insights of 4D Engineering and Mastercam products, has allowed us to establish a reputation and become an even more efficient company internally."

— **Phil Kightley**
Managing Director
Taylor Kightley Engineering
Northampton, England

Today's best machine shops are keeping ahead of the competition by constantly expanding their capabilities and adapting new technologies. Taylor Kightley Engineering of Northampton, England is a leading supplier of precision parts for the competitive motor sports industry. Using the newest machining concepts and Mastercam's cutting-edge technology, the shop manufactures some of the most complex parts imaginable.

With Mastercam, the shop saves time with their most commonly used toolpath: flow 5-axis cutting with the tool shank contained along a straight line chain. Before, users had to post the NCI file of a 5-axis flowline and then use the focus 5-axis C-hook to convert the NCI to one that contained the tool shank through focus points. Now programming time is saved because this multi-stage process is self-contained in a single operation that can be easily changed and regenerated.

In Formula 1 racing, every incremental improvement to a precision part will provide an enormous competitive advantage when the car hits the track. For instance, chassis stabilizing blades are designed to meet strategic airflow objectives. The part may look simple, but the shape design must be machined to 8 microns. Taylor Kightley has found that Mastercam's new surface project toolpath with 3D blend is perfect for achieving ideal shapes in one pass.



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