

## what is a machine study?

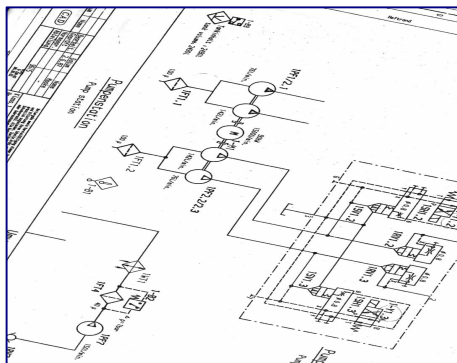
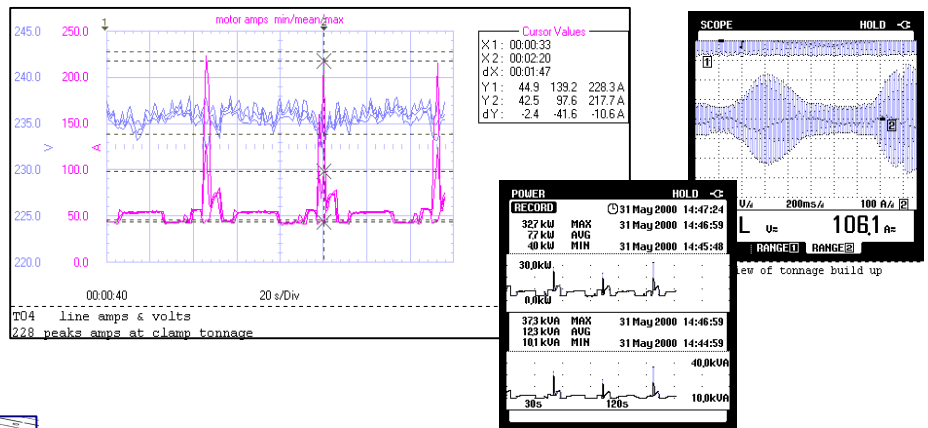
The purpose of a machine study is to assess the existing power consumption of a machine's main electric motor and to estimate the savings that could be achieved with a motor speed control system.

As a business concerned about energy costs, the study provides you with some important and essential information ... exactly what is the consumption, what makes it so, and how can the consumption be reliably reduced.

Injection moulding machines present a more complex analysis than the common centrifugal pump or fan applications. The diversity of machine manufacturers, their hydraulic systems and differing methods of control, the material being moulded, and the local set-up of the machine all have a bearing on the success of the speed control system.

Our machine study assesses all these factors in order to provide an accurate prediction of the reduced energy consumption. Fully informed, you can more confidently consider the benefits and costs of a speed control proposal.

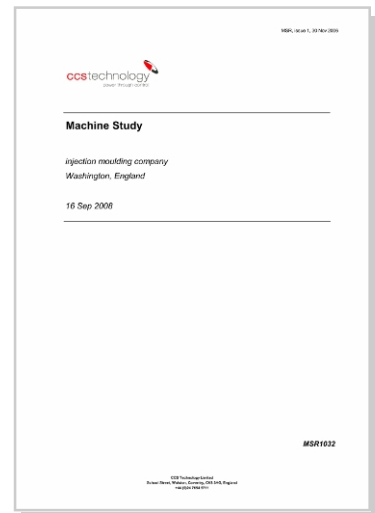
We measure in detail all key aspects of motor loading during the moulding cycle ...



... then, from machine hydraulics and control systems schematics we visualise the manner in which speed control integrates with the host machine

Our SyncroSpeed methodology, together with moulding job set-up details, assesses the reduction in energy consumption our system will deliver

Our report makes clear the benefit and cost of installing a SyncroSpeed system





CCS Technology design bespoke Industrial control systems and provide replacement PLC and drive systems for aging production machinery. The industrial control systems we produce are based around PLC, DCS, PC or CNC controllers including high availability and fail safe systems to SIL2 and SIL3.

Established in Coventry, England in 1988, the company continues to strive to establish a team of professional electrical and software Engineers with backgrounds in electrical and electronic engineering with specific emphasis on Industrial control systems and motion control. Our offices and workshops are located within an 19<sup>th</sup> century school house, in the village of Wolston just on the outskirts of Coventry. Centrally located in the midlands and connected by excellent transport routes, we are within 3 hours drive from anywhere in England and Wales.

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