



# Case Study – Injection & Blow Moulding Company

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**Presented by:** Mark Lees

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## Summary details

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Client approval: Yes

### Company information

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<b>Solution group</b>	Engineering - plastics
<b>Solution offering</b>	Planned maintenance system
<b>Project name or title</b>	n/a

### Customer profile

<b>Customer name</b>	Trade injection moulding company
<b>Address</b>	North West England

<b>Industry</b>	Plastics
<b>Number of employees</b>	40 - 50
<b>Annual revenue</b>	c. £3m

# Case Study Report

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## Case Study for Trade Injection Moulder, North West England

### Company profile

- Established in the 1970s, one of the leading trade moulders in the North West.
- Revenues in 2003: £3 million
- 24 machines ranging from 15 to 320T clamp force
- Active in a range of markets, including medical, electronic, electrical, housewares, automotive, mining and lighting.

### Business situation

As a result of having to compete in a very price sensitive marketplace, this trade moulder needed to examine ways to both increase productivity and reduce downtime. Because as a company they were moving towards high volume, low profit margin products, all avenues needed to be explored to provide them with a competitive edge.

### Technical situation

This leading trade moulders current production environment runs older machines that require more maintenance than newer machines. Because of cash flow limitations, replacement of the machines was not an option. Additionally, documented planned maintenance procedures were required to show compliance with the relevant parts of the company's ISO9001 quality system, and also to meet the audit procedures of several of their customers.

### Solution

An initial audit of the client's maintenance procedures was carried out. Following the audit, a proposal documenting the proposed changes and improvements was given to the client. Following client acceptance and working alongside the client's own engineering staff, sensible and effective planned maintenance schedules were drawn up for all major items of equipment. In addition, key safety tasks & legal requirements were examined and suitable procedures introduced to ensure full compliance. Spares stocks were examined, and an assessment of crucial spares was made. All spares holding was listed in a custom stock control program, created in Microsoft Excel. This stock control program was linked into the bespoke computerised maintenance management system (CMMS) created to meet the client's needs.

### Benefits

There were many benefits for the client in adopting EAM Consulting's recommendations, but included the following key benefits:

- Reduction in maintenance attributable downtime (downtime reduced to < 7%)
- Improvements in machine availability (availability increased to > 85%)
- Fully documented records detailing machine repair history available for immediate reference
- Improvements in product quality

- Documented and demonstrative compliance with relevant H&S and legal requirements
- Accurate control of spare parts and valuation
- Reductions in both maintenance and manufacturing costs

### **Products and services used**

- MS Access runtime database application for CMMS
- MS Excel based stock management application
- Water treatment programme sub-contracted to specialist company (see below)

### **Services provided by other groups or companies**

During the initial audit, it was apparent that there were certain shortfalls in the existing treatment programme for both chilled & tower water. In order to put a robust solution in place, this aspect of the project was sub-contracted to a specialist water treatment company. EAM Consulting acted as project manager for this aspect of the project, and also ensured that all necessary test & treatment records were incorporated in the CMMS system.



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