

# Magnetic Filtration

Case Study 27 08/02/13



## Magnetic Filtration

<b>Company Name:</b>	Lifelong Meditech Limited
<b>Location:</b>	IMT, Manesar, Gurgaon (India)
<b>Eclipse Product Installed:</b>	Micromag MM5
<b>Industry:</b>	Disposable Syringes Manufacturer
<b>Process Type:</b>	Cooling water circulation for Injection Molding (Multi cavity Mould)



### Application Background:

Lifelong Meditech is a leading manufacturer of disposable syringes. It has capacity to produce 900 million syringes per year. During the injection moulding process water is circulated around the mould to absorb heat and allow the formed plastic to cool at the required rate.

### Problem:

Problems arise when the injection moulding dies are not in use. The water remains static in the pipeline and rust (ferrous oxide) accumulates. Eventually this can cause blockages to the pipes stopping water flow to the mould. Starved of water supply the mould overheats, resulting in the product in the mould being ruined. In addition there is downtime to remove the product and unblock the water channel.



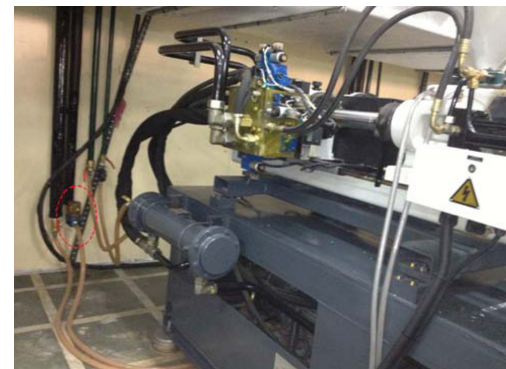
### Solution:

Micromag MM5 was fitted within the water circulation. The Micromag collected all the rust particles (iron oxides) from the water line. The problems of mould overheating have now stopped. The plan is now to install Micromag to each machine at the facility.

### Other Opportunities

Lifelong Meditech Limited markets its products under the Safeway brand and it is the second largest producer of syringes in India with an installed capacity of more than 900 million syringes per annum.

The company has its strong presence in the Northern States of India such as UP, Punjab, Haryana, Rajasthan and Delhi and it is slowly increasing its presence in Western and South Indian states. In the international market, Lifelong Meditech has a strong base of export to Latin America.



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