

# Efficiency

Saving your business time,  
money and energy



Energy costs are escalating and are predicted to continue rising for the foreseeable future\*

Increasing overheads are difficult to pass onto customers. Every business needs to limit increases in cost associated with energy.

There's a lot that can be done to reduce energy consumption through good housekeeping. One of the main consumers of electricity is plant equipment such as moulding machines, chillers and compressed air systems.



\*Source: Trade & Industry select committee report, March 2005

# How?

## Power Savings

By analysing the duty of the equipment we can intelligently reduce consumption and so save money. Improvements can be realised from simple 'flux' optimisation to predictive RPM ramping and speed control.

## Soft Start

'Soft Start' systems are recognised for reducing wear and tear thereby reducing potential maintenance costs. The control eliminates Star/Delta power spikes associated with motor start up. This also reduces the threat of power 'spikes' which could trigger a fine from your provider.

## Intelligent Control

The system predicts the machine cycle and will stop, or slow down the pumps if the machine is left idling to ensure no-one 'forgets' to shut down the pumps.

## Maintenance Costs

The system by-passes the high-current motor start switching and so vastly reduces wear. The motor is not subject to the strain of start up which reduces load. This will also increase the life expectancy of your hydraulic oil.

## Water Cooling

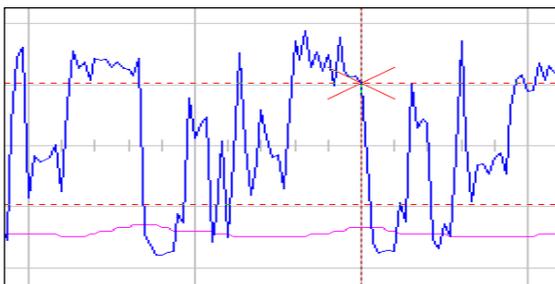
Because we are reducing the load of the machine by the reduction in power consumption, we will also reduce the water-cooling requirement by a similar amount.

## Technology

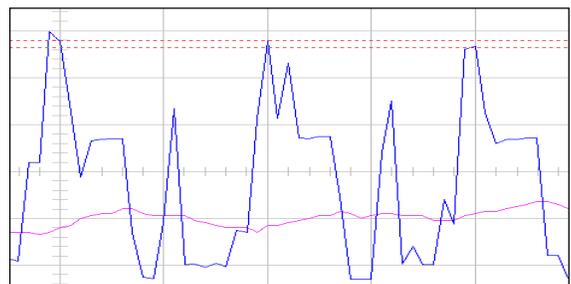
*Mitsubishi Electric, Industrial Automation Systems – Maximising productivity and efficiency with cutting edge automation technology.*

Today more than ever customers expect a solution tailored to the specific requirements of their applications. Expertise in specific industries, coupled with Mitsubishi Electric's innovative automation technology, are the two main ingredients of a successful recipe for made-to-order solutions and perfect customer service.

Mitsubishi Electric's Industrial Automation Systems are synonymous with innovative, high quality products. The programmable logic controllers, human machine interfaces and drive solutions are among the most powerful on the market, and have been contributing to the success of European manufacturing for 30 years.



Without filtering



With filtering



# Helping you to start reducing costs with the right equipment today

GE - Capital Solutions has been providing financial solutions to help companies use their capital more efficiently for more than 30 years.

Their finance specialists will make sure that solutions meet the needs of the industry, helping Sandretto to maximise every opportunity, wherever it presents itself.



Sandretto and  
GE - Capital Solutions  
have worked together to  
provide a finance solution  
tailored to your individual  
needs

- Flexible rental scheme
- Minimal initial outlay

As part of the flexible approach to financing  
we can include costs such as maintenance  
into one easy payment.

**“save as you pay”**

The package is completely transparent so  
your company can easily plan the budget  
without any fear of hidden extra costs.

**“total piece of mind”**



# Typical industry example

## Assumptions

Typical Consumption	= 50% of Total Installed Power 25% absolute power saving on typical consumption
Unit Price of electricity	= 6.1 pence (summer/winter/day/night)
Plant power factor	= 0.90
Running hours per week	= 168
Running weeks per year	= 50

## Results

Sandretto MegaT 750/6434,  
current running cost:  
£626.26 per week operating cost

Optimised running costs with new  
solution:  
£420.17 per week operating cost

**A saving of £206.09 week or £10,304.60 per annum**

## Return on Investment

Predicted Consumption 41KW

Working Hours per Week 168

Power Saving 14Kw (25%)

Working Weeks per Year 50

Average Unit Price 6.174pence

Motor coefficient 0.85

Typical Plant Power Factor 0.90

Applied voltage 415

## Results

**Savings Per year £10,304.60 Return Period < 1 year**

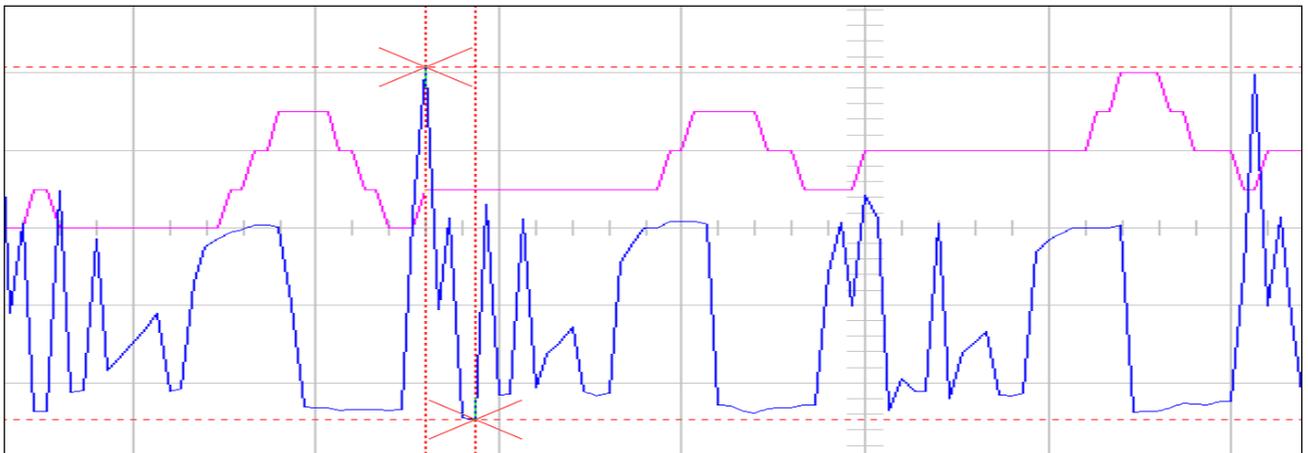
## Rental

2yr = £318.38 per month

3yr = £220.03 per month

4yr = £170.96 per month

5yr = £141.30 per month





For more information on how we can save you time, money and energy contact...

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