

CASE STUDY: Plastic Injection Molding #2

Cyclic loads such as Injection Molding Machines are perfect applications for Powerboss. The hydraulic pump motor within the machine is only on load for a relatively short period of the total machine cycle; the period when the material is injected into the molding tool. During the rest of the cycle the motor runs at around 5% load.



Powerboss was installed by a leading European manufacturer designing, developing and delivering high quality products of technical and visual excellence for the world's leading automotive manufacturers.

Automotive component manufacturing is not only highly competitive, but demands very high quality control and reliability in the manufacturing process. Powerboss' ability to dramatically reduce maintenance costs and downtime is therefore a significant benefit for this along with many other industries.

The company state that they "believe best value is achievable only through the continual assessment and consideration of our customers' needs for high quality and cost efficiency". Powerboss has been able to help them meet these demands as part of an overall energy policy.

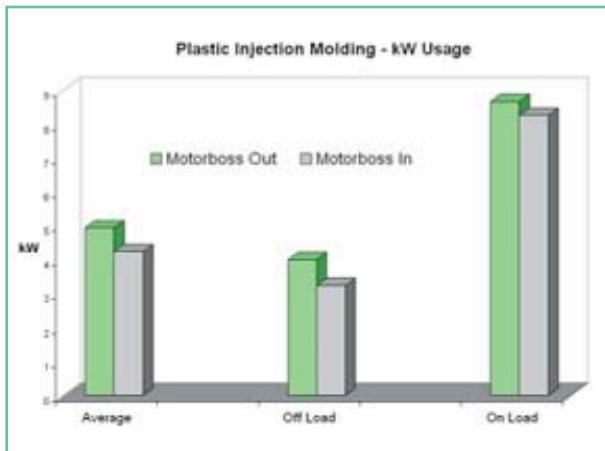
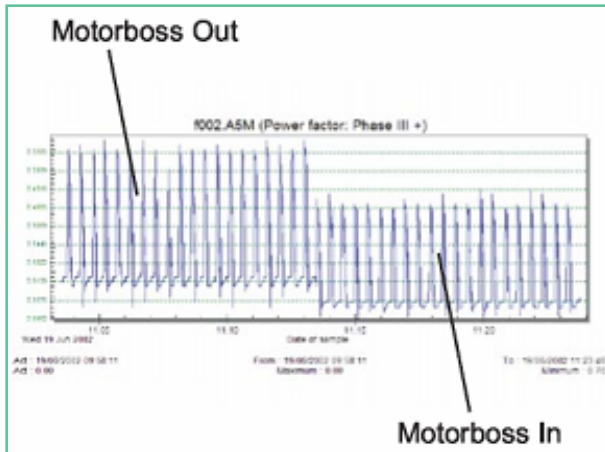


Plastic Injection Molding - The Benefits of Powerboss:

- Soft Starter
- Peak Demand Savings
- Energy Saving Optimization
- Enhanced Signal Optimization
- Reduced Maintenance Costs
- Quieter Machinery
- Reduced Downtime

The Intelligent Choice for Motor Control

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Powerboss units were attached to a number of Plastic Injection Molding Machines producing automotive components. The following extract from the Facilities Manager's letter to the Distributor clearly illustrates his satisfaction at the performance of Powerboss.

"The introduction to your product and the benefits indicated in the survey carried out were difficult to believe and had I not seen them myself I also would have doubted the benefits indicated.

The main usage of electricity within my company is on injection molding machines. They account for approximately 40% of the total electricity consumption. The total overall electricity bills subsequent to installing Powerboss on all the machines, have shown a reduction in excess of the 5% that I had budgeted. Some of the molding machines indicated a saving of 20% plus. I have tried various other means of reducing power usage but none have given the benefits of yours.

In addition to the cost reduction, the motors run cooler and quieter and this in turn will result in fewer motor failures and down time."



Annual Consumption	\$3,755
Savings	16%
Annual Savings	\$605
Cost of Powerboss	\$1,200
Return on Investment	24 months

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