

## CASE STUDY: Escalators and Travelators



Owing to the variable nature of their duty cycle escalators and travelators are seen as ideal applications for Powerboss.

The motor is sized to carry a maximum load of people, however it is only partially loaded when the escalator is less than full .



Powerboss was installed at a major International airport in Australia. It is one of the country's busiest airports handling over 25 million passengers each year, in addition to handling more 500,000 tonnes of airfreight per annum.

Energy efficiency is a significant factor in the management of the Airport, which has been awarded a Gold Green Globe Award for achievements in energy efficiency and reducing greenhouse emissions in recognition of this.

In addition to escalators and travelators, the International Terminal baggage system consists of conveyors, which can handle up to 15,000 bags per hour. These offer another excellent opportunity for Powerboss.

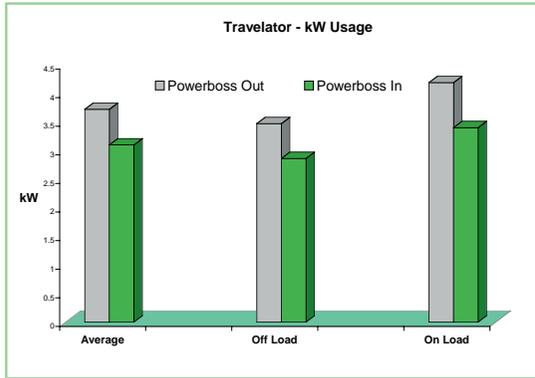


### Escalators and Travelators - The Benefits of Powerboss:

- Soft Starter
- Energy Saving Optimisation
- Quieter Machinery
- Reduced Maintenance Costs
- Reduced Downtime

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A trial Powerboss installation was undertaken on travelators within the airport. It was identified that the motor was only on-load for approximately 5% of its duty cycle.



When the results were metered and measured using a high quality three phase analyser, it was identified that kW savings obtained were 18%, which equated to a return on investment of just over 18 months.

In addition to the energy savings it was noted that the motors ran quieter and a significant reduction in maintenance costs and downtime is anticipated.

Annual Consumption	£1307.00
% Savings	18%
Annual Savings	£235.33
Cost of Powerboss	£375.00
Return on Investment	19 months



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