

Case Study

Austube Mills is a heavyweight of Australian industry. When upgrading to LED lighting, it was no surprise that they chose the leading heavy-duty industrial brand.

primo
FIRST FOR HIGH PERFORMANCE
LED Highbays



AustubeMills
SHAPING POSSIBILITIES

Summary

Austube Mills (formerly known as Tubemakers) wished to upgrade to energy efficient lighting at their massive Mayfield plant in NSW.

After trialling a number of brands, Tiger Primo 17K LED Highbays were selected, due to their performance in the areas of greater temperature and vibration.

1000 x 400W metal halide highbays were replaced by just 654 x Primo 17K 115W LED highbays. The overall saving in power consumption was a staggering 83%.

Challenge Faced

Management was concerned about the harsh conditions in some areas of the site, and trialled a number of brands in those areas as well as on the cranes where vibration has always been an issue.

There was also a significant opportunity to reduce the company's purchase cost and ongoing operating costs by reducing the number of light fittings on-site.

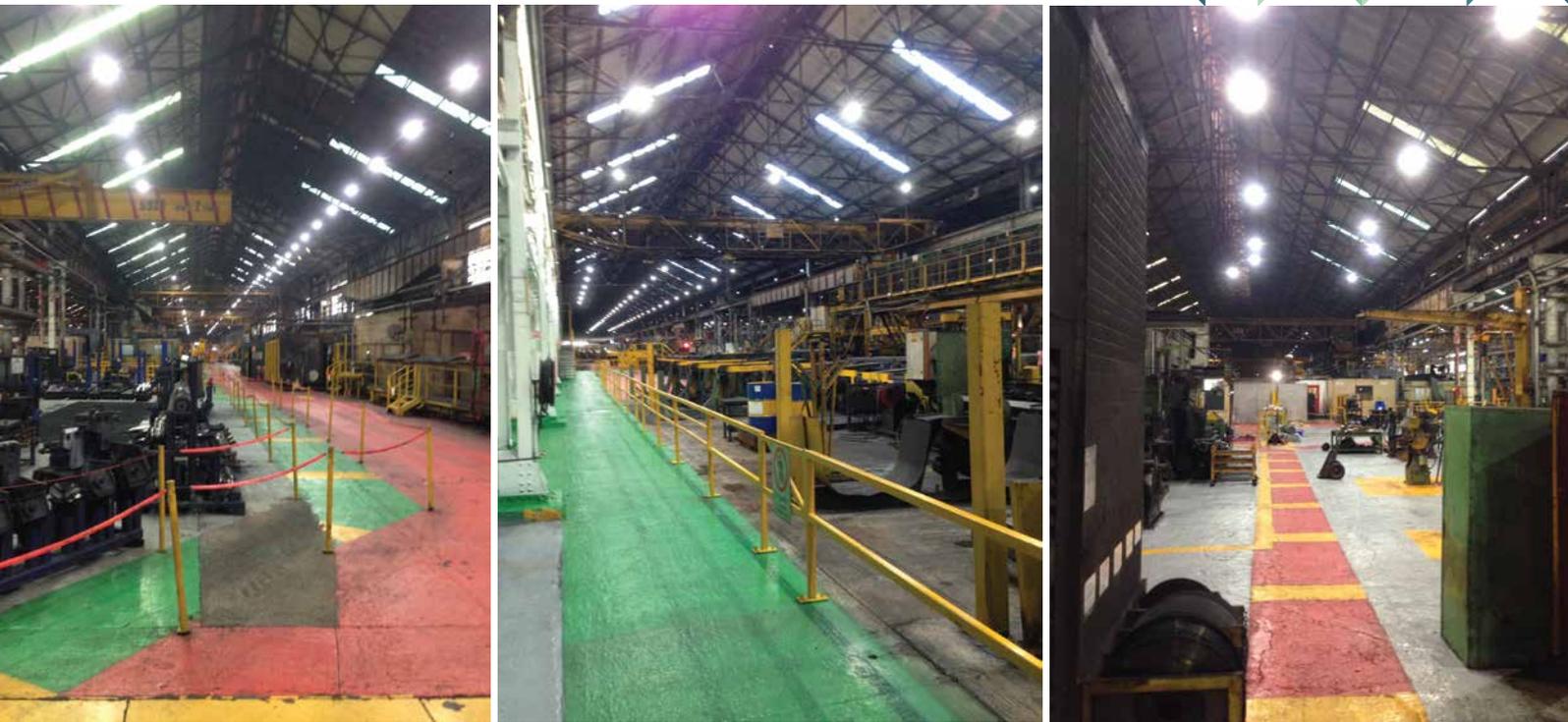
Solution

Tigerlight constructed a comprehensive lighting plan which took into account the different requirements for lighting 8 different buildings - covering raw material storage, manufacturing and warehousing of finished product.

The fitting specified was the Korean-made Primo 17K LED highbay, producing 17,000 lumens from only 115W - at a highly efficient 150 lm/W.

This output, combined with the wide beam angle, allowed the 1000 x 400W MH highbays to be replaced by only 654 x Primo 17K dimmable LED highbays. Light sensors were added later.

The light was improved over the existing levels and was more uniform, creating an improved operating environment, overall.



ABOVE: Primo 17K Dimmable LED Highbays at Austube's main manufacturing centre at Mayfield NSW. 1000 x 400W MH highbays were replaced by only 654 of the 17000 lumen 115W Primo 17K fittings. Improved light levels resulted, along with savings of a staggering 83%. Additional savings have recently been generated by attaching daylight harvesting sensors to the highbays under skylights, allowing them to auto-dim to just 10% in bright sunlight.

Solution – continued

The dramatic reduction in both the number of fittings (34% fewer fittings) and the reduction in power consumption (73% less wattage per fitting), resulted in **a stunning result - an overall reduction of power consumption of 365kW or 83%**.

This reduction delivered two advantages to Austube:

- annual lighting running costs are now down to only 17% of previous levels.
- a very significant cash rebate from the NSW Energy Saving Scheme to offset the cost of the lighting upgrade.

Reduced maintenance costs and the improved light levels also contributed to the successful initiative.

The whole upgrade was completed over a matter of months, in what was a smooth and trouble-free process. Tigerlight was closely involved in the timely supply of the fittings, supported by their wholesaler, as well as the co-ordination of the substantial ESC rebate claim.

Since the initial installation phase concluded, Austube has attached daylight sensors onto the 50 Primo 17K highbays located under skylights. As the highbays are dimmable, they dim automatically when the sun is out, to further reduce power consumption and lower operating costs.

Ongoing after-sales service is managed by the local wholesaler, in association with Tigerlight.

Primo 17K Dimmable LED Highbay

DESIGNED AND BUILT IN KOREA
FOR EXTRA HEAVY DUTY

- 17,000 lumens from just 115W
- 150 lm/W efficiency
- Replaces 400W+ HID
- Dimmable 1-10VDC with light or motion sensors ▶
- 115 degree beam spread
- Height 8-14m
- IP65



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