



Illuminating the South West of England's leading sub contract plant

Location:
Metaltech Precision Ltd,
Chard, Somerset, UK

Segment:
Industrial, Machinery, Processing

Problem:
To significantly reduce energy consumption and CO2 emissions within Metaltech Precision by upgrading and replacing existing T5 fluorescent solutions with LED luminaires to maintain the right level of illumination and utilise intelligent sensors.

Solution:
Eaton's Lighting business' class leading Litex Elite luminaires were installed throughout the Chard manufacturing facility. These hyper-performance IP65 highbay luminaires are designed for high efficiencies and provide protection to IK10, offering an industrial luminaire.

With a long life LED, the luminaire offers in excess of L80 85,000 hours, limiting the requirement of maintenance. With a power consumption of just 93W with sensors, this immediately produced an energy saving supporting the customers' requirements.

"With support from the Electrical Wholesaler, a Litex Elite fitting was demonstrated to us (Metaltech Precision). The option to temporarily install the product, plus the IK10 industrial protection assisted with our choice to purchase over 100 fittings for our facilities."

Callum Preston
Maintenance Engineer , Metaltech Precision

Background

Metaltech is one of the South West of England's leading sub contract manufacturing facility.

With over 45 years of experience, the manufacturing plant now includes turning, milling, grinding, fabricating, welding, painting, assembly and testing.

According to Metaltech Precision's Managing Director, Steve Hill, the company

ambition "is to ensure controlled growth through cost effective manufacture, producing high quality parts, delivered on time."

The growth and cost effective manufacturing is therefore essential to be supported with energy saving luminaires and reducing the CO2 emissions.

Challenge

The existing lighting at Metaltech Precision in Chard consisted of traditional 4x54W T5 fluorescent luminaires, which Metaltech Precision wanted to replace with the latest generation of LED, low energy, intelligent sensor luminaires. The company was looking for a like for like replacement, with a strong payback and simple installation.

Solution

Eaton's Litex Elite luminaires were duly installed throughout the Chard manufacturing plant. Capable of operating at temperatures as low as -40 to +50°C, these fittings deliver instant white light with no restrike or run-up delay, and offer a long service life free

from the need for lamp changes, thereby providing a significant reduction in maintenance costs.

With power consumption of 93W, the Litex Elite luminaires provide energy savings compared to the previous T5 luminaires, with a payback of under 3 years for the whole project.

Results

The installation at Metaltech Precision was successful with the new running costs at a fraction of the original expenditure.

Commenting on the lighting, Steve Hill, Managing Director concluded, "Eaton was able to offer Metaltech the complete package with a range of solutions and a sample to trial with support from the Electrical Wholesaler. We now have the right level of illumination for our plant with sensors to prevent illuminating areas with no-one present."



Powering Business Worldwide

Eaton is a power management company with 2017 sales of \$20.4 billion. We provide energy efficient solutions that help our customers effectively manage electrical, hydraulic and mechanical power more efficiently, safely and sustainably. Eaton is dedicated to improving the quality of life and the environment through the use of power management technologies and services. Eaton has approximately 96,000 employees and sells products to customers in more than 175 countries. For more information, visit Eaton.com.



Metaltech Precision sub-contracting plant application of Litex Elite