



ITA Fasteners Increased A Product's Life of LED Lights Manufacturer



Case Study

"At ITA Fasteners, when we say that we will go to any lengths to solve the fastening problems faced by our clients, we mean it in every sense of the word."

Overview

Your issues, our solutions: How ITA Fasteners increased a product's life for one of their clients.

Challenges

One of our clients - Zeemrah Energy, who manufacture LED lights, came to us with an issue they had constantly been facing.

The outer ring of the spotlight in which their LEDs are mounted, is made of Aluminium due to its good weight to strength ratio. And to hold the LEDs in place, M4 fasteners are used.

But they noticed that even small movements like the application and removal of the fastener caused damage to the threads. Since aluminium is a soft metal, the threading inside the frame was weak

and failed continuously. This led to the loosening of the fastener which ultimately led to the loosening of the LEDs.

How We Helped

We suggested the use of **Helicoils**, which is made of stainless steel grade 304, to be used where the threading was done. This reinforced the strength of the holder and increased the product life of the LED lights exponentially.

Results

The threaded joint came out with a 100% success rate after being tested for 1000 cycles.

"Due to our vast expertise in this field, a simple suggestion from us made all the difference in a company's manufacturing success."

