

ENGINEERED FOR AMERICAN STEEL



Facility: **Gerdau S.A. Long Steel Facility**
Location: **Jackson, Michigan**
Application: **Steel Mill**
End Customer: **Gerdau S.A.**
Partner: **Englewood Electrical Supply - Distributor**



Key Results

- \$24,517 In Qualified Rebates (12 Month ROI)
- Estimated 290,035 kWh of Annual Energy Reduction
- Footcandles Increased by 20+
- Improved Employee Safety
- Reduced Maintenance Costs
- Replaced 1000w Metal Halide with 440w LED

“ The demands placed on lighting in a steel facility like ours requires a solution that lasts long enough to reduce the maintenance interruptions associated with changing them out. Everlast® brought us that solution when no one else could.
- Project Manager



Engineered to Endure

Gerdau S.A., headquartered in Sao Paulo, Brazil, is the largest producer of long steel in the Americas. With a mission to create value for their customers, shareholders, employees, and community, Gerdau understands the importance of energy conservation in all aspects of its operations.

EverLast **High-Temp
Multi-Module**



Overview

Gerda S.A.'s Jackson, Michigan, facility is a specialty steel plant that produces long steel for the automotive, agricultural, and energy markets, among others. In operation for 40 years, and employing more than 400 people, Gerda endures as a vital part of the community in which it operates. Producing in excess of 350,000 tons of long steel per year, the Gerda Jackson plant plays a vital role in supporting the industries its steel serves.



Challenge

The nature of the steel industry mandates near zero downtime. For this reason equipment maintenance schedules are short, and spaced far apart, and the Gerda lighting project was not an exception. This project demanded a very specific set of requirements which needed to be met. This limited window of opportunity required a lighting solution that was quite literally "plug and play" for each of the 120+ lights to be installed throughout the Jackson plant.

A lifespan greater than the original metal halide fixtures was a must to avoid interruptions to Gerda's production schedules. The existing 1000 watt fixtures had experienced the rapid lumen depreciation that has become synonymous with metal halide technology. The new lighting solution would need to vastly exceed the existing footcandle levels, and most importantly, be able to withstand extreme heat in excess of 140°f, which is commonplace in the steel industry.

Solution

With quick installation times required to minimize production interruptions, EverLast® Lighting provided easy to install, fully customized EverLast® high-temp multi-module LED fixtures. This provided Gerda with a "plug and play" solution, and a lumen package that far exceeded their previous fixtures. EverLast® delivered the ideal custom lighting solution built specifically for Gerda and their demanding environment.

Results

More than doubling the foot-candles at ground level resulted in improved employee safety and efficiencies where the new lights were installed. The use of our 30 inch spun aluminum reflector was instrumental in creating ideal distribution patterns from the 40+ foot mounting heights, and provided more protection in the harsh environment than their old lights. Another significant benefit seen by Gerda was the reduction in lighting maintenance thanks to the longer lifespan and increased lumen maintenance of the EverLast High-Temp Multi-Module LED fixtures over the old metal halide lights.



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