

Custom Engineered Solution for a Major Steel Manufacturer - TECO Electric Motors Australia and New Zealand

Canonical:

<https://electricmotors.teco.com.au/challenges/custom-engineered-solution-for-a-major-steel-manufacturer/>

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Custom Engineered Solution for a Major Steel Manufacturer

Location : Auckland, New Zealand

Industry : Steel Manufacturing

Application : 4kW 8 Pole B5 Brake Motor Replacement

A major steel manufacturer in Auckland needed to replace a 4kW 8 Pole B5 brake motor used in a specific application. The challenge was that the existing motor had a non-standard shaft and flange, making it difficult to find a suitable replacement without re-engineering the entire application.

The main challenge was that standard IEC dimensions did not suit the application. This meant that either a specially engineered motor was required, or the entire application would need to be re-engineered, which would be costly and time-consuming.

Solution:

Custom Engineering : TECO acquired the precise dimensions of the flange and shaft required from the customer and confirmed the specifications of the brake in use. TECO's modification shop then took a standard 4D8S PSD motor and manufactured a custom shaft and flange. They also fitted the brake, removed the feet, and added additional lifting points.

Direct Replacement : By engineering a direct replacement for the existing unit, TECO ensured the customer did not have to spend significant time, money, and effort re-engineering their application.

Benefits to the Steel Manufacturer:

Seamless Integration : The custom-engineered solution allowed for a direct replacement, eliminating the need for extensive modifications.

Cost and Time Efficiency : The solution saved the customer from the high costs and long timelines associated with re-engineering their entire application.

Results:

The steel manufacturer successfully replaced their non-standard brake motor with a custom-engineered TECO motor. This solution provided the necessary performance while saving significant time and money.

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