

# TUBULAR AXLE INDUCTION MOTORS FOR RAILWAY TRACTION

This report broadly outlines the experimental phase of the TAIM (Tubular Axle Induction Motor) project.

A three-phase electric traction system for railway vehicles is described. The traction motor is an inside-out induction machine built within the tubular axle, driving the wheels directly without gearing.

The concept offers potential savings in manufacturing and maintenance costs. Good agreement has been obtained between predictions and measured performance on a series of experimental motors and production versions are now being designed.

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