



Poster 19

Improving the formability of automotive steel grades via hot rolling and run out table simulations



Liam Moody

AUTHOR OF POSTER:
Liam Moody

INSTITUTION:
Swansea University

OTHER AUTHORS:
TATA Steel, M2A Coated

ABSTRACT:

This research focuses on optimising rolling parameters at industrial and laboratory scale using bespoke software, which can be adjusted to incorporate microstructural information from the industrial scale to augment the processing conditions at the laboratory scale. This poster will address some of the challenges of rolling at the laboratory scale when trying to replicate plant produced processes, and methods used to try and mitigate or eliminate such challenges to create a representative simulation of the finishing mill and run out table. The end goal of this research is to create a laboratory scale, based hot rolling simulation for Tata Steel's DP800 grade in order to optimise the rolling schedule and run out table cooling parameters to reduce coil waste in line with TATA Steels sustainability goals. This work also aligns with the Prosperity Partnership in paving the way to scale-up novel RAP produced alloys. .



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