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The best knows no limits! It's time to challenge the ESP sequence lengths

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Arvedi ESP (Endless Steel Production) has transformed the steel industry by integrating continuous casting and direct hot rolling into an ultra-compact process. This innovation has introduced the endless Hot Rolled Coil (eHRC) as a new market product with unprecedented geometrical tolerances and mechanical uniformity. However, ESP production follows casting sequences, which are interrupted from time to time for re-stranding operations. Currently, these production sequence on ESP lines are typically lasting for 8-12 hours. The limiting factors are the lifespan of critical components like work rolls, Submerged Entry Nozzles (SEN), and tundish wear linings. This paper describes new methods and technological advancements that extend the sequence length to 16-24 hours and beyond. Extending the sequence length boosts production efficiency, reduce operational costs, and improve competitiveness for ESP users. These advancements enable continuous production of the most complex product mix on thin slab casting and rolling plants, while preserving the core features of Arvedi ESP lines, such as zero-carbon emission hot rolling and high-quality coils.

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