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Investigation of the impact of Rehbinder effect, electrical erosion and wire tension on wire breakages during WEDM

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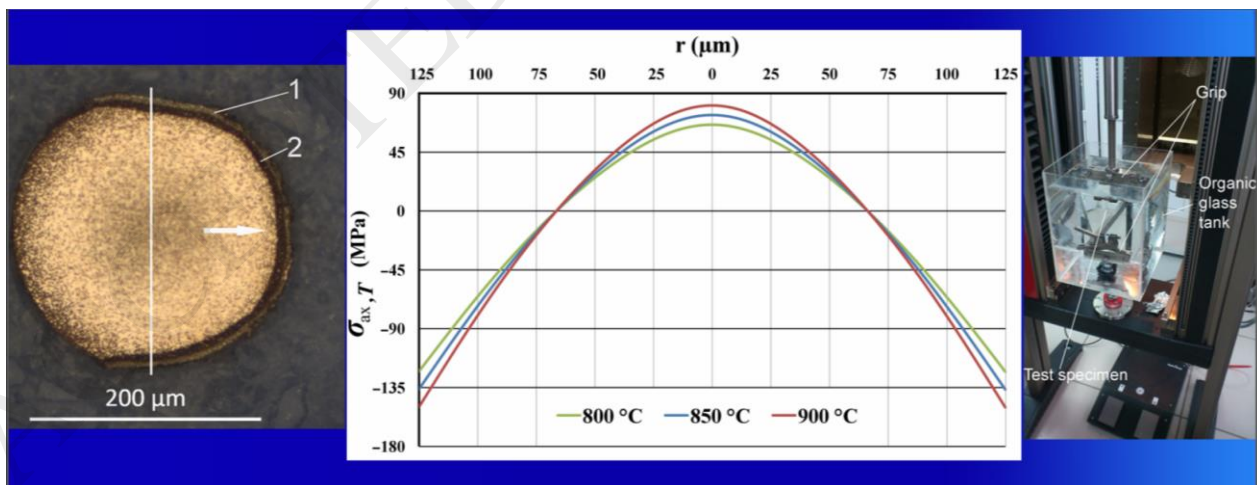
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Graphical abstract



## Abstract

The paper provides an analysis of the influence of the Rehbinder effect, electrical erosion and wire tension on breakages during wire electrical discharge machining (EDM) of steel 36CrNiMo4 (the analogue of AISI 9840) by the SODICK VZ300L machine. A classification of wire breakages (explicit and implicit) is proposed and the reasons for both breakage types are considered.

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