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Dynamics of rotational flow in friction stir welding of aluminium alloys

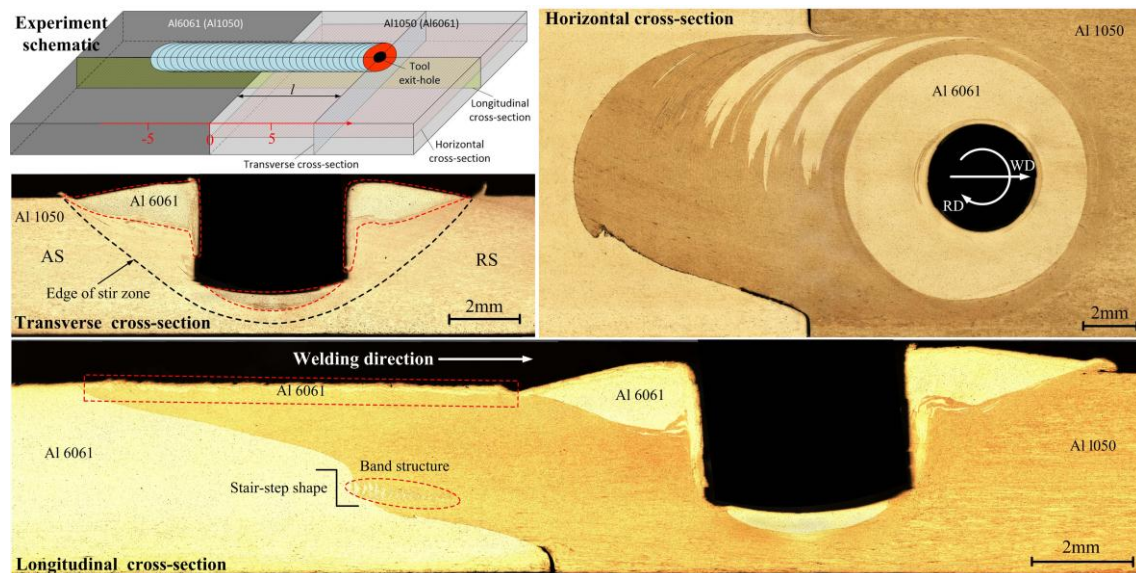
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Graphical abstract



Highlights

- The dynamic evolution of the rotation flow zone in friction stir welding was visualized.
- A three-dimensional hollow inverted truncated cone shape of the rotation flow zone is confirmed.

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