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Stationary Shoulder Supporting and Tilting Pin Penetrating Friction Stir Welding

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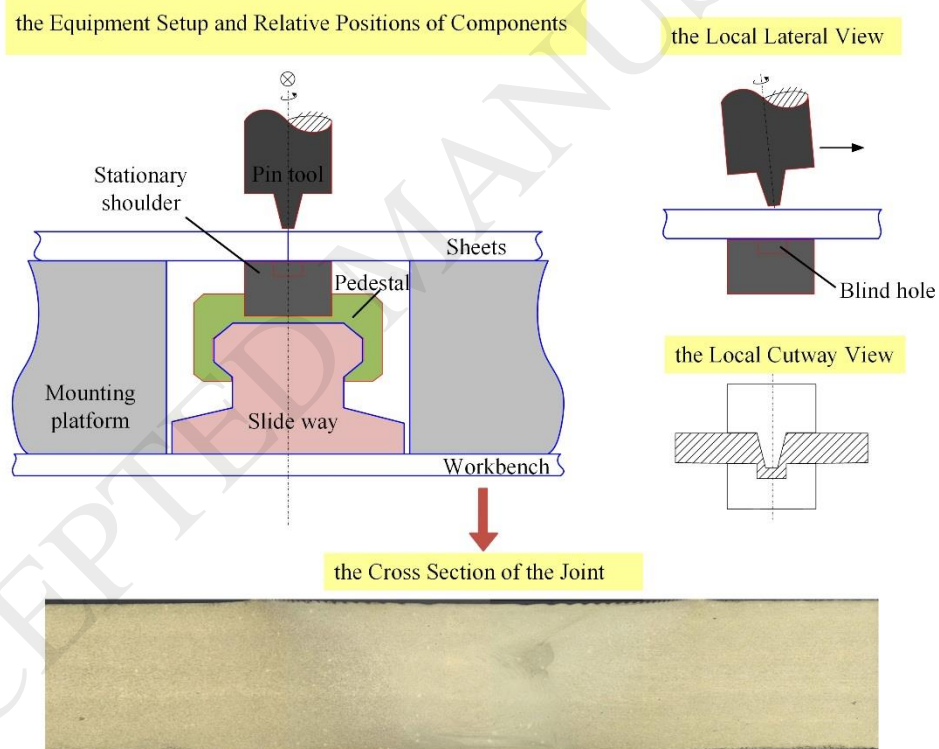
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Graphical abstract

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