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Experimental investigation of magnetohydrodynamic effect in electrochemical discharge machining

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Highlight:

- Demonstration of the mechanism of bubbles and gas film evolution under magnetohydrodynamic (MHD) effect
- The presented model of gas film evolution under MHD effect is consistent with high speed camera images
- The trade-off problem between micro machining time and quality are both enhanced utilizing MHD effect
- Applying MHD effect and counter resistant feeding method makes the micro through hole in glass available with good surface integrity

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