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Influence of target strength on the penetration depth of shaped charge jets into RHA targets

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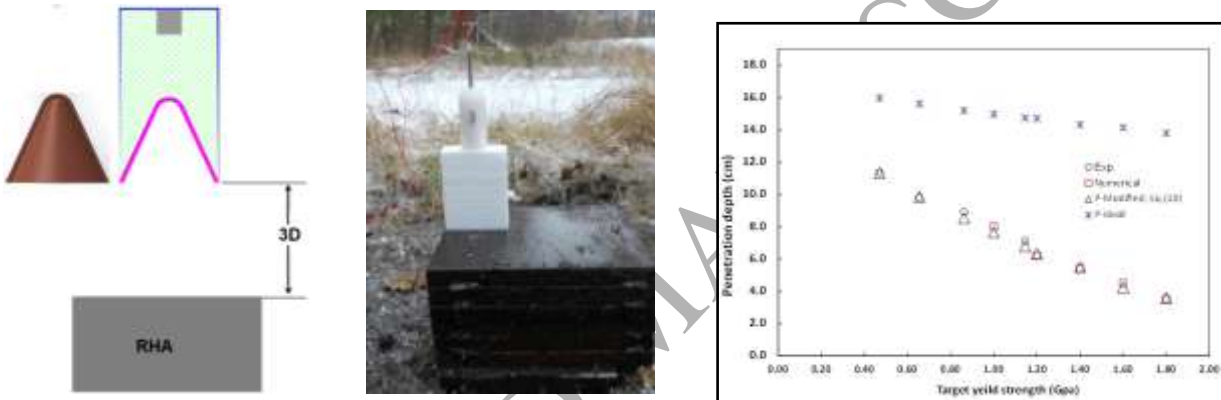
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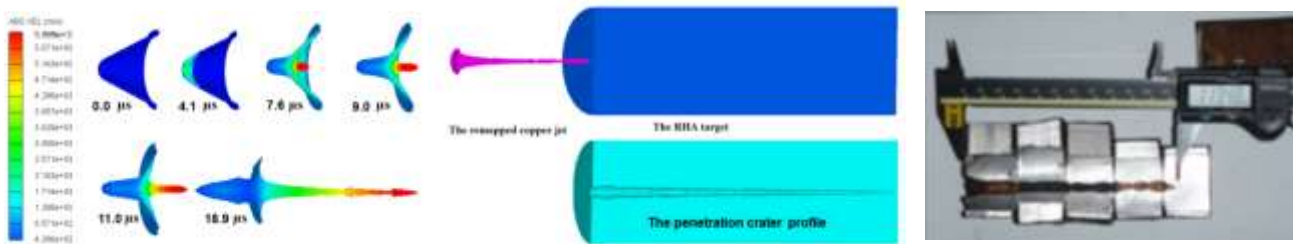
## Highlights

- Effects of metal target strength on shaped charge jet penetration are demonstrated by experimental, numerical and analytical methods
- An modified Allison-Vitalli model is proposed to consider the effect of target strength on penetration depth
- Numerical model of RHT penetrated by shaped charge jet is established, validated and applied to understand the target strength influence

## Graphical abstract



A clear evidence to show the effect of target strength on the shaped charge jet penetration



A well-validated shaped charge numerical model for the formation of jet and penetration

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