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Dynamic lateral mass impact on steel stringer-stiffened cylinders

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**Highlights**

- Dynamic mass impact tests have been performed to investigate the response of stringer-stiffened cylinders.
- Numerical simulations of the impact response of the stringer-stiffened cylinders are conducted.
- The effects of the strain-rate hardening definition on the numerical results are highlighted.
- Parametric studies were conducted on stringer-stiffened cylinder models to clarify the effect of boundary conditions, impact velocities, impact locations, stringer-stiffeners as well as striker header shapes.

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