

Technology Transfer Track Posters

Glass-to-Metal Seals Technology

VAC-TRON has developed advanced Glass-to-Metal Seals specifically designed for the In-Vessel electrical feedthroughs of the ITER project. This technology enables the transmission of electrical signals produced by sensors through hermetic seals, offering high resistance to temperature and pressure while ensuring safe and compact designs.

The core technology involves fusing glass to create a hermetic seal between the electrical conductor pin and the external shell or bulkhead. VAC-TRON has played a key role in developing the connectors that carry sensor signals within ITER, which measure temperature, irradiation, and plasma composition.

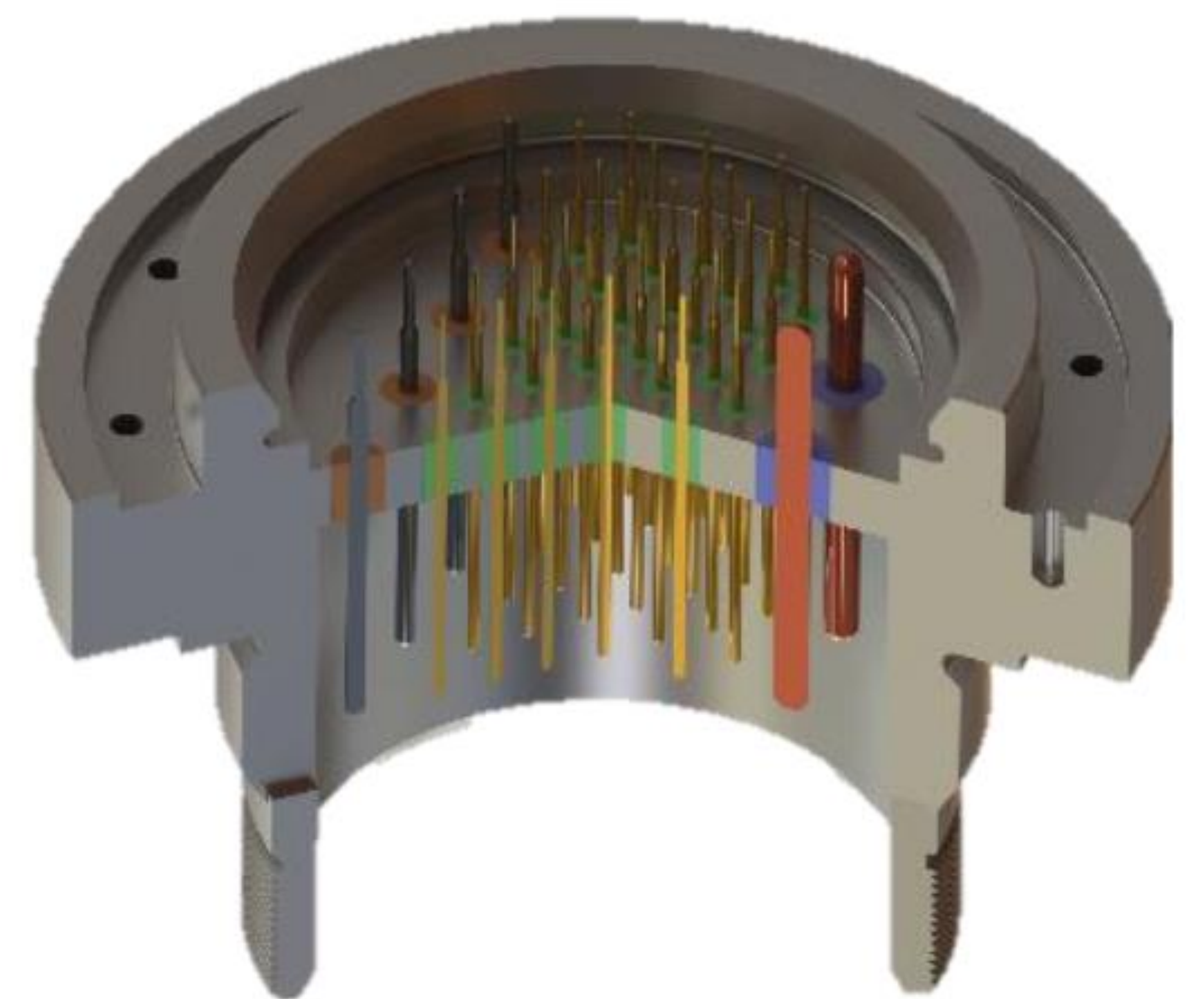
This technology's design flexibility allows for multiple signal compatibilities, making it suitable for various sectors beyond ITER. Applications include space (secure feedthroughs with reduced weight), Big Science facilities (compact designs for Ultra High Vacuum applications), oil and gas (safety power and signal feedthroughs), and hydrogen-related applications.

Benefits of the technology:

- Hermetic interconnections at harsh environments.
- Compact and simple designs.
- Connection of different types of conductors on a single wall.

Application Areas:

- Big Science facilities.
- Aerospace.
- Energy.



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