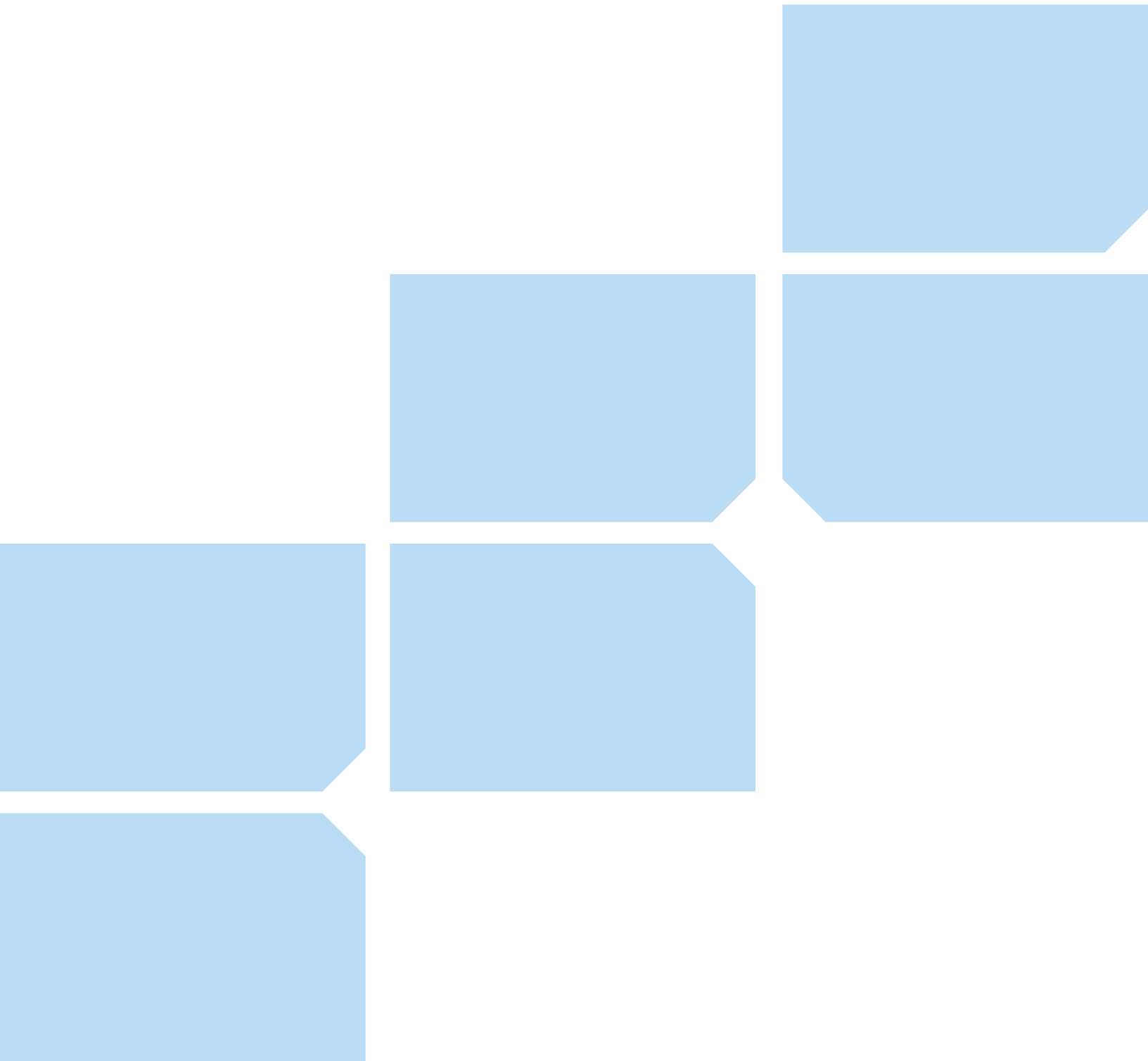


OPTIMIZING LEAD DESIGN AND
MANUFACTURING TO ENABLE DEEP
BRAIN STIMULATION



CHALLENGE

A medical device OEM relied on Heraeus Medevio's innovative solutions to design, develop, and manufacture a Deep Brain Stimulation (DBS) lead with complex requirements, including:

- Segmented electrodes to provide directional stimulation, targeting areas where stimulation is needed the most
- A multi-channel stimulation array
- A seamless connection of segments

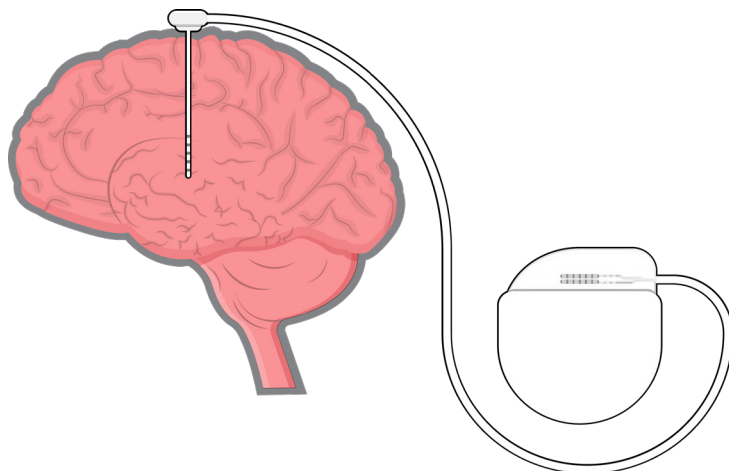
SOLUTION

To overcome these complex challenges, the customer leveraged Heraeus Medevio's:

- IP to segment electrodes to custom applications, which are ready to be incorporated into product development plans
- Tailored modular assembly capabilities for the proximal and distal ends
- Advanced configurations for multiple electrodes (up to 12 channels)
- Innovative extrusion process to achieve a complex electrode geometry
- Expertise in materials, welding, overmolding, and reflow

OUTCOME

The OEM partner's requirements were met on time, enabling the team to achieve its pre-clinical milestones successfully. Leveraging Heraeus Medevio's innovative solutions allowed them to efficiently overcome technical challenges with an optimized design and advanced manufacturing processes.



MARKET

Neuromodulation



ELECTRODE SEGMENTATION



EXTRUSIONS



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