



Fraunhofer
ADVANCER

FRAUNHOFER ADVANCER ALLIANCE

ADVANCED CERAMICS AS ENABLER FOR SUBSEA SYSTEMS

DEEP-SEA MINING | OIL AND GAS PRODUCTION



ADVANCED CERAMICS IN SUBSEA APPLICATIONS ENABLE A RELIABLE AND EFFICIENT OPERATION UNDER ROUGH CONDITIONS.

GAINING THE COMPETITIVE EDGE THROUGH ADVANCED CERAMICS

Due to their extremely high compressive strength in combination with corrosion and wear resistance ceramic materials have great advantages over other materials. They are best suited to achieve significant improvements in existing and new **subsea systems**.

The Fraunhofer AdvanCer Alliance is **research partner and supplier** for:

- **Extremely wear- and corrosion-resistant components** for rough conditions
- **Pressure-resistant transparent ceramics** for optical systems
- **Robust electronics and sensor systems**
- **Measuring and monitoring systems** for structural health monitoring and process control
- **Compact membrane systems** for separation and water treatment processes

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