



Vos Prodect Innovations B.V. is a specialist in design and supply of subsea cable protection systems and accessories, and the first to design a monopile entry system in 2008. The system has been re-designed in order to cope with the actual offshore wind farm cable installation requirements. It's extensively tested and qualified with on- and offshore simulations and has recently been selected for a new offshore wind farm project.

# + PRO-MES MONOPILE ENTRY SYSTEM

Pro-MES is a new development of Vos Prodict Innovations. The monopile entry system has a unique locking mechanism, with no moving and or mechanical parts. The design is aimed at easy installation, no malfunctions / failures during pull-in, protection of the cable and significant cost reduction.

Protection systems consists of; bend stiffener with a locking piece, polyurethane bend restrictors, ductile cast iron bend restrictors and connecting pieces.

## + FEATURES

- Easy and straight installation on the cable and combined pull-in
- Adaptable and reliable interface with the hole on the monopile
- Secure the minimum bending radius of the cable during pull-in and operational life
- Protect the cable against abrasion, vortex induced vibration and fatigue
- Enable cable replacement
- Withstand forces of rock dumping
- Polyurethane bend restrictors with ductile cast iron inserts used at the free-span section for better stability and fatigue



## + PROJECT REFERENCES

- Gemini OWF / Van Oord

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