

Suction Piles for

## WTG Substructures

**SPT Offshore** 



# Suction Piles for WTG substructures

#### **Product characteristics**

- Three legged jacket with suction pile foundation.
- Applicable for all available wind turbine sizes
- Water depths up to 60m
- Suited for wide range of soils

## Benefits of suction piles for WTG substructure foundations

- Innovative combination of **proven** technology results in low risks and high predictability
- Economical fabrication
- Fabrication costs are reduced significantly, since no pile sleeves, -catchers, -centralizers, mud mats and eveling padeyes are required
- Very swift offshore **installation** within 6 hours
- Environmental friendly, noise-free and vibration-free installation
- Removal and decommissioning by reverse installation -Fast and without a trace
- Integrated scour protection system, hence no seabed preparations or rock dumping

- ✓ Lower cost
- ✓ No noise
- ✓ No vibrations
- ✓No shock-waves
- ✓ Utrashort offshore installation time
- ✓ Removal without leaving a single trace behind

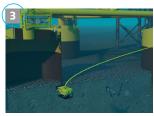
## Transport and installation



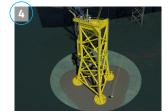
Transport WTG substructure to field



Position and lower to seabed



Install suction piles



Remove pump skids and disconnect rigging

### SPT Offshore track record for WTG substructure foundations



Vattenfall Aberdeen Offshore Wind Farm





Borkum Riffgrund 1 Wind Turbine Dudgeon Offshore Wind Substation



Tri-Suction Pile Caisson (TSPC)