

## Case Study

### Range of coating and application solutions ensure offshore pipelines and drilling technology is protected against corrosion and wear

Bridgeforth Engineering, based in Inverkeithing, Scotland, manufactures a wide range of precision machined components for use in the oil, gas and renewable energy sectors.

#### THE CHALLENGE

Supplying pipelines and Christmas trees, which are used in subsea oil drilling operations, Bridgeforth Engineering's manufactured equipment is subject to harsh undersea conditions. Such a hostile environment can lead to tremendous wear and corrosion and is why Bridgeforth sought to work with an oil and gas coatings specialist.



#### THE SOLUTION

Bridgeforth began working with Surface Technology around twenty years ago following a recommendation from FMC Technologies, a prominent Bridgeforth customer. Since then, they have made use of a variety of Surface Technology services and the two companies have maintained a strong business relationship over the years.

Armourcote® PTFE coatings are applied to drill bits and Christmas Trees to provide outstanding abrasion resistance and a very low co-efficient of friction to reduce the likelihood of breakdowns and improve the equipment's lifespan.

Bridgeforth also take advantage of other Armourcote® surface treatments, such as Armourcote® 4000 series, an aqueous fluoropolymer coating, to protect pipelines against corrosion from hydraulic fluids and subsea conditions.

#### THE RESULT

- Consistent high quality customer service and continuous improvement has resulted in Bridgeforth Engineering being a Surface Technology customer for over 20 years
- Coatings provide enhanced protection against corrosion and wear for the harsh deep-sea environment where Bridgeforth's parts and components work
- Proven coatings and application services, together with a consultative approach, has developed a number of robust surface coating solutions for Bridgeforth Engineering
- The range of coatings and scale of infrastructure provided by Surface Technology meets the requirements of Bridgeforth's components, small and large



We've been using Surface Technology for the last twenty years or more. Over this time we've built up a very good relationship with them and they have always provided us with a really good service.

Maureen Pagan, Purchasing Manager,  
Bridgeforth Engineering