

## EEN Contact

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## Key info

POD: [TODK20251028011](https://www.todk20251028011)

Web site: [www.aviatec.dk](http://www.aviatec.dk)

- Suitable for maritime industry applications
- Highly competitive production process
- Propeller shafts
- Piston rods
- Turbo S-cam
- Marine pumps and engines

## About

Founded in 1965 Aviatec started the business as service company in the local airport. In 1975 a new production process was added called Friction Welding. This step was inspired by the use of it in the automotive and aerospace industry and became significant in the aerospace industry. Over the years Aviatec expanded adding more machines as knowledge of the technology has become more prevalent. This spread of competences lead to business in new industrial segments like hydraulic piston rods, turbo, S-cam and propeller shafts in the maritime industry. Significant and well-known international end-user customers document the value of this process.

The benefits of friction welding are numerous. Amongst other things, friction welding allows components to retain the strength of its parent material. In situations where one part of the component demands very specific capabilities (i.e. stainless, corrosion resistance) and another does not, friction welding eliminates the need for building components out a solid piece of expensive material. These all add up to savings through the entire production process, from using only the right material for the right job and saving money on CNC machining.

Saving up to 70% on materials in the production process as well as significant CO2 reduction makes this process highly recommendable.

## Technology offer

- As strong as the parent material due to a complete bond over the full surface of the part and the absence of pores, cracks and notches as in e.g. traditional welding
- Flexible designs combining different materials without compromising on strength
- Reduced labor costs and material usage compared to conventional manufacturing techniques
- Friction welding delivers consistent quality since all steps in the process are monitored and machine-controlled, which delivers the same high quality every time
- Saving up to 70% on materials in the production process
- Significant CO2 reduction makes this process highly recommendable

