# Danish total supplier of friction welding and machining offer sustainable production solutions that reduces material usage and labor costs sustainable solution also reducing for industrial applications

# Summary

Profile type

**Technology offer**

Company's country

**Denmark**

POD reference

**TODK20251028011**

Profile status

**PUBLISHED**

Type of partnership

**Commercial agreement with technical assistance**

Targeted countries

- **Spain**
- **Poland**
- **Portugal**
- **Latvia**
- **France**
- **Estonia**
- **Switzerland**
- **Netherlands**
- **Lithuania**
- **Italy**
- **Slovenia**
- **Sweden**
- **Hungary**
- **Belgium**
- **Germany**
- **Austria**
- **Czechia**
- **Greece**
- **Finland**
- **Japan**

Contact Person

**Noriko MITA**

Term of validity

**28 Oct 2025**

**28 Oct 2026**

Last update

**5 Nov 2025**

# General Information

## Short summary

Danish total supplier of friction welding and machining offer sustainable production solutions  and is looking for partners in demanding industries like food & pharma, maritime and aviation offering its expertise and ability to co-develop on customized solutions.

## Full description

Founded in 1965 this Danish SME started the business as service company in the local airport. Inspired by production processes in the automotive and aerospace industries the company added Friction Welding as an internal production process and gradually learned to master this technology.

Over the years the client 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. Now serving client in Food & Pharma, Maritime, Aerospace as well as heavy duty industries. Significant and well-known international end-user customers in these segments document the value of this process.

The company offer friction welding technology and machining for various applications in industrial segments like e.g. marine engine manufacturers, pump manufacturers, drive shafts and sensor housing. In the Food & Pharma products are typically supply valves, pump shafts, blanks and actuators – supplied as raw parts or finished components.

All steps in the process are monitored and machine-controlled, which delivers the same high quality every time focusing on high quality, cost savings and sustainability. The client offer to engage in design development offering its ability to co-develop on customized solutions for the benefit of the end-user satisfaction.

Advantages and innovations

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.

• 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

Technical specification or expertise sought

Stage of development

**Already on the market**

Sustainable Development goals

**• Goal 9: Industry, Innovation and Infrastructure**

**• Goal 12: Responsible Consumption and Production**

IPR Status

**No IPR applied**

IPR Notes

# Partner Sought

Expected role of the partner

This client is looking for industrial partners like marine engine manufacturers, pump manufacturers, drive shafts and sensor housing manufacturers. In the Food & Pharma products are typically manufacturers of supply valves, pump shafts, blanks and actuators.
The potential partner should benefit from the friction welding process by reducing material waste as well as

significantly Co2 emission from own production process.

Type of partnership

**Commercial agreement with technical assistance**

Type and size of the partner

- **SME 50 - 249**
- **SME 11-49**
- **University**
- **Big company**
- **R&D Institution**

## Dissemination

Technology keywords

- **02009005 - Shipbuilding**
- **02011002 - Aircraft**
- **02009006 - Traction/Propulsion Systems**
- **08001004 - Food Processing**

Market keywords

- **08003001 - Machine tools, other metal working equipment (excl. numeric control)**
- **05008001 - Marine products**

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- **Belgium**
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- **Austria**
- **Czechia**
- **Greece**
- **Finland**
- **Japan**

Sector groups involved

- **Agri-Food**
- **Aerospace and Defence**
- **Maritime Industries and Services**