



## THALES CRYOGENICS B.V.

*“Thales Cryogenics manufactures state-of-the-art cryocoolers for defence, industry and space.”*

### About us

**Thales Cryogenics** is the European leader in cryogenic technology and supplier of cryogenic coolers. Our main technologies are Linear Flexure bearing split Stirling (LSF) and Linear Pulse-tube (LPT) cryocoolers, for cooling small sensors and/or circuits to cryogenic temperatures. The company has both the industrial platform for series-production of long-life high-reliability cryocoolers and the expertise to design & produce cryocoolers for the most challenging space applications. Critical manufacturing and test activities are performed in-house, including welding, brazing, thermal vacuum testing and mechanical testing.

### Solutions

Thales Cryogenics off-the-shelf cryocoolers are the market benchmark for reliability and life time. Thales flexure-bearing compressor technology has eliminated any failures in the compressor. These compressors can either be paired with a high-efficiency Stirling cold finger (LSF series) or a Pulse-tube cold finger (LPT series).

The LPT series has accumulated over 108 operating hours and has shown a reliability of >99.7% after 10 years of continuous operation. It is offered with a 5-year warranty.

### Company highlights

Thales Cryogenics has delivered the compressors for European space infrared instruments such as MTG and IASI-NG.

The LPT series is used as a low-cost off-the-shelf cooler for many space missions, such as JPL's ECOSTRESS and EMIT instruments. In 2019, Thales was awarded a NASA Technology Achievement Award for ECOSTRESS.

## THALES Cryogenics

### Company facts

- 70 employees in Eindhoven, The Netherlands
- 80 space cryocoolers delivered for space
- 350000 on-orbit operating hours



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### Connect

