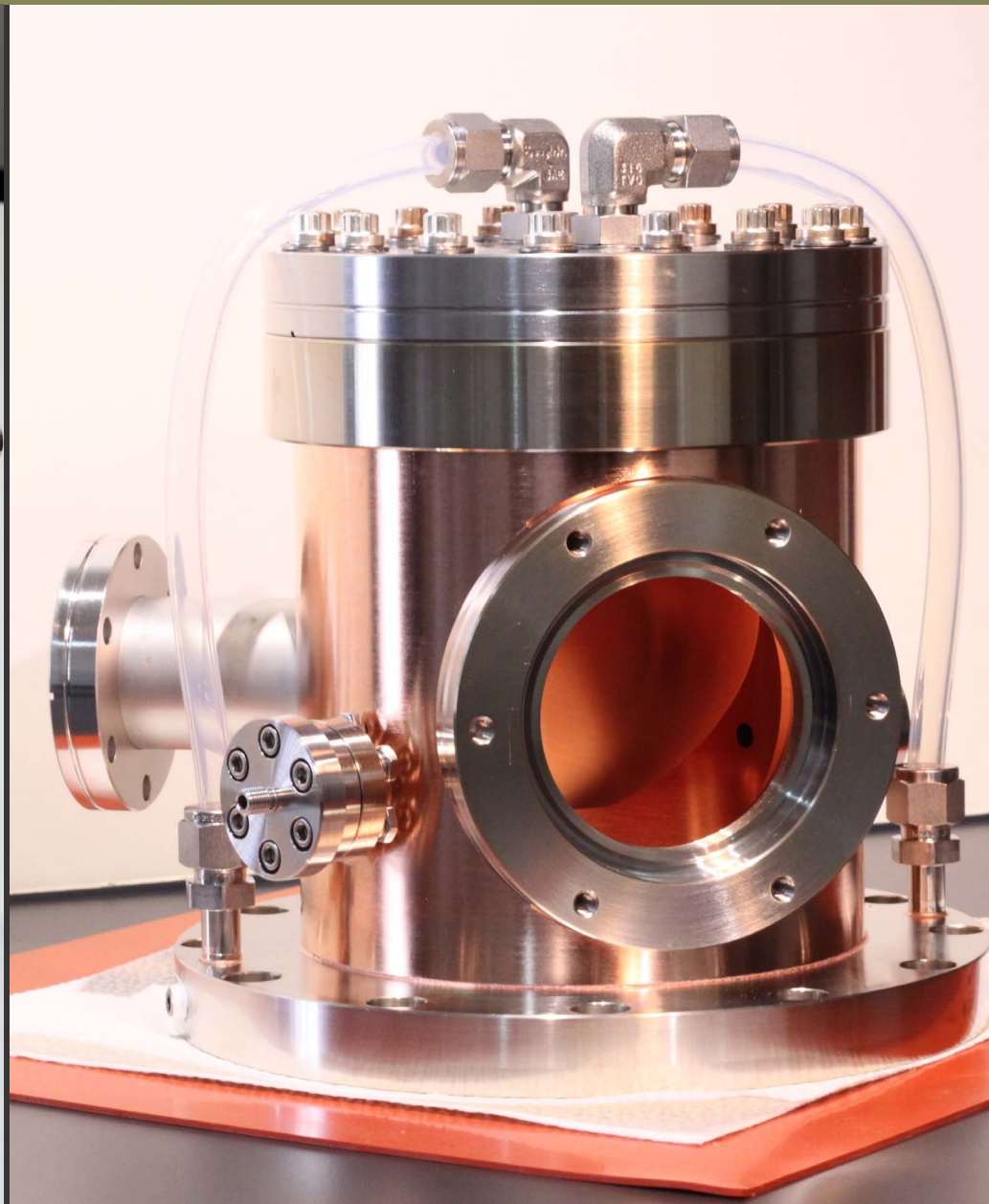
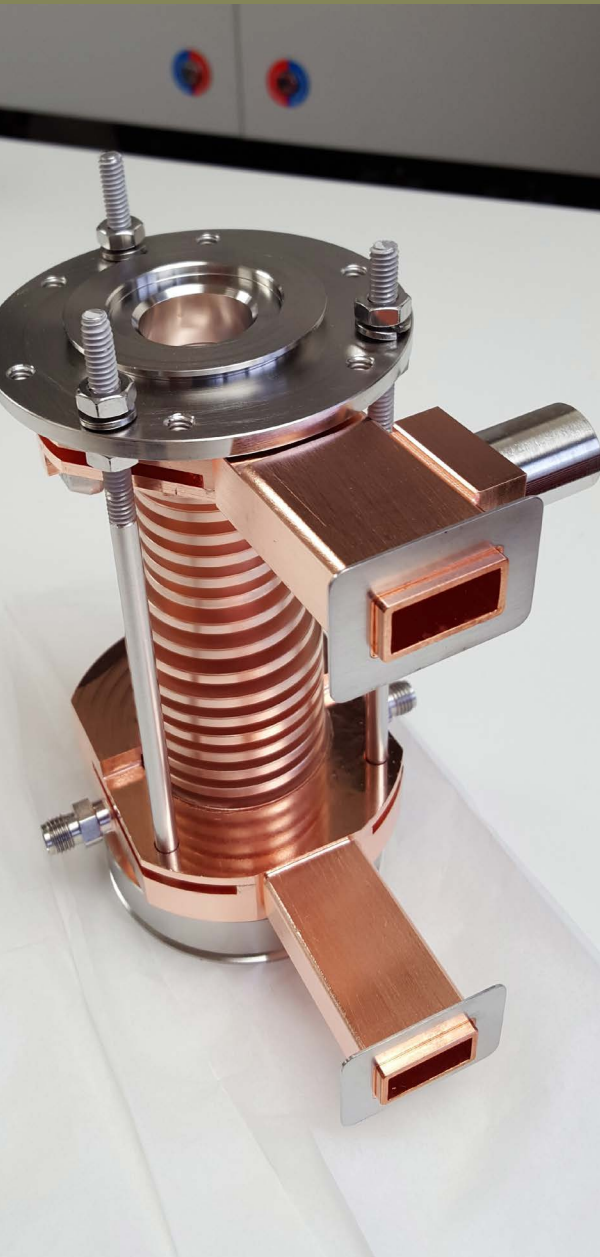


DYMENSO

www.dymenso.com



Analysis Driven Design Solutions

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» Dymenso Founded

2008

2009

2010

2011

2012

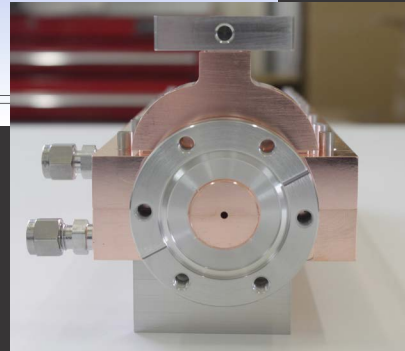
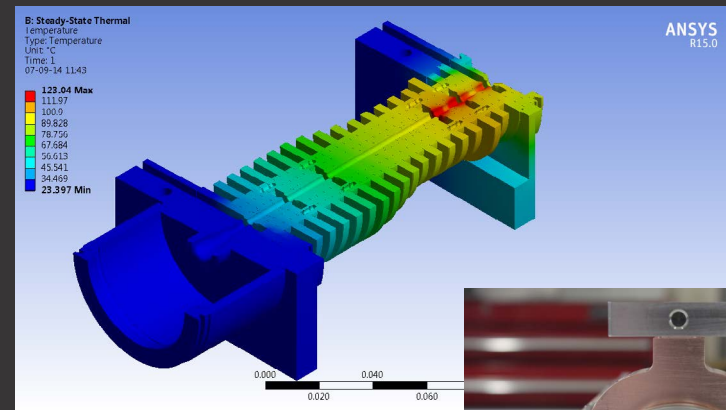
2013

2014

2015

2016

» Provides Engineering services



» MW CW dummy load

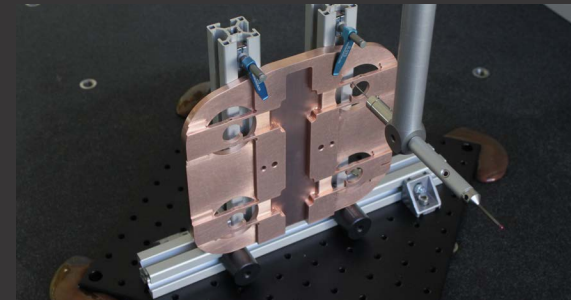
Delivered two megawatt continuous wave dummy prototype load for US Iter program for fusion application. Load installed at Oak Ridge National Laboratory.

» Radar Components

Delivered radar components to Lincoln Laboratory/MIT for Kwajalein MMW radar

» X-band multi-beam klystron

First x-band multi-beam klystron prototype delivered to SLAC National Laboratory



» PGUN - Phase II

DOE Phase II SBIR award for precision electron gun development

» PGUN patent filing

Filed for patent on innovative PGUN technology

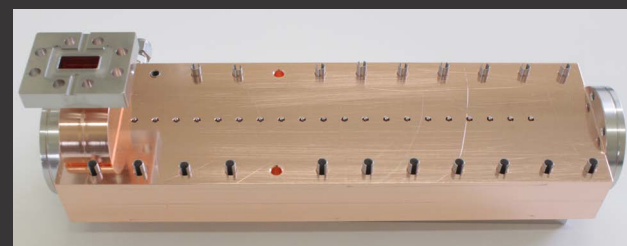
» Provides Engineering services

Dymenso established reputation for mechanical engineering, thermal and structural analysis in the microwave business industry.

- ANSYS FEA non-linear analysis; thermal, mechanical and electrostatic
- Mechanical engineering and design, CAD

» Accelerator Cavities

Fabricated next generation accelerator cavity section to SLAC National Laboratory



» PGUN - Phase I

DOE Phase I SBIR award for precision electron gun development

» Next generation accelerator

Engineered and fabricated two next generation accelerator structure for Stanford University, achieving record setting gradients.

» MW CW dummy load

2 MW Load transferred to Japan for high power microwave testing at Japan Atomic Energy Agency (JAEA)

Capabilities & Scope of Operations

Dymenso is a premier provider of analysis driven solutions for electron beam and microwave devices ranging from the milliwatt to the megawatt level and provides advanced thermal mechanical engineering solutions. Dymenso offers customized precision engineering solutions in the following areas:

- **Microwave Device Design**
 - » Thermal and Mechanical analysis and design services for gyrotrons, klystrons, TWTs and other microwave devices. Extensive design experience in the following key areas:
 - » Electron Beam Collector, Electron Gun, Interaction Cavity, Circuit Loading and Output Window
- **Microwave Components Analysis and Design**
 - » Design of custom microwave components such as RF loads, filters, barrier windows and microwave transmission components.
- **Thermal Analysis**
 - » Advanced cooling design, single and multi-phase cooling, electronics cooling
- **Structural Analysis**
 - » Finite Element Analysis, Non-linear behavior modeling, plastic deformation, vibration and fatigue
- **Precision Engineering**

Industries & Markets

Dymenso sees the potential for innovation in the field of high frequency and high power microwave components and is poised to provide products and services for customers in new application areas.

Current and Past clients include:

- **Communications and Power Industries**
- **US ITER/Oak Ridge National Laboratory**
- **SLAC National Accelerator Laboratory**
- **Stanford University**
- **L-3 Communications Security & Detection Systems**
- **Lincoln Laboratory - MIT**
- **Calabazes Creek Research**
- **Accuray**
- **Teraphysics**
- **Best Medical**
- **University of Wisconsin at Madison**
- **University of Maryland**

Dymenso LLC

Dymenso LLC is a provider of custom microwave components and thermal mechanical engineering services. The principals of Dymenso LLC have been providing thermal mechanical design services to US microwave industry and research institutions for the past decade.