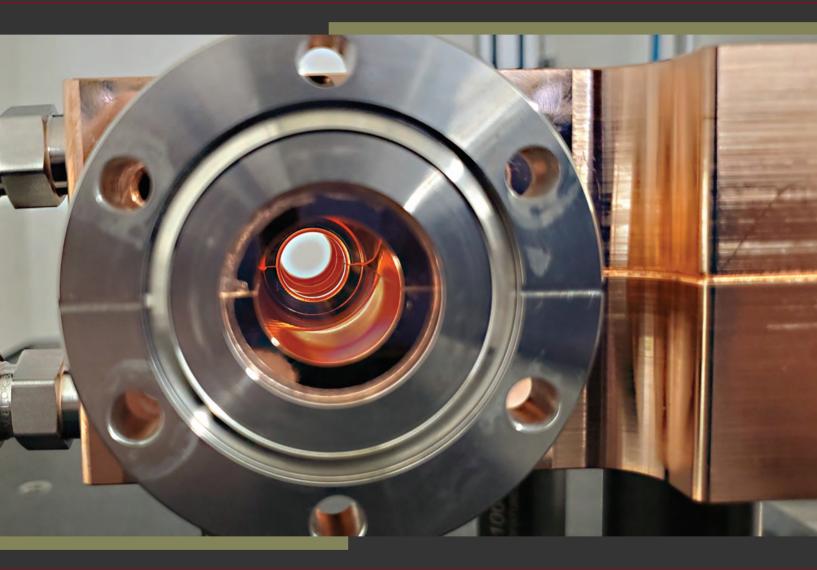
DY**menso**



Analysis **Driven** Design Solutions

www.dymenso.com

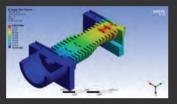
2008 Founded

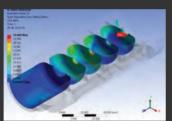
DY**MENSO**

2009

Engineering services - Dymenso establishes a reputation for

mechanical, thermal, electrostatic, and structural analysis in the microwave industry using Non-linear Finite Element Analysis and Computer Aided Design









2011

11.4 GHz Accelerator Structure -Fabricated next generation 11.4 GHz accelerator structure for SLAC National Linear Accelerator Laboratory using elastic

averaging as a precision alignment method



2012

Microwave Continuous Wave (MW CW) Dummy Load - Designed and fabricated a continuous duty 2 Megawatt dummy Load

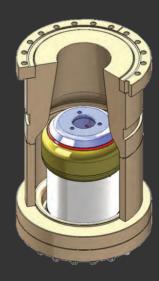
prototype for the US ITER fusion research program at Oak Ridge National Laboratory



Radar Components - Delivered radar components to Lincoln Laboratory/MIT for Kwajalein millimeter-wave (MMW) radar

2014

Precision Electron Gun (PGUN) -Developed innovative PGUN technology under the SBIR Program and obtained US and International Patents

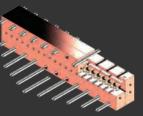




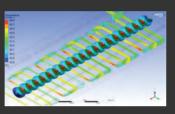
2019

Arizona State University (ASU) Compact X-ray Light Source

 Fabricated three new split-section X-band Accelerator Structures forASU's Compact X-ray Light Source



 Manufactured X-band high power RF gun using elastic averaging



 Fabricated RF components and waveguide systems

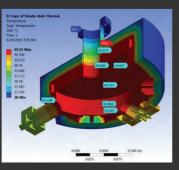


2020

LCLS-II Average Current Monitor (ACM) -

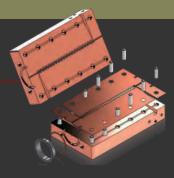
Designed and fabricated 3 ACMs for SLAC's LCLS-II project to help protect against overloading of a 4 GeV Continuous Wave at their new kilometer accelerator tunnel





2021





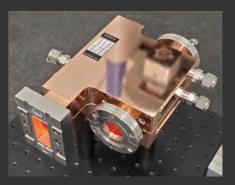
Ka-band Circuit - Demonstrated micron level alignment capabilities with elastic averaged Ka- band serpentine circuit for US Navy, patent pending

2022

Ion-Linac - Interdigital H-Type Structure Deuteron 430 MHz Linac Development



C-band Structure - Designed and fabricated high precision C-band Accelerator split-section structure for Los Alamos National Laboratory



Capabilities & Scope of Operations

Dymenso is a premier provider of analysis driven engineering and fabrication solutions for the vacuum electron device industry. Dymenso provides custom engineering and manufacturing of electron beam and microwave devices ranging from the milliwatt to the megawatt level, developing innovative precision engineering products in the following areas:

- Microwave Device Design: Thermal Mechanical analysis and engineering services for gyrotrons, klystrons, traveling-wave tubes and other microwave devices. Extensive design experiences: Electron Beam Collector, Electron Gun, Interaction Cavity, Circuit Loading and Output Window
- Microwave Components Analysis and Design: Design of custom microwave components such as Radio Frequency loads, filters, barrier windows and microwave transmission components
- Thermal Analysis: Advanced cooling design, single and multi-phase cooling, Computational fluid dynamics (CFD), electronics cooling
- Structural Simulation: Finite Element Analysis, Non-linear behavior modeling, plastic deformation, vibration and fatigue
- Vacuum Electron Device Manufacturing, Precision Fabrication

Current and Past clients include

- US ITER/Oak Ridge National Laboratory
- Naval Research Laboratory
- Communications and Power Industries
- SLAC National Accelerator Laboratory
- Lincoln Laboratory MIT
- Los Alamos National Laboratory
- Livermore National Laboratory
- Teraphysics
- Zap Surgical
- Accuray
- Leidos

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