

Research · Industrial Design · Engineering Science · Medical · Technology Development · Electronics · Software · Innovation



Product



Prototype

## Visica 2™ Treatment System Cryosurgery System

With 500,000 cases of breast tumours every year, Sanarus Medical's minimally invasive Visica™ Treatment had a great future. But how could they turn that opportunity into a multi million dollar business when success relies upon a low-cost outpatient procedure with a simple, effective device? They called upon CDP's inventive engineering-physics, and walked away with a market-leading technology just 8 months later.

Sanarus and CDP collaborated to invent the world's first low-pressure liquid nitrogen cryosurgery system. The result was that low-cost materials and joining methods could be used on the disposable part, and the size of the nitrogen store could be massively reduced. Visica™ is now used to kill breast-tumours without the need for open surgery.

### Skills Deployed

- Thermodynamics physics
- Methodical laboratory experimentation
- Construction of electromechanical demo systems

### Technical Highlights and 'World Firsts'

- World's first low-pressure nitrogen cryoablation system
- Reduction of the mass of the system by a factor of 10
- Procedure time reduced by 50%

Sanarus has much more than a revolutionary new product on the market; their business value is secured by a powerful patent portfolio enhanced by CDP's work.



**"With CDP's help we were able to develop this breakthrough technology in months rather than years."**

*Project Leader*

**"What CDP did for our organisation was exemplary. You're very talented folks. It's a pleasure doing business with you and your organisation."**

*Head of Clinical Regulatory Quality*

**"CDP has opened huge opportunities for us through their development of this technology."**

*Vice President R&D*

[www.sanarus.com](http://www.sanarus.com)