

Groundbreaking innovations

The story of Astra Tech Dental – a continuous evolution

The groundbreaking innovations by Astra Tech Dental are the results of knowledge and understanding of the biological and clinical processes involved in dental implant therapy. This allows us to learn, ask “what if” and thereby constantly offer better solutions.

We look upon the development of our company, our system and what we can offer as a continuous evolution – some of the steps are vast and groundbreaking while others make a day in your implant practice a little bit easier.

1985 Clinical use of the first generation of implants with Conical Seal Design™ and Connective Contour™ is initiated in a study at the Karolinska University Hospital in Stockholm, Sweden.

1985 Astra Tech enters the field of implant dentistry, taking the first step towards the Astra Tech BioManagement Complex™.

1990 OsseoSpeed™ A team at the University of Oslo, Norway, starts asking themselves, “what if you could speed up the osseointegration process by chemically modifying the implant surface?” The idea of a fluoride modified implant surface is born.

1991 MicroThread™ The idea of minute threads on the implant neck to ensure positive biomechanical bone stimulation and maintained marginal bone level is born. After comparing 840 threads of different shapes and sizes, the optimal profile for positive stress distribution is identified.

1991 The first clinical study with MicroThread™ on a tapered implant neck is initiated.

1992 Astra Tech AB acquires all intellectual properties on the OsseoSpeed™ surface and starts the development process together with the University of Oslo.

1993 A straight implant with MicroThread™ is developed and launched.

1993 The first experimental pre-clinical studies on OsseoSpeed™ are initiated.

2002 The first clinical multicenter study on OsseoSpeed™ is initiated.

2003 The FOCUS project, a unique effectiveness study, is initiated, involving more than 100 clinicians in Europe and the United States.

2004 The first and only chemically modified implant surface – OsseoSpeed™ – is launched at EAO in Paris. Based on the remarkable results, the expression “more bone more rapidly” is coined.

2000 The first patient receives an OsseoSpeed™ implant at the University of Oslo.

2001 A randomized controlled clinical trial on a fluoride modified surface of orthopedic implant is started.

2005 Astra Tech acquires Cresco™, a unique method for screw-retained implant prosthetics for a perfect fit. The Cresco method is platform independent and fits all major implant systems.

2006 New results on the OsseoSpeed™ surface and its biological responses demonstrate the importance of the fluoride modified surface with its unique nanoscale topography.

2006 Facilitate™ Computer Guided Implant Treatment: Astra Tech signs an agreement with Materialise in Belgium for the development of computer guided implant treatment.

2007 Astra Tech acquires Atlantis™, an innovative dental CAD/CAM company creating patient-specific abutments. The concept is platform independent and fits all major implant systems. www.atlantiscomp.com