



CONTOUR  
FINE TOOLING

TECHNODIAMANT

# The January 2012 CUTTING EDGE

## Grinding Wheels

Technodiamant produces, besides high quality mono and polycrystal cutting tools, both metal and resin bonded grinding wheels, using only the best diamond and CBN powders. Diamond drills and countersinkers are also available to further satisfy the specific needs of the glass processing industry, with applications ranging from automotive windscreens to precision optics, also mirrors and float glass.



A standard product range is offered, in addition to more application specific options with a vast choice of bonds, grit type, size, concentration, and edge profiles. Stainless Steel bodies are used for certain applications.



Technodiamant also produces an extensive range of both standard and custom made dressing tools, to complement its grinding wheel product range.

## Employee Spotlight Wim Koop

Following his graduation in the early '90's Wim started working at Technodiamant in Almere as an engineer within the Design and Engineering department, progressively moving into a role to Manage the production of diamond cutting tools, a position he held for more than 10 years.

In 2010 Wim took a sabbatical of one year to take the opportunity to travel the world with his wife, Irene. Their adventure which took in some 23 countries and a total of 112,350km is chronicled in a weblog [www.wimenirene.nl](http://www.wimenirene.nl).


In 2011 Technodiamant were pleased to welcome Wim back to join the sales team and to provide general management support.



## All for a Good Cause

During the month of November a group of employees from Contour UK proudly grew moustaches, with varying degrees of success, but all in aid of 'Movember', a charity dedicated to mens health and in particular conditions such as prostate cancer. The so-called Mo Bros were Jason Langlais, Fraser Britten, Lloyd Elliot, Adam Butler, Paul Herbert and Maurice Heaphy.

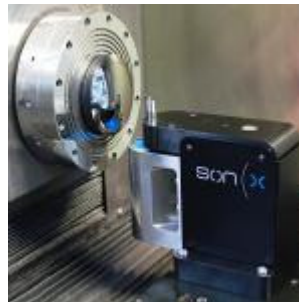
## Show Preview

Undoubtedly the largest show in the  Electro-optics exhibition calendar, both Contour and Technodiamant will be at SPIE Photonics West, at the Moscone Center in San Francisco, USA from 24th - 26th January 2012. Come visit us - North Hall booth #5228.

## son-x UTS one Ultrasonic Tooling System

Can a diamond tool cut steel? This has been a frequently asked question for several decades during which Ultra-Precision Machining technology has evolved.

While in general the answer until now has been 'no', an innovative company located in Aachen, Germany has developed and refined ultrasonic machining technology and know-how that enables the efficient diamond machining of optical quality surfaces in hardened steel, without the need of a nickel phosphor coating. The son-x UTS one Ultrasonic Tooling System also enables the direct diamond machining of various glass-type materials, to Ultra-Precision levels of accuracy.



The piezo driven ultrasonic system generates a precisely controlled linear movement of the diamond tool in the cutting direction, with a frequency in excess of 80,000Hz. The UTS one can be integrated into practically any Ultra-Precision machining system and includes a micro height adjustment where required.

Applications include for example steel mould inserts used in the production of ophthalmic lenses and consumer optics. For more information visit [www.son-x.com](http://www.son-x.com)

Contour is delighted to have been selected as the preferred diamond tool supplier by son-x GmbH.

## Diamond Ball-end Milling Tools get Smaller

In response to an increasing demand for ever smaller micro-milled lens arrays, Contour has been able to consistently produce controlled and non-controlled Ball-end mills with radii less than 100µm. The diamonds position relative to the tool shanks axis of rotation can be held to an accuracy within 1µm.

