



IBA and D-Pace sign an exclusive sales agreement for the supply of Negative Hydrogen Ion sources, based on licensed TRIUMF technology.

Exclusivity on D-Pace's technology, the sole commercial supplier of high current TRIUMF licensed filament-based negative hydrogen ion source, gives IBA a technological edge to bring the best performances to its customers.

November 23rd, 2010

Louvain-la-Neuve, Belgium, November 23rd, 2010 – IBA (Ion Beam Applications S.A.) announced today that Dehnel - Particle Accelerator Components and Engineering, Inc. (D-Pace) and IBA signed an exclusive sales agreement for the supply of Negative Hydrogen Ion sources, based on licensed TRIUMF technology. These D-Pace components will from this point forwards only be integrated into IBA particle accelerators dedicated to medical, particle physics and industrial applications for the IBA Cyclone[®] 30 and Cyclone[®] 70 series. This agreement is the first step of a long term relationship.

The exclusive agreement includes any of the negative hydrogen ion sources produced and marketed by D-Pace for commercial use. These sources enable extracted proton beam intensities from IBA cyclotrons starting from 400µA and going up to at least 1,5mA of guaranteed beam intensity.

As a matter of fact, the first realization coming from this cooperation led to the design of the new Cyclone[®] 30 High Current which has achieved in routine operation 1.6 mA internal beam during its factory acceptance tests, a performance never realized before.

In addition, the new super bright ion source has been incorporated with new quadrupoles and the inflector design has been greatly improved to match cyclotron acceptance. The Cyclone[®] 30 High Current now allows, in dual beam mode, a minimum of 2 times 600µA of proton beam intensity onto the new high-current solid target stations. The new model is based on IBA's famous Cyclone[®] 30 and offers the very highest performance.

"This agreement with D-Pace is, from our perspective, a wonderful opportunity to develop a world leading technology with the support of a major manufacturer. Our intention is to further collaborate and enter into a long term relationship with D-Pace to develop our technological leadership and bring the highest performances to our customers" said Yves Jongen, IBA Chief research Officer.

About Cyclone[®] 30 and 70 cyclotrons

As the market leader in high energy cyclotrons, IBA installed about 30 operating units worldwide coming from the Cyclone[®] 30 and Cyclone[®] 70 series, The Cyclone[®] 30 and 70 cyclotrons offer a large flexibility both for current and future production needs thanks to multi-particle production (proton, deuteron, alpha beam) and the ability to be upgraded to higher intensity versions if needed.

For more information: <http://www.iba-cyclotron-solutions.com/products-cyclo>



About ion source features

- Yields a maximum H^- current over 15 mA DC in the 20 – 30 keV energy range.
- Low maintenance with long filament lifetime (> 350 hours at peak current).
- Due to the optimized lens ion-optics, and low emittance, lens wear is negligible.
- Clean due to non-hydro-carbon based pumping. Material deposition inside the source is minimal.

About IBA

IBA develops and markets leading edge technologies, pharmaceuticals and tailor-made solutions for healthcare with a focus on cancer diagnosis and therapy (Molecular Imaging, Dosimetry and Particle Therapy).

Leveraging on its scientific expertise, IBA is also active in the field of industrial sterilization and ionization.

Listed on the pan-European stock exchange EURONEXT, IBA is included in the BelMid Index.

We have leveraged our global expertise and innovation to maximize our customers' access to the most reliable radiopharmaceutical distribution network, the most advanced cyclotron solutions and the most novel research radionuclides. With our focus on Protecting, Enhancing and Saving Lives, we are committed to ensuring that our customers' ability to properly care for their patients is not compromised by their access to vital technology.

About D-Pace

D-Pace supplies products and services to the international commercial accelerator industry. Our areas of expertise include charged particle transport systems and components for the cyclotron, ion implanter, and linear accelerator segments of the industry.

D-Pace has won national recognition in Canada by receiving the joint Synergy Award, together with TRIUMF, from NSERC, Canada's National Sciences and Engineering Research Council agency; this was for innovation and collaboration between research laboratory and industrial company.

D-Pace has also received the Canadian Innovation Leader certificate from the NRC (the National Research Council in Canada).

About TRIUMF Technology (TRIUMF Type DC Volume-Cusp H^- Ion Sources)

Amongst others, D-Pace designs and manufactures high performance TRIUMF licensed DC Volume-Cusp H^- Ion Sources such as, for example, the Model IS•15mA•30keV• H^- which produces stable and reproducible H^- ion beams with low emittance and high brightness.

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