Dear Customer,

IBA has just celebrated its 30th anniversary of innovation, professionalism and relationships with its customers. This makes us a strong and unique partner, today and even more so tomorrow. I have had, as of April 2016, the honor of succeeding Nicolas Bronchart as leader of the IBA Industrial organization.

This department is very close to my heart because of its countless opportunities, its promising and diversified future and the dynamic and efficient team that makes it up.

Being a company in continuous evolution so as to remain at the cutting edge of technology, we are always undertaking new challenges such as product improvement and new developments. We are therefore really proud to present to the Industry the Second Generation Rhodotron®.

In addition to improved performances, such as reduced power consumption and a new modular design, the current Rhodotron® product portfolio is extended with a new compact and cost-efficient 10 MeV Rhodotron® called the TT50. There is no doubt about the growing interest of the market for this new compact machine, typically developed for applications such as detection and sterilization.

The Dynamiton® is not to be outdone either. Our integrated «Easy-e-Beam®» versions are constantly evolving and the R&D roadmap is marked by initiatives to improve their energy performance and maintainability, for new customers as well as for the installed base.

No matter how challenging our undertakings will be in the future, I am more committed than ever to do what is requested, together with the Industrial team and YOU, to deliver more and more integrated solutions that better meet the industry’s expectations.

Sincerely,
Thomas SERVAIS
IBA Industrial – President
NEW PULSED FEATURES

The New Horizon project has officially started on April 10th 2017 with the rigging of the TT300 Rhodotron® in a new vault of our factory in Louvain-la-Neuve (See picture above).

The goal of the New Horizon project is to validate new features of the Modular Rhodotron®, based on RF and beam pulsing. This new technology will allow, among others, to reduce the electricity consumption at low and medium power, and very high energy per pass.

The first RF pulsing tests were already performed by our flying service and R&D engineers less than two months after the rigging. The new features will be tested and industrialized extensively until October 2017.

You are welcome to discover these new features and visit this exceptional setup during our Rhodotron discovery days in September 2017.

NEW COMPACT TT50

The 10 MeV TT50 is a newcomer to the Rhodotron® family. It is designed to address applications such as E-beam sterilization of medical devices, X-ray phytosanitary applications for food, X-ray sources for cargo scanning and R&D applications.

Compactness was one of the key requirements for the new TT50. Installing the TT50 needs requires about 4 times less volume when compared with a typical TT100 installation. The TT50 developments will end in late 2017. It will be available for sale in 2018.
IBA Industrial is proud to announce that Passport has installed its TT100 at the Port of Boston, Massachusetts in the USA. The Rhodotron\textsuperscript{®}, is the heart of a new kind of cargo screening system installed in Massport, the Port of Boston. It is a state-of-the-art, non-intrusive, cargo inspection system designed to efficiently detect, locate and identify contraband and security threats. This is a key showcase for Passport and IBA.

FEERIX

FEERIX: E-BEAM AND X-RAY TESTING CAPABILITIES IN STRASBOURG, FRANCE

FEERIX is based on a Rhodotron DUO allowing to address multiple industries including Medical Device, Food Processing, Material Processing, etc. These industries will be able to test compatibility of their products with E-beam & X-ray and to take irradiation technologies into consideration early in the design process. The FEERIX center will be located in Strasbourg, France, next to Aerial headquarters capitalizing on Aerial’s expertise in dosimetry and irradiation in general. FEERIX will provide commercial irradiation services from 2019.

RHODOTRON\textsuperscript{®} DISCOVERY DAYS

Don’t miss the unique opportunity to discover in world premiere the Second Generation Rhodotron\textsuperscript{®} and the compact TT50 in our factory!!! You will also have the chance to see the TT100.

<table>
<thead>
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<th>DAY 1</th>
<th>DAY 2</th>
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<td>Run the new TT50 and modular TT200/300 with the experts and discover the new pulsed features and benefits – Visit the IBA factory</td>
<td>Rhodotron\textsuperscript{®} portfolio Customer service Interactive sessions</td>
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IBA Industrial has improved our Easy-e-Beam® product offering with our customers’ needs in mind. V3 provides a more flexible, easier to operate and maintainable system. The Easy-e-Beam® V3 features the following:

- Enhanced and increased beam energy from 800 KeV @ 100mA to 1.0 MeV @ 70 mA in a minimal overall footprint
- Increased beam energy capacity allows Easy-e-Beam® V3 to handle more (larger) customer product. For example: ability to process from 0.22 to 50mm² automotive wire/cable
- Relocation of the under beam handling system within the shielding to ease operation and simplify system operation
- Modular shielding and system design allow for easier processing of different product types such as:
  - Linear (wire/cable)
  - Sheet (film/web)
  - Batch (packages)

The improved V3 ergonomic design also provide for:

- Convenient access to under beam handling system
  - Easier/faster string-up easier/faster maintenance
  - Simpler change of guides
- Easier and faster beam window change/maintenance
- V3 mezzanine design provides easier, faster and safer accelerator maintenance

EASY-E-BEAM® V3 shown configured for Wire & Cable Crosslinking application
MILLennium, DPC1000 & DPC2000 Control Systems Obsolescence

In February of 2015, IBA Industrial provided an End-of-Life notification for the Millenium, DPC1000 and DPC2000 control systems for Dynamitron® accelerators and only limited support would be available until January 2017. This date has passed and we are very limited in the support we can provide on these obsolete DOS based control systems. In some cases, there are no replacement components available.

If you are continuing to operate your Dynamitron® with an obsolete control system, you are doing so at considerable risk to your day-to-day operations. Please contact IBA industrial to obtain pricing and availability for our new control system upgrade to maintain your investment in your Dynamitron® accelerator system without further delay.

IBA recently branded its new Dynamitron® PLC and PLC upgrades as the “Infinity” series. These popular PLC based Dynamitron® process control system are available on all new systems and as an upgrade package to replace the now obsolete Millenium, DPC1000 and DPC2000 control systems. The new Infinity series PLC based hardware/software packages are available in Allen Bradley or Siemens hardware configurations.

Do not allow yourself to be bitten by the obsolescence bug! Contact IBA sales or customer service to learn more about the advantages and features of the Infinity series control system.

VFMG

(VARIABLE FREQUENCY MOTOR GENERATOR) ALLOWING AN EASIER AND MORE ACCURATE TUNING AND BEAM CONTROL

Dynamitron® users now achieve more accurate and stable beam (current) control by selection of a frequency on a Variable Frequency Drive (VFD) instead of controlling beam current with potentiometers. This Dynamitron® feature offers a simpler and better approach to allow users true zero to maximum beam control and extended energy coverage.
IBA Industrial Inc organizes a 4.5 day training at its facility in Edgewood, New York and includes classroom along with hands-on training with the Dynamitron®. Along with this training in Long Island, IBA also provides this same extensive training at Customer’s site.

**MAIN TOPICS:**
- Radiation and Ozone
- Vacuum Pumping System
- Gas Handling System
- Operation
- PLC Control System
- High Voltage
- Beam Production
- Scan
- Diagnostic Tools
- Maintenance
- Trouble Shooting
- Reference, ...

IBA can organize on your site upon specific request or as an extension of a preventive maintenance the following Rhodotron® training.

- General Maintenance Task
- Rhodotron® Operations
- First Level Trouble Shooting
- Subsystems in Details
TIPS & TRICKS

1. **DO YOU HAVE THE RIGHT LEVEL OF SPARE PARTS ON YOUR SHELVES?**

IBA can help optimizing your production line by analyzing and improving your stock.

2. **TROUBLESHOOTING NEEDED?**

Our 24/7 hotline support can help you. IBA also proposes training at your site or at IBA factory to help you optimize your equipment.

UPCOMING EVENTS

- **DISCOVERY DAYS** - September 14-15, 2017 - Louvain-La-Neuve, Belgium
- **Dynamitron (PLC) Maintenance Training** - November 6, 2017 - Edgewood, USA
- **MEDTEC CHINA** - September 20-22, 2017 - Shanghai, China
- **IWCS** - October 8-11, 2017 - Orlando, USA
- **MD&M Minneapolis** - November 8-9, 2017 - Minneapolis, USA
- **Nicstar** - March 5-7, 2018 - Mumbai, India
- **Wire Dusseldorf 2018** - April 16-20, 2018 - Düsseldorf, Germany
- **IMRP 2019** - April 1 - 5, 2019 - Strasbourg, France
- **... and many more**
ABOUT IBA INDUSTRIAL

DISCOVER WHO WE ARE THROUGH THOSE 2 VIDEOS!

The IBA facility located in Edgewood, New York is dedicated to the design, engineering and manufacture of the Dynamitron® particle accelerator system. The Dynamitron® is an electron beam linear accelerator typically used for material enhancement (wire and cable, automotive tire manufacturing, shrink tubing and shrink film manufacturing to name just a few popular applications).

Please view the below brief video presentation to learn how IBA Industrial, Inc. handles the Dynamitron® portion of the IBA industrial business unit.

https://vimeo.com/216168412

https://vimeo.com/233455294

IBA Industrial, based in Louvain-la-Neuve, Belgium, is part of the IBA group that delivers solutions of unprecedented precision in the fields of cancer diagnosis and therapy.

IBA industrial is mainly dedicated to the design, engineering and manufacturing of the Rhodotron®. Although currently the best-known applications of Rhodotron® are the sterilization of medical devices and the detection, these state-of-the-art and constantly evolving accelerators offer countless possibilities in an infinite number of other applications.

Our team has all the resources and skills necessary to provide you with a complete turnkey solution adapted to your needs. Through this video, we are proud to make you discover who we are and what we do.

INDUSTRIAL NEW FACES

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