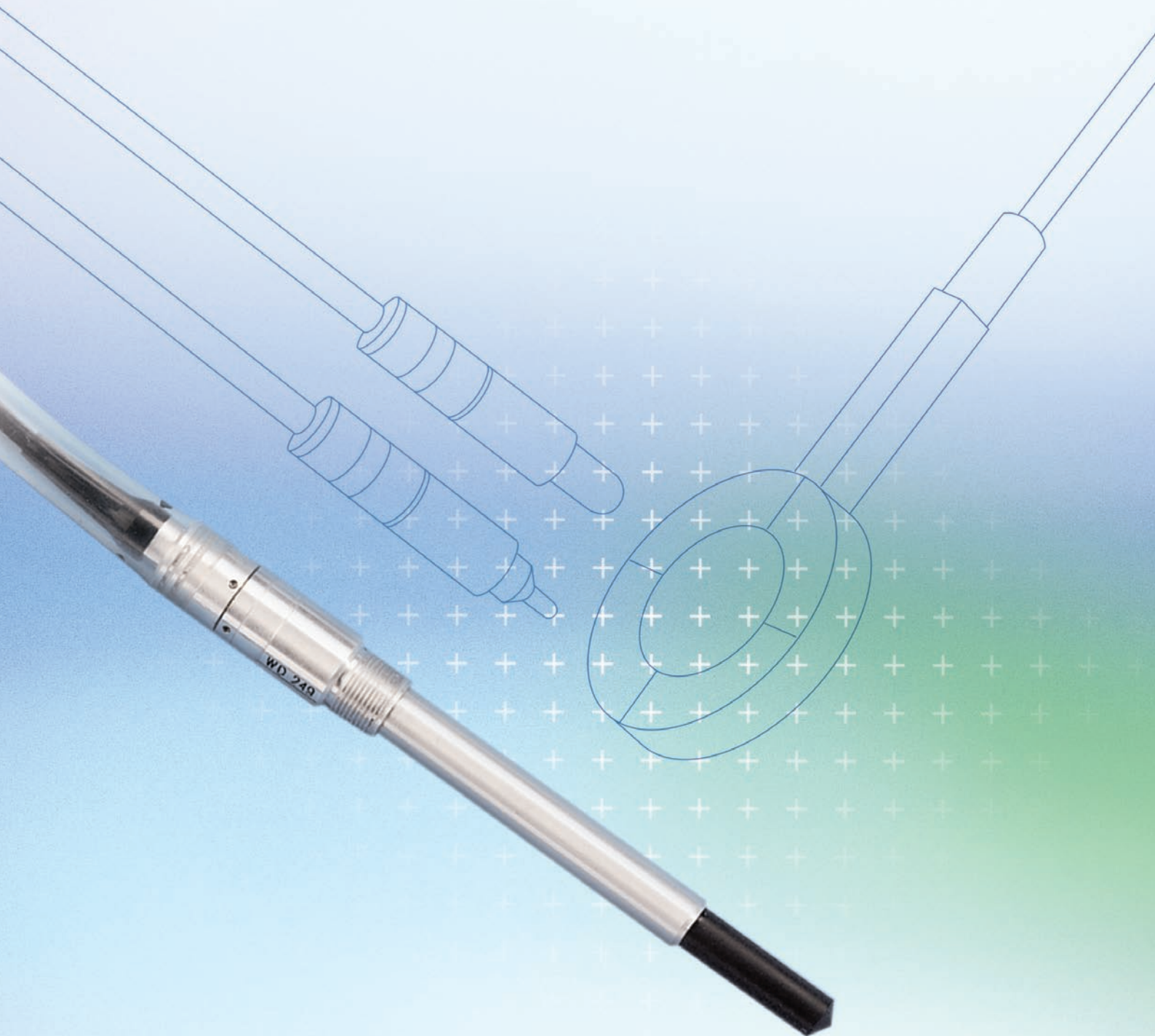




Dosimetry Laboratory Calibration Services



Calibration of Dosimeters used in Radiation Therapy and Diagnostic Radiology

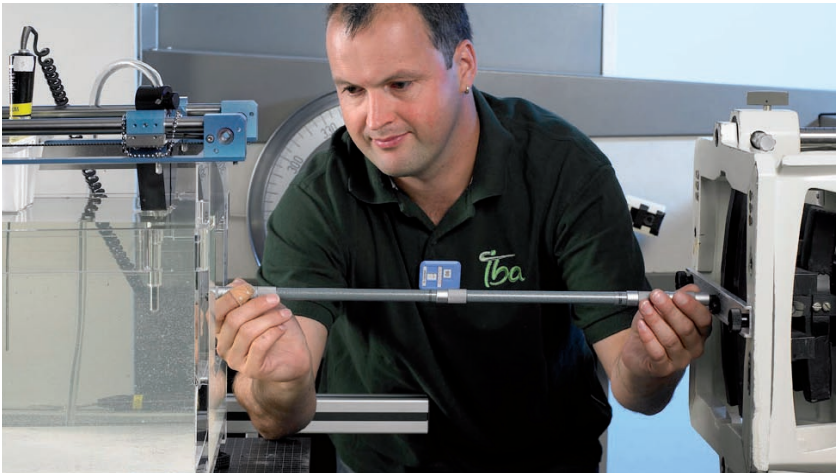
Competences & Informations

- 33 different beam qualities
- electrometer calibration DC current
- accredited according the ISO17025:2005 standards
- member of IAEA / WHO SSDL network
- accredited by DKD
- ionization chambers and dosimeters are calibrated using the substitution method
- reference standards, traceable to the PTB Braunschweig (German Federal Institute of Physics and Metrology)
- regular participation in interlaboratory comparisons organized by recognized authorities to verify declared level of performance

The Dosimetry Laboratory of IBA Dosimetry offers calibrations according to the recent dosimetry codes of practice in wide range of radiation quantities and qualities as well as electrometer calibration. Our Dosimetry Laboratory is accredited by the DKD (Deutscher Kalibrierdienst) and is a member of the IAEA / WHO SSDL network. The entire scope of the service offered by the IBA Dosimetry Laboratory is accredited according to ISO17025:2005 standards.

For an even higher level of accuracy, we would be pleased to offer you an accredited SSDL (DKD) calibration. Notwithstanding, our standard factory calibration also features an extremely high degree of accuracy as well as being traceable to the national standard.

Measured quantity	Measurement range		Measurement conditions		
	Quantity	Unit	Beam quality	Standards	U (k=2)
Air kerma rate	1 – 200	mGy / min	X-rays 40 kV to 280 kV	IEC 61627	1.3%
	0.1 – 5	Gy / min	Co-60	TRS-277, TG-21	1.1%
Air kerma	1 – 10000	mGy	X-rays 40 kV bis 280 kV	IEC 61627	1.3%
	0.1 – 20	Gy	Co-60	TRS-277, TG-21	1.1%
Absorbed dose rate to water	5 – 100	mGy / min	X-rays 20 kV to 100 kV	TRS-398, DIN6809/4	3.5%
	1 – 100	mGy / min	X-rays 100 kV	DIN6809/5	4.6%
	1 – 300	mGy / min	X-rays 120 kV to 280 kV	DIN6809/5	3.8%
	0.1 – 5	Gy / min	Co-60	TRS-398, TG-51, DIN 6800/2	1.2%
Absorbed dose to water	5 – 3000	mGy	X-rays 20 kV to 100 kV	TRS-398, DIN6809/4	3.5%
	1 – 3000	mGy	X-rays 100 kV	DIN6809/5	4.6%
	1 – 5000	mGy	X-rays 120 kV to 280 kV	DIN6809/5	3.8%
	0.1 – 20	Gy	Co-60	TRS-398, TG-51, DIN 6800/2	1.2%
DC current	1 – 19.9	pA			0.5%
measuring instruments	20 – 199	pA			0.3%
	0.2 – 199	nA			0.2%



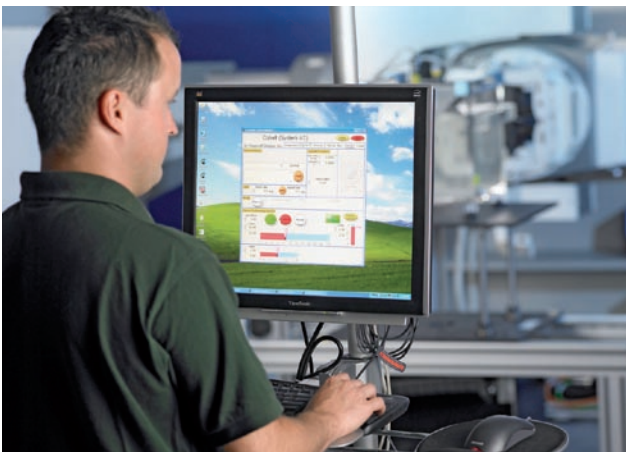
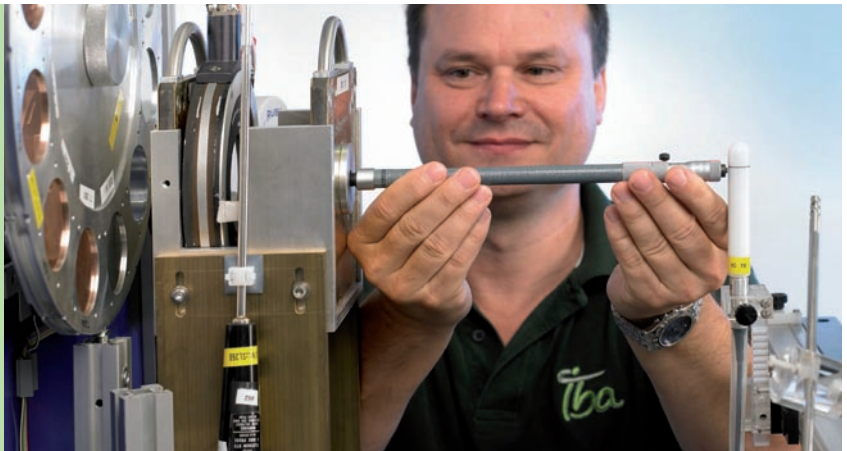
Radiation Therapy Calibrations

Absorbed dose rate to water
(absorbed dose to water)
(according IAEA TRS-398,
DIN6809/4 and 5, AAPM TG-51
and DIN6800/2)



Radiation Therapy and Diagnostic Calibrations

Air kerma rate (Air kerma)
(according AAPM TRS-277,
TG-21 and IEC 61627)



Modern linear positioning system
for high alignment accuracy

Calibration of 2D Dosimetry Devices

(MatriXX, StarTrack®, COMPASS)



IBA activities in a nutshell

IBA delivers solutions of unprecedented precision in the fields of cancer diagnosis and therapy. The company also offers sterilization and ionization solutions to improve the hygiene and safety of everyday life.

Diagnostics

IBA has unique expertise in the design of cyclotrons and in the production and distribution of radiopharmaceutical tracers which are used every day in hospitals to quickly and accurately detect cancer, neurological and cardiac diseases. IBA also offers dosimetry products used in many hospitals for quality assurance in X-Ray diagnosis and for patient-dose monitoring

Therapy

IBA has developed Radiotherapy solutions and dosimetry equipment to treat cancer with the greatest accuracy. IBA is the undisputed leader in Particle Therapy, acknowledged to be the most precise and effective clinical radiotherapy method in the selective destruction of cancer cells.

Sterilization & Ionization

IBA designs electron accelerators and high power X-Ray solutions used in many industries to sterilize medical devices, to cold pasteurize food products and to improve polymer properties. Over 250 IBA Industrial accelerators are used in the world today, some for more than 40 years.

IBA a Belgian company, is listed on the paneuropean stock exchange EURONEXT and its Annual Reports can be downloaded on the Website: www.iba-group.com.

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