



Lineup Overview

At IBA QUASAR™, we are unwavering in the pursuit of absolute quality assurance because pinpoint precision means life-saving treatment.

Trusted by world-class OEMs and medical physicists worldwide, we specialize in advanced phantoms for complex radiation therapy quality assurance. Our lineup encompasses MR Guided Radiation therapy, MR Simulation, Motion management & Surface guided radiation therapy (SGRT), Machine Targeting and Geometric distortion.

With over 20 years in the industry, QUASAR™ solutions are developed through meaningful collaboration with clinical physicists and are backed by several innovative research groups to ensure your patients receive the highest standard of care. Experience the confidence that comes with quality assurance you can count on.

International Contact

IBA Dosimetry

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Modus Medical Devices



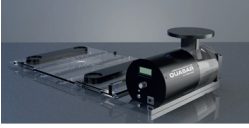
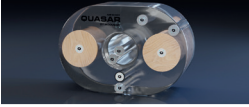

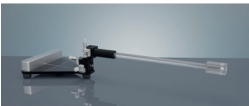
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Compatible Machines with QUASAR™ Products

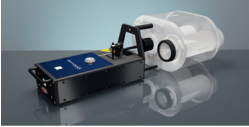
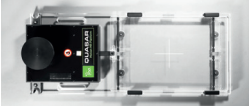
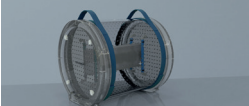
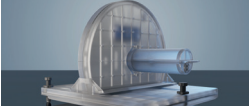
Type	Example Systems*	Suggested QUASAR™ Phantom
Tomotherapy	Accuray Radixact / TomoTherapy System	Penta-Guide, Platform HD + MP Body
CT-SIM	<ul style="list-style-type: none"> _ Siemens Somatom _ Philips Brilliance _ GE Discovery RT CT Scanner _ Toshiba Large Bore 	Penta-Guide, MP Body, pRESP, Platform HD
MR-SIM	<ul style="list-style-type: none"> _ Philips Ingenia and Achieva _ Canon Vantage Galan, Orian _ Siemens Aera, Skyra, Prisma, Sola, Verio _ GE Signa 	MRID ^{3D} , MRI ^{4D} , MRgRT Insight, GRID ^{3D} , Motion MR Platform
MR-LINAC	<ul style="list-style-type: none"> _ Elekta Unity _ ViewRay MRIdian _ Aurora MR Linac 	MRID ^{3D} , MRI ^{4D} , MRgRT Insight, Motion MR Platform
Gamma Knife	_ Elekta Leksell Gamma Knife Perfexion & Icon	GRID ^{3D}
Conventional LINAC	<ul style="list-style-type: none"> _ Varian TrueBeam, Halcyon, Ethos, Edge _ Elekta Versa HD, Infinite, Harmony 	Penta-Guide & Tilt-plate (if includes 6DoF couch), pRESP, Platform HD, MP Body, Winston-Lutz Wand, Isocentre Cube
PET/CT	Reflexion	Penta-Guide, pRESP, MRI ^{4D} , Platform HD

*IBA QUASAR™ phantoms are also compatible with several other vendor systems not listed in the table above. Please contact your regional representative for questions regarding specific systems' compatibility.

Conventional LINAC

Phantom	Area of Utility	How does it fit	
Penta-Guide	Machine Targeting	Physicists perform Daily QA and image quality performance metrics, main testing capabilities include: laser alignment, 6DoF Couch correction QA (with tilt-plate), 2D/3D image matching, isocenter coincidence,	
pRESP (Programmable Respiratory Motion Phantom)	_ Machine Targeting _ Motion Management & SGRT (compatible with PET/CT)	It is suggested that cancer centers have motion management protocols in place to ensure they're performing accurate radiation treatments. Motion QA phantoms are used to commission systems, check CT imaging accuracy, facilitate point or 2D dosimetry measurements, simulate tumor motion; all of which allows physicists to check their TP and delivery protocols. pRESP – simulates tumor motion within a body oval Platform HD – applies motion to large-scale phantoms	 
Platform HD (Heavy Duty Respiratory Motion Platform)	_ Machine Targeting _ Motion Management & SGRT (compatible with PET/CT)		
MP Body (Multi-Purpose Body Phantom)	_ Machine Targeting _ Motion Management & SGRT (compatible with PET/CT)*	A versatile tool to perform end-to-end QA on simulation, treatment planning and treatment delivery systems for emerging markets. <i>* Utility is accessible with addition of QUASAR™ Respiratory Motion Assembly or Platform HD</i>	
Isocenter Cube	Machine Targeting	A cost-effective phantom to perform Winston-Lutz tests in order to validate the LINAC's isocenter accuracy	
Winston-Lutz Wand	Machine Targeting	A precise wand designed for true Winston-Lutz tests. Each axis can be precisely adjusted to the submillimeter to verify the true radiation isocenter of the LINAC.	

MR Simulation and MR-LINAC

Phantom	Area of Utility	How does it fit	
MR1^{4D}	_ MR Guided Radiation Therapy _ Motion Management & SGRT (compatible with MR/CT/PET) _ Machine Targeting	World's first 100 % MR-safe programmable motion phantom used to test motion management protocols on: MR-LINACs, MR-SIMs, and PET/CT. Used to commission MR systems, facilitate dosimetric measurements, simulate tumor motion. Enables increased QA accuracy and tracking abilities due to the built-in latency measurements.	
NEW Motion MR Platform	_ MR Guided Radiation Therapy _ Motion Management & SGRT (compatible with MR/CT/PET) _ Machine Targeting	A pioneering motion management QA tool for your MR driven workflows. Being versatile across all imaging platforms, it can easily apply up to 4 cm motion at 60 BPM to any stationary phantoms weighing up to 45 kg/99lbs*. <i>*Performance dependent on selected mass and waveform.</i>	
MRID^{3D}	_ MR Guided Radiation Therapy _ Geometric Distortion	Geometric distortion is an undesirable image artifact that affects the accuracy of MR-guided RT. The MRID ^{3D} automatically quantifies geometric distortion for large field-of-view MRI systems, allowing physicists to adjust system parameters to minimize GD.	
MRgRT Insight	_ MR Guided Radiation Therapy _ Geometric Distortion _ Machine Targeting	A comprehensive all-in-one image quality phantom designed for end-to-end QA on any MR-LINAC and MR-SIM. Used for time-saving automated Daily or Periodic tests including: uniformity, spatial resolution, GD, laser & table positioning accuracy, slice thickness.	

Phantom	Area of Utility	How does it fit	
GRID^{3D}	Geometric Distortion	The GRID ^{3D} is designed to evaluate both MR and CT geometric distortion on Elekta Leksell Gamma Knife systems – PERFEXION and ICON.	