

BIX Collimator

The CLMB collimator is a unit that is to be used in conjunction with Image Intensifiers (BIX) to reduce the size of the beam that is not attenuated by the placement of the object. This unit helps greatly in improving image quality moreover with small objects or components having complex shapes and hollow structures aside to plain ones.

The CLMB is ideal for reducing blurring and effects of scattered or diffused radiation on the image. The collimator acts as a mobile window reducing or defining the limits of the beam to the detector sizes or portion of area to be covered.

The unit is designed to be attached on the majority of existing Image Intensifiers



Independent or dependent shutters

Up to 4 shutters can be placed into the Collimator. Shutters can be moved 2 to 2, or independently to create a decentralized window if needed.

Shutters are made out of lead and the thickness is calculated to be corresponding to the tube type and current that is used in the installation.

Shutters are operated through joystick type controls or with the help of a Software module that is to be integrated into Systems.

Robust and reliable

Only High grade components are used to provide long time and reliable operations. Shutters are designed to also provide sufficient shielding thicknesses for Preheating operations. All plates are assembled by screws and bolts to provide the user with service possibilities if needed.

Intelligent control unit

The majority of our control units are holding a torque control system that will limit the effort in case of resistance avoiding to burn motors in case of excessive efforts. Units can be equipped with encoders (option) to accurately monitor or set the positioning of each shutter when this is required in systems.

Universal

Our collimators can be assembled on the majority of tubes available in the Industry with few or no adaptations. The control unit is simple and rack mounted for systems integration. It can be replaced by a Bay model integrated into the Image Intensifier module.

Specifications

Mechanical	
Collimator height (H*) depends on lead shutter thickness Lead shutter thickness depends on the X-ray tube	
Combinations	
4 lead shutters – 4 motors	CLMB-4-4
4 lead shutters – 2 motors	CLMB-4-2
2 lead shutters – 2 motors	CLMB-2-2
2 lead shutters – 1 motor	CLMB-2-1
Collimator	
Lead shutter angle machined (perfect contact) Lead shutter driven by DC motor (with driver)* 2 mm Al filter fixed (with a screw) on the front side Connector to Control Unit build on backside	Collimator fixed on the Image Intensifier with 4 screws Steel frame between collimator and BIX allowing a 15° by 15° positioning Red coated lead shutter
Control Unit**	
Mains	VAC 230 (± 10%)
Frequency	Hz 50/60
Consumption	A 2
Rack box size	inches 19
Collimator/Control Unit connection cable length	m 20
Main power switch and light Joystick with potentiometer leads shutters opening Connector to collimator build on backside **If integrated in a system, the control unit could be slightly different	
Optional accessories	
*Position encoder for the lead shutter engine, others filter material, other cable lengths	

Producer

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Distributor



All specifications are non contractual and are subject to change without prior notice