gemini technology

LOW DOSE IRRADIATOR

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GEMINI TECHNOLOGY LTD.

A REMOTLY OPERATED MULTI-SOURCE EXPOSURE SYSTEM,
SUITABLE FOR LONG OR SHORT TERM EXPOSURE TO A WIDE
RANGE OF SAMPLES. FULLY CONFIGURABLE TO SUIT A WIDE
RANGE OF SOURCE ISOTOPES AND STRENGTHS.

- THIS MODEL SHOWS AN INCUBATOR, WITH CELL SAMPLES
BEING IRRADIATED.

ROOF SHIELD;

-FULLY INTERLOCKED LEAD BRICK CONSTRUCTION -GIVES ABOVE ROOM PROTECTION -CONFIGURABLE THICKNESS -FULL BEAM COVERAGE

REMOVABLE SIDE PANELS;

-REMOVABLE SIDE PANELS FOR INCUBATOR MAINTENANCE/ACCESS -LIGHTWEIGHT, EASILY REMOVED.

SERVICES INPUT:

-MAINS 240V INPUTS IN REAR PANEL -INCUBATOR GAS SUPPLIES IN REAR PANEL -FUSES IN REAR PANEL -MANUAL SOURCE CAROUSEL ROTATION ACCESS IN REAR PANEL

(DURING SOURCE LOADING)

SECURITY PANELS:

-LOWER PANELS ARE SECURITY
PANELS TO PREVENT ACESS TO
SOURCES & DETER OPERATORS
ACCESS DURING NORMAL OPERATION
-8mm THICK PLATES
-SECUITY SCREWS
-FRONT, BACK AND SIDES
-INCUBATOR SUPPORT PLATE.

FIXING BRACKETS:

-HIGH STRENGTH BRACKETS ANCHORED TO FLOOR VIA ANCHOR BOLTS OR CHEM-FIX BOLTS -SYSTEM STABLE/SECURE

IN SITU RADIATION MONITOR:

-ADDITION LEVEL OF SAFETY
-DETECTS PRESENCE OF EXPOSED
RADIATION TO CONFIRM SHUTTER
POSITION
-CENTRAL TO SOURCE BEAM

INCUBATOR;
-FULLY INTEGRATED INCUBATOR.
-WIDE RANGE OF MODELS &
MANUFACTURERS
-SECURELY MOUNTED

MECHANICAL INDICATOR;

-EXTERNALLY VISIBLE
-GIVES A MECHANICAL INDICATION
OF SHUTTER POSITION.
-ADDITIONAL LEVEL OF SAFTEY
(VISIBLE FROM OPP. SIDE)

REMOVABLE FILTERS;

-FILTER POSITIONS TO MODERATE EXPOSURE STRENGTHS -FILTERS PROVIDED -LEAD - FULLY CONTAINED. -VARIABLE THICKNESS. -FULL BEAM COVERAGE

LEVELLING FEET:

-EIGHT LEVELLING FEET -SPREADS THE WEIGHT OF MACHINE SO NO SPECIAL FLOORING IS REQUIRED.

SOURCE LOADING;

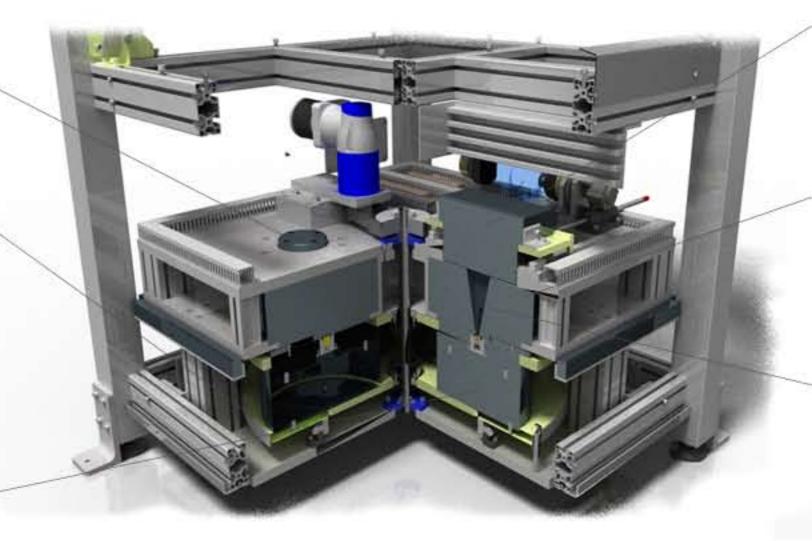
-REMOVABLE LEAD PLUG
-DESIGNATED SOURCE
LOADING/REMOVAL POS'N.
-SOURCE TRANSFER TOOLS &
VESSEL PROVIDED

ROTATING CAROUSEL;

-FULLY BEARING GUIDANCE
-(AXIAL & RADIAL)
-MULTIPLE SOURCE SHEILDS
-HIGH PRECISION
-INDEX FOR SOURCE SELECTION
-HIGH REPEATABILITY
-LOCKABLE IN SAFE POSITION
DURING SERVICING

SOURCE HOLDERS/SHIELDS;

-QUICK LOAD SOURCE MECH.
-FULL LEAD CONSTRUCTION.
-SIZED TO SUIT INDIVIDUAL
SOURCE REQUIREMENTS
-CONTINUALLY SHIELDED WHEN
NOT IN EXPOSED POSITION TO
SURFACE DOSERATES OF
TYPICALLY 2.5 microSv/hour



SHUTTER BLOCK;

-LEAD CONSTRUCTION
-MOUNTED ON LINEAR GUIDES.
-CHAIN DRIVEN, BY GEARED
MOTOR
-GRAVITY OPERATED FAIL SAFE
-FULL SAFETY INTERLOCKS.

COLLIMATOR RING;

-LEAD CONSTRUCTION
-INTERLOCKING SEGMENTS
-SHIELDS SOURCES
CONTINUALLY DURING
ROTATION - EXCEPT FOR
BEAM APERTURE POSITION.

COLLIMATOR APERTURE;

-POSITIONED WITHIN LEAD COLLIMATOR RING -FULLY CONFIGURABLE TO ENCOMPASS ANY SAMPLE DIMENSIONS -HIGHLY ACCURATE -DESIGN MINIMISES SCATTER

Tel: +44(0)118 9888260 Fax: +44(0)118 9885637

Email; sales@gemini-tech.demon.co.uk Website: www.geminitechnologyltd.com www.geminitechnologyltd.com

Unit 5 Wellington Industrial Estate Spencers Wood, Reading, Berkshire, United Kingdom RG7 1AW