

# SRE M@X



## GENERAL CASTING RADIOSCOPIC EQUIPMENT

### RADIATION SHIELDED CABINET

X-Ray shielded cabinet complies with Italian regulation (DPR 257/2001) and the strictest international regulations for fully shielded radiation devices. The cabinet is completely self-contained. Manufactured in steel with complete lead shielding. The cabinet can be transported by fork-lift. The cabinet does not require any further shielding and can be located safely in any workplace area.

The cabinet is designed with a large double sliding doors for casting loading with two lead/glass inspection window. High speed doors movement controlled by inverter with ramps up and down.

Safety light curtain on the loading door.

### MANIPULATOR

- The inspection positions are obtained by the movement of the complete X-Ray system without any C-arm, coordination and alignment between source and detector is controlled by software.
- This solution allows a significant increase in the speed of handling and positioning. Software allows the dynamic tilt axis in accordance with casting position on zoom horizontal axis.
- Turntable able to move on three axes with continuous rotation on 360 degrees.
- A mechanical magnification axis guarantees linear and constant magnification factor.
- To make more comfortable loading operation, turntable comes out from the loading door.
- Motorized and programmable two axes anti-blooming shutter.
- 7 independent handling axes (2 additional axes for motorized programmable shutter on X-Ray source) moved by brushless motors with absolute encoders on board.
- This equipment does not require zero setting of axes.
- Positioning speed up to 15 meters/minute.
- The machine can accommodate and inspect for casting 700 x 1200mm, weight 80kg.

### X-RX/TV

The SRE M@X could be equipped with different combinations of generators/tubes, different power are available, from 130kV till 225kV (1600W). X-Ray sources (tubes) with different focal spot depending from the need. Typically equipped with a double focal spot 0,4 x 0,4mm (d=1.0 according to EN12543) 160kV 640W metal-ceramic tube. Now also available the new High Power (1800W) double focal spot 0,15 x 0,15mm/0,4x0,4mm (d=0,4 mm/d=1.0mm according to EN12543), available also 225 kV version. Image intensifier XRI 420 industrial version, input window 9 inches and 3-magnification fields switchable and programmable by PC. High resolution CCD digital camera, up to 1000x1000 pixels at 30 progressive frames/second, 12-bit.