

SRE MAX

Multipurpose 160/225/320/450kV Industrial Radioscopic System



SRE MAX 70.120 CNC

- Available in three different standard sizes. Custom sizes available on request.
- Equipped with X-Ray sources from 160kV up to 450kV Micro-focus sources from 130kV up to 300kV also available.
- Equipped with Digital Flat Panel Detector (different sizes and resolution available).
- New "One Click CT" simple and easy Computed Tomography function

- Cabinet designed with a large double sliding door for casting loading with two lead/glass inspection windows.
- Loading door equipped with safety light curtains.
- High speed door movements controlled by inverter.
- Electronic safety circuits controlled by multifunction controller (level 4 safety class compliant) with no mechanical contact switches.
- Blinking X-ray on warning lights interlaced with light fail circuit.



SRE MAX 80.150 CNC



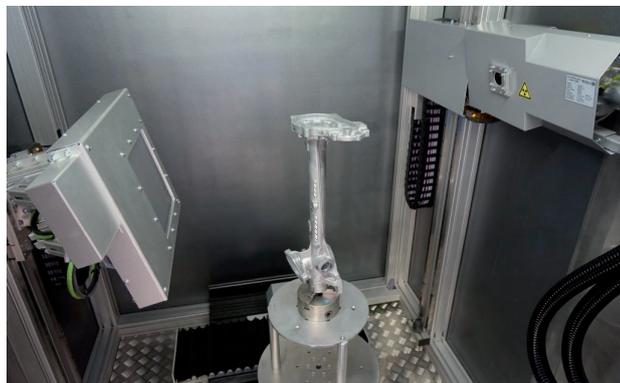
SRE MAX 100.200

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.

BOSELLO
HIGH TECHNOLOGY
INDUSTRIAL X-RAY

HANDLING AND MANIPULATION MECHANISM

- Inspection occurs by moving the complete X-Ray system, without any C-arm; coordination and alignment between source and detector are controlled by software. This solution allows for a significant handling and positioning speed increase. According to casting position on horizontal zoom-axis, the software allows for dynamic axis tilt.
- Turntable is able to move on three axes with continuous rotation on 360 degrees and is provided with tapped holes, allowing easier fixing of dedicated supports or chuck clamps (not included).
- A mechanical magnification axis guarantees linear and constant magnification factors.
- Turntable comes out of the loading door, for a more convenient loading operation.
- X-Ray tube is equipped with motorized and programmable two-axes antiblooming shutter.
- 7 + 2 (shutter) independent handling axes are controlled by brushless motors fitted with absolute encoders. The system does not require axes home reference.



AUTOMATIC POSITIONING (CNC)

- Brushless servo-motors with on-board CAN-BUS controller and power driver are used for axes positioning; absolute encoders fitted on the motors allow for high precision positional accuracy.
- Programming is "user friendly" and intuitive by a teach-in procedure.
- X-Ray and imaging parameters, as well as motorized shutter positions, are saved automatically.
- Manual operations and axes positioning during the teach-in cycle are possible either using joystick or through touch screen display.
- No limit at the number of programs allowed, with unlimited positions each.

CONTROL CONSOLE

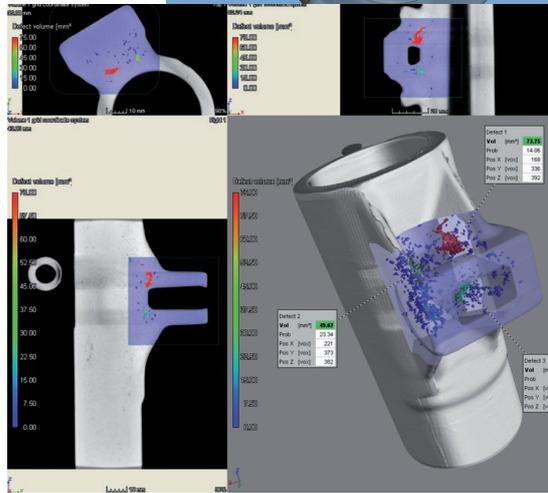
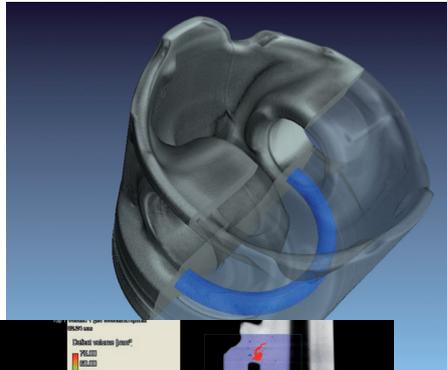
- Tilting adjustable ergonomic console fixed with the cabinet.
- Electrical panel and electronic boards inside the console, rear easy access for maintenance operations.
- Operator push-button panel with the main functions pushbuttons and joysticks for axes movements, 4 user programmable function keys.
- Command, programming and diagnostic, X-Ray image, processing, X-Ray controller and user interface by touch screen display.
- Ethernet port is also available for connecting to a Local Area Network (LAN) and for remote diagnostic and service.
- USB pen drive access available.
- BHT IP (image processor) integrated. Wide size 22 inches screen with touch functions.
- Console with dual Monitor, wide screen 16/9 with touch function for images comparison or ADR functions available on request.



CT as option available on all models

Various software packages are available with tools like:

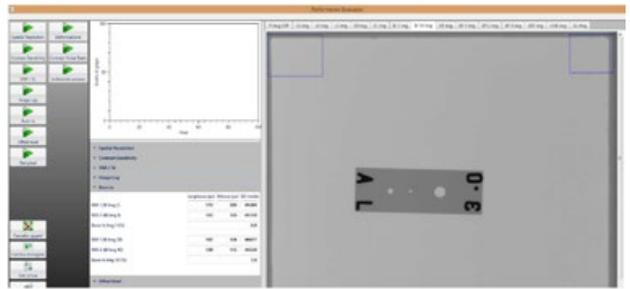
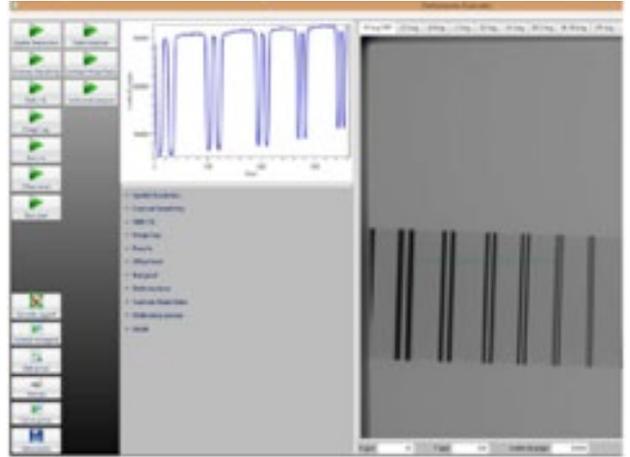
- Coordinate measurement
- Actual/nominal comparison
- Wall thickness analysis.
- Enhanced porosity inclusion analysis



DDA evaluator software available for Aerospace applications

The software allows the execution of many and different tests, in particular there are all the required tests described in the following normative:

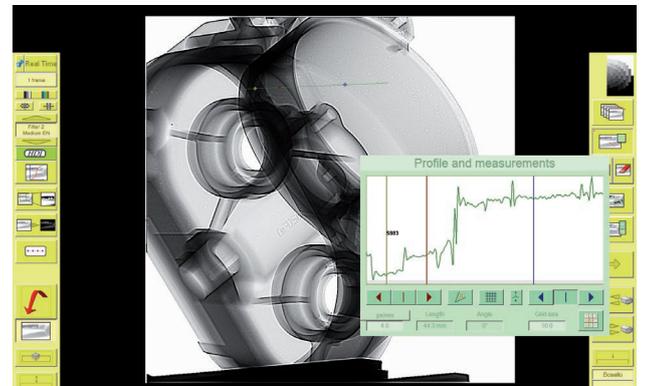
- Standard PR 5250
- Standard ASTM E2737



IP BHT Plus image processor with HDI functions

A powerful image processor provides a large number of features to help the operator in identifying,

evaluating and reporting New Highly Dynamic Radio-scropy (HDR) filter on all versions with Digital Panel.



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