

# SRE HEX



## Multipurpose 160/225kV Compact Industrial Radioscopic System



### SRE HEX 40.50 – 50.70

- Available in three different models and two levels of automation.
- Equipped with 160kV or 225kV X-Ray sources. 130kV and 150kV sealed-tube Microfocus sources available on request.
- Equipped with Digital Flat Panel Detector (different sizes and resolutions available) or Image Intensifier and digital camera.
- Simple and easy Computed Tomography with new "One Click CT" function (available only on CNC versions).

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.

- Cabinet designed with a large double sliding door for casting loading with two lead/glass inspection windows.
- 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.

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HIGH TECHNOLOGY  
INDUSTRIAL X-RAY

## HANDLING AND MANIPULATION MECHANISM (CNC)

- 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 enhancement. According to the casting position on the horizontal zoom-axis, the software allows for dynamic axis tilt.
- The turntable is able to move on four 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.
- The turntable moves close to the loading door, for more convenient loading operations.
- X-Ray tube is equipped with motorized and programmable two axes anti-blooming shutter.
- Totally 6 + 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.

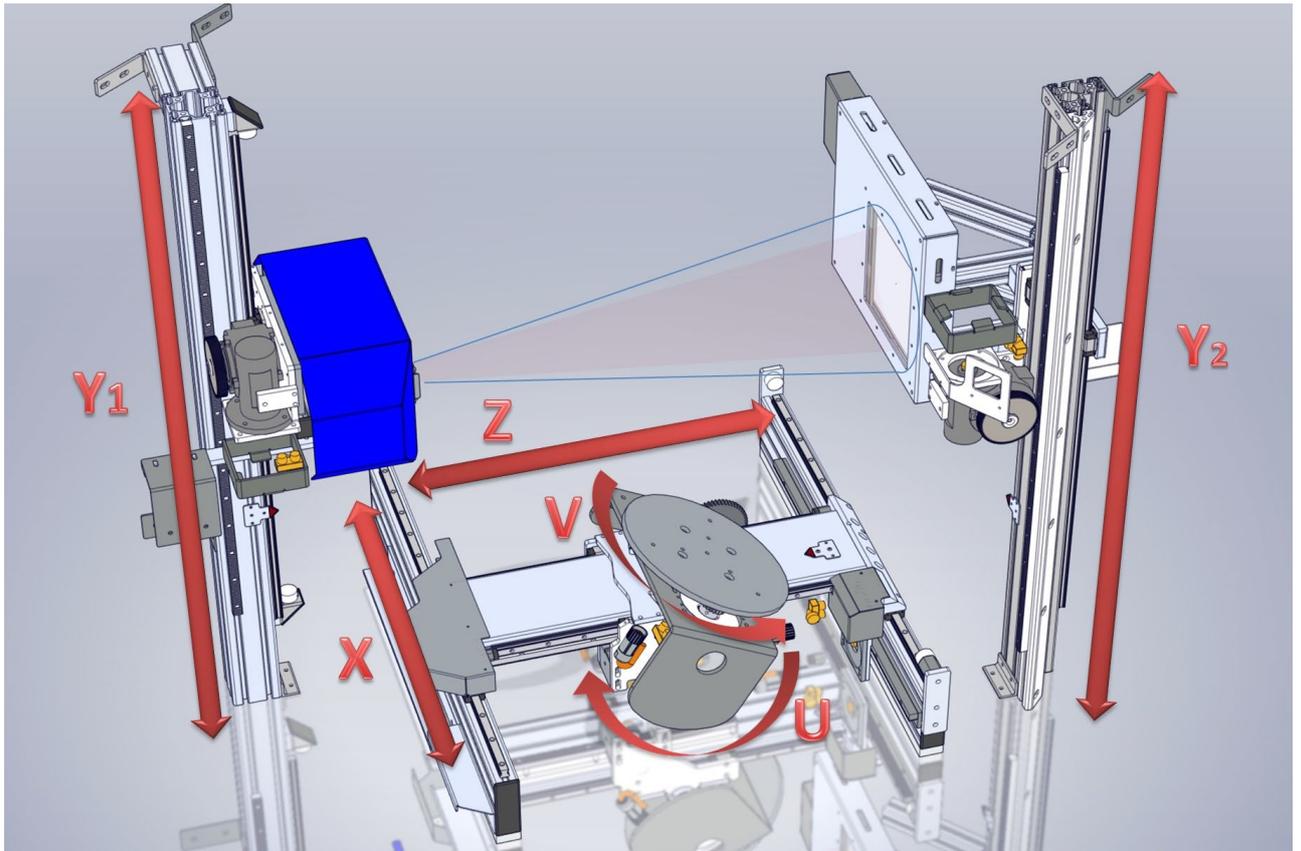


## CONTROL CONSOLE

- Ergonomic console integrated in the cabinet structure.
- Electrical panel and electronic control boards are located in a sliding drawer, allowing easy access for maintenance operations.
- Operator push-button panel with the main functions pushbuttons and joysticks for axes movement, four user programmable function keys.
- Command, programming and diagnostic, X-Ray image, processing, X-ray controller and user interface by touch screen display.
- A touch-screen-display user interface manages commands, programming, diagnostics, X-Ray image processing, and X-Ray controls.
- USB pen drive access available.
- BHT IP (image processor) integrated.
- High performance 23" touch screen monitor for imaging functions, X-ray controller utilities and diagnostic. Additional monitor available for image comparison or specific functions.
- The embedded Industrial PC runs with Windows7® Operating System (or higher) and manages both CNC's and Image Processor's functions.



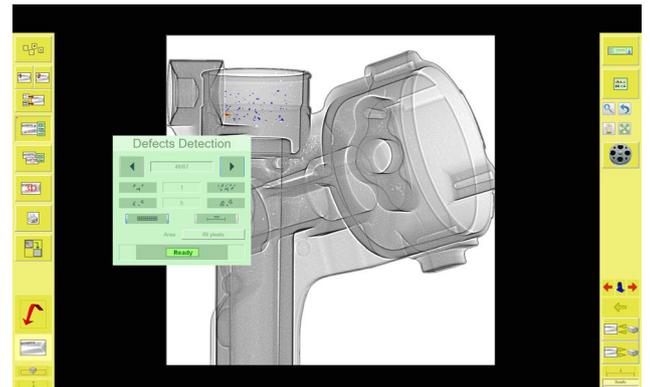
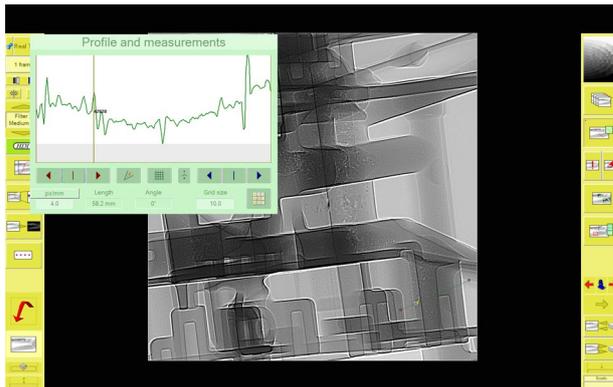
## HANDLING AND MANIPULATION MECHANISM



## IP BHT image processor with HDI functions and Newest BHT Filters

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

ting and reporting New Highly Dynamic Radioscopy (HDR) filter on all versions with Digital Panel.



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