

BOSELLO
HIGH TECHNOLOGY



MADE IN ITALY

A.C.R.E.
902

**AUTOMATIC
RADIOSCOPIC
EQUIPMENT**



General casting
radioscopic equipment

INDUSTRIAL X-RAY

TECHNICAL DATA

RADIATION SHIELDED CABINET

X-Ray shielded cabinet complies with Italian regulation (DPR 257/2001) and the strictest international regulations.

The cabinet is completely self-contained, manufactured in steel with complete lead shielding.

The cabinet can be transported by fork-lift, does not require any further shielding and can be located safely in any workplace area.

The cabinet is designed with a pneumatic sliding door for casting loading, a large maintenance rear door and a lead/glass inspection window.

Safety light curtain on the loading door if machine is manually loaded.

SIZE: W. 2500 x D. 2500 x H. 2700 mm
GROSS WEIGHT: kg 4500 approx (version 160kV)

MANIPULATOR

Five axes of movement guarantees that all inspection angles can be easily achieved. The movement of the X-Ray source and detector is obtained with a real C arm design.

All motors are controlled by CNC for high speed movement and accurate positioning.

The machine can accommodate and inspect castings **400x1000 mm, weight 15 kg.**

ROTATING PALLET CHANGING

The castings are moved from outside the cabinet to inside inspection position by a rotating motorised mechanism with two part fixtures placed at 180 degrees. This configuration allows high speed part changing with a speed of approx. 7 seconds, thereby reducing the overall cycle time considerably.

The A.C.R.E. 902 allows for fast continuous cycle inspections and it is optimised to work in a automatic production line interfaced with an external robot, adequate safety devices permit also manual loading/unloading operations.

The fixtures can be removed and changed in a few minutes without using any tools, this makes the A.C.R.E. 902 very flexible to use with different type of castings

X-RAY/TV

The ACRE 902 could be equipped with different combinations of generators/tubes, different powers are available, typically equipped with a double focal spot metal-ceramic tube 0,15x0,15 mm/0,4x0,4 mm (d=0,4 mm/d=1.0 mm according to EN12543).

Available either 160 kV version or 225kV.

Typically equipped with amorphous silicon digital panel 205 x205 mm. Area, recommended when using ADR (automatic defect recognition) software like VISUAL FARIS.

CONTROL CONSOLE

An operator panel with the main functions, pushbuttons and joysticks for axes movement is located in an ergonomic air conditioned console. There is also located a 19" VGA monitor for user interface, programming, image processing and diagnostic functions. For the radioscopic image a monochromatic high resolution 18" monitor is provided.

A Computer installed with BOSELLO BHT software controls all functions of the equipment, all axes movements and diagnostics.

The inspection programs are made by a teach-in software which allows for the storage of several programs. X-Ray kV and mA variation is also automatically controlled by RS 232 serial interface. The Personal Computer can be connected to the peripheral devices. An Ethernet port is also available for connection with a Local Area Network (LAN).

Automatic analysis software (VISUAL FARIS) is optionally available.



OPTIONS

- BHT IP image processor
- VISUAL FARIS System for automatic analysis and rejection (Fully Automatic Radioscopic Inspection System)
- Control software, statistics analysis and print of production report
- Real time control software of the production data and parameters

COMPLIANCES - REGULATIONS

- CE conformity
- Italian Regulation for X-Ray applicatio DPR 257/2001
- IEC 529 (CEI 70-1)
- DIN 54113 Radiation protection rules
- US standard regulations (for US market) 21CFR § 1020.40 cabinet, x-ray system 47CFR § 15

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