

BOSELLO
HIGH TECHNOLOGY



A.C.R.E.
802

MADE IN ITALY

**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 motorized rotating door for casting loading, a large maintenance rear door and a lead/glass inspection window.

Safety light curtain on the loading door.

SIZE: W. 2580 x D. 1995 x H. 2440 mm
GROSS WEIGHT: Kg 4100 approx

AUTOMATIC CAROUSEL COMPLETE WITH TWO TURNTABLES FOR CASTING LOADING AND POSITIONING

The castings are moved from outside the cabinet to inside inspection position by an automatic carousel with two turntables.

This solution allows to load and offload a casting outside the cabinet by robot or manually during the inspection of the other casting placed on the second turntable. The turntables are 180 degrees rotating. A strong motorized rotating door makes this operation fast and safe.

The ACRE 802 allows a fast continuous cycle inspections reducing the idle time (not productive) at 6 seconds approx.

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.
- A mechanical magnification axis (zoom) guarantees linear and constant magnification factor.
- Motorized and programmable two axes anti-blooming shutter.
- 7 independent handling axes (2 additional axes for motorized programmable shutter on X-Ray source).
- The machine can accommodate and inspect for casting 400 x 800mm, weight 25 kg.

X-RAY/TV

The ACRE 802 could be equipped with different combinations of generators/tubes, different power are available, 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=0,4mm/d=1.0 mm according to EN12543). Image intensifier XRI 420 industrial version, input window 9 inches and 3 magnification fields switchable and programmable by PC.

CONTROL CONSOLE

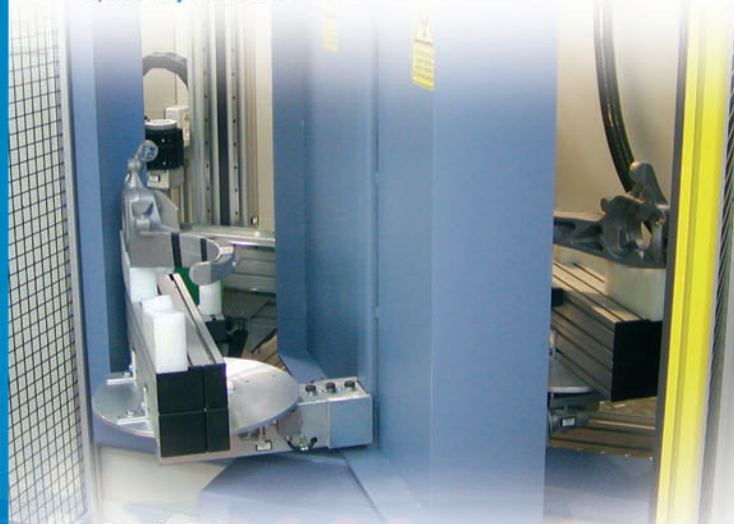
An operator panel with the main functions pushbuttons and joysticks for axes movement is located in an ergonomic air conditioned console. It is also located a 19" VGA monitor for user interface, programming, image processing and diagnostic functions. For the radiosopic image a monochromatic high resolution 17" 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 several programs.

X-Ray kV and mA variation is also automatically controlled by RS 232 serial line. The Personal Computer can be connected to the peripheral devices. Ethernet port is also available for connection with a Local Area Network (LAN).

Automatic analysis software (VISUAL FARIS) is optionally available.



OPTIONS

- BHT IP 8000 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 conformità
- Italian Regulation for X-Ray application 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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