

# BMI line - ESSE 3 Export Dpt

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## Radio-Tomographic unit BHE-RT

### General description.

The radiographic unit BHE-RT is composed of a Bucky table with variable height (BHE) patient table top coupled to a column which supports the radiogen system and that slide on floor rails.

This unit has been re-designed to improve the structural and practical features and to permit to use easier methods of assembling that guarantee high and constant qualitative levels.

The unit is controlled by a microprocessors logic system and the commands, the predispositions and the work conditions are usable from the control board placed in front of the radiogen system.

The radiogen system can be used independently or together with other accessories which are in the radiologic room. The connection between the table and the column, that you can get joining the respective tomographic semi bars, makes possible to have a tomographic system of simple use and with high performances.

The tomography of linear type is feasible with a DFF prearranged to 105 cm and in each position that the elevating patient table top can assume respect to the floor.

### Column

The column with the slider and the arm of support of the radiogen system sliding vertically is balanced by counterweights. The column is sliding on floor rails and it can rotate on its vertical axe permitting radiographic shots in lateral after unlocking the movement by pedal.

The arm which supports the tube is movable transversally (option) and it permits the rotation of the radiogen system on the axe of the arm itself.

### Elevating bucky table.

The table top elevating system uses as element of thrust a balls bearing screw and it has a silent and potent functioning that easily supports the limit loads established by the most restrictive regulations.

An optional safety device stops the patient table if it, in its moving downward, meets an obstacle (for example a stool forgotten under the examination top).

The up/down moving controls of the patient table are placed to the angles of the upper body together with the control that permits a temporary unlocking of the electromagnetic brakes. The up/down motion of the patient table is also operated by remote control from the stand.

The top panel is in radiotransparent laminated plastic (carbon fiber in option) with longitudinal profiles in extruded aluminium and lateral guides of insertion and anchorage of the accessories of common use.

The patient table, that has the bigger dimensions and travels of its category, is manual moved and kept in position by electromagnetic brakes (with functioning in the presence of current) controlled by a pedal.

The carriage that supports the Bucky, sliding under table thanks to a grip with unlocking electromagnetic brake button, accepts standard Bucky with standard or heavy duty cassette holder.

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## Technical features

### Linear movements

• Longitudinal rails length / travel	220 / 162 cm
• Transversal travel (option)	+/- 11 cm
• Minimum FD from the floor	52,5 cm
• Vertical travel	140 cm
• Balancing system	counterweights
• Locking devices	electromagnetic brakes

### Rotational movement

• Column angle of rotation around its vertical axe	+/- 90°
• Tube angle of rotation around the horizontal axis	+/- 135°
• Put in evidence of the angles of rotation	every 90°

### Control station

	at tube side
• Moving handles	coated with synthetic rubber
• Control of the brakes	by push buttons
• Control of the table top up/down motion	by push buttons
• Features visualization	LCD display
• X-ray beam incidence indicator	goniometer

### Tomo features selection

	by push buttons
• Sweeping angles	8°/20°/30°/40°
• Sweeping times	0,3/0,6" - 0,75/1,5" - 1,15/2,3" - 1,5/3"
• Layer variation	from 0 to 25 cm
• S.I.D. in Tomo	105 cm

### Elevating bucky table (BHE)

• Min. distance from the floor to the patient table top upper edge	53 cm
• Vertical travel	32 cm
• Average speed of moving	3 cm/sec.

### Bucky carriage

• Longitudinal travel	48,5 cm
• Locking device	electromagnetic brake

### Electrical supply requirements

• Single phase line voltage	230 Vac - 50/60 Hz
• Maximum absorbed power	600 VA

### Color of the standard paint

	RAL 9002
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### Net weights

• Column / rails	190 Kg
• BHE bucky table	320 Kg

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### Accessories on request and of standard supply

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|--|--------------------------|
| • Manual diaphragm                                       | R 302 ETBL model         |
| • Bucky with cassette tray                               | ES five speeds           |
| • Grid   | R=10:1 FFD=100 cm 40L/cm |
| • Pair of patient hand-grip                              |                          |
| • Compression band with ratchet                          |                          |
| • 35x43 cm max. size lateral cassette holder             |                          |
| • 24x30 cm max. size articulated lateral cassette holder |                          |
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### Main options

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|--|-----------------------------|
| • Bucky with cassette tray (in alternative of the standard type) | E.P. bucky                  |
| • Bucky with automatic cassette loader and size sensing device   | L.F. 9000 series            |
| • Carbon fiber table top   | 0,45 mm Al eq of absorption |
| • Positive beam limitation (Automatic collimation system)        |                             |
| • A.E.C. Automatic exposure control system                       |                             |

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