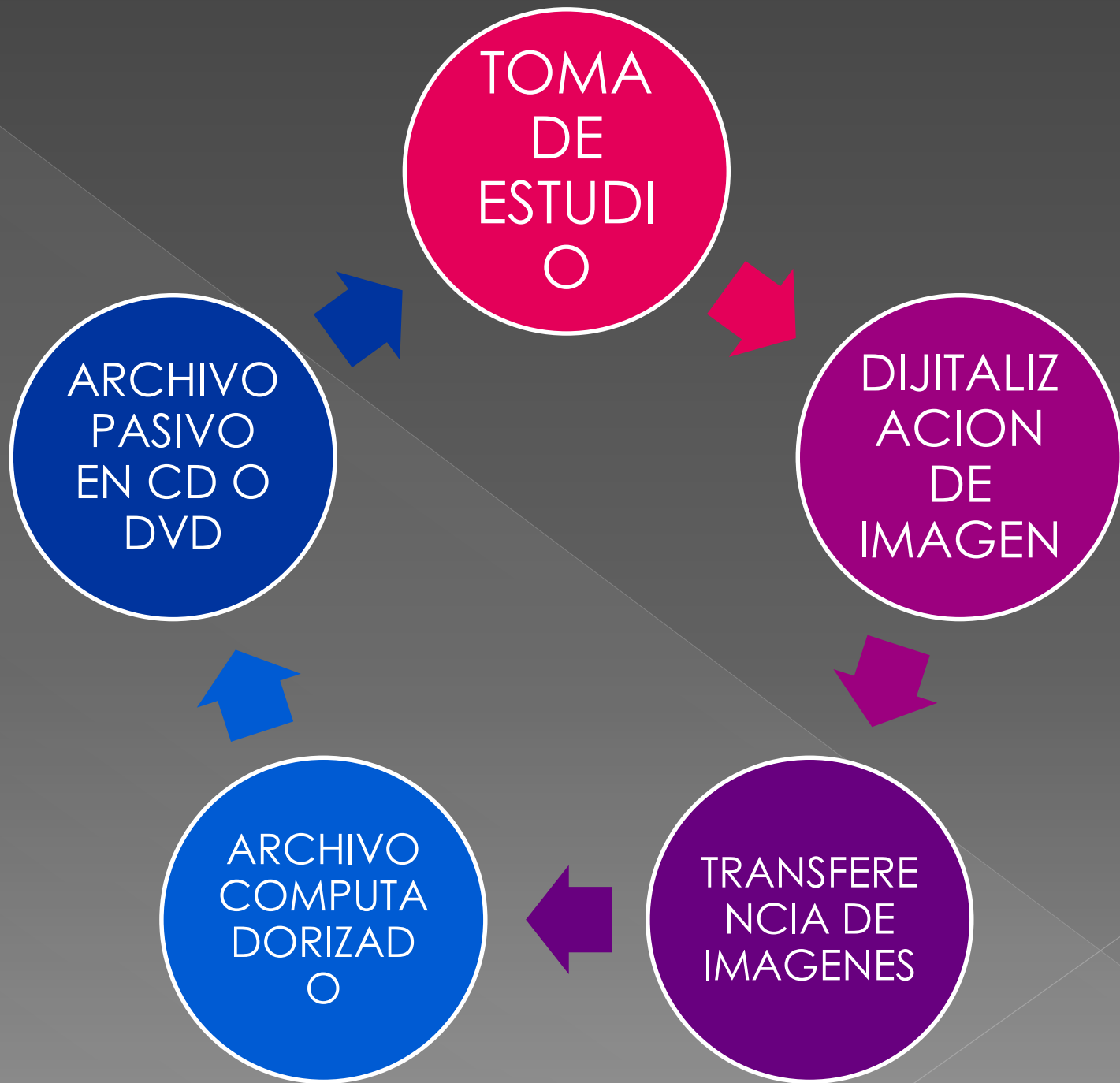
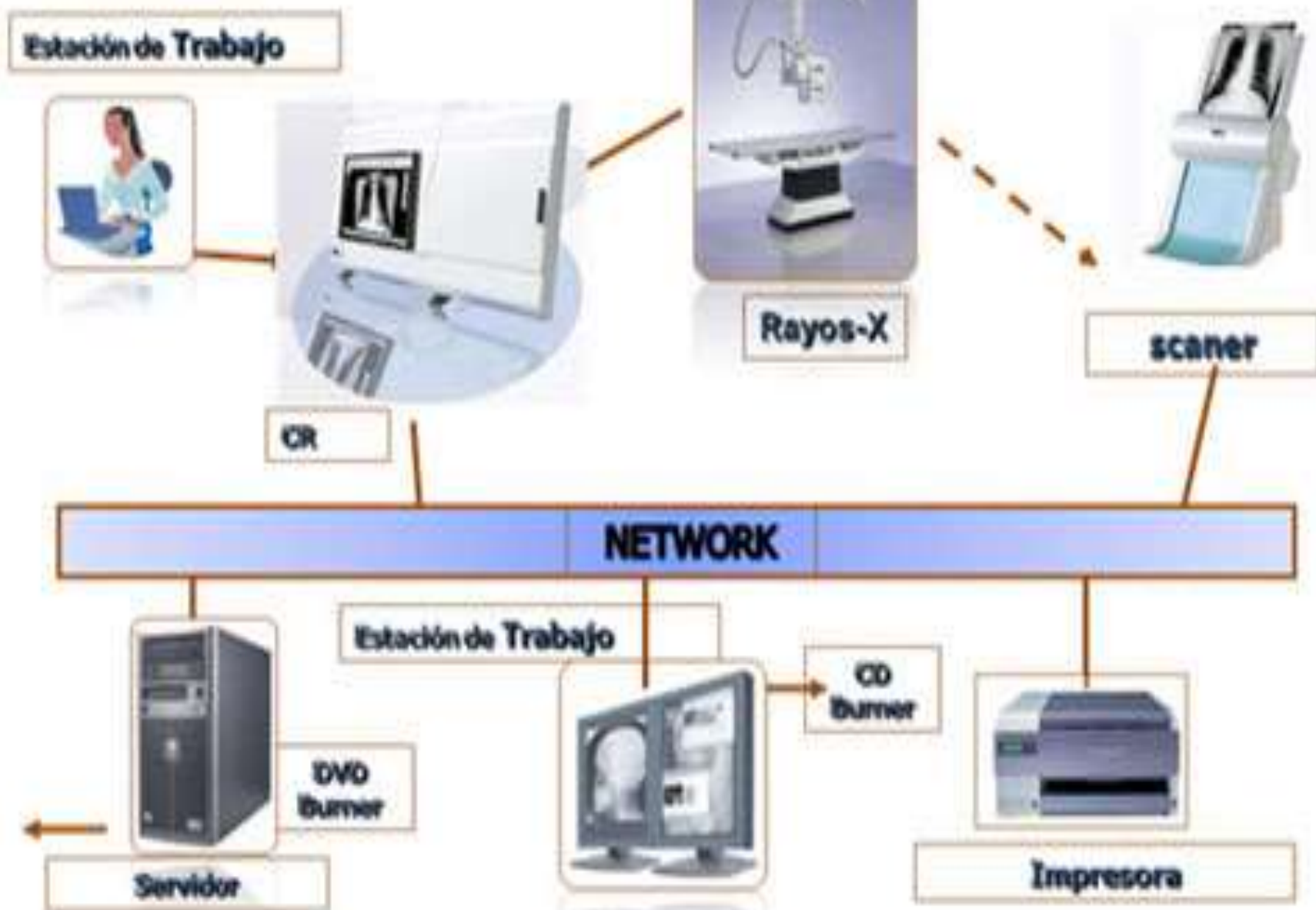












DICOM (The Digital Imaging and Communications in Medicine)



Dicom Modality



Dicom Modality



Dicom Modality



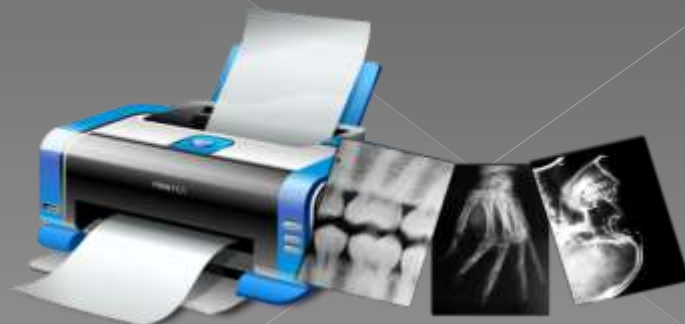
Dicom Modality



Windows based PC with Dicom Paper Printer



Windows based printer



SISTEMAS INTEGRALES DE INFORMACION

- ◉ **PACS** es un sistema de almacenamiento y distribución de imagen. Esta definición corresponde a la traducción literal de sus siglas Picture Archiving and Communications System.

3 componentes

- ◉ SGI (sistema de gestión de imágenes)
- ◉ SAE (sistema de almacenamiento estructurado)
- ◉ EVE (estación de visualización estructurada)

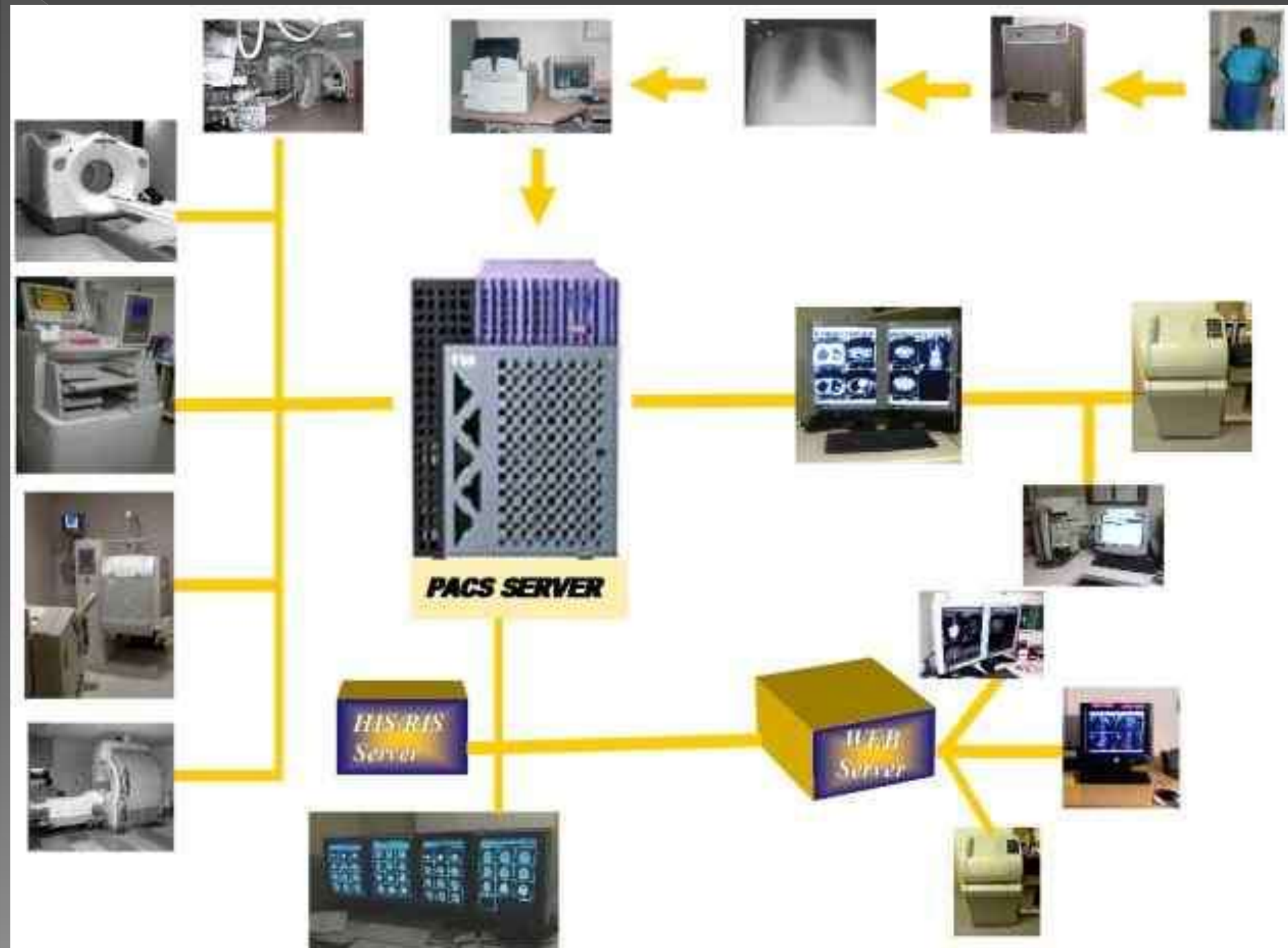
SISTEMAS INTEGRALES DE INFORMACION

- **RIS** (sistema de información radiológica)

El sistema se encargará de integrar y gestionar la información y los procesos con el fin de obtener un flujo de trabajo óptimo. Se tiene en cuenta los diferentes requerimientos de los usuarios a los que sirve (radiólogos, técnicos, secretarias, administrativos). Para todos ellos se debe ofrecer una funcionalidad tal que facilite su trabajo haciendo incrementar su productividad.

SISTEMAS INTEGRALES DE INFORMACION

- **HIS** (sistema de imágenes hospitalarias)
son sistemas de información orientados a satisfacer las necesidades de generación de almacenamiento, procesamiento e interpretación de datos médicos administrativos de cualquier institución de salud.



DEPARTAMENTO DE RADIOLOGIA

- ◉ RAYOS X CONVENSIONAL
- ◉ RAYOS X PORTATIL
- ◉ FLUOROSCOPIA
- ◉ RAYOS X ODONTOLOGICO
- ◉ MAMMOGRAFIA
- ◉ TOMOGRAFIA AXIAL
COMPUTADORIZADA

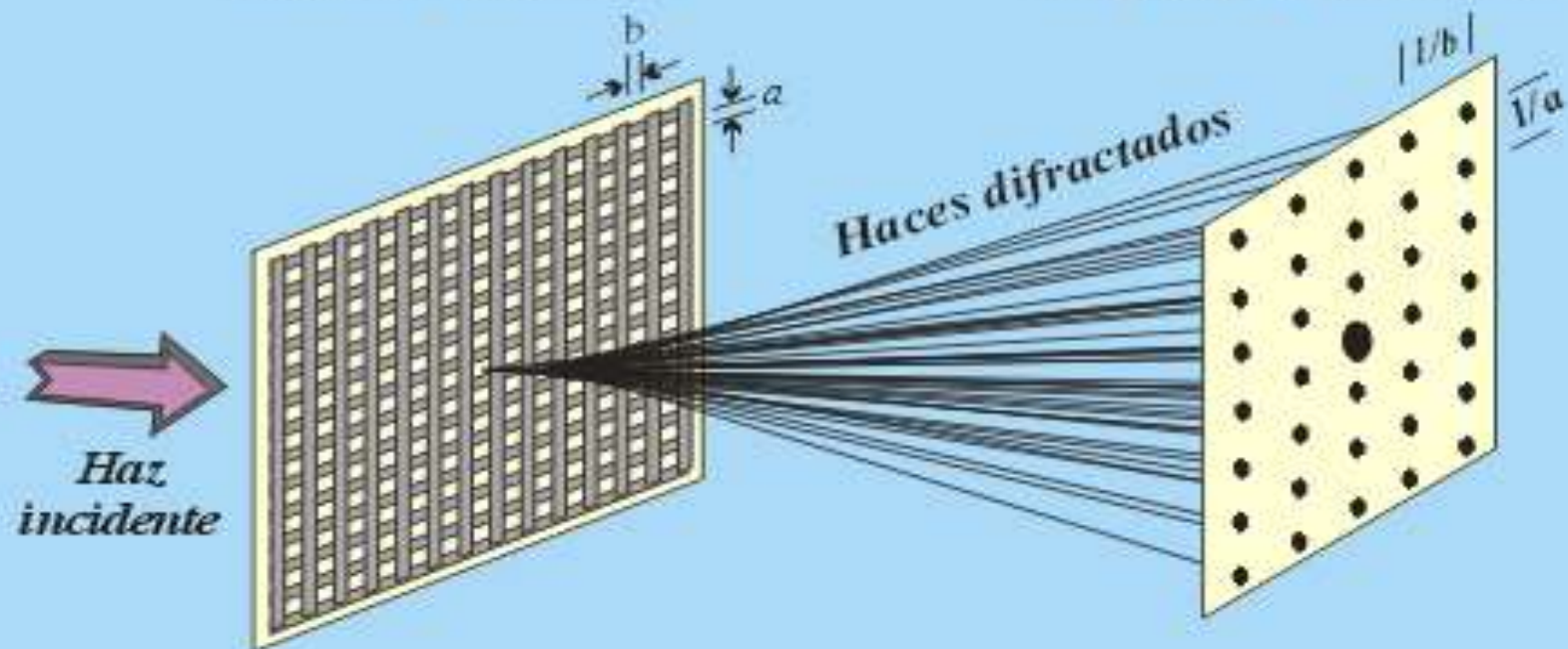
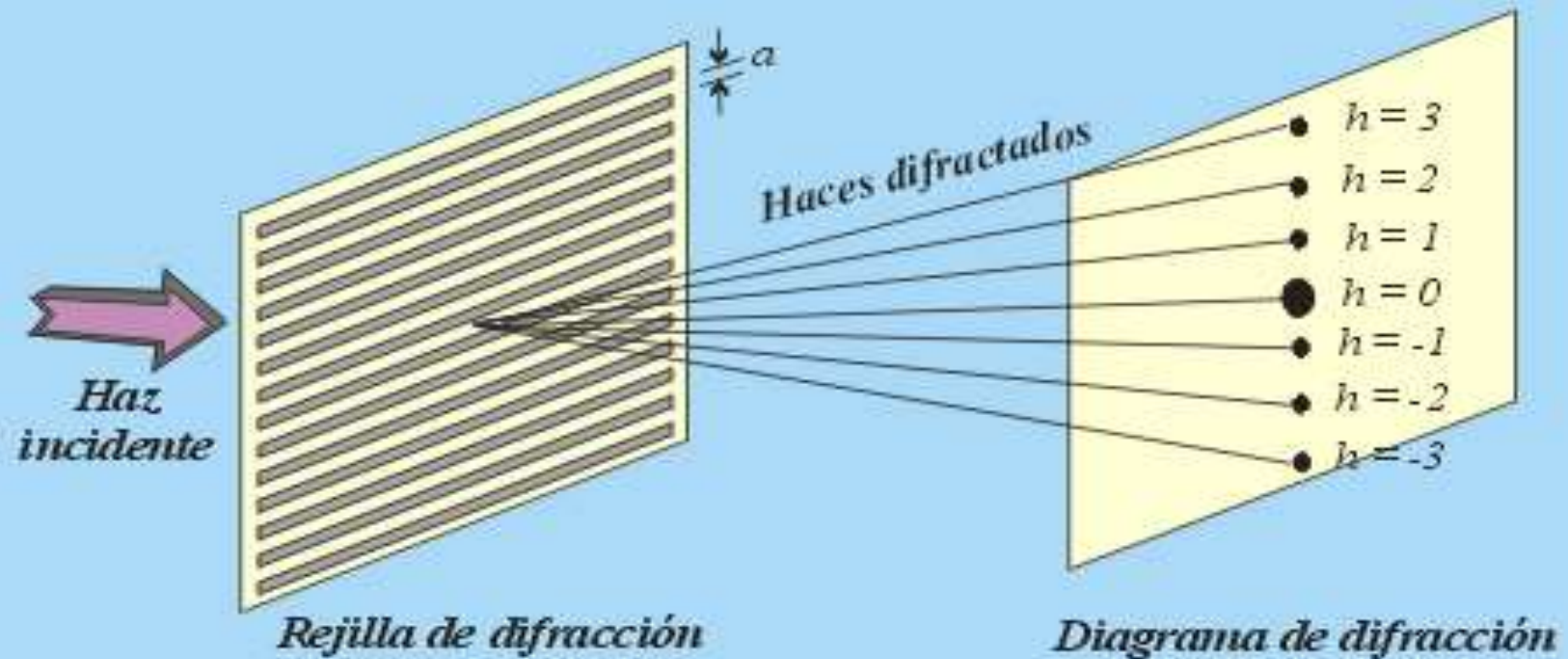
RAYOS X CONVENSIONAL





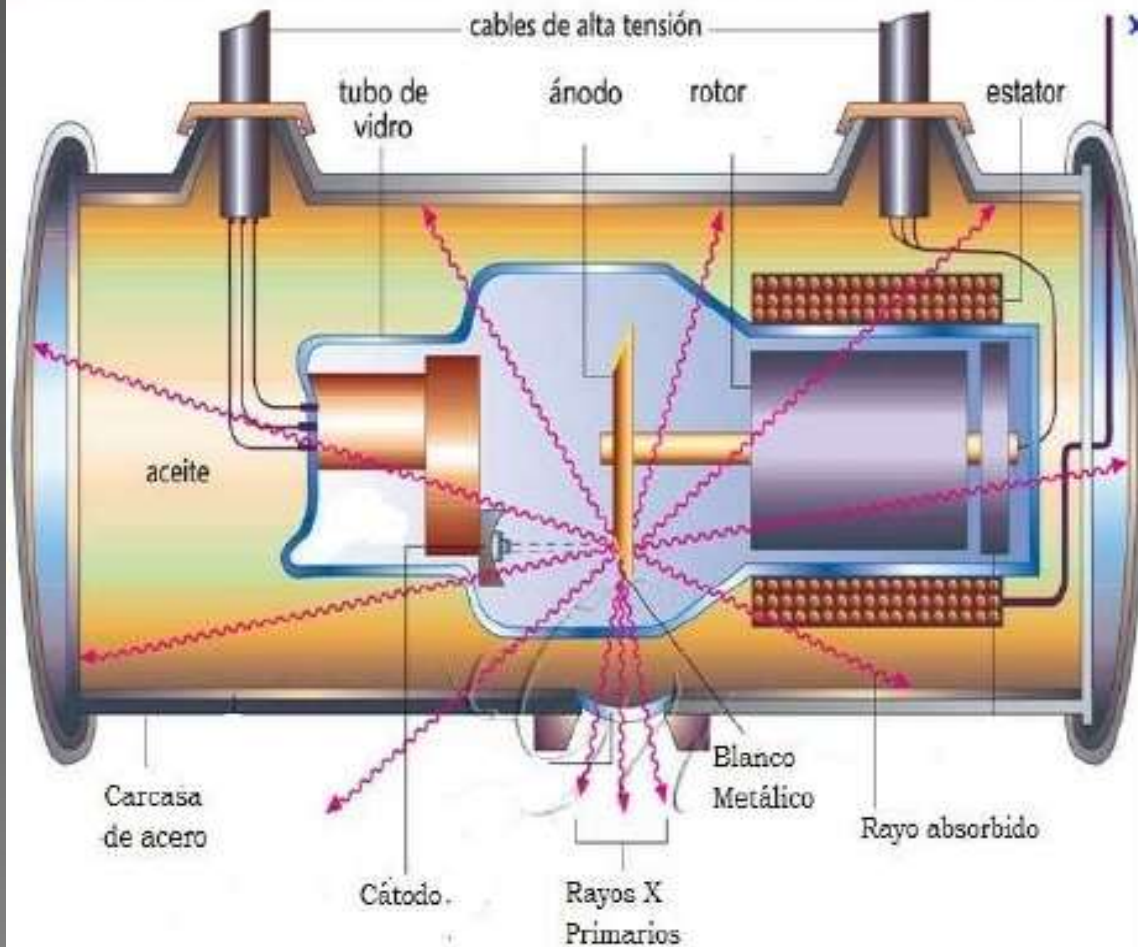








APARATO DE RX



ESTRUCTURA EXTERNA

→ Estructura de soporte

→ Carcasa protectora

→ Envoltura de cristal

ESTRUCTURA INTERNA

→ Cátodo
→ Filamento
→ Copa de enfoque

→ Ánodo
→ Blanco

→ Motor de inducción
→ Estator
→ Rotor



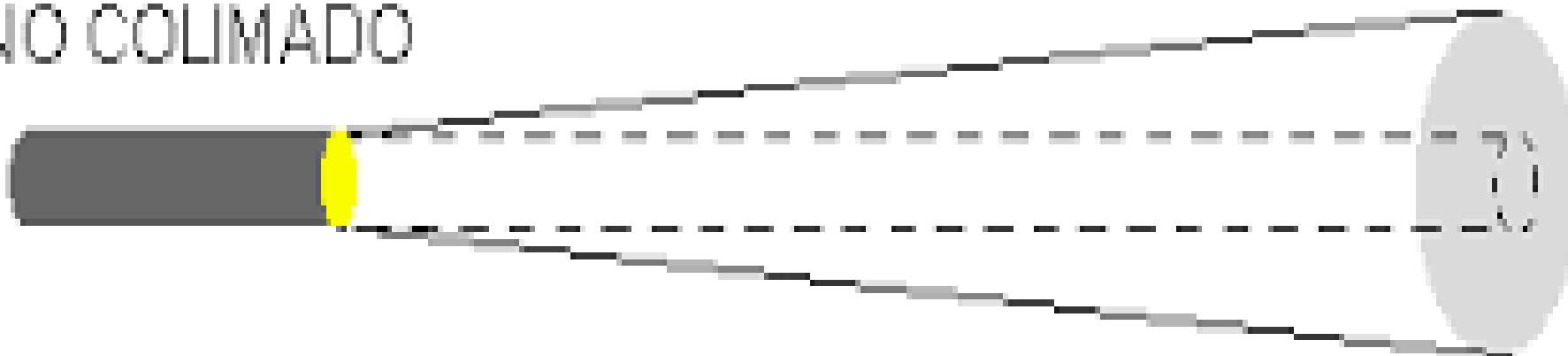
jp108753485.trustpass.alibaba.com

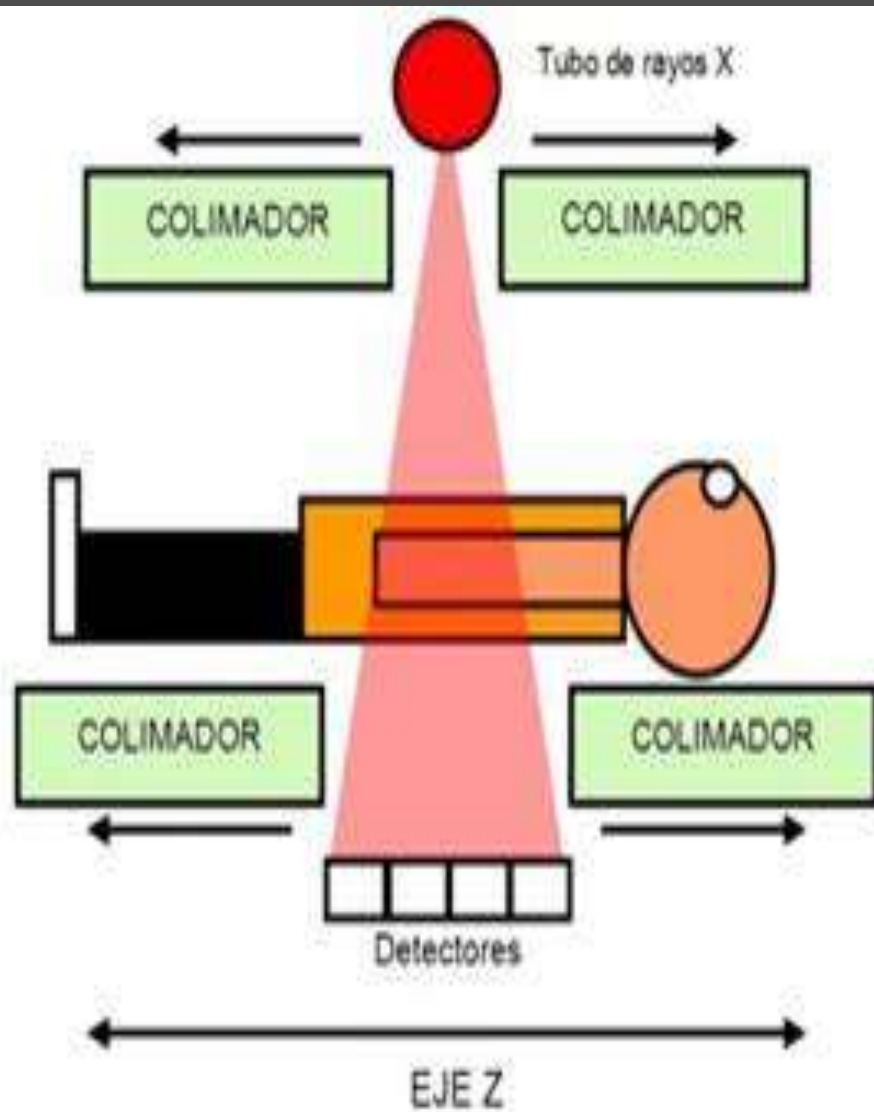
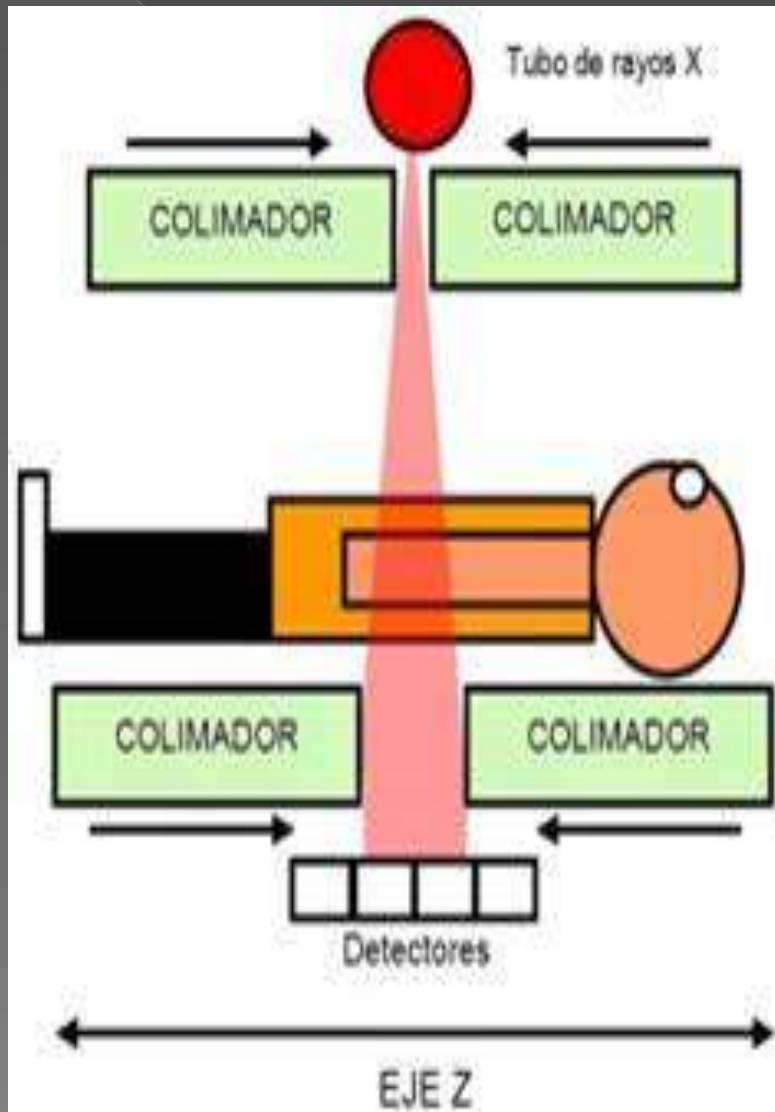


COLIMADO



NO COLIMADO







TABLERO DE DISTRIBUCION



TRANSFORMADOR DE
AISLAMIENTO TRIFASICO

ESTABILIZADOR

CORRIENTE A GANTRY









PIMAX

micro



LINEA

NO



20



40

MILIAMPER





sri
SOURCE-RAY, INC.

READY

X-RAY

SR-130

KVP

80



MA

120.0

IS



MA

SS



TIME

4.00



High Frequency



F-Min

Reset

Made in the USA



WARNING: This X-Ray unit may be dangerous to patient and operator unless safe exposure factors and operating instructions are observed.

DSJ
DENTAL SAN JUSTO S.A.

0.45



TIEMPOS



RETARDO



70 KV 8 mA





















SERIÓGRAFO

1



VISTA POSTERIOR (MESA VERTICAL)

4



TUBO RX

AQUÍ SE PUEDEN AGREGAR
ACCESORIOS. (EJ. EL
LOCALIZADOR PARA
BULBOS EN SGD)

CARRO PREPARADO
PARA QUE LE INCIDAN LOS RX













Download from
Dreamstime.com

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30335842



Nerthuz | Dreamstime.com



O-ARM®











Belmont

BELRAY
MODEL 096 70kVp 10mA

WARNING THIS X-RAY UNIT MAY BE DANGEROUS
TO PATIENT AND OPERATOR UNLESS SAFE EXPOSURE FACTORS
AND OPERATING INSTRUCTIONS ARE OBSERVED

12050 2004 049 0020



0.80 s



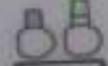
T1

T2

T3

T4

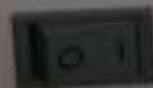
T5



P

C

F



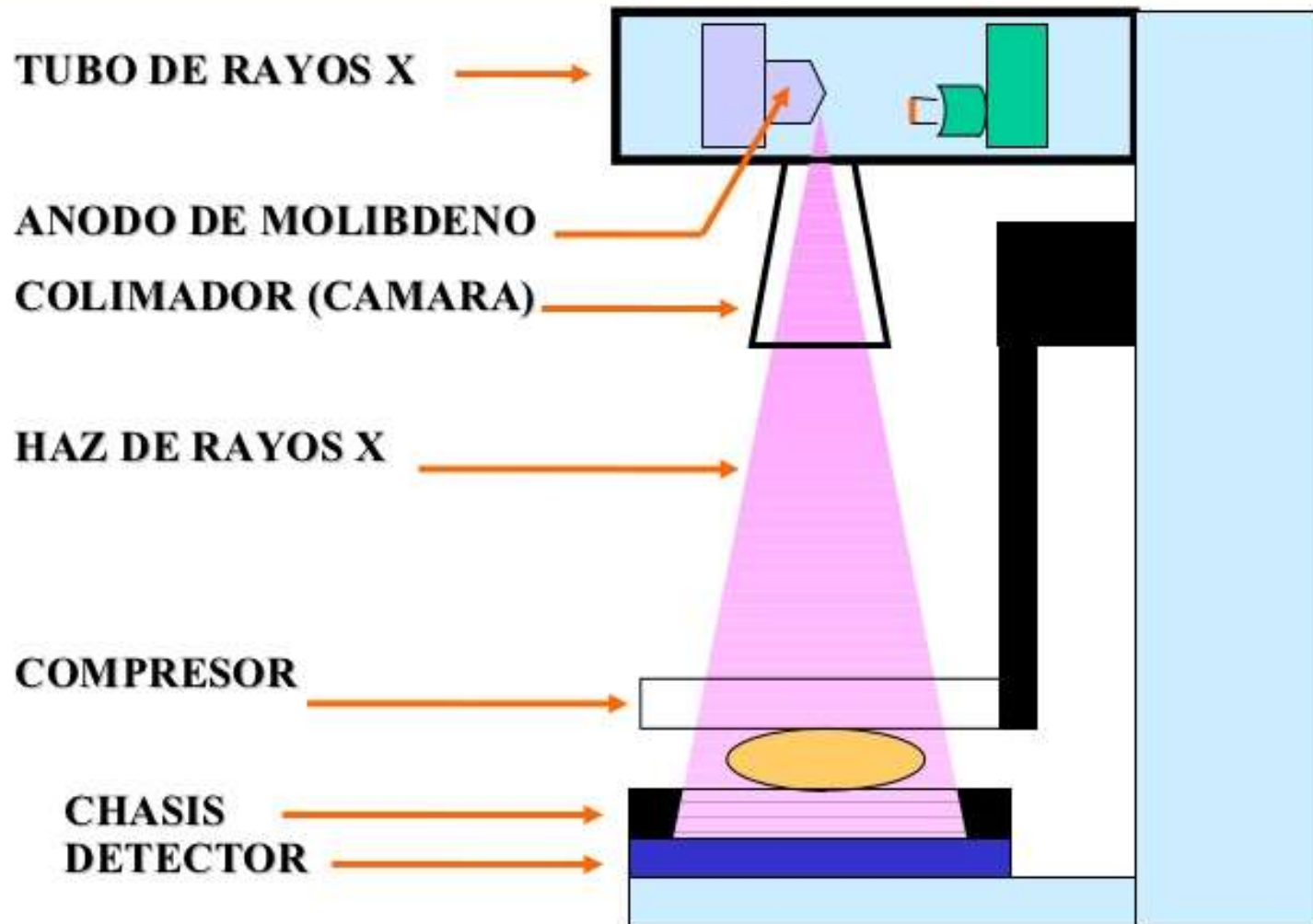
Panel de control

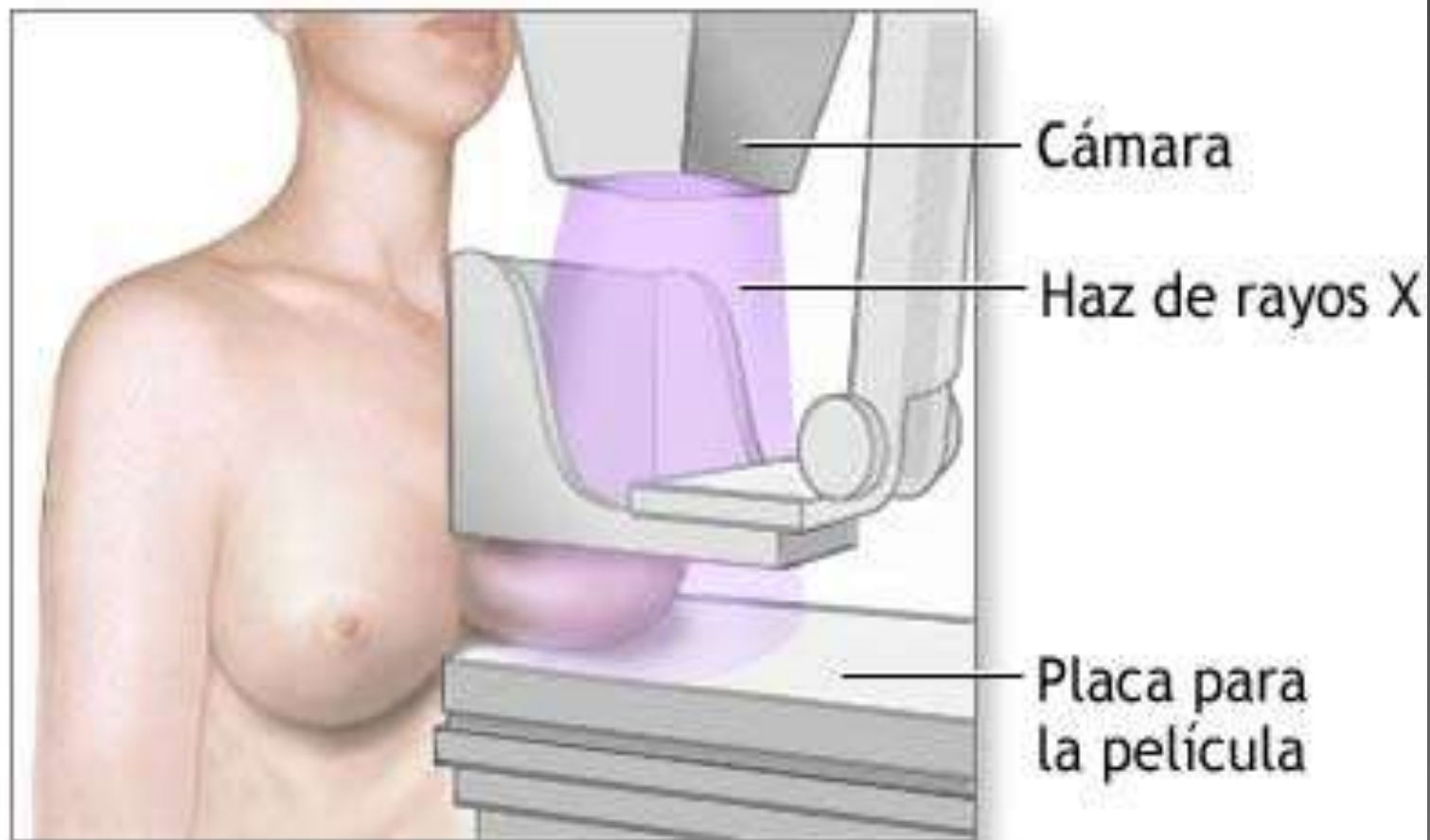




www.treedental.com

ESQUEMA DE UN MAMOGRAFO





En la mamografía, se comprime cada seno en sentido horizontal y luego oblicuo mientras se toma la imagen de rayos X desde cada posición













TOPEX

STATUS TREATMENT READY

Perform RAD Check

8 & 9 LCD Display

X-RAY

100 kV 8.0 mA 5

161 cGy/min
1.14 mm Al FILTRATION
2.1 mm Al HVL

APPLICATOR #2
DIAMETER 5SD 11
1.5cm 15cm

EXPOSURE 12
8.8 cGy

TIME (MINUTES)

RESET

6 SET 0.00

ELAPSED 0.00

7 BACKUP 0.00

4  

2 POWER SAFE READY START STOP EMERGENCY OFF

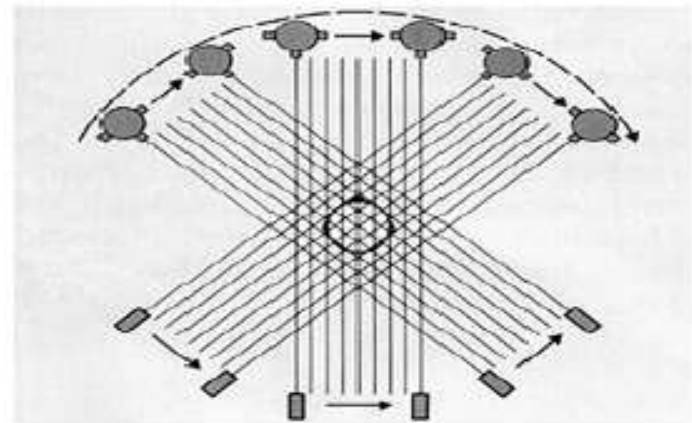
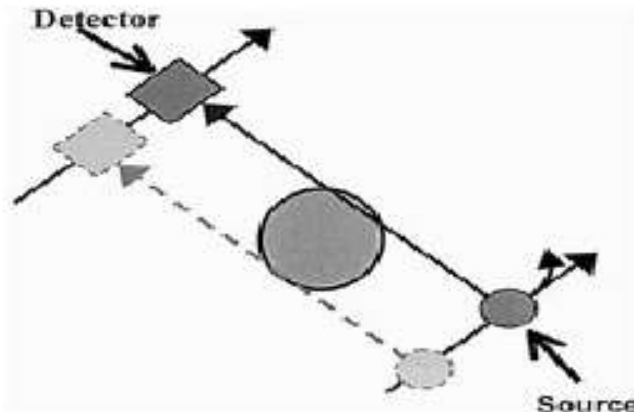
1  X-RAYS  X-RAY 3   10 

Warning: This unit may be dangerous to patient and operator unless safe exposure factors and operating instructions are observed



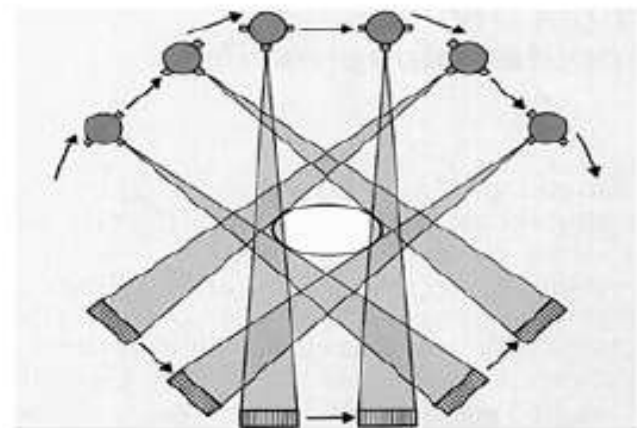
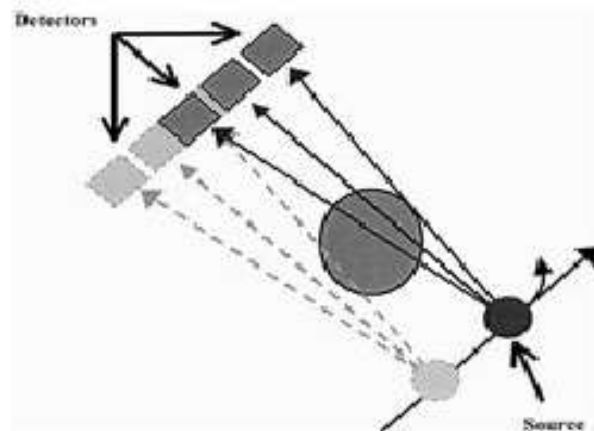
Sistema de Primera generación

- El proceso de traslación-rotación se repite durante 180 traslaciones
- Grandes periodos de exploración
- Es un sistema de rotación y traslación muy lento y tarda 5 min lo que limita su utilización
- Calidad de la imagen depende de los movimientos



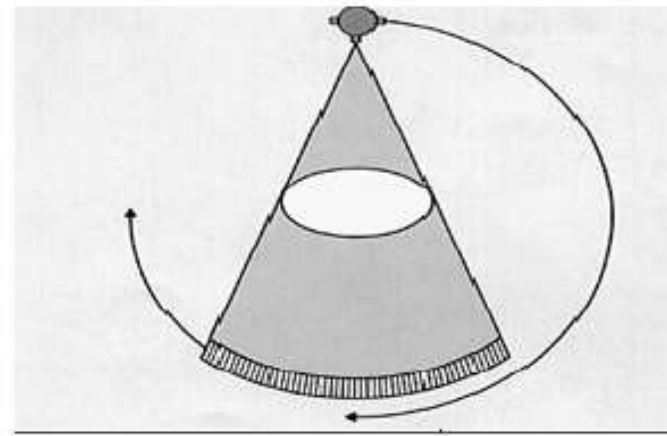
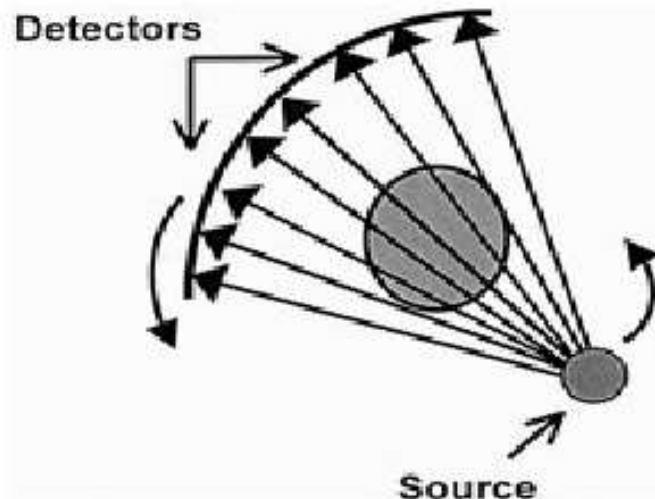
Sistema de Segunda Generación

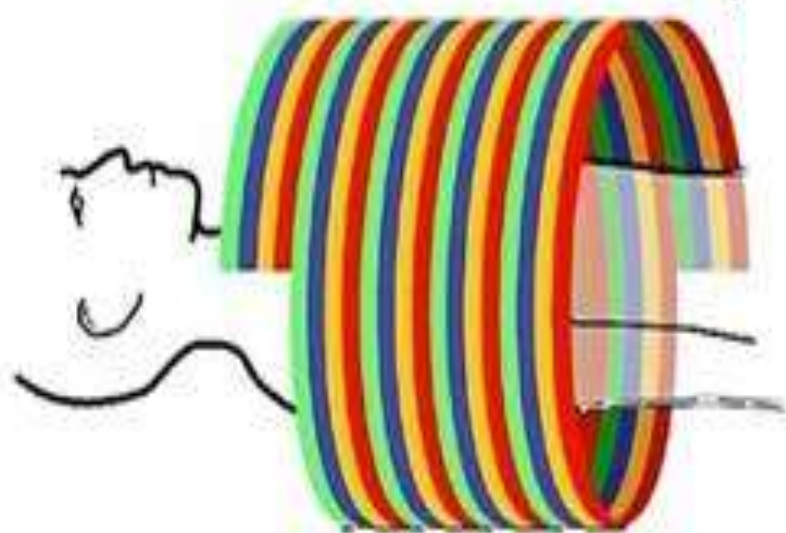
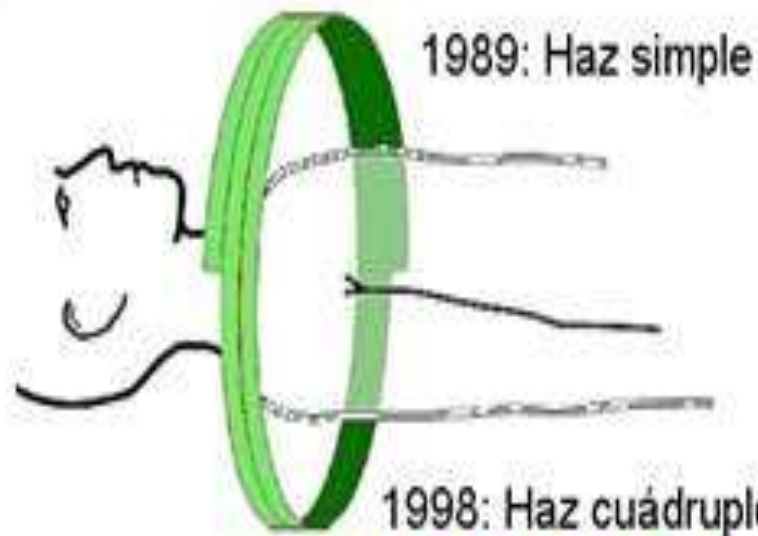
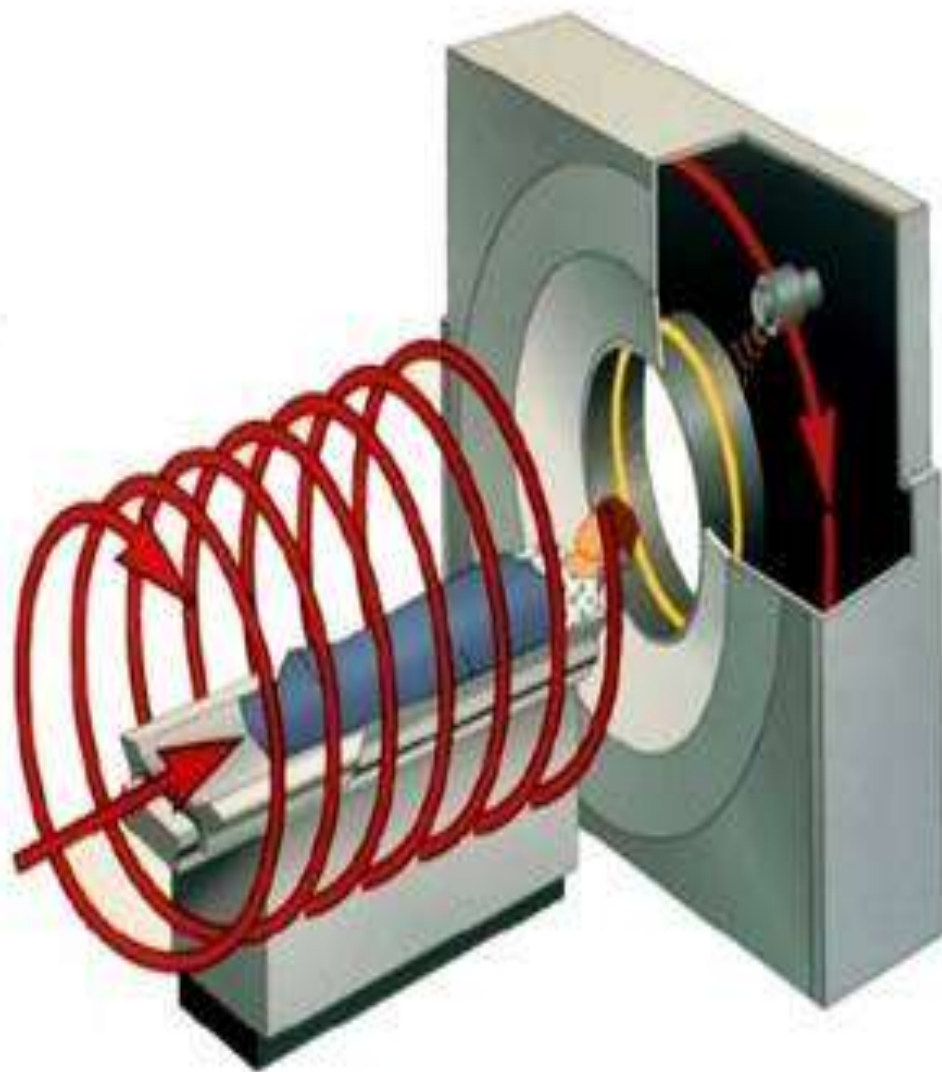
- Reconstrucción de **haz en abanico** ($3-10^\circ$) con un matriz de **detectores lineales**
- Juntos varios detectores de Rx
- < Número de rotaciones angulares
- Pero aún tardaban entre 20 a 30 seg. en hacer un corte y otro tanto precisaba el ordenador para calcularlo.

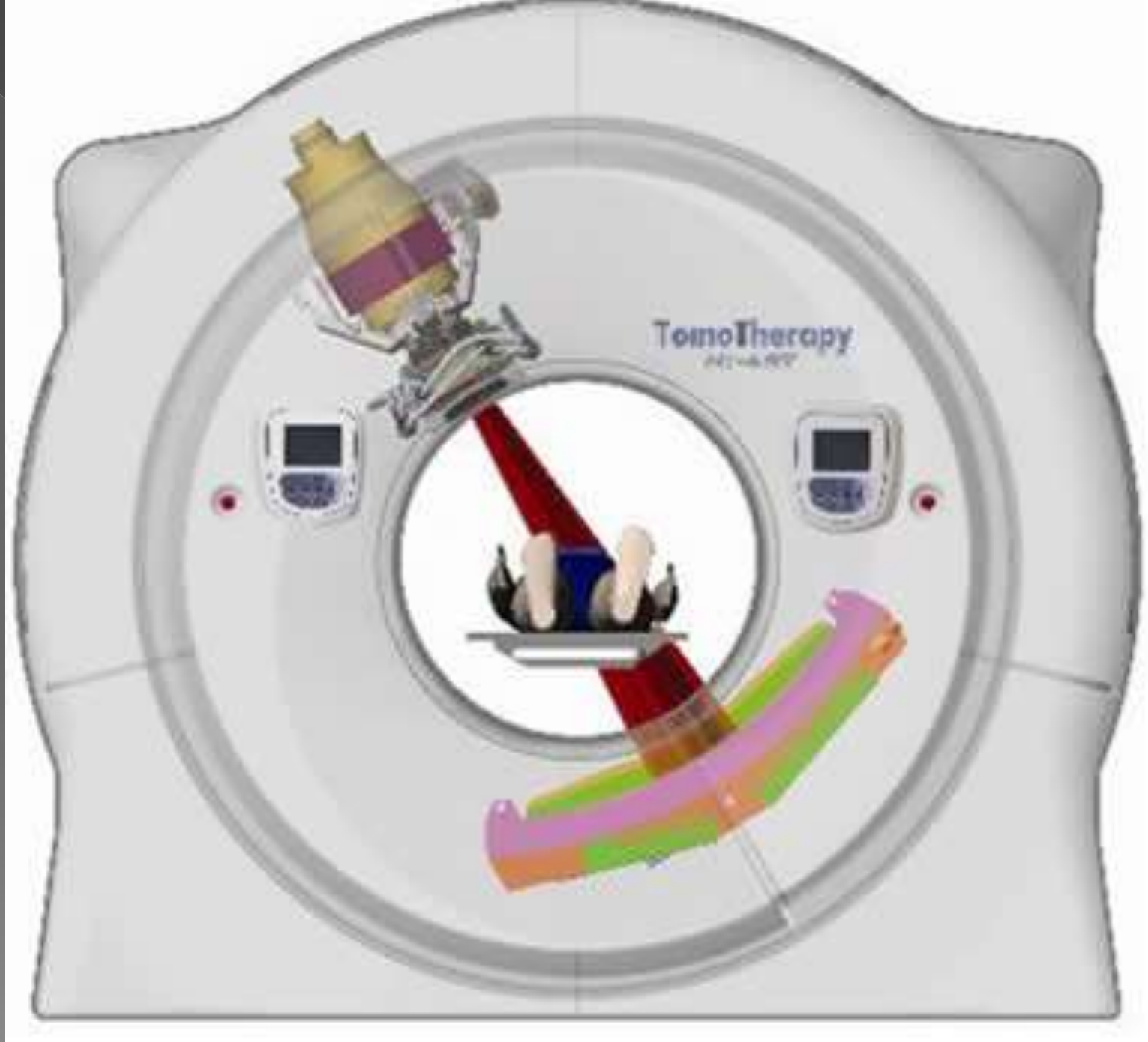


Sistema de Tercera Generación

- Utilizan una geometría de haz divergente de mayor ángulo ($50-55^\circ$)
- Arco de detectores y un tubo de Rx rotan de forma continua alrededor del paciente hasta completar los 360°
- Los detectores se fijan radialmente y no perciben la zona de exploración uniformemente
- Detectores: 600 a +900
- Generan imagen en 1 a 10 seg.









Rotación del gantry “Paro y Rastreo”

El tubo y los detectores regresan a su posición inicial después de una rotación de 360° , el paciente avanza una distancia determinada dentro del gantry

Conventional CT



Grupo de datos interrumpidos o discontinuos

Adquiere serie de imágenes axiales 2D contiguas de grosor determinado

Rotación continua

El tubo de x-ray y los detectores rotan ininterrumpidamente alrededor del paciente mientras el paciente avanza continuamente a través del gantry.

Single-Slice Spiral CT



Volumen continuo de datos

Se adquieren datos volumétricos con patrón en espiral.



Hardware aplicado a la salud: tomografías.

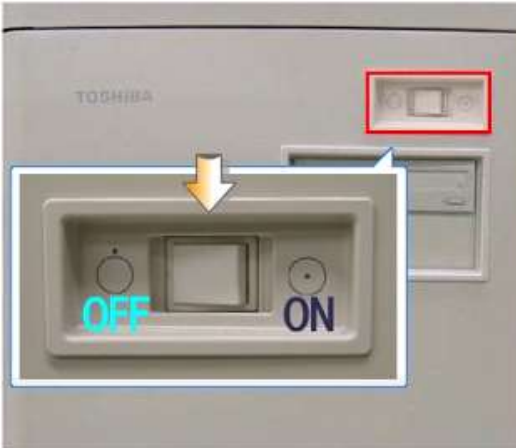












Calibration data will be collected during warmup.
Remove table from X-ray path.

OK

It takes approximately 7 minutes to complete warming up.
To halt warm up in an emergency, press [ABORT].
When the orange lamp is lit, press [START].

Note: The warm up is necessary to protect the life of the X-ray tube.
If then warm up is not performed. The tube life may be reduced.



If you want to stop x-ray warming, press [ABORT].

A

para prender los laser
(infrarojos) para centrar el
objetivo; cabeza, torax etc.

B

led indicador que el boton manual
esta activado

C

recetear a cero el display de
la 1ra fila y tercear; utilizado
para la calibración

D

uso manual de la camilla



sacar

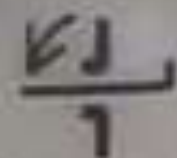
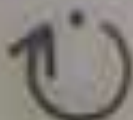


acelerar



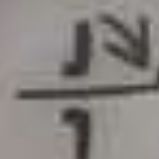
A

rotar el tubo a su posición original e ideal para el disparo



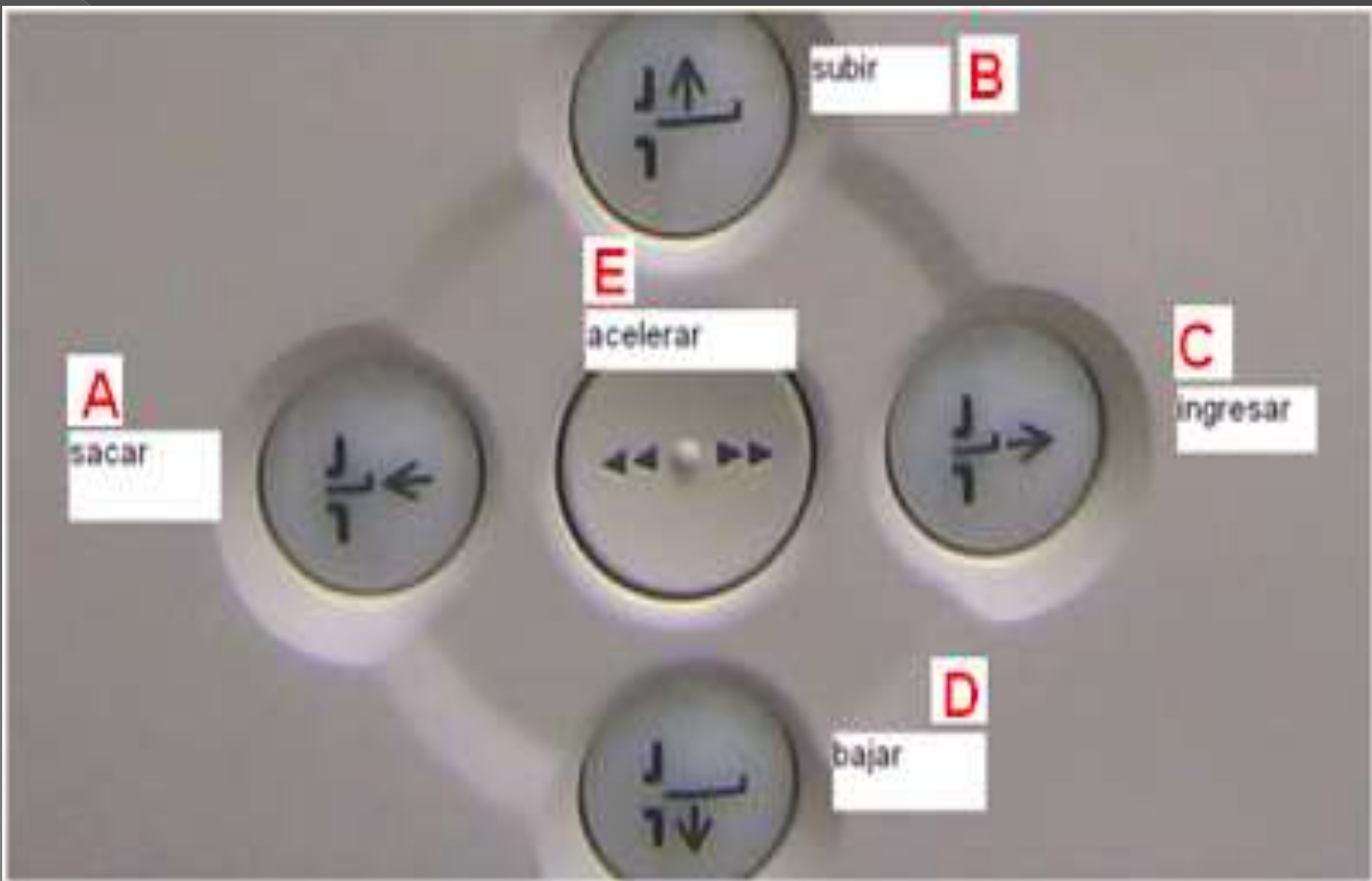
voltear hacia atrás el Gantry

B



voltear hacia adelante el Gantry

C



A
sacar

subir **B**

C
ingresar

bajar **D**

E
acelerar

parqueo desde atras para
Gantry y mesa

A



parqueo desde adelante
para Gantry y mesa

B



The screenshot displays the Astelon software interface, which is used for patient registration and protocol selection. The interface is divided into several sections:

- Top Left:** Contains the Astelon logo and the date "Jun 27 08:02 2005". Below this are fields for "ID-Image: 57275" and "MO-Image: ---". There are also checkboxes for "Reconstruction", "File", and "Archive", all of which are currently unchecked.
- Top Center:** Features a "Tube (LUP): 25k" label and a corresponding slider control.
- Top Right:** Includes a "Utility" section with icons for "Follow", "View Data", and "X". Below this are icons for "Measure", "Standard Model", and "Reset".
- Center:** A large area for patient information. It includes fields for "ID:", "Name:", "DOB:", "Sex:", "Height:", "Weight:", "Patient Consent:", "Contrast 1:", "Contrast 2:", and "Organ:". There are also buttons for "Emergency", "Clear", and "Detail >>".
- Bottom Left:** A 3D model of a human figure, currently showing the back view. It has a green rectangular area on the head and a blue rectangular area on the torso.
- Bottom Center:** A section for "Protocol Selection" and "Anatomical Selection". It includes tabs for "Adult", "Child", and "Trauma". Below these are tabs for "Group A", "Group B", and "Group C".
- Bottom Right:** A table with two columns, each containing a circular icon and a text description. The text descriptions are partially obscured but appear to be related to anatomical selection.

Astelon Jun 27 08:24 2005

HD-Image:87278 HD-Image:---

Reconstruction : 0

File : 0

Archive : 0

0.0 0.0 Tube(OLP): 15%

75.0

Utility

Fluorcopy raw data 3.0

Utility

Utility

Utility

Utility

Utility

Utility

Utility

Utility

Utility

Utility

Utility

ID: 12345

Name: TOSHIBA

TARO

DOB: 1963.01.01 yyyy.mm.dd Age: 42Y

Sex: ☐ Male ☒ Female Height: kg

Patient Consent: ☐ ☒ ☐
Contrast 1: ☐ ☒ ☐
Contrast 2: ☐ ☒ ☐
Organ: ☐ ☒ ☐

For the subsequent fields, enter information as required.

Protocol Selection Anatomical

Adult Child Trauma

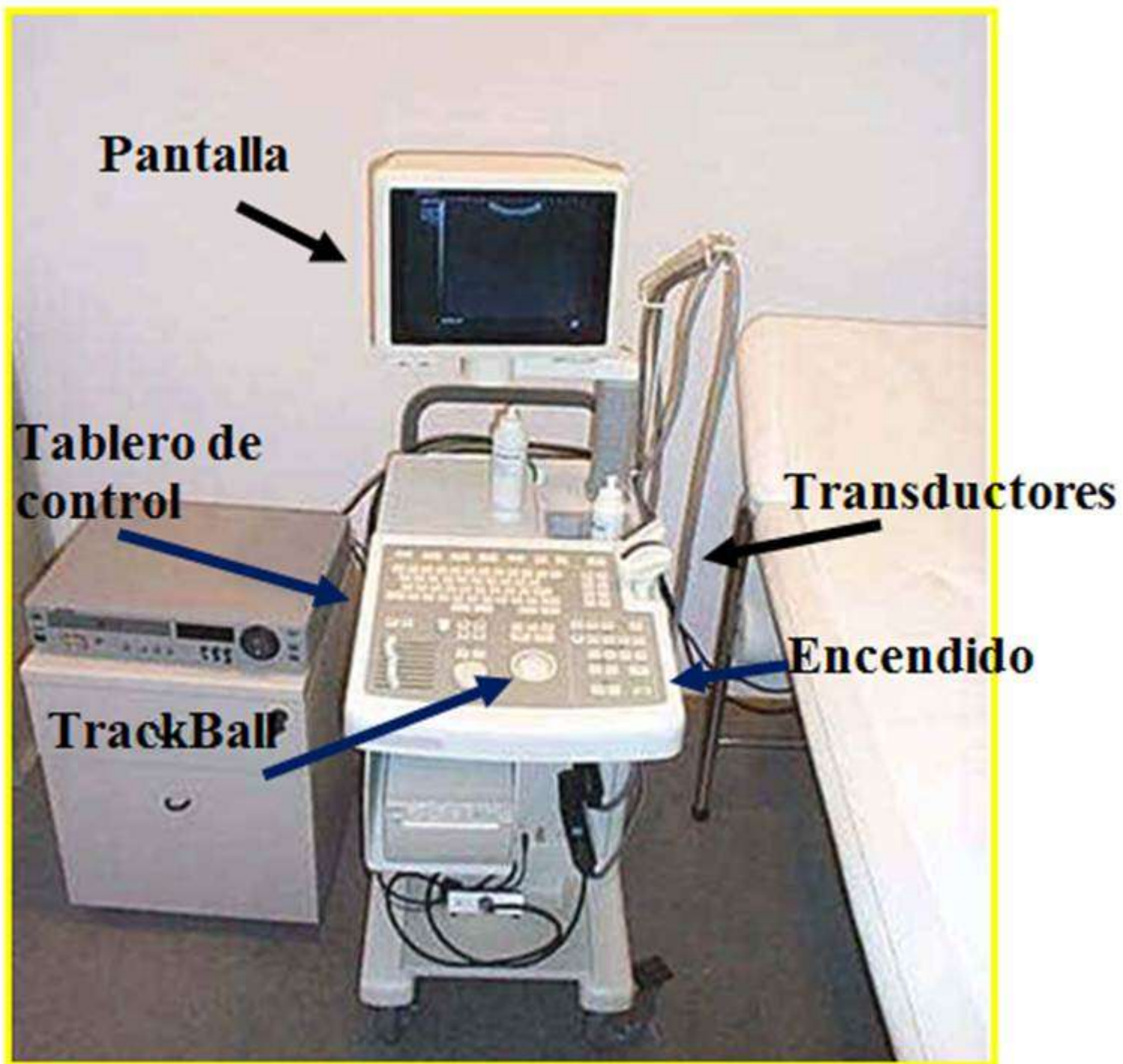
Head S&S 4mm & 8mm (stk 254)

Axial Petrous Bones 2mm (stk 1mm)

DEPARTAMENTO DE IMAGENOLOGIA

- ECOSONOGRAFIA / ECOGRAFIA
/ SONOGRAFIA

- IMAGEN DE RESONANCIA
MAGNETICA NUCLEAR





D5C20L
5.0MHz Pediatric



D7C10L
7.5MHz Transvaginal



D7L60L
7.5MHz Linear



D6C12L
6.0MHz Transvaginal



V4C40L
4.5MHz 4D Volume



D7L40L
7.5MHz Linear



D6C15L
6.0MHz Micro-Convex



D3C60L
3.5MHz Convex



D3C20L
3.0MHz Micro-Convex



Encendido

Freeze

Profundidad

Ganancias Específicas

Medición

Master Gain

Guardar

A close-up photograph of the control panel of a medical ultrasound machine. The panel is light gray and features a standard QWERTY keyboard with black keys and yellow lettering. Below the keyboard are several rows of specialized function buttons, also with yellow icons and text. A large, circular, illuminated touchpad with a bright green glow is positioned in the lower right area of the control panel. To the right of the touchpad, there are several more buttons, including one with a star icon. A white rotary knob is located to the left of the touchpad. In the background, a series of white sliders or faders are visible. The entire image is overlaid with a semi-transparent watermark.

mecan-medical.en.alibaba.com





SoloStocks











EMP-830

*Light-weight
Ultrasonic Diagnostic
Imaging System*

Resonancia Magnética

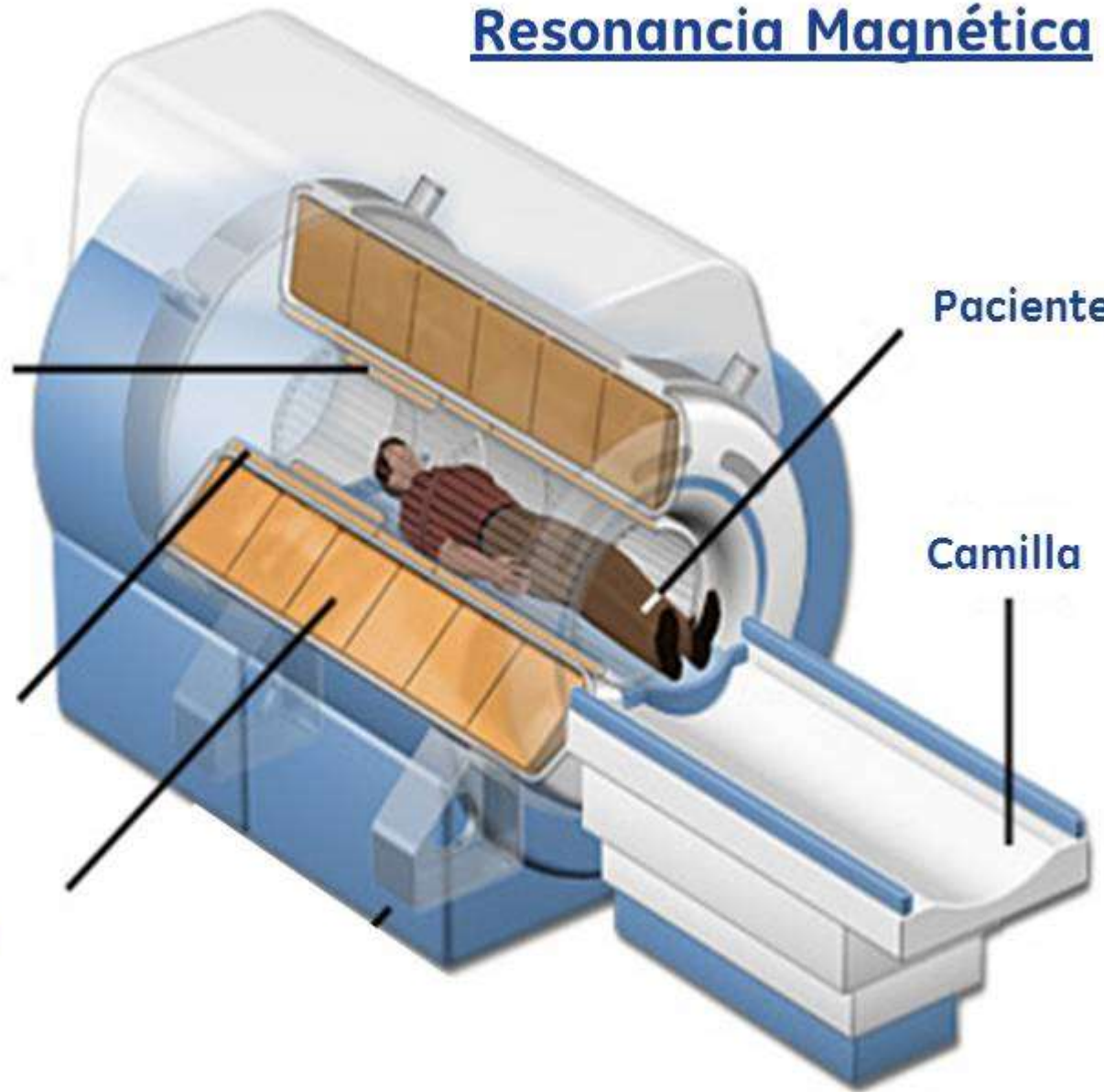
Bobina de
RadioFrecuencia

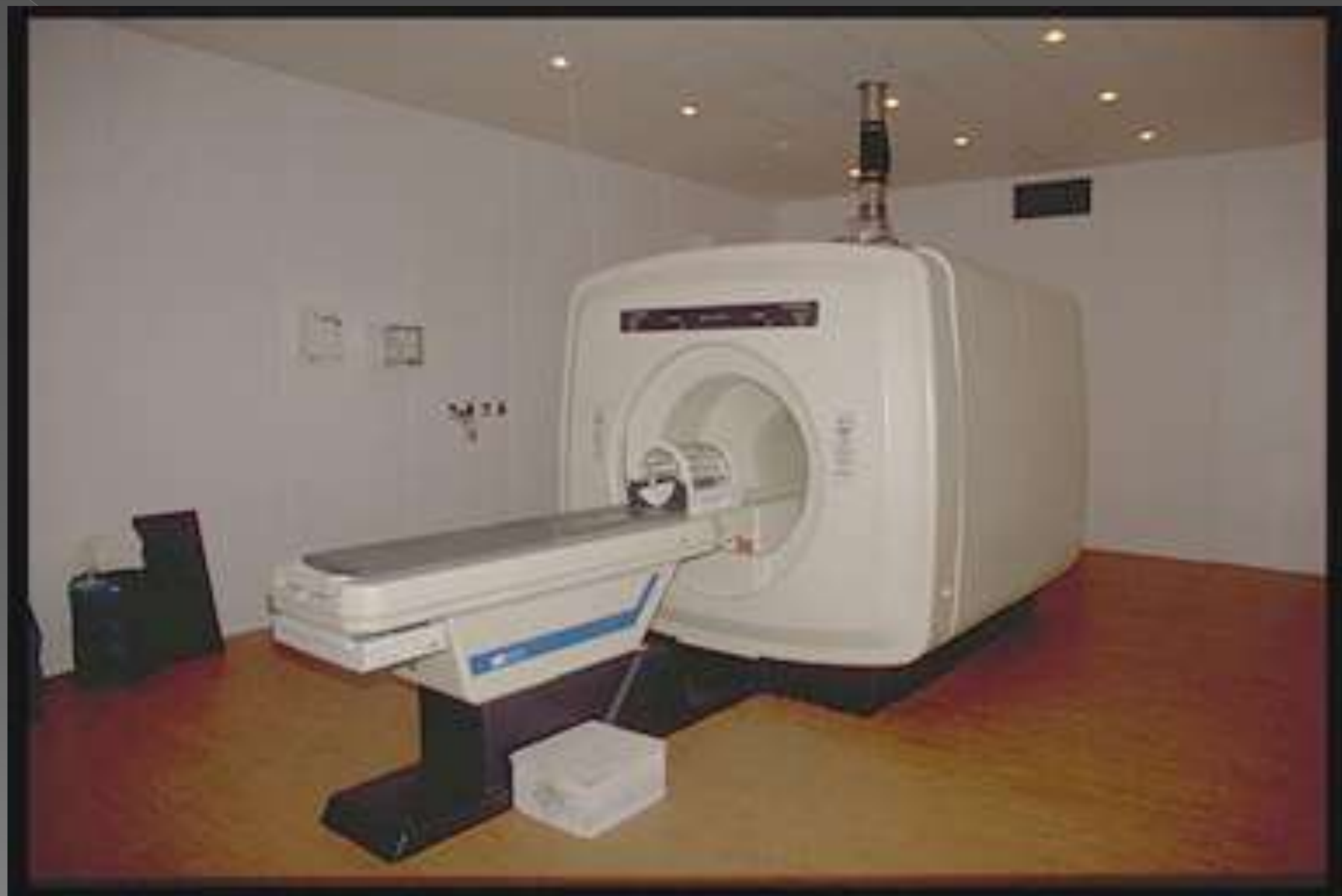
Bobina de
Gradientes

Imán

Paciente

Camilla









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ID 26011760

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espina dorsal abierto



extremidades rígido



cabeza



espina dorsal



extremidades flexible



Head coil



Neck coil



Head and neck coil



Head and spine coil

cnsinoways.en.alibaba.com



Body coil



Knee coil



Breast coil



Elbow and wrist coil







SIEMENS

T-class

MAGNETOM **Avanto**
A Tim System

