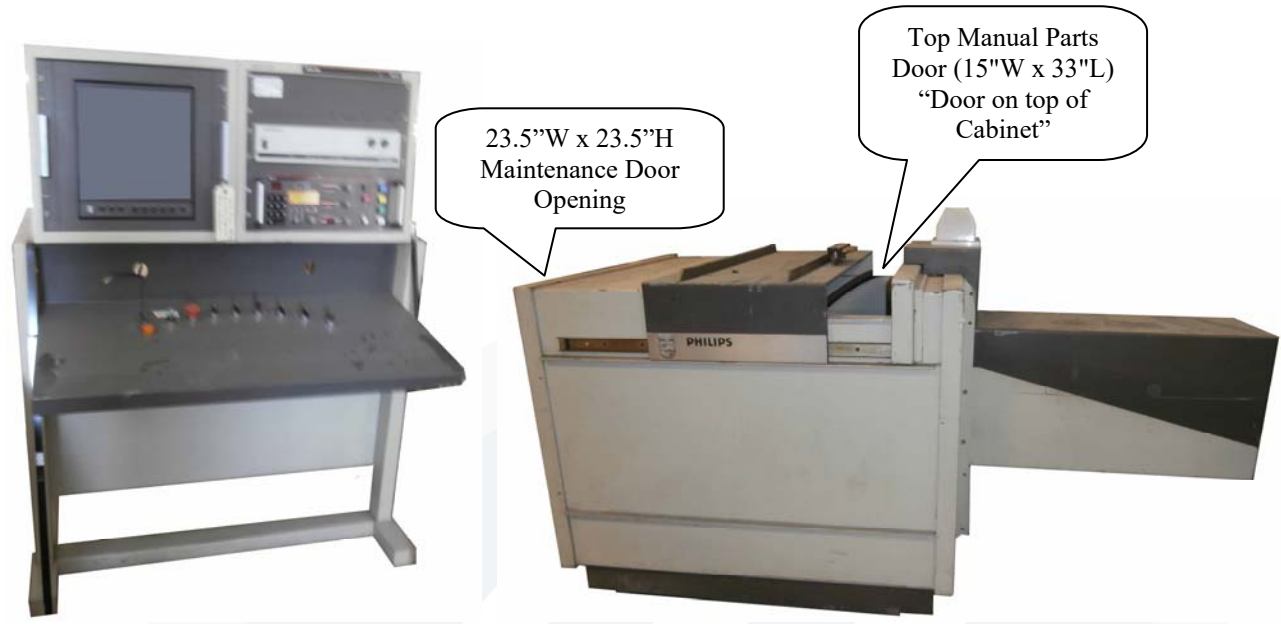


PHILIPS USED REAL-TIME X-RAY CABINET



PHILIPS MCRS1000 MANIPULATOR

MANIPULATION / CONTROLS

The 3-Axes Manipulator will be controlled by switches mounted on the writing surface of the control console (See Console Picture). The switches and potentiometers, when actuated, control the speed and direction of the motor for the X, Y and Rotate Axes.

3-Axis Motorized Manipulator

There is a three axes manipulator that moves the part between the Image Intensifier and the X-Ray Tube. These motions are motorized and are controlled by 90VDC Variable Motor Controllers that can be purchased easily in the USA. These Axes are as follows:

<u>AXIS</u>	<u>MOTION</u>	<u>DISTANCE</u>
(X-Axis)	LEFT/RIGHT	12" (+/-6") Travel
(Y-Axis)	UP/DOWN	12" Travel
(Rotate-Axis)	Rotation of Turntable	360 Degrees Safe Load – 20Lbs.

2-Axis Manually Operated Manipulator

There are two additional axes that can be moved manually by hand, then closing the door and inspect. These Axes are as follows:

<u>AXIS</u>	<u>MOTION</u>	<u>DISTANCE</u>
(Z-Axis)	Table IN/OUT	18" Travel
(Tilt-Axis)	Tilt of Turntable	± 10 Degrees Travel

CONTROL CONSOLE

There will be a dual bay Control Console similar to the image shown below that will house all the required equipment such as the Manipulator Controls, X-Ray Controller, Monitor and System On Panel. Any other Options will be mounted inside this console as well.



X-RAY RADIATION SYSTEM

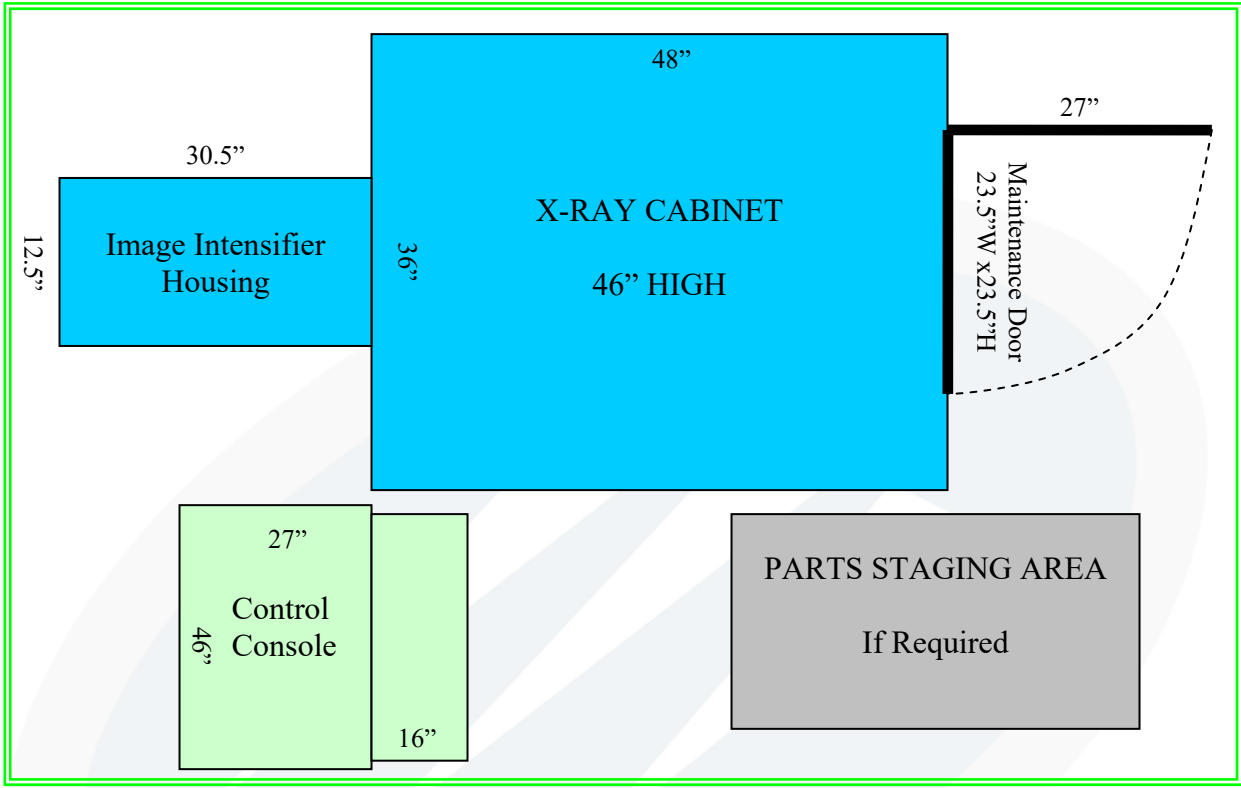
The X-Ray System is a Philips MG161, 60Hz X-Ray System with a 160kV X-Ray tube made for Real-Time Inspection. The System includes:

- 1) MGC Microprocessor Controller
- 2) 160kV(-) Generator w/3.2kW Power Supply
- 3) 1.0kW Water Cooler w/5 Meter Hoses
- 4) 160kV 5 Meter High Voltage Cable
- 5) 160kV Metal Ceramic X-Ray Tube
- 6) Interconnect Cables for integration
- 7) 6" Image Intensifier Detector w/Analog Camera & Monitor.
- 8) **(NOTE:** Optional Image Processor/Capture Digital Camera System available as Option.



PHILIPS MCRS1000 FOOTPRINT/WORKSPACE

107"W



84"D

GENEROUS WORKSPACE = 107"W x 84"D

