

PELTEC 4500 X-SERIES

INDUSTRIAL DESIGNED FOR NDT

FEATURES

**COMPACT 450KV PRODUCING
SOLID STATE X-RAY GENERATING
SYSTEM.**

**POWER DRIVEN X-RAY TUBE
POSITIONAL WITH UP AND DOWN
AXIS AND EXTEND AXIS.**

**BUILT IN AREA ALARM PACKAGE
WITH AUDIBLE PRE-WARNING**

**HIGHLY STABILIZED FREQUENCY
WITH VERY LOW RIPPLE RATE
PRODUCING SHARPER IMAGING**

**INDUSTRIAL DESIGNED FOR THE
NDT MARKET.**

SYSTEMS AVAILABLE:

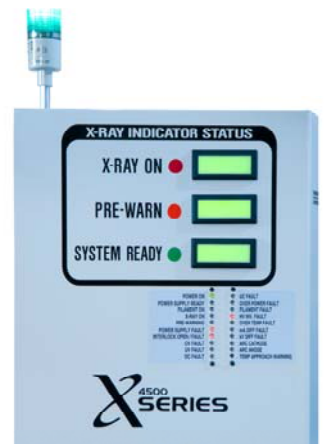
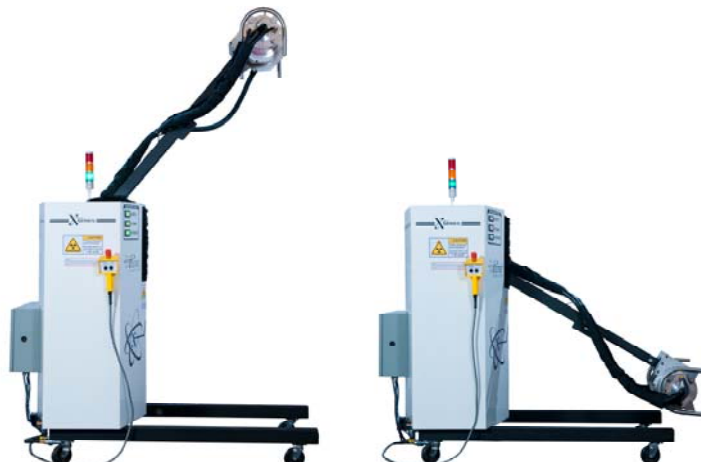
450KV • 320KV • 225KV • 160KV

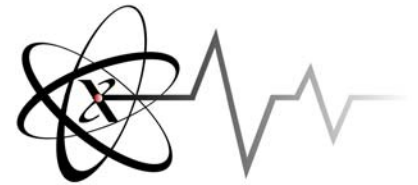


SPECIAL POINTS OF INTEREST:

- Motorized Tube position axis reaching 104 inches down to 20 inches
- Built in Area alarm package with audible alarm during pre-warning
- Self diagnosis indicators presenting status of the equipment

PLUG AND PLAY DESIGN FOR THE MODERN NDT DEPARTMENT





Tube positional Controller

PRODUCT DESCRIPTION

Peltec 4500 X-series Industrial X-ray compact system package was designed for vault use for the NDT industry. The unit is designed to produce 450 KV with a max output of 4500 watts. The Unit integrates a solid state power supply that is oil and gas free. The highly stabilized generating device produces a consistent 25Khz output with low ripple/noise rate which delivers a more

constant beam which produces a better image on CR, DR, and Film median. The system also features an electric tube positional which allows the end-user to adjust the tube height to desired position. The adjustable tube is capable of achieving a maximum height of 104 inches down to 20 Inches. The tube holder also has the capabilities to rotate the tube 180 degrees for angle shots.

The system can operate in a vertical or horizontal beam direction. Peltec X-series product also incorporate a full compliance area alarm package that is required for vault operation.

Peltec X-series also has a comprehensive fault diagnostic circuitry and Arc sense devices which protects the system from tube arcs.



Remote Safety Operational controller



PELTEC 4500 X SERIES SPECIFICATIONS

Input Voltage:

180–264Vac, 47-63 hertz, power factor corrected input to ≥ 0.98

Input Current:

<40 amps

Output polarity:

Bipolar

Output current:

0-30ma

Output Voltage:450KV

Load: $\pm 0.05\%$ of rated output voltage for a full load charge

Line: $\pm 0.05\%$ of rated output voltage over specified input range

Ripple(P-P) : < 0.1%

Accuracy: 0.25%

Stability: $\leq 0.1\%$ per 8 hours, after 1 hour warm up

Temperature Coefficient: 50ppm/ $^{\circ}\text{C}$

Emission Current:

Load: $\pm 0.05\%$ of rated output current for a change from 30% to 100% of rated

Output voltage:

Line: $\pm 0.05\%$ of rated current over specified input voltage range

Accuracy: 0.25%

Stability: 100ppm/ $^{\circ}\text{C}$

Filament:

Output: 0-6 amps at a compliance of 10Vdc, Maximum

Dual Focal Spot:

Small and large, selectable via interface signal

Configuration:

DC filament drive. Closed loop emission control regulates filament setting to provide desired x-ray tube emission current

Control Interface:

System can be operated with a hardware controller or via computer.

Hardware Controller:

Remote Interface:

Ethernet utilizing a VB GUI

Operating Temperature:

0 $^{\circ}\text{C}$ to 50 $^{\circ}\text{C}$

Storage Temperature:

-40 $^{\circ}\text{C}$ to +85 $^{\circ}\text{C}$

Humidity:

20% to 85% RH, non-condensing

Cooling Power supply:

Forced Air

Cooling tube supply:

Industrial oil chiller

External Chiller
for cooling the
oil in x-ray tube..
Chiller features
quick lock
connectors

Tube shutter with laser.(Optional)

