

## **Tungsten Alloy Radiation Shielding Equipment**

With rapid development of medical science, more and more tungsten alloy radiation shielding equipments are used in our lives. Medical instruments x-ray and nuclear power stations have become widespread and are now affecting all our lives. It is essential that people paid more attention to radiation and even more important for the institutions to protect public from the radiation exposure and to make sure to protect every radiation source of X-ray radiation, gamma radiation (energetic electromagnetic radiation), radiation of alpha particles (helium atoms) beta particles (electrons) and cosmic radiation, etc.

In order to protect patients, doctors, nurses and other people who may be exposed to radiation, sources of the radiation must be safely separated and shielded. It is crucial that holding and delivery instruments for radioactive materials would keep the radiation levels low enough, not to create harmful effects of ionizing radiation such as breast cancer, skin cancer, etc. Lead and steel are the traditional protection materials, but tungsten alloy radiation shielding is without a doubt the best solution.

### **Excellent radiation-**

absorption, twice the density of lead and good physical resistance are main reasons to use tungsten alloy radiation shielding.

## **Applications of Tungsten Radiation Shielding Equipment**

The usage of tungsten heavy alloy in radiation protection is not subject to NRC, EPA, or special OSHA regulations, so it has been widely used in nuclear medicine as collimator, isotope container, cancer treatment source holder, etc.

- Radioactive Source Containers
- Gamma radiography tungsten alloy radiation shielding
- Tungsten alloy radiation shielding block
- Tungsten alloy radiation shielding source holders for oil well logging
- Tungsten heavy alloy X-ray collimators
- Tungsten alloy PET syringe shield Shielding in cancer therapy machines
- Syringe protection for radioactive injection
- s Tungsten heavy alloy syringe shielding Nuclear shielding wall
- Tungsten Alloy FDG container
- Tungsten heavy alloy inspect welds Nuclear testing equipment
- Nuclear power plant shielding Radiation shielding barrel Isotope production, transport, and containment
- Personal protection equipment for emergency responders
- Large container inspection devices
- Oncology Isotopic and accelerator based platforms
- Pipe-line inspection Gamma
- Defense for nuclear submarines