

SRT-01 SOURCE REPLACEMENT TOOL



MAIN ADVANTAGES

- Fast and safe exchange of radiation sources in various irradiators
- Safe storage of sources near the irradiator
- 4 nests for up to 4 sources
- Transport platform for easy handling
- 2 cameras for monitoring the position of the source
- Remote control

PURPOSE

The SRT-01 Source Replacement Tool is used for safe replacement of ionizing radiation sources in the OG-8 and GI-06 irradiators installed in a calibration laboratory.

SRT-01 set consists of the following parts:

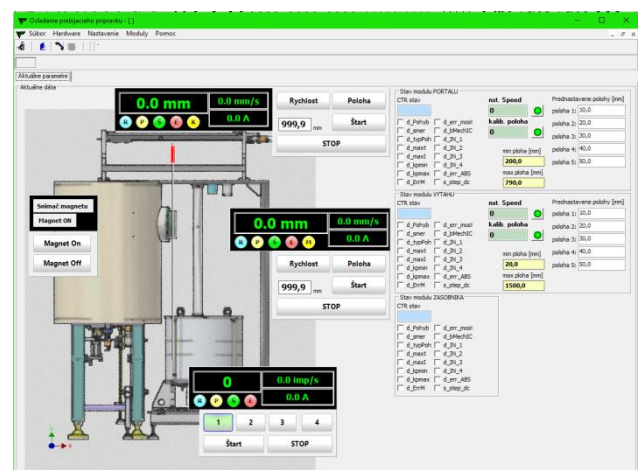
- STC-40 container
- Transport and handling platforms
- Supporting pillar with bearing platform
- 2 cameras
- Portable control box
- Control PC and software

The container STC-40 is used as a temporary safe storage for storing radioactive sources. It consists of 5 stacked annular lead blocks within an outer housing. In the hole in the centre of these blocks is a rotating carousel. There are nests for 4 radiation sources in the carousel. The actual position of the carousel is controlled by sensors and indicated in the control software.

A pallet truck can be used to move the STC-40 container on a transport platform to the irradiation room. Ball bearings on the transport platform allow the container to be manually maneuvered from the transport platform to the handling platform already positioned on the rails next to the irradiator.

During the replacement, the sources can be temporarily stored in two storage compartments on the bearing platform.

The PO-02 B(U) type Transport Container can be used to safely transport the STC-40 shielded container with the sources outside the irradiation room.



Basic window of the control software

SRT-01

SOURCE REPLACEMENT TOOL

SPECIFICATION

Number of sources	max. 4
Maximum activity of one source	
• ⁶⁰ Co	250 GBq
• ¹³⁷ Cs	100 TBq
Maximum total activity for transport of STC-40 in PO-02:	
• ⁶⁰ Co	5,5 TBq
• ¹³⁷ Cs	100 TBq
Dimensions	
• SRT-01 for irradiator OG-8 (W × H × D)	1100 × 2160 × 1435 mm
• SRT-01 for irradiator GI-06 (W × H × D)	1100 × 2066 × 1364 mm
• Container STC-40 (W × H × D)	640 × 652 × 640 mm
• Transport Container PO-02 (W × H × D)	1060 × 1210 × 1360 mm
• Irradiator nest (ø × h)	47 × 101 mm
Weight	
• SRT-01	900 kg
• PO-02	3 200 kg
Power supply	230 V 50 Hz TN-S
Temperature	from 10 to 35 °C
Pressure	from 84 to 106 kPa

RELATED PRODUCTS

GI-06	Gamma Irradiator
OG-8	Gama Irradiator
PO-02	Transport Container



PO-02 Transport Container