VF NUCLEAR

NUCLEAR POWER PLANTS | CALIBRATION LABORATORIES | RESEARCH CENTRES

CB-60

CALIBRATION BENCH

MAIN ADVANTAGES

- Versatility, the ability to calibrate many instrument models from various manufacturers
- Suitable for gamma and neutron calibration laboratories
- Reliable operation and high positioning accuracy
- Safe remote control system
- In-built levelling devices – to compensate for uneven floors

PURPOSE

The CB-60 Calibration Bench is designed to accurately position the instrument undergoing calibration into a beam of ionizing radiation generated by an irradiator in a calibration laboratory. It allows the source-to-instrument distance to be accurately set up to a maximum of 10 meters (optionally even more) so that the instruments, or multiple instruments, are irradiated with a precisely defined radiation value.

The position of the calibrated device in the beam of ionizing radiation can be set in four axes:

- X: distance from the irradiator (source of radiation),
- Y: shift left/right from the center of the beam,
- Z: shift up/down from the center of the beam.
- R: rotation around the Z axis (optional feature)

In the basic design, the bench consists of segmented track with two rails, each segment 1 or 2 m long, a trolley with a control unit, an absolute position sensor for measuring the X-axis position, a worktable for calibrated devices, and a camera for reading data from a calibrated device (optional accessory).

SPECIFICATION

Standard track length	< 10 000 mm
Worktable position accuracy	< 1 mm
Track gauge	600 mm
Bench footprint	600 × 860 mm
Standard radiation beam height	1 500 mm
Horizontal worktable positioning range (Y axis)	± 300 mm
Vertical worktable positioning range (Z axis)	from 0 mm to - 300 mm
Worktable load capacity	50 kg
Power supply	230 / 110 V AC
Communication interface	Ethernet

OPTIONAL FEATURES[1]

Track segments 1 or 2 m long
Covering metal sheets for trackage
Individually motorized axes
A rotary worktable base (rotation around the Z axis)

[1] Optional features must be specified before ordering

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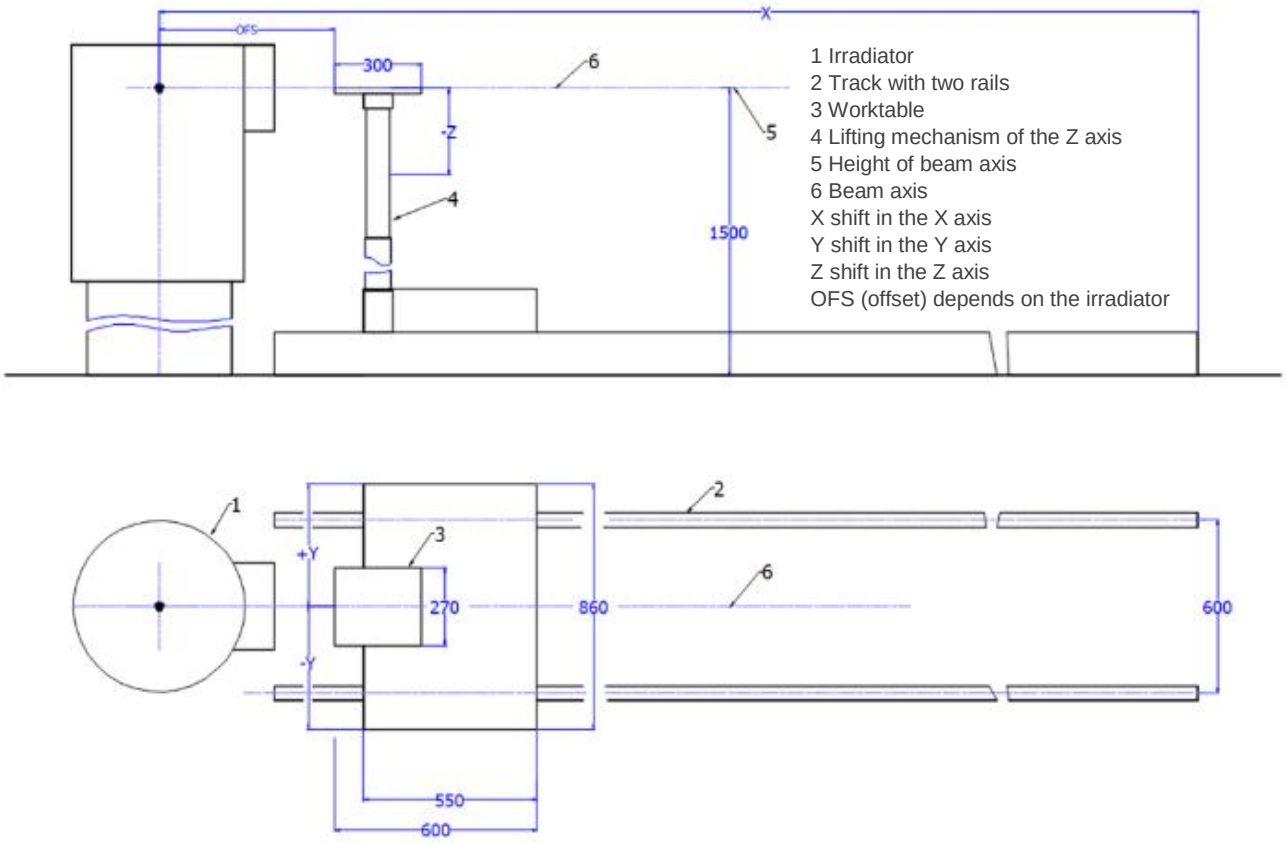
OPTIONAL ACCESSORIES

Holders for individual calibrated device
Local controller
A laser positioning system
A power supply system for calibrated devices
A camera for reading data from a calibrated device
A monitor facilitating the camera adjustment
A calibrated device's data read off system (integrated rate meters)
A calibrated device's data read off system (digital interfaces)
An independent mechanical / visual trolley position check
Sensors of environmental parameters in the calibration room (temperature, pressure, humidity)

RELATED PRODUCTS

OG-8	Gamma irradiator
GI-01H	Gamma irradiator
GI-01L	Gamma irradiator
GI-02	Gamma irradiator
GI-06	Gamma irradiator
GI-07	Gamma irradiator
IG-13	Gamma irradiator
NI-01	Neutron irradiator
DARS	Data and Control System for the calibration laboratory



Note: The dimensions are for information purposes only. For detailed or modified dimensions, please contact the manufacturer.

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