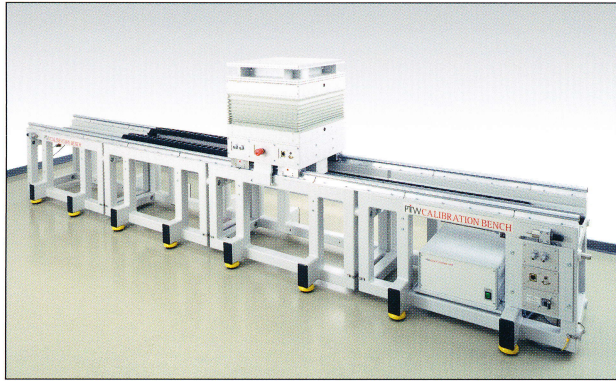


CALIBRATION BENCH



Steel bench with carriage for precise calibration of doseimeters used for ionizing radiation measurement

Features

- ▶ Positions radiation detectors very accurately for calibration
- ▶ High quality, stable and precise steel construction
- ▶ Individually adjustable supports make the bench installation independent of floor conditions on site

The CALIBRATION BENCH is typically a part of a complete calibration facility which can be delivered by PTW with many options as a turn key project.

The high precision CALIBRATION BENCH is designed as a very stable steel construction used for accurate positioning of radiation detectors by remote control with a stepper motor or manual movement for radiological calibration at various distances from a radiation source.

The basic module of 2 m length can be expanded flexibly with extension modules of 1 m length. Each bench module is supplied with four stable supports for individual height adjustment, two at each side with 500 mm distance. Thus the exact adjustment of the entire bench is independent of floor conditions on site.

The remote controlled bench is driven by a control unit with a TCP/IP interface. The BENCH CONTROL UNIT has an option for temperature and pressure measurement with software readout. Two temperature sensors can be used for accurate measurement at monitor chamber and probe position. The software BenchControl controls the motorized bench, shutter, filter wheel, electrometer and read out temperature and pressure. An implemented batch mode allows an automatic calibration work flow.

The carriage runs on rigid cylindrical steel rails and is supplied with special bearings to provide for high precision positioning. The resolution of the positioning is 1 mm. A stainless steel plate with a close-knit grid of thread holes makes it easy to fix the detectors on the platform for calibration.

The carriage has two options for vertical and horizontal movements. Both options are designed for manual adjustment of the carrier platform. The external dimensions of the platform are 500 mm x 500 mm.

- ▶ The Calibration Bench height control option enables the user to carry out detector platform height adjustments in the moving range of ± 100 mm.
- ▶ The Calibration Bench horizontal control option enables the user to carry out one-dimensional horizontal adjustments of the detector platform in the moving range of ± 50 mm from central position in x- or y-directions. If the platform is intended to be adjustable in both horizontal directions x and y, two of the horizontal control options can be stacked.

Optional connection modules for dosimetry connecting system M, BNT or TNC are available and an interface connection module with TCP/IP, RS232 and temperature sensor connectors at the carriage.

Ordering Information

L981282-X CALIBRATION BENCH, manual controlled
L981283-X CALIBRATION BENCH, software controlled
Where X is the length in full meters

Bench Options

L981284 Connection module for connecting system M
L981285 Connection module for connecting system BNT
L981286 Connection module for connecting system TNC
T90003 CALIBRATION BENCH height control option
T90004 CALIBRATION BENCH horizontal control option

Monitoring Systems for Laboratories and Accessories

T90020 LASER ALIGNMENT System
L981291 TCP/IP camera monitoring system
L981111 LABGUARD surveillance system

Project Management and Installation

E16001 CALIBRATION BENCH installation
E16002 Customized project management

Other Options on request

- ▶ X-ray accessories *page 144*
- ▶ UNIDOS^{weblin}e *pages 13 and 138*
- ▶ UniSoft edition 2000 *page 22*