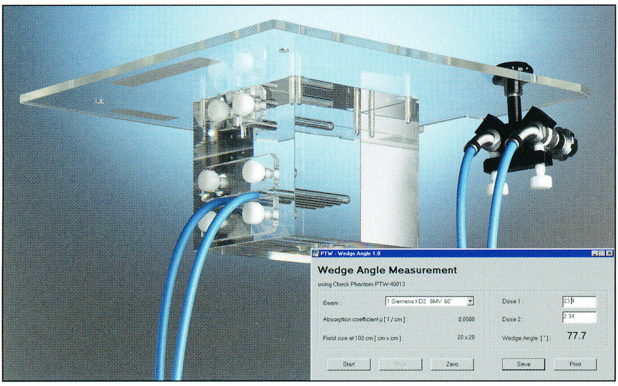
WEDGECHECK® Wedge Angle Test Device



Acrylic block with gantry holding plate including software for LINAC wedge angle determination

Features

- Makes it possible to determine wedge angles of dynamic (virtual) and mechanical wedges fast and easy
- Complies with IEC 60976
- Requires only a dual chamber dose measurement
- Mounts to the LINAC accessory tray
- Includes WedgeAngle software

Since the wedge angle of wedge filters is defined according to IEC 60976 by the 50 % isodose, usually an isodose measurement with an automatic 3D water phantom is required for wedge angle determination. WEDGECHECK[1] only requires the measurement of two off-axis dose values, either simultaneously or in two runs. 0.125 cm^3 chambers model 31002/31010 are placed into holes of a solid acrylic phantom at a measuring depth of 87 mm. The acrylic block is mounted to an acrylic plate, which fits into the accessory tray of the accelerator. The type of the accelerator has to be specified to provide for the appropriate adapter plate. Both chamber connectors can be fixed by a clamp mounted to the adapter plate.

The WedgeAngle software calculates the wedge angle with an accuracy of ± 1 % based on the beam quality and both dose values. The dose values may be keyed in, or they are automatically recorded via the serial interface of the dual channel dosemeter MULTIDOS or TANDEM.

[1] The procedures and algorithms on which WEDGECHECK is based have been developed by Ernst-Ludwig Schmidt and Jürgen Rittler, Westpfalz-Klinikum Kaiserslautern, Germany.

Ordering Information

T40013 WEDGECHECK Test device and software

- Semiflex Ionization Chambers *page 16*
- MULTIDOS Multi Channel Dosemeter *page 32*
- TANDEM Dual Channel Electrometer *page 14*