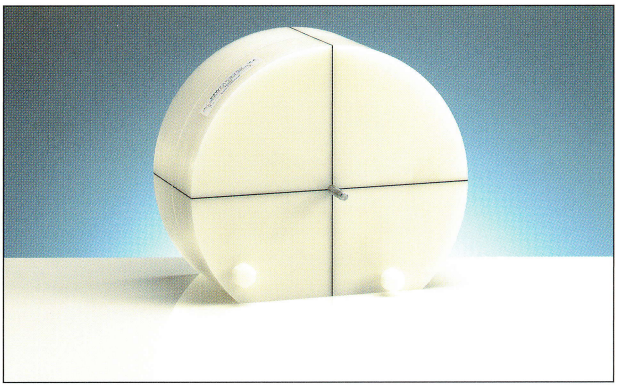
ISOCHECK
Isocenter Test Device



Film phantom for checks of the LINAC isocenter geometry

Features

- Checks the size and position of the isocenter sphere
- Checks the conformity of the mechanical and the radiation isocenter
- Line marks and crosshairs for LASER adjustment on the table-top

The ISOCHECK test object consists of two cylindrical POM plates, each of 20 cm in diameter and 5 cm in thickness with a segment cut away to form a base. Both plates have circumferential line marks and front side crosshairs to perform easy adjustment by means of the LASER beams. The LASERs should be adjusted to the mechanical rotation axis of the accelerator gantry. An X-ray film, packed in an opaque envelope, is put between the plates and fixed by means of plastic screws. The mechanical isocenter is marked by a needle on the test film through the hole in the center of the test object. Then the test object and the film are irradiated by pencil beams under various angles of incidence. The developed film shows the pencil beams, indicating the location and size of the radiation isocenter, as well as the position of the mechanical isocenter, identified by the needle mark.

Ordering Information

T42004 ISOCHECK Test object and needle