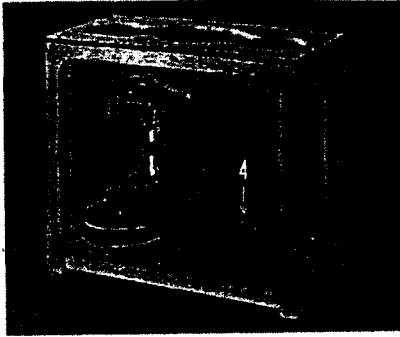


2.5 Generic twin phantom



The generic twin phantom is a fiberglass shell phantom with 2 mm shell thickness. It has three measurement areas:

- Left hand
- Right hand
- Flat phantom

The phantom table comes in two sizes: A 100x50x85 cm (LxWxH) table for use with free standing robots or as a second phantom and a 100x75x85 cm (LxWxH) table with reinforcements for table mounted robots.

The bottom plate contains three pair of bolts for locking the device holder. The device holder positions are adjusted to the standard measurement positions in the three sections. Only one device holder is necessary if two phantoms are used (e.g., for different solutions).

A white cover is provided to tap the phantom during off-periods to prevent water evaporation and changes in the liquid parameters. Free space scans of devices on the cover are possible; however the optical surface detector is not working properly at the cover surface. Place a white paper on the cover when using optical surface detection.

On the phantom top, three reference markers are provided to identify the phantom position with respect to the robot (see [RG: 2.7 Installing the Generic Twin Phantom](#)).

The phantom can be used with the following tissue simulating liquids:

- Water-sugar solutions can be left permanently in the phantom. Always cover the liquid if the system is not in use, otherwise the parameters will change due to water evaporation.
- Glycol solutions should be used with care. As glycol is a softener for most plastics, the solution should be taken out of the phantom and the phantom should be dried when the system is not used (also overnight!). A test has shown a slight coloring of the inner surface after 3 months of continuously being filled with 1.8 GHz Glycol solution.
- Do not use other organic solvents without previously testing the phantom resistiveness.