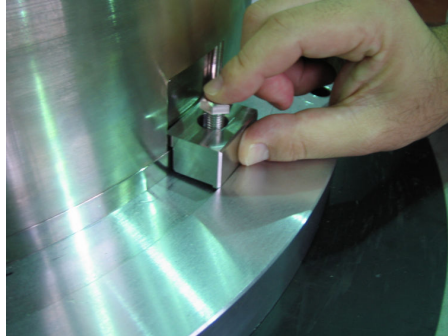
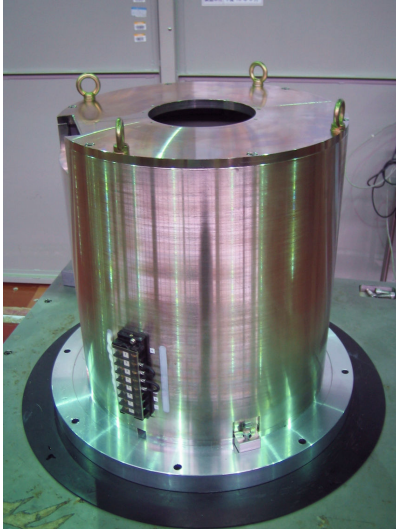
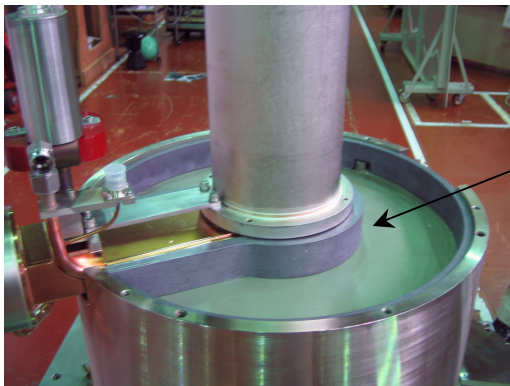


Installation Procedure of the Klystron tube E3772A

1. Put the focusing magnet on the oil tank. Fix the magnet to the oil tank by using four clamps.

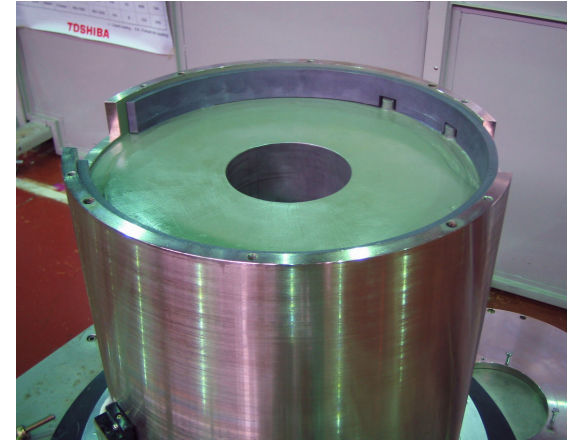


3. Lift up the tube from the hanging part on the collector and carry the tube over the center of the magnet hole. Insert the tube into the focusing magnet. In this case, pay attention to the position of the tube and the focusing magnet. It is necessary to set the phase between the position of the output waveguide and the cut part of the focusing magnet.

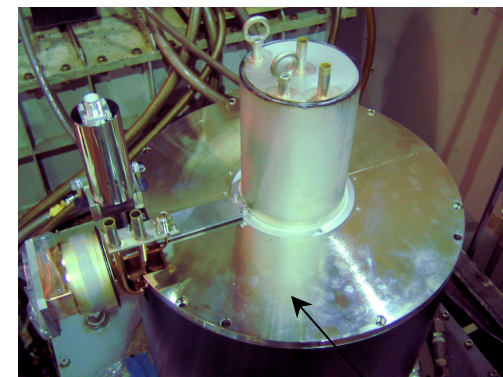


Set the X-ray shield

2. Remove the upper flange (divided to two) of the focusing magnet. Remove the flange before inserting the tube into the magnet since the tube cannot be inserted.



4. Set the upper flange of the focusing magnet after inserting the tube. In this case, confirm the flatness between the pole piece of the tube and the upper surface of the focusing magnet.

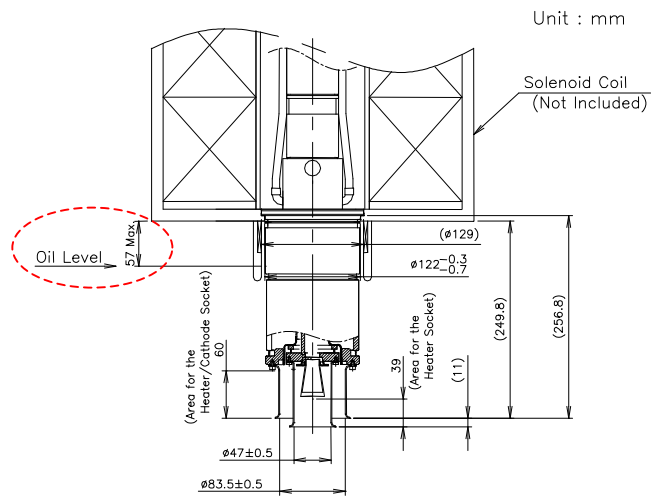


Set the upper flange

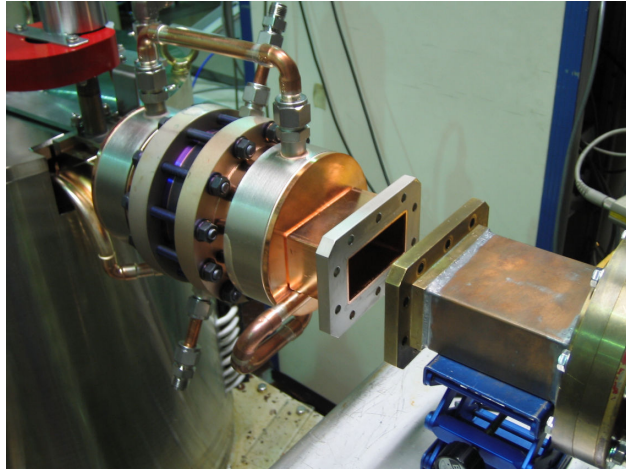
5. Set the X-ray shielding kit on the collector. Connect the coolant circuit for the collector before setting the top part of the X-ray shielding kit.



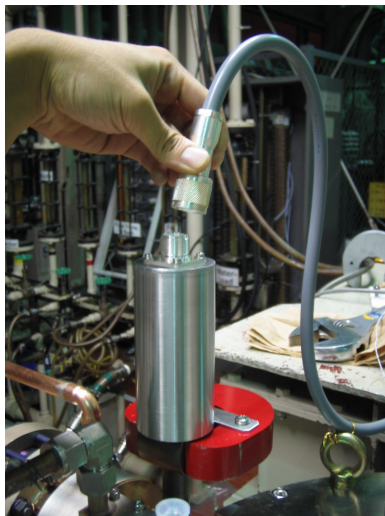
6. Make sure that the level of the insulation oil is higher than the regulated level.



7. Remove the cover of the output flange on the tube and connect it with output circuit. In this case, take care of not applying excessive force to the output waveguide of the tube. Furthermore, make sure that there is no dust and stain in the waveguide that cause discharge or deterioration of vacuum. Put a contactor between the flanges since it is necessary that both flanges contact each other electrically. Make sure no leakage on the joint part of the flanges since inside of the waveguide should be pressurized by SF_6 gas.



9. Connect the ion pump to the power supply. After connecting, confirm that the current of the ion pump is less than 10 microamperes. If the tube is not used for long time, the current of the ion pump may be several tens of microamperes. In this case, wait a minutes and then confirm that the current of the ion pump is decreased to be less than 10 microamperes.



8. Connect a cable to RF input.



10. Connect coolant circuit to the tube and the focusing magnet.

11. Wire the electrical terminal of the focusing magnet. The electrical terminal is at the side of the focusing magnet.

