RADIATION PRODUCTS DESIGN

Rotational Total Body Irradiation (TBI) Stand
Item #'s 495-605 & 495-609

ROTATIONAL TOTAL BODY IRRADIATION STAND

Phone: 800-497-2071 or 763-497-2071 **Fax:** 763-497-2295 **Email:** sales@rpdinc.com
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RADIATION PRODUCTS DESIGN

Top Brace Bar
Part # 495-600-09

Lock Pins (Qty. 4)
Part # 71-TL092EG

Rotational Hand Rail Assembly
Part # 495-605-49

Right Caster “T” Leg
Part # 495-605-08

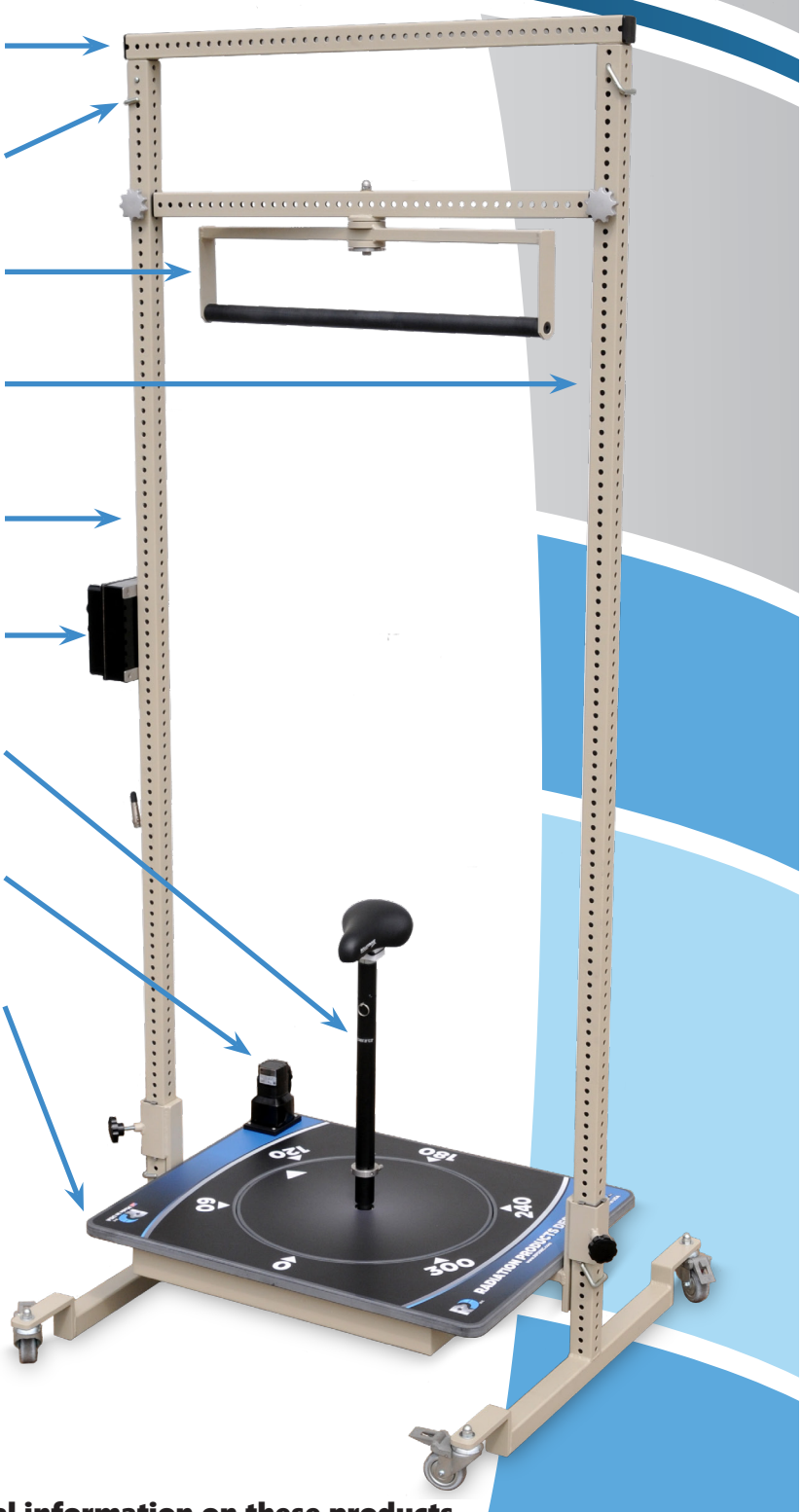
Left Caster “T” Leg
Part # 495-605-09

Motor Speed Control Box - 3 to 6 RPM
Part # 495-605-59

Seat Post Clamp Assembly - 26” to 32”
Part # 495-600-94

Rotation Motor Easy Removable
Part # 495-605-57

Adjustable Rotating Platform
Part # 495-605-29



NOT SHOWN:

Hanger for Beam Spoilers (Qty. 2)
Part # 495-600-80

Remote Control with 75’ (22.9m) Cable
Part # 495-605-56

220-240VAC to 120VAC Transformer
Item # 495-609 only

See website for additional information on these products

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Item # 495-605:
Rotational Total Body Irridation Stand 120 VAC

Item # 495-609:
Rotational Total Body Irridation Stand 240 VAC

Stand Dimensions

Overall Size (W x D x H)	44" x 43 1/4" x 110"	13.41m x 13.18m x 33.53m
Platform Size (W x D)	38" x 31"	11.58m x 9.45m
Rotating Area	22" Diameter	6.71m Diameter
Shipping Weight	485 Lbs	220kg

Parts Listing

Item #	Quantity	Description
495-605-08	1	Caster "T" Leg - Right Side
495-605-09	1	Caster "T" Leg - Left Side with Keyholes
495-600-09	1	Top Brace Bar w/(2) Locking Pins
495-605-29	1	Adjustable Rotating Platform
495-605-57	1	Rotation Motor w/(4) Screws
495-605-59	1	Motor Speed Control
495-605-56	1	ON/OFF Rotation Remote Control Cable, 75'
495-600-94	1	Seat Post Clamp Assembly - 26" to 32"
495-605-49	1	Rotational Hand Rail Assembly
71-TL092EG	4	Locking Pin
495-609	1	Auto Transformer 240VAC to 120VAC (495-609 only)
495-605-57	1	Motor Assembly Easy Removable
495-605-29	1	Adjustable Rotating Platform
495-600-80	2	Hanger for Beam Spoilers

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Assembly Instructions


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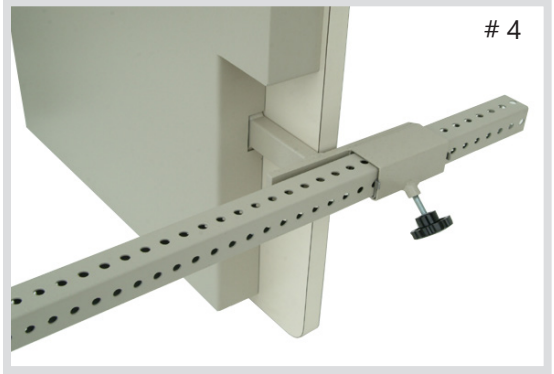
1. Lay the caster “T” legs on the floor in correct left and right position. The left caster “T” leg has key holes to the outside for mounting the motor speed controller.
2. Hold the adjustable rotating platform assembly vertical with zero “0” towards the floor.
3. Remove tape that is securing locking clamp from inside of leg holes. Place locking clamp against corner with knob (#3).
4. Slide left caster “T” leg through the leg hole on the adjustable rotating platform assembly. Check that the locking clamp is in corner with knob.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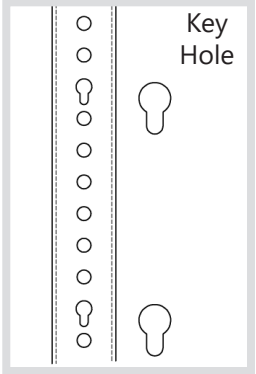
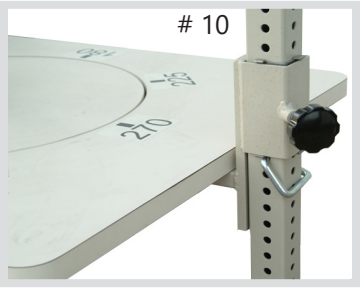



6a


6b

5. Repeat for right caster “T” leg.
6. Slide the top brace bar into the top of the caster “T” legs (# 6a) and secure with locking pin (Item # 71-TL092EG) (# 6b).
7. Slide the adjustable rotating platform to bottom of posts. Lock in place by tightening knobs.
8. Lock all four casters.
9. Lift the stand into vertical position.
10. Loosen the adjustable rotating platform knobs and lift the adjustable rotating platform up 12” and retighten knobs. Insert locking pins (Item # 71-TL092EG) into holes at the same height on both caster “T” legs (# 10). Loosen knobs and allow adjustable rotating platform to rest on locking pins then retighten knobs. The platform is now secure to walk on.



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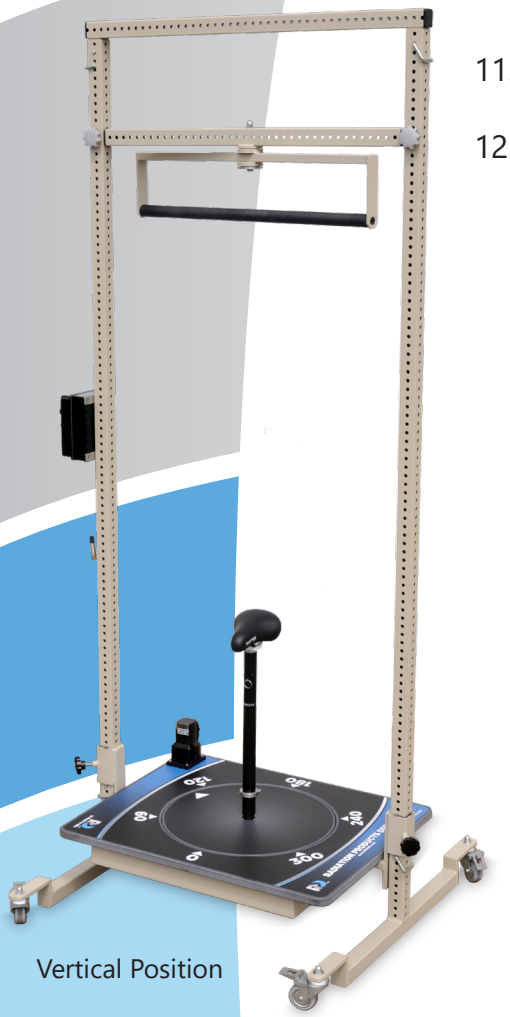
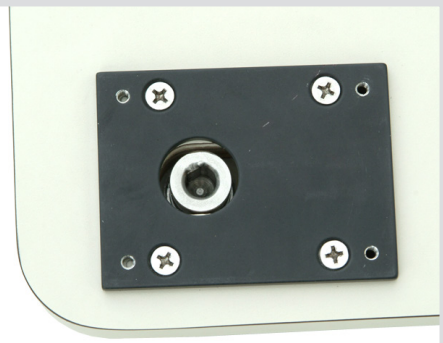
With Stand in Vertical Position



Vertical Position

11. Hang motor speed controller in the two slotted key holes on the left caster "T" leg.
12. Install the rotation motor into the drive plate (12a). Rotate the rotation motor around until the shaft lines up in the D-shaped slot. Secure with the four screws. Connect the cable from the motor speed controller to the rotation motor by aligning the white dots on the connectors and then rotate the coupling to tighten (12 b).

11



12a | Drive Plate

13. Connect ON/OFF Rotation Remote Control Cable (13a) to the motor speed controller.

#13 a

Rotation Motor

12b

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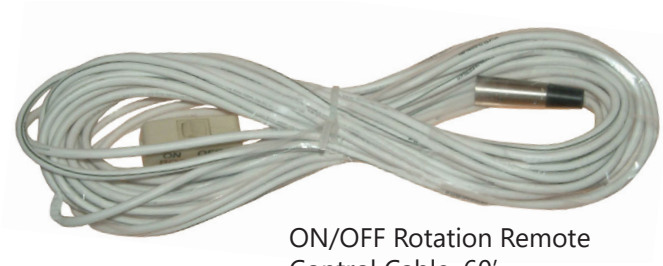
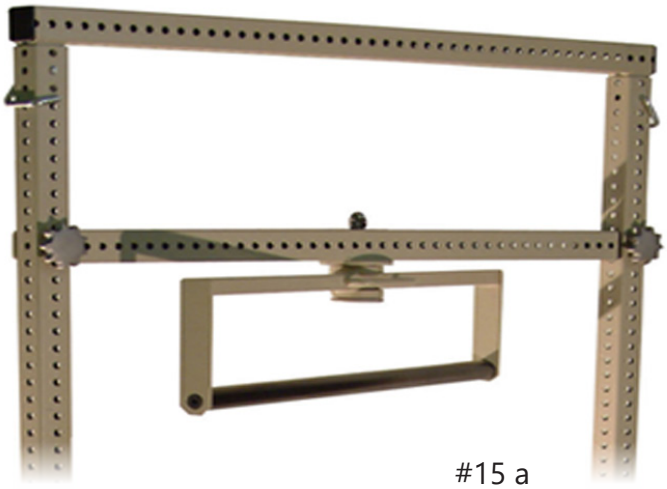


ON/OFF Rotation Remote Control Cable, 60’
Item # 495-605-51

Switch on Remote Control Cable

14. Install the selected seat post, which is determined by the patient’s inseam Short Post- 26”-32” Inseam Long Post- 32”-38” Inseam
15. Install rotational hand rail assembly (# 15a). Use the same height hole on each caster “T” leg. Insert the knob with shaft from the front into the threaded holes in the support bar. Insert the safety lock pin into the hole at end of shaft (# 15b).



#15 a

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Rotational Total Body Irradiation (TBI) Stand
Item #'s 495-605 & 495-609

1. To determine the adjustable rotating platform height from floor, first determine the isocenter distance from the floor then subtract 1/2 of the patient's height from that.
   Example: The isocenter height from the floor is 130 cm and the patient's height is 178 cm. Therefore, 130 cm (isocenter height) minus 89 cm (1/2 patient height) equals 41 cm (adjustable rotating platform height from floor)
2. To set the adjustable rotating platform to the desired height: Raise the adjustable rotating platform to the determined height, (from # 1).tighten the knobs, insert the locking pins under the adjustable rotating platform, loosen the knobs, lower the adjustable rotating platform to rest on the locking pins, then tighten knobs again. The locking pins will prevent the adjustable rotating platform from dropping.
3. Determine which seat post is needed by the patient's leg inseam, the short seat post accommodates a 26" to 32" inseam, the long seat post accommodates a 32" to 38" inseam. Put the seat rotation clamp (Item # 495-600-35) on the seat post to be used and insert the seat post assembly into the hole in the adjustable rotating platform. Rotate the seat post until notch locks into place.
4. Insert the seat into the seat post, and then raise the seat until it is at the correct height for the patient's inseam. Insert the seat height locking pin into the seat post. Rotate the seat and post to align with the heavy line on the adjustable rotating platform. Lock the seat position by tightening the seat rotation clamp
   (Item # 495-600-35) at the bottom of the seat post.
6. To determine the rotational hand rail assembly placement: raise the patient's hands above their head to the desired height and measure the distance from the adjustable rotating platform to the palm of the hands. Then add 9" to account for the rotational hand rail assembly. The rotational hand rail assembly should be placed at the total height found by adding the height of the patient's raised hands and 9" for the rotational hand rail assembly. Mount rotational hand rail assembly to left and right caster "T" legs by using the mounting holes at the calculated height.
   Example: 77" (palm of hand height) plus 9" (rotational hand rail assembly) equals 86" (mounting height).
7. Optional: Safety Harness, Item # 495-6066
8. Optional: Tungsten Eye Shields, Item # 936-583 to 936-627
9. Optional: Electron Flattening Filter, Item # 495-603. If this item is

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being used for treatment it must also be used for isodose curve exposure.

10. Optional: Wedge tray scale for Isodose curves Item # 495-604
11. Isodose curves can be produced by setting the machine treatment parameters and taping numbered ready-pack films to the wall that the beam is directed towards. Mark and number the wall locations to match each film and mark the cross hair on the center ready-pack film, then expose to radiation. Make sure all films are marked and numbered before removing from the wall for density readings. Do density readings on all films and mark the isodose lines on each film. Transfer the isodose lines on each film to the corresponding film jacket and mount the film jackets in correctly numbered positions back on the wall. Use the optional wedge tray scale and place in wedge slot. Set machine treatment parameters then transfer isodose lines from the film jackets to the wedge tray scale.
12. Optional: Beam Spoiler with adjustable hangers, Item # 495-608.
13. Optional: Electric Heater, 1500 / 750 watts, 12.5 / 6.25 Amps, 120VAC, Item # 495-607
14. To Test Adjustable Rotating Platform RPM
    Disconnect ON/OFF Rotation Remote Control Cable from the Motor Speed Controller
    A. Turn power switch on motor speed controller to "OFF"
    B. Plug motor speed controller into 120 VAC wall outlet
    C. Set speed to 3 RPM on motor speed controller
    D. Set center knob on the motor speed controller to "Break"
    E. Turn motor speed controller power switch to "ON"
    F. Set center knob to "Forward" (Adjustable Rotating Platform will rotate clockwise)
    Note: There is a 4 second delay before adjustable rotating platform starts to rotate and will ramp up to speed in 30-40 degrees of rotation.
    G. Speed and rotation can be checked in this mode.
    H. Setting center knob to "Break" will stop the rotation immediately.
    I. Rotate center knob to "Forward", allow adjustable rotating platform to rotate to 270 degrees then rotate switch to "Break". Adjustable rotating platform line should stop at 270 degrees
    J. Turn motor speed controller power switch to "OFF".

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15. For Treatment
Connect the ON/OFF Rotation Remote Control Cable to the Motor Speed Controller
    A. Turn rotation remote control cable switch to "OFF".
    B. Turn motor speed controller power switch to "OFF".
    C. Plug motor speed controller into 120 VAC wall outlet or 120 VAC outlet in the 240VAC Transformer Receptical
    D. Speed was preset to determined RPM when rotation was checked in step 14-C.
    E. Set center knob to "Forward" on motor speed controller (adjustable rotating platform will rotate clockwise).
    F. Turn motor speed controller power switch "ON"
    G. Use step stool for patient to get onto the adjustable rotating platform.
    H. Adjust seat height.
    I. Adjust overhead rotational hand rail assembly.
    J. If used, adjust optional safety harness, check quick release, latch and belt tightening.
    K. Do a test run with the patient without using eye shields.
    L. Insert Tungsten Eye Shields, Items # 936-583 - 627. Follow the instruction provided with the eye shields.
    M. Start rotation on adjustable rotating platform with the heavy line set to 270 degrees.
    N. Take ON/OFF remote control cable switch to the control area. Switch is set to "OFF".
    O. Set dose rate, rate per minute and mechanical timer. Start accelerator in stand-by.
    P. Start rotation by pressing the rotation remote control switch to "ON" Rotation will start in 4 sec and ramp up to speed in 30 to 40 degrees. When adjustable rotating platform line reaches "0" start treatment.
    Q. Count the rotations during treatment. Treatment should start and stop with complete rotation(s) starting at "0". After treatment is complete, switch rotation remote control cable switch to "OFF". Patient rotation will slow down to a stop in 90 degrees of rotation.
    R. Remove patient hands from rotational hand rail assembly, remove tungsten eye shields, release clasp on safety harness, remove patient from adjustable rotating platform, and remove safety harness.

#15-C

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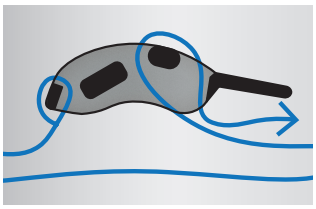
RADIATION PRODUCTS DESIGN

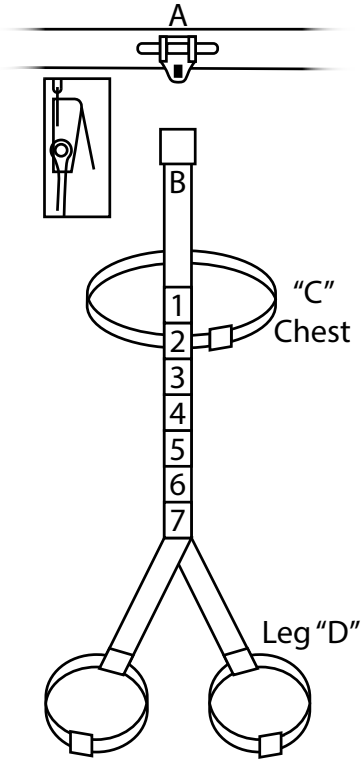
1. Zero (“0”) on the platform is the front of the Rotational TBI Stand.
2. Install the two Beam Spoiler supports spaced at 22” apart on the front side of the top brace using the long lock pins (Item # 71-TL094EG).
3. Slide two adjustable Beam Spoiler hangers over the beam spoiler supports. Use the long lock pins (Item # 71-TL094EG) to secure the adjustable beam spoiler hangers.
4. Hang Beam Spoiler plate over shoulder bolts on the spoiler hangers using the key hole slots in the Beam Spoiler plate.
5. Adjust Beam Spoiler plate In/Out for proper distance from patient.

Instructions for Item 495-6066 TBI Rotational Stand Harness



Harness can also be worn reversed with the vertical strap and buckles in front when treating the back

Note: The folded face of the stitched should be facing away from the patients skin to avoid chafing



1. Connect Hanging Clip (A) to TBI rotating hand rail steel handle
2. Connect Leg Straps (D) through the two loops on the bottom of the Vertical Strap (B), snug up, and drape Vertical Strap (B) over shoulder
3. Feed the Chest Strap (C) through the Vertical Strap (B) in the loop corresponding to the patient’s underarm height and snug with the buckle behind the patient
4. Patient then stands on TBI platform
5. Connect the Vertical Strap (B) to the Hanging Clip (A) then tighten so the patient will remain in an upright position
6. Check that all belts are comfortable to patient, try to keep buckles out of radiation field

Cleaning Instructions:
The item can be cleaned by hand using a cloth dampened with a mild detergent dissolved in water. For stubborn spots, use a brush and the solution. Allow material to air dry before re-use.
DO NOT SOAK MATERIAL

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