

Operating Manual for  
**SUPPORT JACKS**



# Support Jack Operating Manual

## 1. OPERATING/ SAFETY LIMITS

---

- Operators using support jacks should use caution and follow all appropriate laboratory safety guidelines during operation, including wearing proper protective clothing, goggles, and gloves. Additionally, all safety precautions for apparatus, vessels, and reagents to be placed on support jacks should be followed.
- Never exceed the maximum load capacity of the support jack. Please refer to the chart in "Ordering Information" for the maximum capacity of your support jack
- Jacks must be placed on a level, stable surface capable of safely supporting the combined mass of the jack and its load before use.
- Always raise or lower support jack deck to desired height prior to placing a load on the support jack. Loads that are on the support jack while it is moving can become unstable and cause severe injury.
- Loads should be placed squarely in the center of the support jack's deck. Improperly placed loads can become unstable and cause severe injury.
- Operators should never force the lift mechanism or place hands, other body parts, or anything else inside the lift mechanism of the support jacks.
- Never stand on support jacks.
- Never attempt to operate support jack after disassembling it.
- The area of the base of any apparatus placed on the support jack should be no larger than the area of the deck.
- Never expose support jacks to operating temperatures greater than 130°C.
- Use care with Maxi-Lift jacks to ensure stability of base and load when elevated.
- Confirm chemical compatibility of the materials of construction of the support jack with anticipated exposure prior to use.

# Support Jack Operating Manual

## 7. ORDERING INFORMATION

---

*These products may be ordered from leading laboratory suppliers by requesting the BrandTech catalog number.*

### **STAINLESS STEEL**

<u>Size</u>	<u>Max. Ht</u>	<u>Min. Ht</u>	<u>Max. Load</u>	
Plate, L x W [in., (cm)]	in. (cm)	in. (cm)	lbs. (kg)	Cat. No.
3.9 x 3.9 (10 x 10)	4.7 (12)	2.0 (5.08)	22 (10)	B11115
6.3 x 5.1 (16 x 13)	10.8 (27.5)	2.25 (5.72)	44 (20)	B11120
7.9 x 7.9 (20 x 20)	10.8 (27.5)	2.25 (5.72)	44 (20)	B11130
9.4 x 9.4 (24 x 24)	10.8 (27.5)	2.25 (5.72)	44 (20)	B11140
11.8 x 11.8 (30 x 30)	18.5 (47)	3.50 (8.89)	176 (80)	B11180
15.7 x 15.7 (40 x 40)	18.5 (47)	3.50 (8.89)	176 (80)	B11190

### **MAXI-LIFT STAINLESS STEEL**

<u>Size</u>	<u>Max. Ht</u>	<u>Min. Ht</u>	<u>Max. Load</u>	
Plate, L x W [in., (cm)]	in. (cm)	in. (cm)	lbs. (kg)	Cat. No.
6.3 x 5.1 (16 x 13)	15.7 (40)	3.0 (7.5)	44 (20)	B11122
7.9 x 7.9 (20 x 20)	15.7 (40)	3.0 (7.5)	44 (20)	B11132

[continued on back]

# Support Jack Operating Manual

## 6. MAINTENANCE

---

Stainless steel support jacks are constructed from Type 304 stainless steel and PTFE for long life, even in corrosive environments.

Anodized aluminum support jacks (blue models) feature the same 304 stainless steel/PTFE lift mechanism as the stainless steel jacks, but feature decks and bases constructed of anodized aluminum for economy or different chemical compatibility.

Epoxy-coated aluminum support jacks (green models) feature the same 304 stainless steel/PTFE lift mechanism as the stainless steel jacks, but feature decks and bases constructed of epoxy powder-coated aluminum for economy or different chemical compatibility.

To ensure optimal performance from your support jack, please adhere to the following guidelines.

- Clean support jacks as necessary with a mixture of warm water and any standard household or laboratory stainless steel cleanser, such as Mucasal® lab detergent\*. support jacks should be cleaned prior to autoclaving. After cleaning or autoclaving, always apply a light coat of any standard household lubricant to the lift-screw.
- Always wipe off any chemicals spilled on support jacks as quickly as possible.
- Never clean your support jack with an iron brush or pad. This can damage the surface, and increase risk of corrosion.
- Avoid exposure of your support jack to chemicals incompatible with the materials of construction. Clean promptly after any exposure to incompatible chemicals to minimize damage.
- Because the rollers are manufactured from PTFE, immediately clean up any spills of reagents that may react adversely with PTFE.

\* For more information on Mucasal® lab detergent, contact BrandTech Scientific at 888-522-2726.

# Support Jack Operating Manual

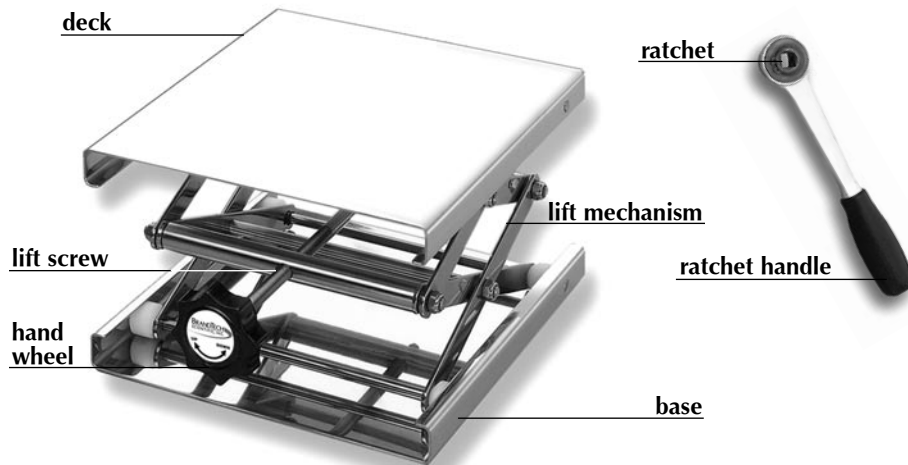
## 2. APPLICATION

---

These adjustable lab supports are designed for raising and lowering scientific apparatus. Stainless steel support jacks are resistant to sanitizing agents, are autoclavable, and may be used in corrosive environments, including fume hoods and solution-baths. Jacks with anodized aluminum or epoxy-coated aluminum deck and base have different chemical compatibilities, and should be used only in appropriate environments. Please follow the operating instructions for safe use.

## 3. COMPONENTS

---



# Support Jack Operating Manual

## 4. OPERATING INSTRUCTIONS

---

### 4.1 Raising the Deck

- a) Place support jack on a level, sturdy surface.
- b) Turn handwheel clockwise until deck is at desired height.
- c) Place load on deck while following all applicable safety precautions.

### 4.2 Lowering the Deck

- a) Remove any items that may be on deck or between deck and baseplate while following all appropriate safety precautions.
- b) Turn handwheel counter-clockwise until deck is at desired height or completely lowered.

For larger decks using ratcheting handle, see special instructions in section 5 of this manual.

# Support Jack Operating Manual

## 5. OPERATION OF OPTIONAL RATCHETING SUPPORT JACK HANDLE

---

**Note:** *The optional ratcheting support jack handle may only be used with support jacks measuring 30 x 30cm (BrandTech Cat. Nos. B11180, B11081 and B11080) or 40 x 40cm (BrandTech Cat. Nos. B11190, B11091 and B11090).*

### 5.1 Raising the Deck

- a) Following all pertinent safety precautions, place entire support jack on level, sturdy surface.
- b) With the lettering on the handle facing away from the support jack, slide opening of ratcheting handle over the metal lift screw protruding from the handwheel, with handle extending to the right.
- c) Lift handle 45°, then press down, turning handle clockwise and repeating process until deck is at desired height.
- d) Place load on deck while following all applicable safety precautions.

### 5.2 Lowering the Deck

- a) Remove any items that may be on deck or between deck and baseplate while following all appropriate safety precautions.
- b) With the lettering on the handle facing towards the support jack, slide opening of ratcheting handle over the metal lift screw protruding from the handwheel, with handle extending to the left.
- c) Lift handle 45°, then press down, turning handle counterclockwise, and repeating process until deck is at desired height or completely lowered.

**ANODIZED ALUMINUM**

<u>Size</u>	<u>Max. Ht</u>		<u>Min. Ht</u>		<u>Max. Load</u>		
Plate, L x W [in., (cm)]	in.	(cm)	in.	(cm)	lbs.	(kg)	Cat. No.
3.9 x 3.9 (10 x 10)	4.7	(12)	2.0	(5.08)	22	(10)	B11016
6.3 x 5.1 (16 x 13)	10.8	(27.5)	2.25	(5.72)	44	(20)	B11021
7.9 x 7.9 (20 x 20)	10.8	(27.5)	2.25	(5.72)	44	(20)	B11031
9.4 x 9.4 (24 x 24)	10.8	(27.5)	2.25	(5.72)	44	(20)	B11041
11.8 x 11.8 (30 x 30)	18.5	(47)	3.50	(8.89)	176	(80)	B11081
15.7 x 15.7 (40 x 40)	18.5	(47)	3.50	(8.89)	176	(80)	B11091

**EPOXY POWDER COATED ALUMINUM**

<u>Size</u>	<u>Max. Ht</u>		<u>Min. Ht</u>		<u>Max. Load</u>		
Plate, L x W [in., (cm)]	in.	(cm)	in.	(cm)	lbs.	(kg)	Cat. No.
3.9 x 3.9 (10 x 10)	4.7	(12)	2.0	(5.08)	22	(10)	B11015
6.3 x 5.1 (16 x 13)	10.8	(27.5)	2.25	(5.72)	44	(20)	B11020
7.9 x 7.9 (20 x 20)	10.8	(27.5)	2.25	(5.72)	44	(20)	B11030
9.4 x 9.4 (24 x 24)	10.8	(27.5)	2.25	(5.72)	44	(20)	B11040
11.8 x 11.8 (30 x 30)	18.5	(47)	3.50	(8.89)	176	(80)	B11080
15.7 x 15.7 (40 x 40)	18.5	(47)	3.50	(8.89)	176	(80)	B11090

Optional ratchet wrench for 30cm x 30cm and 40cm x 40cm support jacks B11089

---