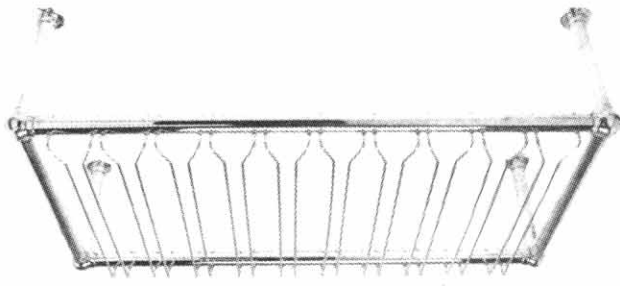


TSM

TUBULAR SPECIALTIES MFG., INC.

13011 S. SPRING ST., LOS ANGELES, CA 90061-1685 • 213/515-4801 TOLL FREE 800/421-2961 CA ONLY 800/521-7548
DESIGNER SERVICE: 7:00 A.M. TO 5:00 P.M. PACIFIC TIME • TELEX II: 910-346-6362 • FAX: 213/217-0653

447



BRASS STEMWARE RACK



DESIGN CONSIDERATIONS

- In addition to the standard design of model BH-447, TSM can fabricate brass wine racks to custom configurations, including radii of 12" (305mm) or larger. Applications include restaurant and hotel bars and residential.
- The natural beauty of the bright brass finish is maintained by regular, frequent cleaning and polishing. Clear coating is also available as an option to prevent oxidation of the finish. However, the clear coating will lose its effectiveness if it becomes scratched. For further information, see Care of Metal Finishes, Reference Section B.
- It is important to evaluate wall or ceiling conditions, for the rack is only as strong as its anchoring devices and the surface on which it is mounted.



FINISH (select one)

- Uncoated Bright Brass (standard)
- Other (additional charge; see Finish Schedule, Reference Section A, for options)



SUGGESTED ARCHITECTURAL SPECIFICATION

TSM model BH-447 Brass Stemware Rack from Tubular Specialties Manufacturing, Inc., Los Angeles, California, (213) 515-4801. Fittings: sand cast of brass and machined to controlled dimensions. Elbows: welded to tubing to form a rectangular frame. Legs: 12" (305mm) long, unattached for field adjustment. Tubing: Brass, 1-1/2" O.D. (38mm). Rod: Brass, 1/4" O.D. (6mm), formed into 10 compartments. Application: _____ (ceiling or bar) mount. Finish: _____ (select from Finish Schedule). Installation Hardware: 1-1/2" (38mm) x #10 (5mm) Phillips oval head brass wood screws and 1/4" (6mm) x 8/32 (6mm) pan head brass machine screws.



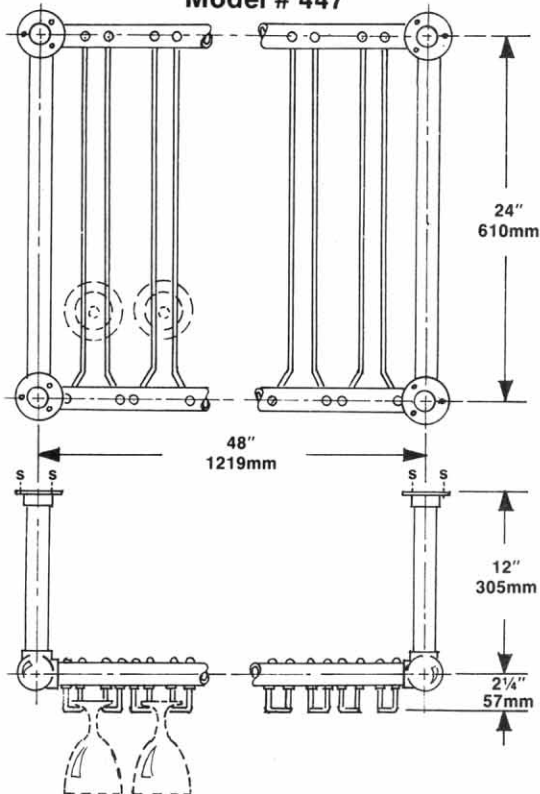
MATERIALS/WORKMANSHIP

- Flanges**—Sand cast brass (copper alloy—approximately 60% copper and 40% zinc) machined to controlled dimensions.
- Elbows**—Sand cast brass (see Flanges) machined to controlled dimensions, then welded to tubing to form a rectangular frame.
- Tubing**—Brass (see Flanges), 1-1/2" O.D. (38mm).
- Rod**—Brass (see Flanges), 1/4" O.D. (6mm). Ten stem compartments.



GUARANTEED PRODUCT
SEE PAGE 3 FOR COMPLETE DETAILS

Model # 447





INSTALLATION

Drill pilot holes through ceiling, then mount flanges using screws provided by TSM at locations marked by an "S". (See Installation, Reference Section C, for various applications.)

TSM recommends the Drill and Tap Set, TSM model BDT, which contains a #29 bit and 8/32 tap. Drill through bracket and tubing with bit, thread tubing with tap, and fasten the bracket to the tubing with set screw provided by TSM.

Brass Adhesive, TSM model B-Lok, can also be used in conjunction with the set screws for extra strength.



DISTRIBUTION

TSM maintains a worldwide network of distributors. Call your sales representative listed in Reference Section O for the names of those nearest you.

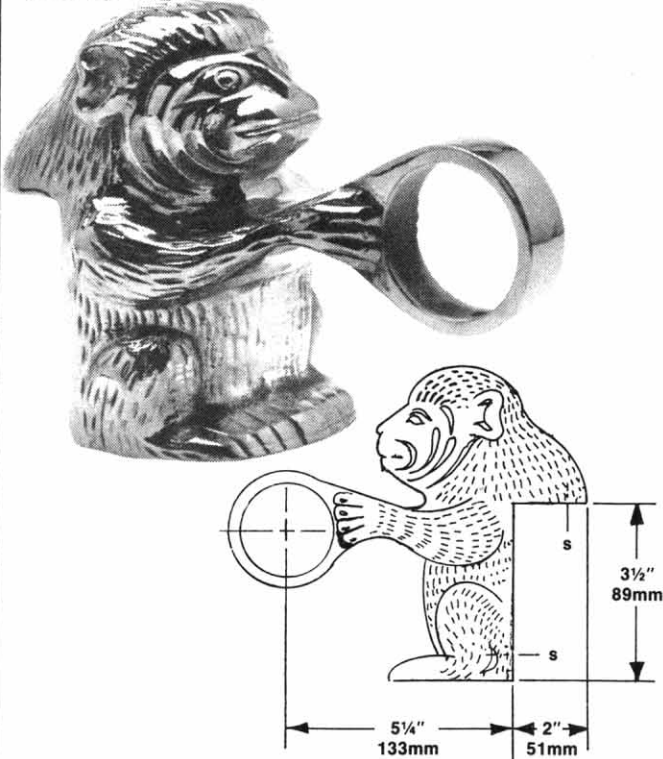
TSM

TUBULAR SPECIALTIES MFG., INC.

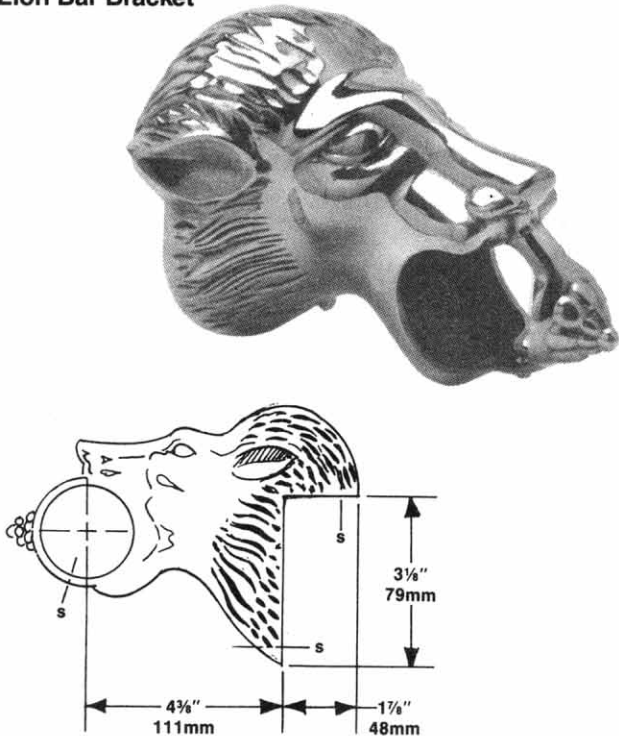
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451,452,453, 456,457

**Model # BT-451
Monkey Bar Bracket**



**Model # BT-452
Lion Bar Bracket**



BRASS DECORATIVE ANIMAL BAR BRACKETS



DESIGN CONSIDERATIONS

- Animal Bar Brackets add a dramatic touch.
- TSM brass components (angles, brackets and tubing lengths) can be combined to create upright, wall-hung, stair, and ramp railings which are decorative as well as utilitarian.
- The flexibility of the TSM brass component system gives a custom look to any application.
- Components are simple to work with in the field, making even stairway and ramp configurations easy to install. Brass tubing can be cut easily with a tube cutter, a circular saw with an abrasive wheel, or a hack saw.
- The natural beauty of the bright brass finish is maintained by regular, frequent cleaning and polishing. For strictly decorative applications or where access for cleaning isn't possible, clear coating is available as an option to prevent oxidation of the finish. However, the clear coating will lose its effectiveness if it becomes scratched. For further information, see Care of Metal Finishes, Reference Section B.
- TSM has the capacity of producing custom brass wall hung railing as well as upright, crowd control, and queue rails. Round brass tubing is available in 1" (25mm), 1-1/4" (32mm), 1-1/2" (38mm), and 2" (51mm) O.D. with 12" (305mm) or larger radii.
- TSM can also produce specially designed brass items such as salad bar sneeze guards, slides for buffets/cafeterias, wine bottle storage racks, and custom stemware racks. Please contact the factory with questions regarding custom designs.
- TSM recommends midsupports at maximum 48" (1219mm) intervals for strength in upright and wall-hung brass railing.
- It is important to evaluate wall or floor conditions, for any railing is only as strong as its anchoring devices and the surface on which it is mounted.
- TSM recommends that brass handrail work be specified in separate subsection of Division 5, "Metals," to ensure competent and competitive bids for experienced railing suppliers.

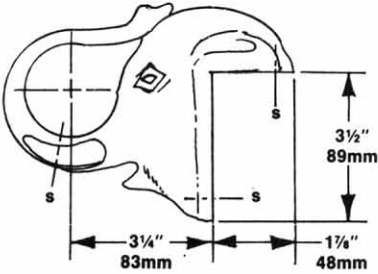
MODEL NUMBERS (select one)

- BT-451—Monkey
- BT-452—Lion
- BT-453—Elephant
- BT-456—Mermaid
- BT-457—Horsehead



GUARANTEED PRODUCT
SEE PAGE 3 FOR COMPLETE DETAILS

**Model # BT-453
Elephant Bar Bracket**



FINISH (select one)

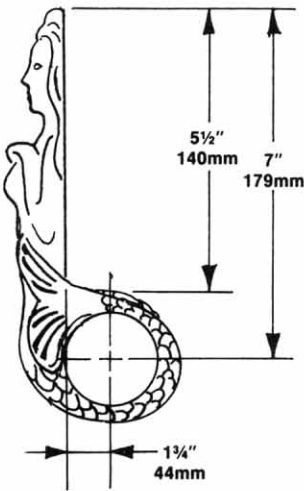
- Uncoated Bright Brass (standard)
- Other (additional charge; see Finish Schedule, Reference Section A, for options)



SUGGESTED ARCHITECTURAL SPECIFICATION

TSM model _____ (fill in model number) Brass Decorative _____ (Monkey, Lion, Elephant, Mermaid, or Horsehead) Bracket from Tubular Specialties Manufacturing, Inc., Los Angeles, California, (213) 515-4801. Construction: sand cast of brass and machined to controlled dimensions. Size: for 2" (51mm) O.D. tubing. Finish: _____ (select from Finish Schedule). Installation Hardware: 1-1/2" (38mm) x #10 (5mm) Phillips oval head brass wood screws and 1/4" (6mm) x 8/32 (6mm) pan head brass machine screws.

**Model # BT-456
Mermaid Bar Bracket**



MATERIAL/WORKMANSHIP

Sand cast brass (copper alloy—approximately 60% copper and 40% zinc) machined to controlled dimensions. Brackets fit 2" (51mm) O.D. tubing.



INSTALLATION

TSM recommends the Drill and Tap Set, TSM model BDT, which contains a #29 bit and 8/32 tap. Drill through bracket and tubing with bit, thread tubing with tap, and fasten the bracket to the tubing with set screw provided by TSM.

If railing will be subjected to heavy use, TSM recommends using Brass Adhesive, TSM model B-Lok, in conjunction with the set screws for extra strength.



DISTRIBUTION

TSM maintains a worldwide network of distributors. Call your sales representative listed in Reference Section O for the names of those nearest you.

**Model # BT-457
Horsehead Bar Bracket**

