

Titanium Anode Baskets

Standard Styles and Sizes

- Rectangular—2½" × 6" × Length
- Round—2½" Diameter × Length
- Standard Stock lengths include 18", 24", 30". Other lengths built to order.
- All Baskets available in Titanium, Zirconium, Stainless Steel and Monel

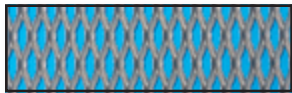
Mesh Types & Choosing the Right One

- Mini-Expanded—¾" × SWD × ½" LWD 65% mesh open area
- Large-Expanded—½" × SWD × 1¼" LWD 75% mesh open area
- Perforated—½" dia. on 1¼" staggered centers 50% mesh open area

SWD = Short Width Dimension LWD = Long Width Dimensions on Diamond Pattern

Industry Standard calls for 2:1 Anode to Cathode ratio when calculating anodes in a bath.

- *Mini-Expanded Mesh* is the most commonly used mesh type, offering a compromise between enough open area and basket stability.
- *Large-Expanded Mesh* is highly used for large anode ball applications.
- *Perforated* is the most durable and used with a variety of anode material.



MINI-EXPANDED



LARGE-EXPANDED



PERFORATED

Basket Amperage and Hooks

Rectangular Baskets are standard with 50 AMPS/Bskt Double Contact Hooks. Higher amperage is available (i.e. 100 AMPS, 150 AMPS and 200+ AMPS). To determine the AMPS needed per basketed, use the following formula:

$$\text{AMPS needed per basket} = \frac{\text{Total AMPS of Tank}}{\text{Total Number of Baskets}}$$

Amperage Rating per Hook:

- 25 AMP = 1/8" × 1" Double Contact Hook or 3/8" Square Bar Hook
- 50 AMP = 1/4" × 1" Double Contact Hook or 1/2" Square Bar Hook
- 75 AMP = 3/8" × 1" Double Contact Hook or 5/8" Square Bar Hook
- 100 AMP = 1/2" × 1" Double Contact Hook or 3/4" Square Bar Hook

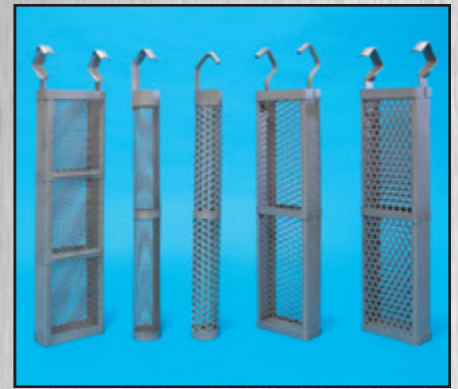
Considerations for Basket Sizing

The following rules of thumb are recommended for sizing baskets:

- Baskets should be 2" to 4" shorter than the longest piece of work
- Baskets should be 1" above the solution level
- Hook length is measured from the top of anode bar to 1" above the solution level
- Quantities for rectangular baskets should be three (3) 2½" × 6" baskets for every two feet of bus bar

Anode Quantities

Quantities of anodes to fill baskets	RECTANGULAR 2½" × 6" × L	ROUND 2½" Dia × L
Nickel Buttons: lbs/inch of length	3 lbs/inch	.8 lbs/inch
Copper Chunks: lbs/inch of length	2½ lbs/inch	.75 lbs/inch
2" Copper Balls: lbs/inch of length	2 lbs/inch	.625 lbs/inch



QUICK REFERENCE GUIDE

TITAN Metal Fabricators has assembled this reference guide containing standard specifications and "Rules of Thumb" used or applied in the Metal Finishing industry.

TITAN Metal Fabricators produces a complete line of Titanium Metal Finishing Equipment including:

- Titanium Anode Baskets
- Immersion Heating & Cooling Coils
- Shell & Tube Heat Exchangers
- Titanium-Clad Copper Bus Bars
- Tanks, Tank Liners
- Anode Hooks
- Auxiliary Anodes
- Custom Fabricated Products

TITAN METAL FABRICATORS

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TITAN Round Basket

- Double Contact Hook spot-welded and TIG welded to top band for maximum strength.
- Heavy-duty top band .040" x 1½" wide for superior hook support.
- Mesh formed and continuously spot-welded to horizontal and vertical reinforcing bands.
- Vertical band support .030" x ¾" wide mounted 90° from hook to eliminate shading.
- Reinforcing bands on 12" centerline .040" x ¾" wide.
- Recessed solid bottom spot-welded to bottom band ensuring maximum strength.

TITAN Rectangular Basket

- Double Contact Hooks spot-welded and TIG welded to top band for maximum strength.
- Hooks extend 2" into basket. Hooks spot-welded and TIG welded to side channels to ensure joint integrity.
- Heavy reinforcing top band .060" x 1" wide.
- Mesh is continuously spot-welded, for complete weld connections to bands and side channels.
- Reinforcing bands on 12" centerline .040" x ¾" wide.
- Solid side channel construction for strength and durability.
- Channel bottoms spot-welded to bottom band for superior strength and proper drainage.

Basket Options

- Inverted "V" Lift Hooks, Inverted "U" Hooks and Reverse Lift Hooks for easier access in lifting baskets
- Submergible Hooks
- Loading Chutes for easier anode loading
- Mesh on four sides of basket for greater anode-to-cathode ratio

For Heavy Duty applications, we offer the following basket options:

- Heavier Hooks for strength and current carrying capabilities
- Ti Clad Copper Hooks for higher amperage rating
- Thicker mesh material to minimize bulging of basket
- Thicker side channel construction

TITAN
METAL FABRICATORS

Please supply the following information upon submitting an inquiry to **TITAN** via phone, fax or e-mail:

1. Quantity _____
2. Material Type _____
3. Mesh Type Mini-Expanded Large-Expanded Perforated
4. Basket Style Round Rectangular
5. Dimensions of Basket:
 - A. _____
 - B. _____
 - C. _____
 - D. _____
6. Style and Size of Hook _____
7. Amperage Required Per Basket _____
8. Options _____
9. Contact and Phone _____

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