

# Titanium Anode Baskets

## Standard Styles and Sizes

- Rectangular— $2\frac{1}{2}" \times 6" \times \text{Length}$
- Round— $2\frac{1}{2}" \text{ Diameter} \times \text{Length}$
- 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— $\frac{3}{16}" \times \text{SWD} \times \frac{1}{2}" \text{ LWD}$  . . . . . 65% mesh open area
- Large-Expanded— $\frac{1}{2}" \times \text{SWD} \times 1\frac{1}{4}" \text{ LWD}$  . . . . . 75% mesh open area
- Perforated— $\frac{1}{2}" \text{ dia. on } 1\frac{1}{16}" \text{ staggered centers}$  . . . . . 50% mesh open area

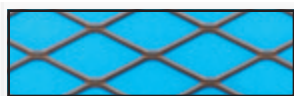
SWD = Short Width Dimension LWD = Long Width Dimensions on Diamond Pattern

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 basket, 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 =  $\frac{1}{8}" \times 1"$  Double Contact Hook or  $\frac{3}{8}"$  Square Bar Hook
- 50 AMP =  $\frac{1}{4}" \times 1"$  Double Contact Hook or  $\frac{1}{2}"$  Square Bar Hook
- 75 AMP =  $\frac{3}{8}" \times 1"$  Double Contact Hook or  $\frac{5}{8}"$  Square Bar Hook
- 100 AMP =  $\frac{1}{2}" \times 1"$  Double Contact Hook or  $\frac{3}{4}"$  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)  $2\frac{1}{2}" \times 6"$  baskets for every two feet of bus bar

## Anode Quantities

Quantities of anodes to fill baskets	RECTANGULAR $2\frac{1}{2}" \times 6" \times L$	ROUND $2\frac{1}{2}" \text{ Dia} \times L$
Nickel Buttons: lbs/inch of length	3 lbs/inch	.8 lbs/inch
Copper Chunks: lbs/inch of length	$2\frac{1}{2}$ 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:

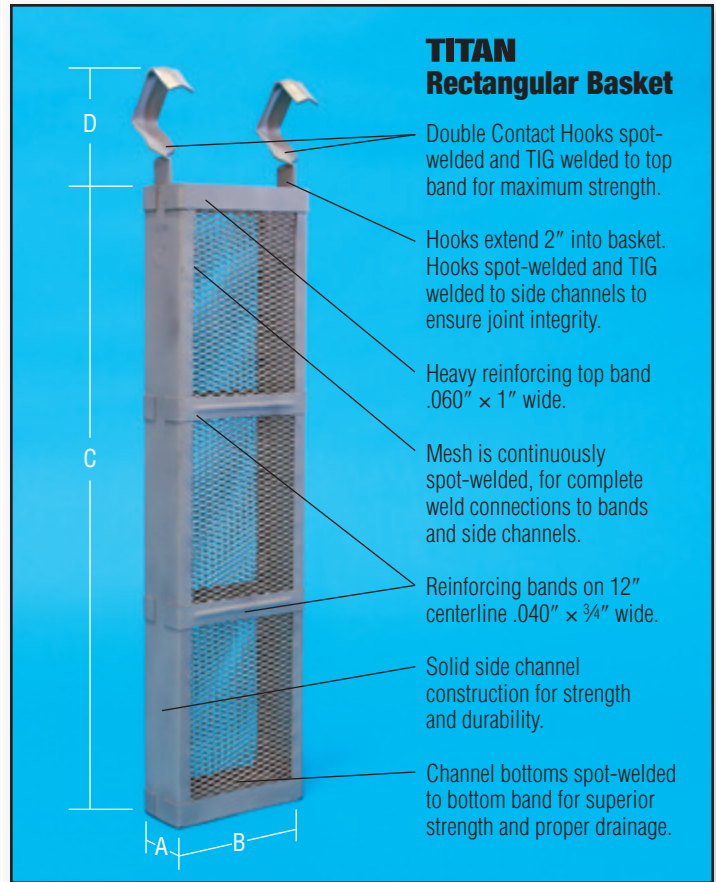
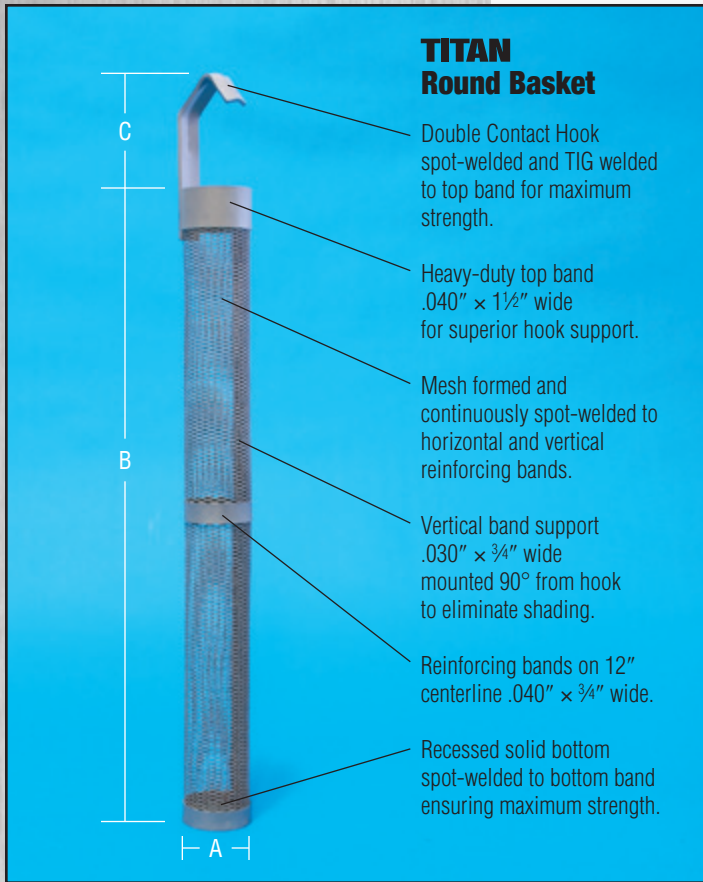
- Titanium Anode Baskets
- Immersion Heating & Cooling Coils
- Shell & Tube Heat Exchangers
- Titanium-Clad Copper Bus Bars
- Tanks, Tank Liners
- Anode Hooks
- Auxiliary Anodes
- Custom Fabricated Products

**TITAN<sup>®</sup>**  
METAL FINISHING

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## 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**<sup>®</sup>  
METAL FINISHING

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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