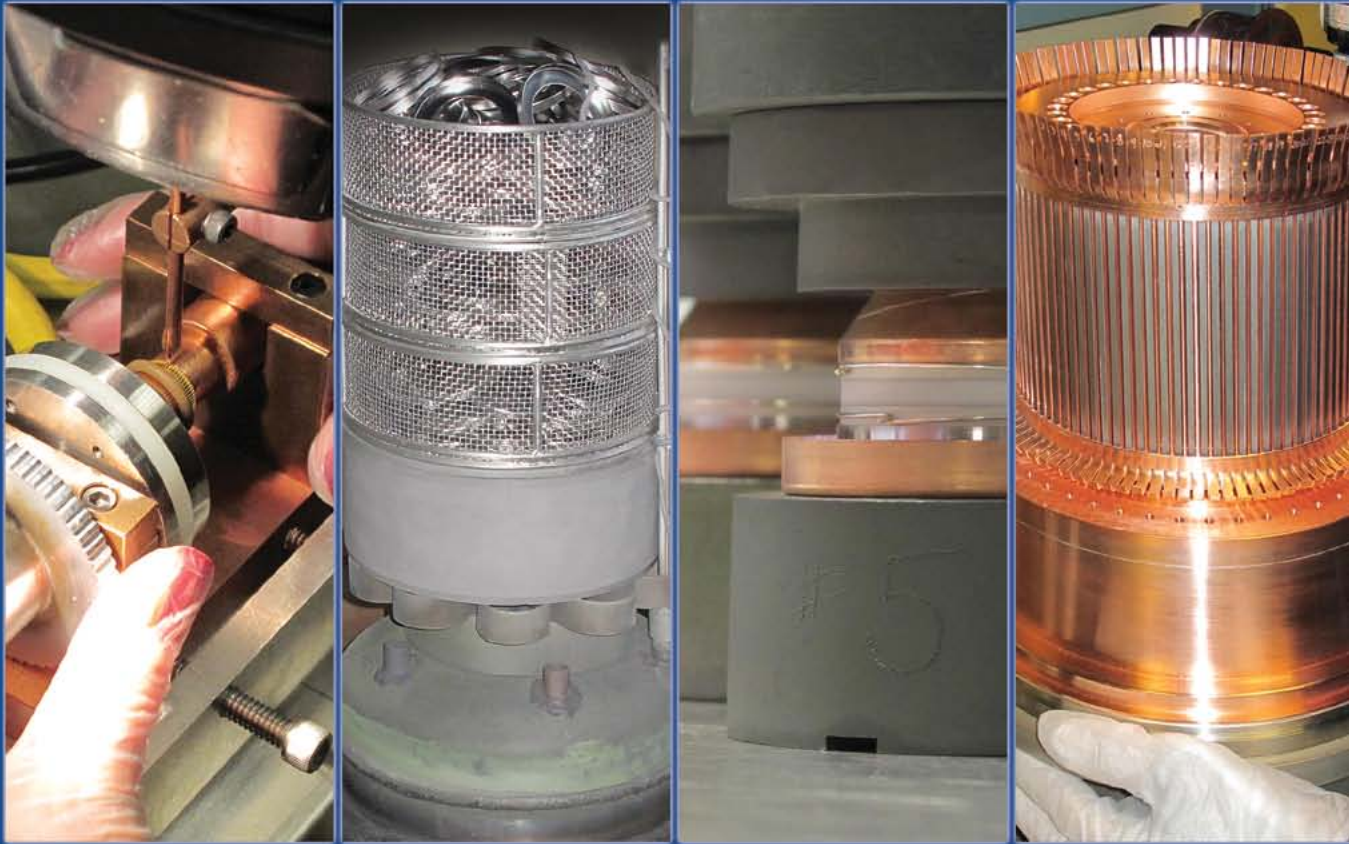


# PHOTONIS



## Material Processes and Plating Facility

Lancaster, Pennsylvania – USA

Quality Management System: ISO 9001:2008  
Equipment Calibrations: ISO 10012-1



## Material Processes and Plating Facility

Lancaster, Pennsylvania – USA

With a wide range of plating services for metal and ceramic parts, PHOTONIS USA Pennsylvania provides specialized coatings to precisely meet your specifications and deadlines.

Our fully automated, state-of-the-art facility, backed by years of plating and brazing expertise, puts your project in good hands, time after time.

Industries we serve include:

- Telecommunications
- Electronics
- Medical
- Defense
- Automotive

Quality control is an integral part of the PHOTONIS plating operation. With an ISO 9001:2008 Certified Quality Management System, PHOTONIS offers a wide range of brazing and plating technologies controlled by computer-operated schedules. Using sophisticated X-ray fluorescent and Dermitron thickness measurement equipment, PHOTONIS is able to assure uniform application and lasting quality. All equipment calibrations conform to ISO 10012-1.

## PLATING PROCESSES



# PHOTONIS

Lancaster, Pennsylvania – USA

## Finishing Services

### Heat Treating – Firing Service

Air, vacuum and hydrogen  
(wet and dry) atmospheres

Stress relieving, annealing and bright heat  
treating of stainless steels

Certified hardness and tensile strength testing

### Brazing Designs & Assembly Services

Metal-to-metal & ceramic-to-metal  
assembly design, including fixturing design

Metal-to-metal brazing  
(vacuum and commercial grade)

Ceramic-to-metal brazing  
(vacuum and commercial grade)

Oxyacetylene torch brazing

Silver alloy brazing media

Ceramic metalizing

Vacuum leak checking

### Specialized Surface Treatment Processes

Electro-polishing  
– 300 & 400 series stainless

Kovar Bright Dip  
– A uniform etchant for cleaning and brightening Kovar

Copper Bright Dip  
– An excellent surface preparation for copper,  
prior to further operations

Stainless Steel Bright Dip  
– Cleans and brightens as well as passivates

Glass Bead and Borosilicate Sand Blasting

Deposit	Comments
Chemical Film - Alodine® (Film conversion for aluminum)	Class 1A and Class 3 Oxidation resistant coating, paintable
Copper	Usually used as an under-plate for other deposits
Gold	Type II – Grade C and Type III – Grade A
Nickel - Watts	Class I – Matte, semi-bright and Bright Class II –Engineering plating
Nickel – Electroless – Medium Phosphorus – Boron	Class I – As plated Class II – Heat treated
Passivation	Type VI
Platinum	Very oxidation resistant; excellent electrical conductor
Rhodium	Type I – Over Ni, Ag, Au, P Type II – Over other metals
Silver	Type I – Matte and Grade B without chromate treatment
Tin - Dull	Type I – Electrodeposited, solderable

# PHOTONIS

## POWER TUBES

For more information on the services found in this brochure, contact: **PHOTONIS USA Pennsylvania, Inc.**

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