

We're proud of our "reviews"

"Your company's dedication and technological expertise has enabled us to meet a critical production schedule that might otherwise not have been accomplished...Simply stated, you succeeded where other competent suppliers had failed."

—M.J. Wharton, Manager, Procurement Operations, Hughes Aircraft Company

"After thoroughly testing product of the three major suppliers of reflectors, we chose Laser Gold hands down. The experience of the last three years with EPNER TECHNOLOGY reflectors installed in all of our AMT epitaxial reactors tells me we made the right choice."

—Steve Prigmore, 1988 Mag. Tech. Field Service Director

"The performance of the Epner sample was outstanding, providing a Q of approximately 3700 as opposed to the best previous value of 3200 (typical production values are around 2800)."

—C. J. DeFronzo, Senior Manufacturing Engineer, Motorola Corporation

When should you call?

The best time to call us is during the design stage. Only then can the full impact of our company's 75 years of problem-solving (and problem-avoiding) experience be felt.

But if your design is already frozen and demands quality plating to meet your performance specs, we're still interested.

Either way, our many years of plating know-how are yours for the asking. No obligation, no pressure. Just straight answers.

Call us at (718) 782-5948.

Company facts...

- Founded in 1910.
- Expansion capacity to 35,000 ft².
- Full EPA compliance.
- Small business concern.
- Power co-generation.
- Member AESF, ASNT, ASQC, IEEE, NAF, USA, SEMI, SPIE.

"We believe that plating can be done right the first time...with no "black magic" involved. Process control with an aerospace discipline makes it happen.

And it happens competitively."

David Epner, President



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**Epner
Technology
Incorporated**

High-tech plating specialists

Who is EPNER TECHNOLOGY?

Aston Webb described EPNER TECHNOLOGY as... "the leading supplier of precision electroplating."

Founded in 1970, EPNER TECHNOLOGY is a specialization plating company specializing in aerospace, defense, and sophisticated industrial plating.

Perhaps our basic business philosophy says it best:

- We do what the drawing calls for.
- We try to do it right the first time.
- We meet our delivery commitments.
- We deliver value.

"Simply stated, it is the best gold plating we have seen."

—A. Curtis L. Stewart, Chief Engineer, Martin Marietta Aerospace

What is our customer profile?

Our typical customers are sophisticated and technically demanding companies involved in:

- Aerospace
- Defense
- Microwave and Electronics
- Optics
- Semiconductor
- Research and Development

As a customer you are in the company of such "heavy hitters" in the defense and aerospace world as TRW, Hughes, Rockwell, Boeing, and ITT among others... as well as major government laboratories and the National Bureau of Standards.

Whether you're a "prime" or a "sub," you have one requirement in common—consistent, no-reject plating. Plating that meets your specs... with fully traceable documentation.



Process control chemical analysis plating bath purity using one of the latest laboratory techniques.

These are the metals we deposit.

- **GRD per MIL-G-4520C** and aerospace contractor specs and **LASER GOLD**. A proprietary ultra-high infrared reflectance gold coating 99.4% reflectivity at 2 microns. Can be physically cleaned.
- **ELECTROLESS NICKEL**, to MIL-C-3070C.
- **NICKEL**, to **QJ-N-290A**. Deposits of sulfamate, Watts, and Watts nickel formate/sulfamate to MIL-P-2741B.
- **LASER NICKEL**. A jet-free, pore-free electroless deposit 100% thick. Designed for optical polishing.
- **MSR** (MIL-8-305).
- **18-8** **STEEL**. A low insertion loss, tarnish-resistant proprietary deposit for filters, microwave and RF components.
- **TIN** to **MIL-T-10727B**. Deposits of bright or matte acid tin equivalent to alkaline tin.
- **AMTIN**. A process to produce flawless vapor phase soldering, particularly on aluminum.
- **ALTiN**. A tertiary metal alloy for corrosion resistance and solderability.
- **BR-BRM** to **MIL-R-6605B**. Low contact resistance. High corrosion protection.

These are the materials we deposit on.

We plate the hard-to-plate metals: aluminum, beryllium, magnesium, molybdenum, titanium, tantalum, tungsten, Kovar, Invar, and copper alloys. Plus stainless steels, and dielectrics such as Duralid™, Teflon™, Kevlar™, and composites.

"A small company in Brooklyn, NY, has emerged as the leading supplier of precision electroplating..."

—Aston Webb and Space Technology

Ten points that make the difference:

1. Performance. Our commitment to our customers is a simple one. We do what the drawing calls for. We try to do it right the first time and we meet our delivery commitments.

2. Quality. It's the process that makes great parts—not our inspectors. Our plating engineers draw on years of "in-the-trenches" experience to design the right process for your parts and your specs. Computerized die immersion gives us traceability. The finished parts are inspected (possibly on-site) results as close as a Rockwell DR-2A Spectrophotometer or a helium-neon laser), not so much to determine that the parts are great but rather to make sure the process is in control. This is, after all, the heart of Statistical Process Control.

3. Process control. A plating bath is a dynamic system. Thoughtfully plating over one part changes the bath chemistry. A full-time graduate chemist (not a technician) ensures that the variables of every bath in the plant are maintained within tightly defined upper and lower control limits. In a white-tiled process control lab, such modern analytic tools as a Perkin-Elmer Atomic Absorption Spectrophotometer are used to measure bath constituents to a few parts-per-million. The traceable results are documented, graphed, and posted in the plant. We meet MIL-4520B, of course.

4. Reliability. Most important, our plating meets the specs. For example, on the TRW Missile Program, we have delivered over 400,000 infrared guidance reflectors without a single reject!



Plating a large, complex part in a large plating tank. The plating process is controlled by computerized die immersion.

5. Commitment. We're responsive—you'll see it when you work with us. We have a position for the plating business, and a real concern for your needs. We're a small company, by choice. The customer is involved in day-to-day management. That gives us the personal attention to detail that your project deserves.

6. Communication. We spend the time to make sure we understand your requirements and develop a clear picture of your plating needs. This working relationship between your people and ours continues through every phase of the project, from process development through production.

7. Respect. We respect your investment in the parts that you entrust to us. Our rigid quality control standards for process development and production help make sure your job is done right. While our goal is to produce only perfect parts, we don't always achieve it. But if our inspectors find a part that requires rework, we do that with the same respect and skill.

"The laser cavity reflector segments have exceeded all expectations... the quality of work provided, coupled with the rapid return, is most reassuring."

—James C. Roberts, AFM, Avco Electronics

8. Experience. In the past decade alone, we've handled more than 50,000 jobs for over 200 customers. Our top managers are all graduate engineers with a combined 120 man-years of specialized know-how. And we'll share that skill and experience with you.

9. Trust. Our business philosophy, our technical approach, and our performance have earned our customers' trust. And that's a great way to do business.

10. Reputation. Perhaps our customers say it best. Their comments speak for themselves. (See next page.)

Advanced coordination using computerized electroplating control systems coupled with ultra-high voltage lasers. Laser Gold™ is a trademark of EPNER Technology.

