



USING METAL FROM IMS YOU GET:

Improved
dimensional
control resulting
in compact chips



Unattended 'lights
out' high speed
turning and drilling



A product
co-developed with
our mill engineers
to meet your
unique and specific
machining
requirements



Los Angeles
8300 San Fernando Rd.
Sun Valley, CA 91352
818-729-3333

Irvine
2481 Alton Parkway
Irvine, CA 92606
949-250-3343

Riverside
301 Main St.
Riverside, CA 92501
951-300-9933

San Diego
7550 Ronson Rd.
San Diego, CA 92111
858-277-8200

Phoenix
5150 S. 48th St.
Phoenix, AZ 85040
602-454-1500

Tucson
3757 E Columbia St
Tucson AZ 85714
520-441-5900



INDUSTRIAL METAL SUPPLY CO.
metal made easy

industrialmetalsupply.com

**INDUSTRIAL METAL
SUPPLY COMPANY**
metal made easy

**PARTNERING WITH
MACHINE SHOPS FOR MORE
THAN 60 YEARS**



Are **REWORK**, part
REPOSITIONING,
machine **DOWNTIME**, slow
THROUGHPUT, multiple
INSPECTIONS, or **REJECTED**
material hurting your business?

If so, Industrial Metal Supply Co. stocks
high quality aluminum and stainless steel
that will help reduce or eliminate these
challenges.

**IMS PRODUCT
OFFERS...**

**TO GIVE
YOU...**

Consistent flatness



Repeatable part setup

Consistent grain
structure throughout
entire thickness



Uniform appearance
after anodizing
Faster cutting speeds
Reduced tool wear

Lower overall
residual stress



Less distortion
during fabrication

Improved
dimensional control,
or compact chips



Faster machining
with no interruptions

MACHINE QUALITY ALUMINUM & STAINLESS IN YOUR SHOP TOMORROW



Shops like yours create the foundation for many of the world's most complex and advanced manufacturing industries - Aerospace, Military, Medical, Automotive and Electronics. To achieve success in today's ultracompetitive global environment, impeccable precision and an efficient repeatable machining process are essential.

We've been in business since 1948 and have grown to six locations throughout the Southwest and Arizona. By offering product lines that meet and exceed precision machining standards for ultimate part accuracy and customer satisfaction, we've earned the reputation as a dependable partner to work with - one who will work with you under strict time constraints and deliver a quality product that exceeds your expectations.

ABOUT IMS

Top Quality Aluminum and Stainless Products

Machine grade quality products in stock

Pre-selected Domestic Mill Partners

We work only with mills that offer the best product for machine shops

Extensive Inventory

Broadest line of metals available from one distributor in the Southwest

Next Day Delivery

Receive processed orders next day

Six Locations Open Six Days a Week

Will-Call and stores make getting your metal fast and easy

Custom Extrusions

Save processing time and money

Rush Processing

Same day will-call available in all six locations

Precision Processing Capabilities

We process orders 24 hours a day

Advanced Manufacturing Processing Department

*Hi-Def Plasma cutting
6-Axis Tube Laser cutting*

Technical Support

Access to IMS engineering department & mill experts

Brokering Department

If we don't have it, we'll get it for you

ISO Certified

CASE STUDY

The Challenge

One of our customers was machining Aluminum plate to create precision parts for the semiconductor industry. As many shops experience, the heavy machining required caused *residual stresses* to redistribute, resulting in *distortion and scrap tolerance variation*. Sure, the shop could make lighter cuts to reduce the problem, but that would result in *lower efficiency*. Next, the finished parts were anodized (or in some cases plated or coated). But unfortunately the parts were being *rejected* due to a *streaking* appearance.

IMS ALUMINUM PLATE PROVIDED SOLUTIONS

The Solutions

1. Minimized plate distortion with reduced residual stresses.
2. Reduced the required plate thickness and the initial purchase quantity by using flatter plate with lower residual stress.
3. Provided high quality consistent grain structure throughout the entire thickness, yielding a consistent final anodized finish.

SAVINGS ANALYSIS

Purchase Price	Competitor Product/lb	IMS Product/lb
Initial	\$2.45	\$2.55
Additional material .400 inch	\$0.27	\$0.00
10hrs of additional machining	\$1.29	\$0.00
Anodize rejections (25%)	\$0.68	\$0.00
Reprocess rejected parts	\$0.32	\$0.00
True cost	\$5.02	\$2.55