



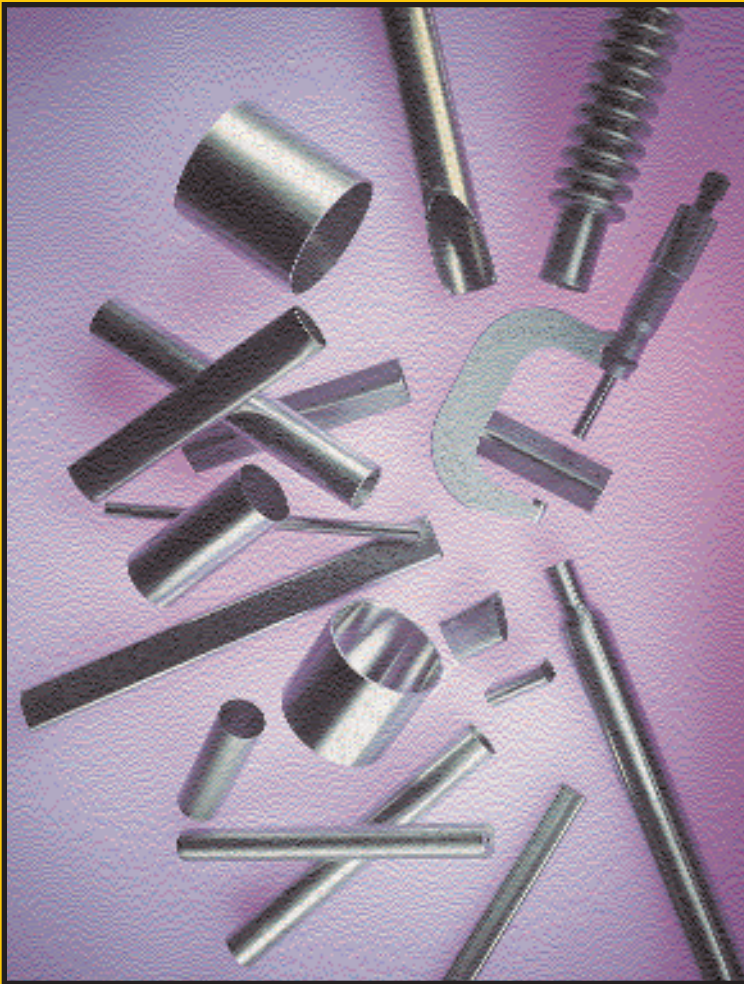
PRECISION TUBING MANUFACTURER

SINCE 1948

An ISO 9002 Certified / AS 9100 Compliant Company

valleymetals.com

QUALITY ASSURANCE



Valley Metals' Quality System is ISO 9002 Certified and AS 9100 Compliant.

Valley Metals has a worldwide reputation for producing the highest quality welded and redrawn tubing available today. Our ISO 9002 certified / AS 9100 compliant Quality System meets or exceeds the requirements of the most demanding aircraft, aerospace, and defense quality specifications.

Valley Metals is the recipient of customer awards for Quality, On-time Shipment, Key Supplier and Cost Reduction. We are qualified to perform final quality product acceptance for many customers.



MATERIALS EXPERIENCE

NICKEL BASE ALLOYS

- 200 •201 •400 •K MONEL •600 •601
- 617 •625 •718 •X750 •800 •800H
- 801
- 825 •903 •NI-CR
- HASTELLOY ALLOYS
- RENE 41 •RA333 •WASPALLOY
- NITRONIC ALLOYS

HIGH STRENGTH ALLOYS

- 15-5PH •15-7MO •17-4PH
- 17-7PH •MARAGING ALLOYS

AUSTENITIC STAINLESS STEELS

- 301 •302 •304 •304L •309 •310 •316

- 316L •317LN •321 •347 •AM350

- A286 •19-9DL •21-6-9

REFRACTORY ALLOYS

- COLUMBIUM •NIOBIUM
- TANTALUM •HAFNIUM •ZIRCONIUM
- VANADIUM
- TITANIUM - ALL ALLOYS & GRADES

OTHER ALLOYS

- ALLOY 25 •INVAR® •N155/MULTIMET
- EBRITE 26-1 •KOVAR®
- HY MU 80® •HYPERNOM
- TI NI •ALUMINUM
- PLATINUM •GOLD •SILVER

** Registered trademarks of CRS Holdings, Inc.*

Valley Metals' state of the art tubing manufacturing facility in Poway, California.



1999

MISSION STATEMENT

To perceive the needs of the markets and customers we serve; to meet or exceed customer expectations; and to consistently provide high quality products and service. To conduct business professionally, ethically, and with a vision toward the future for the benefit of our customers, employees, shareholders, and community.

CUSTOMER SERVICE • QUALITY • INNOVATION

Perceiving our customers' real needs, and developing the design and processes to meet those needs, have been inherent in Valley Metals' success since 1948. We take pride in helping customers reduce their inventories by producing near-net or finished tubing and piping components. Whereas the term just-in-time is very important to industry today, Valley Metals has been fulfilling this concept since the late 1960's.

Exactng Quality Control, backed up by our ISO 9002 certified / AS 9100 compliant Quality System and knowledgeable, dedicated employees, has enabled Valley Metals to build a worldwide

reputation for high quality and product reliability. Valley Metals is continually developing and perfecting new processes to accommodate the ever-increasing range of metallic materials. Valley Metals is recognized as a leading innovator in the supply of high performance metal and alloy tubular products.

All of the employees of Valley Metals understand the importance of Customer Service, which translates to effective communication, high quality products, on-time deliveries and after sales service.

We look forward to our next opportunity to serve you.

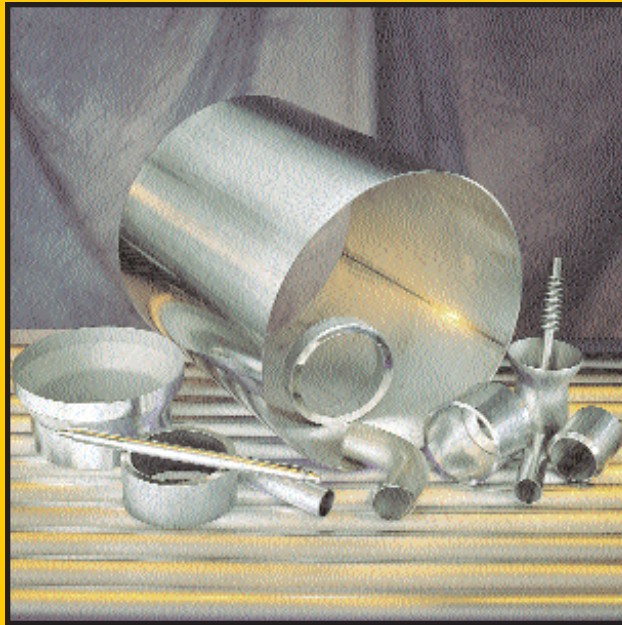


1975



1948

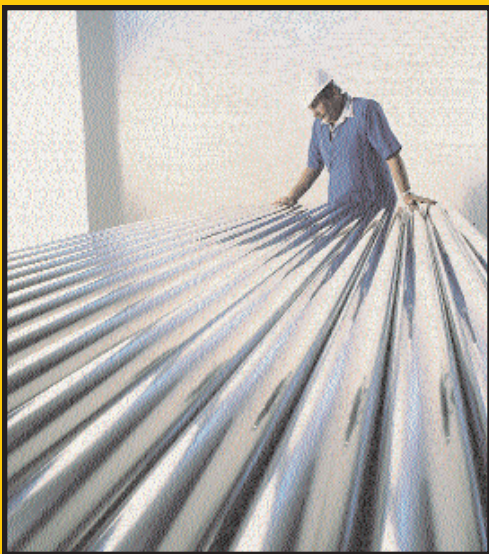
SPECIAL PRODUCT FABRICATION



Valley Metals produces a wide variety of custom tubular products for specific end-use applications.

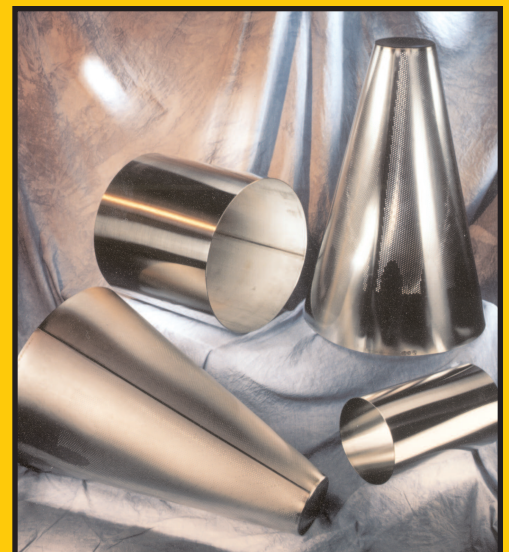


FUSION WELDING



		MANUFACTURING CAPABILITIES															
		REDRAWN TUBING ■ WELDED TUBING ■ WELDED PIPE ■															
WALL THICKNESS INCHES		DIAMETER INCHES														WALL THICKNESS MILLIMETERS	
		.100	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	3 1/2	4-6	7-10	11-16	20+		
.003		[Color-coded cells]														.07	
.004 - .009		[Color-coded cells]														.1016 - .2286	
.010 - .018		[Color-coded cells]														.2540 - .4572	
.020 - .035		[Color-coded cells]														.5080 - .8890	
.040 - .065		[Color-coded cells]														1.016 - 1.651	
.070 - .093		[Color-coded cells]														1.778 - 2.362	
.109 - .172		[Color-coded cells]														2.769 - 4.369	
.1875		[Color-coded cells]														4.7625	
.250		[Color-coded cells]														6.350	
.312		[Color-coded cells]														7.925	
.375+		[Color-coded cells]														9.525+	
SCHEDULE 5		[Color-coded cells]															
SCHEDULE 10		[Color-coded cells]															
SCHEDULE 40		[Color-coded cells]															
		2.54 THROUGH 508															
		DIAMETER MILLIMETERS															
		■ A FULL RANGE OF DIAMETERS AVAILABLE .100 THROUGH 2 INCHES															
		■ A FULL RANGE OF DIAMETERS AVAILABLE THROUGH 90 INCHES															

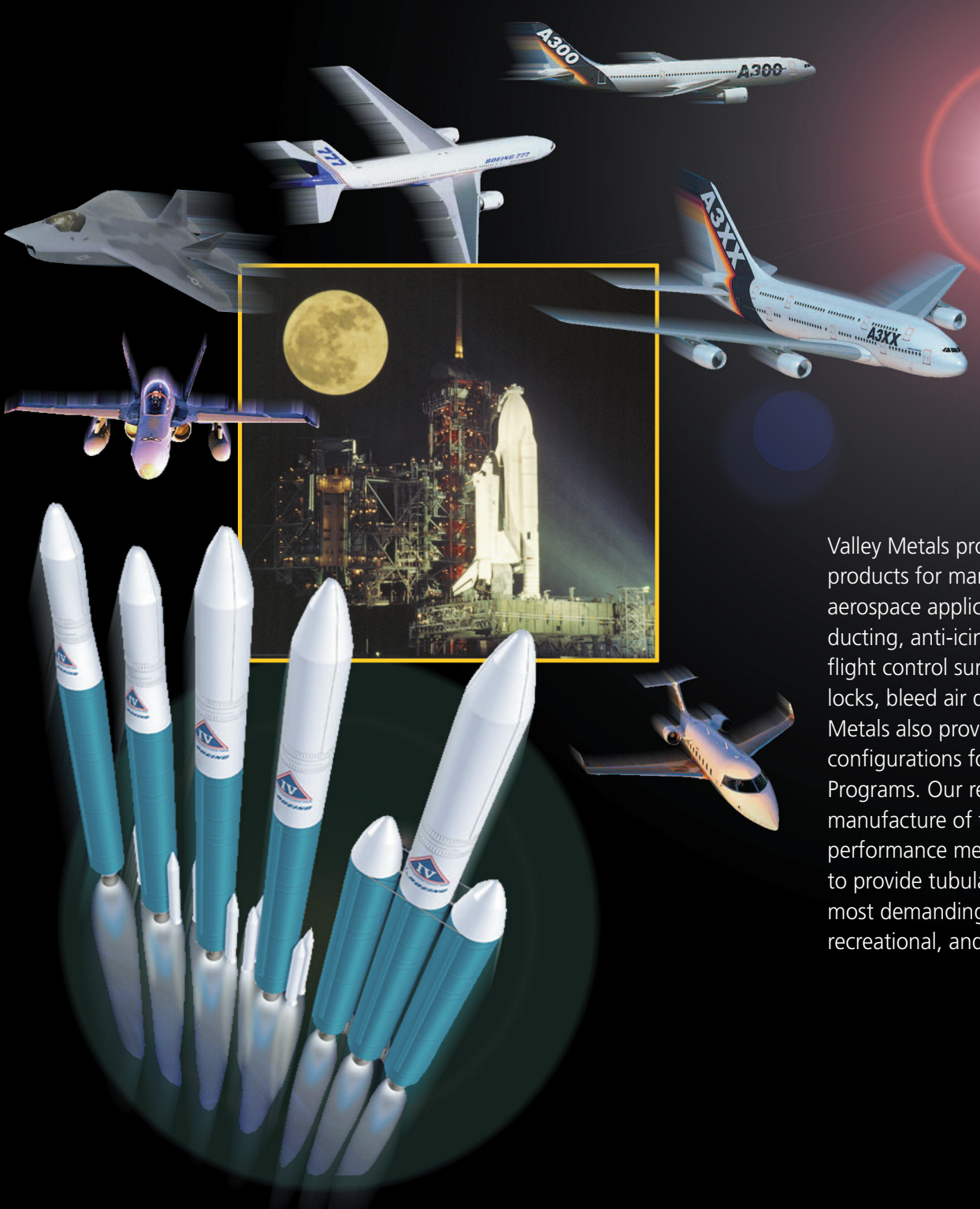
Working closely with customer engineers, Valley Metals has modified and perfected metal working processes to convert basic tubing shapes into finished components and subassemblies. Because of our vast experience with a broad range of sophisticated materials, we have a unique understanding of what can be done in metal forming. Extensive experience in welding thin and thick gauges, .003" to .400" in special metals and alloys, enables us to be more cost-effective in our conversion processes.



INDUSTRIES WE SERVE ARE:

- Aerospace
- Commercial Aircraft
- Military Aircraft
- Weapons
- Business Jet
- Space Launch Vehicle
- Turbine Engine
- Marine
- Medical
- Refining
- Chemical
- Sports and Recreation
- Pharmaceutical
- Power Generation
- Environmental
- Automotive

Valley Metals produces a variety of tubing products for many commercial and military aerospace applications including environmental ducting, anti-icing tubing, actuator tubes for flight control surfaces, thrust-reverser, door locks, bleed air ducting, and struts. Valley Metals also provides sophisticated tubing configurations for Space and Weapons Programs. Our reputation for expertise in the manufacture of tubulars constructed of high performance metals and alloys has enabled us to provide tubular products for a variety of the most demanding industrial, automotive, recreational, and medical applications.





CUSTOMERS WE SERVE:

*Aerospatiale Matra
B.F. Goodrich Aerospace
The Boeing Company
Bombardier Aerospace
CASA
DaimlerChrysler Aerospace
General Atomics
General Electric
Honeywell-Allied
Hughes Aircraft
Lockheed Martin
Northrop Grumman
Raytheon
Rolls Royce
Senior Flexonics
Textron
TRW Aeronautical Systems
United Technologies
Vought Aircraft Industries, Inc.*



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