



# BINDER METAL PRODUCTS

I N C O R P O R A T E D

[WWW.BINDERMETAL.COM](http://WWW.BINDERMETAL.COM)

A LEADER IN WASHERS AND CUSTOM STAMPINGS SINCE 1925

# OUR MISSION

*To provide a wide range of custom and standard flat washers and stampings, specializing in heavy structural configurations and short lead-times, manufactured to a wide range of specifications and a large selection of materials, for the Aerospace, Defense, Satellite/Space, Oil & Gas, Commercial, Automotive, and many other industries commercial and automotive.*



# ABOUT

## BINDER METAL PRODUCTS

Binder Metal Products, Inc. was established in 1925 and has evolved into a full service stamping house, specializing in customized stampings as well as mil-spec and standard washers. We produce a wide range of custom metal stampings in virtually every material available including plastic and phenolic. Size capabilities range from .125 inch diameter to 15 inch diameter and thickness ranges from .001 inch to .625 inch thick.

Binder Metal also has complete machining capabilities. This gives us the ability to produce substantially thicker parts, such as custom spacers, bushings, and other various custom machined components. Let us be your one stop shop for all of your **custom washer, stampings and spacer** needs.

Our manufacturing capabilities include:

- **Stampings**
- **Machining**
- **Laser Cutting**
- **Flame Cutting**
- **Plasma Cutting**
- **Saw Cutting**

Binder Metal implements strict quality controls and has some of the highest quality certifications for manufacturing.

Binder Metal is certified to AS9100 Rev.D incorporating ISO 9001:2015

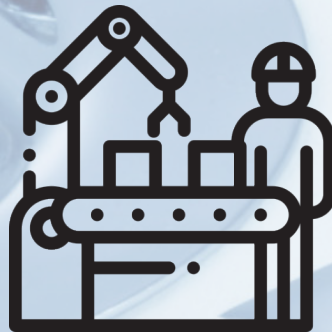


Visit [www.bindermetal.com](http://www.bindermetal.com) for more information and latest updates.



# BINDER METAL FACT SHEETS

Binder Metal Products have been perfecting quality of metal fabrication and tool building since 1925, with over 94 years of experience in the industry. All tools are made right here in the U.S.A. by Americans for quality control, compliance and satisfaction. This allows us to guarantee extreme quality and precision with our on site production processes, but also allowing our customers work hand in hand throughout the process.



Over 10,000+ unique components are produced



## CAP-EX SPENDING

Binder Metal Products typically spends \$350,000 on capital expenditures annually, for state of the art technologies



# 1925

Binder Metal Products, high quality metal fabricated stampings and washers since 1925 for nearly 100 years.



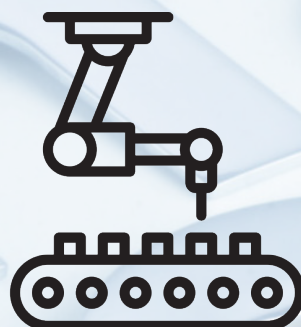
Facilities located 10 mi. from LAX-Los Angeles International Airport and the Port of Los Angeles, America's Port®

## MADE IN THE USA

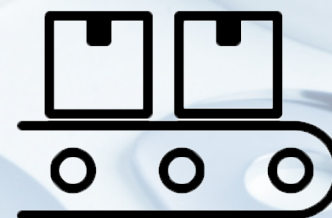
With over 295+ years of stamping experience with Binder Metal USA.



Size capabilities range from .125 in. diameter to 15 in. diameter and thickness ranges from .001 to .625 in. thick



Use of Robotics has become a standard practice at Binder Metals (maintaining a competitive edge in all Industries)



Since inception of Binder Metal products we have produced and shipped millions of washers and stampings.

# PRODUCTS

## CAPABILITIES

Binder Metal can offer a wide variety of **Custom Stampings** using Hard and Soft Tools that are manufactured in-house to maintain precise accuracy, controls, compliance, and high quality.

### Custom Stampings sizes range from:

- .125 inch diameter (miniature)
- 15.000 inch diameter (large)
- .001 inch thickness (extremely thin)
- .625 inch thickness (thick)

### Custom Dies include:

- Inter-changeable Dies
- Progressive Dies
- Compound Dies
- All custom Stampings

Binder Metal Products offers custom precision components for a variety of industries: Aerospace, Defense, Satellite/Space, Oil & Gas, Automotive, Trucking, Automation, Robotics, Medical, High-Tech, Semi-Con, and various other industries.

Binder Metal Washers for these sectors and military standards include (partial list below)

AN901	MS9320	MS21229	NAS70	N400
AN940	MS9321	MS27183	NAS391	N401
AN945	MS9459	MS51412	NAS549	N402
AN960	MS15795	MS51496	NAS620	
AN961	MS16212	MS51859	NAS1149	
AN970	MS17840	MS51867	NAS1197	
10910174	MS20002	MS51936	NAS1252	
	MS21206		NAS1515	
			NAS1587	

Please E-mail for review or DFM Assistance drawings and RFQ's to: [www.bindermetal.com](http://www.bindermetal.com) or email to [sales@bindermetal.com](mailto:sales@bindermetal.com)







TRUCKING



OIL & GAS



SATELLITE/SPACE



MEDICAL



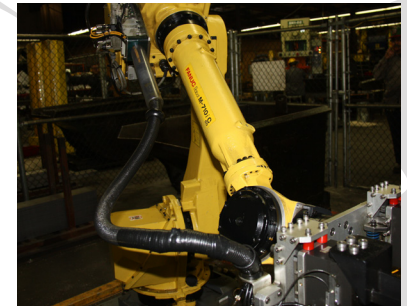
FARM EQUIPMENT



DEFENSE



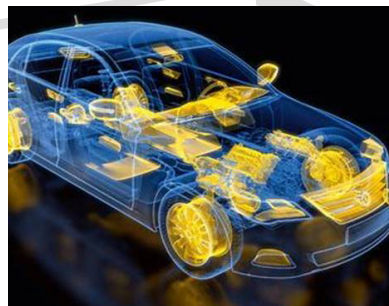
AUTO RACING



ROBOTICS/SPACE



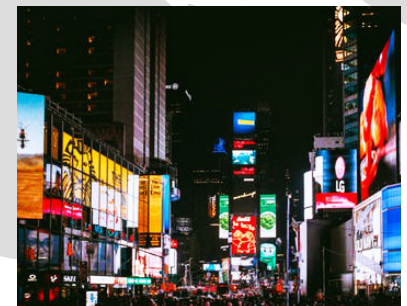
AUTOMATION



AUTOMOTIVE



AEROSPACE



COMMERCIAL

# INDUSTRIES SERVED



# STANDARD

## PRODUCT LINES

Binder Metal Products carries over \$2 Million in finished goods inventory. Below is a partial list of various products in stock. For more information or custom configurations, please call or email our sales staff at [sales@bindermetal.com](mailto:sales@bindermetal.com)

- S.A.E. Pattern through hardened (F436)
- USS Pattern through hardened (F436)
- S.A.E. Extra Thick Pattern (F436)
- USS Hardened Pattern Extra Thick (F436)
- S.A.E. Clipped Pattern (F436)
- S.A.E. Pattern (low carbon steel) Type A Narrow per ANSI B18.22.1
- USS Pattern (low carbon steel) Type A Wide per ANSI B18.22.1
- Fender Washers
- Round Plate Washers
- Square Plate Washers
- Helical Spring Lock Washers (Regular Series-Carbon Steel)
- Helical Spring Lock Washers Oversized, HDG (Regular Series-Carbon)
- Malleable Iron (Round Pattern)
- Malleable Beveled
- Dock Washers (Galvanized)
- Construction Discs
- Automotive Flags

*For dimensional sizing information  
please visit: [www.bindermetal.com](http://www.bindermetal.com)*

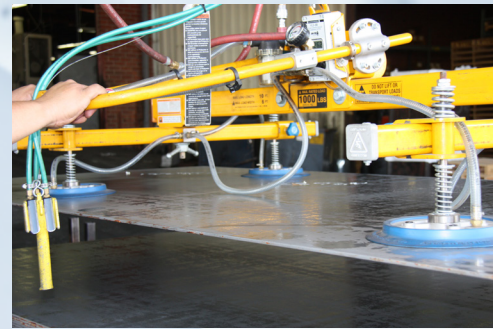




# CUSTOM PRODUCT LINES

Binder Metal Products can manufacture various configurations, we have a complete tool and die shop on the premises, with over 100,000 interchangeable dies, progressive, and compound dies. We offer hundreds of grades of ferrous and non ferrous material, and will produce the stamping to your specifications!

We can produce stampings from .125 in. diameter to 15 in. diameter, and can stamp a thickness range of .001 in. to .625 in. thick. Our Custom Parts can be formed and drawn up to .500 in. deep.



# MANUFACTURING & SPECIALTIES

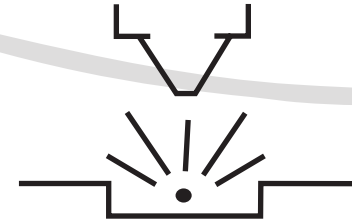
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## VERTICALLY INTEGRATED

- All of our manufacturing processes done in-house for total quality control
- **Soft tools or hard tools designed and manufactured in-house**
- **We offer Kanban, JIT, Dock to Stock-DTS, Inventory kitting and shipping per schedule**
- **Specialized processes are only performed by our Binder Metal Products or our Customer approved suppliers**
- Robotics are utilized daily for better efficiency and cost controls

## SPECIALTY SERVICES

- Failure Analysis is offered as necessary
- Custom/special packaging per customer specs
- Kitting of several items used in assembly at customers work stations/ production lines



## PROCESSES & CAPABILITIES

Additional components processing allows Binder Metal to work with most customers to alleviate customers from having to add one more supplier. We can offer you with process capabilities such as:

- Laser Cutting
- Water Jet Cutting
- Flame Cutting
- Plasma Cutting
- EDM
- Saw Cutting
- Standard Machining
- Metal coatings
- Heat Treating
- Grinding
- Platings (various )



# MATERIALS

## EXOTIC & STANDARD



Binder Metal Products stamps 100's types of materials ranging from Hot Roll mild steel to Titanium. We even stamp plastics, phenolics, rubber and nylon! Below is a listing of many types of materials we stock and stamp. If the material you are not looking for is not listed, please call one of our sales representatives and we will order the material requested.

### (PARTIALLIST)

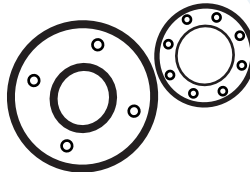
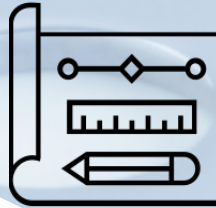
ALUMINIUM	STAINLESSSTEEL	CARBONSTEEL	PLASTIC	MISC.
T1100	301 1/4 Hard	C1005	Phenolic	4130
T2011	301 1/2 Hard	C1008	Teflon	4140
T2024	301 3/4 Hard	C1010	Hi Density Poly	4340
T3003	301 Full Hard	C1015	Fiber	4340
T5052	304	C1018	Celon	6150
T6061	304 W/2B Finish	C1020	Neoprene/Rubber	Galvanized Steel
T6063	304L	C1026	Mylar	Hi Strength/Lo Alloy
T6262	304 Bright Anneal	C1040/45	Nylon	ALX6N
T7075	304 Polished	C1050	Nylatron	Copper
	309	C1075	Acetal	Cor Ten
<b>BRASS/BRONZE</b>	316	C1095		Nickel 200
260 Brass	316L	Grade 50	<b>EXOTIC</b>	Screen
360 Brass	317L	Grade 70	Monel 400	Silicon Killed
Naval Brass	321	A36	K-500 Monel	
Phosphorous Bronze	347	12L14	Tantalum	
Silicon Bronze	410	C1144	Carpenter 20	
Naval Bronze	430		Zinc Alloy A303	
Aluminium Bronze	17-7 PH		Hasteloy	
Sintered Bronze	17-4 PH		Waspaloy	
	2205		X-750	
	A286		Inconel	



# PROTOTYPES > SHORT-RUNS > VOLUME PRODUCTION

## QUICK-TURN AROUND & PROTOCOL

At Binder Metal Products we strive to provide customers with a simple solution taking your concept/design from prototype to production under turn-key high quality operations.



### PROTOTYPING

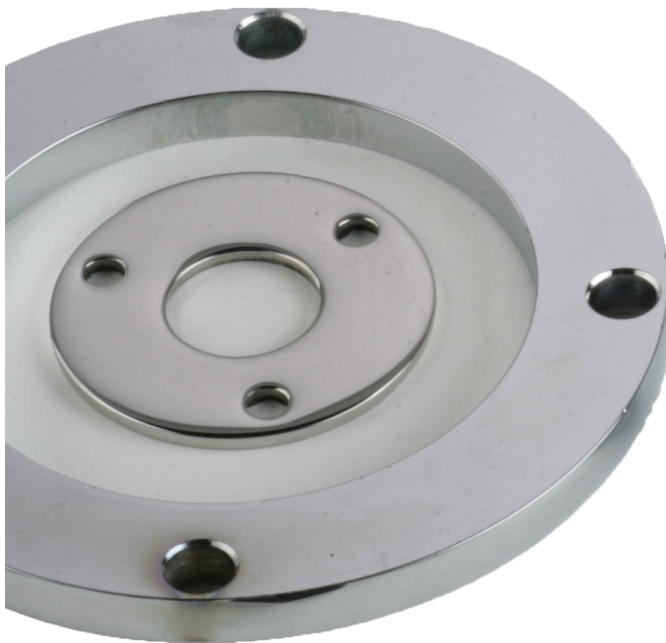
- Binder Metal will manufacture your Prototypes using our established turn-key processes
- Prototype processing varies depending on the part and tolerances required
- Prototyping lead-times range from 1 week to 8 weeks depending on complexity
- Prototype and Short-Run volumes range from 1 piece up to approximately 1000 pieces
- We understand engineers need to view, emulate and test new concept quickly.

### SHORT-RUN VOLUMES

- SHORT-RUN VOLUMES
- Short-runs range from 100 to 5000 pcs lots
- Lead-times are flexible
- LVP - Low Volume Production is typical for pre-production volumes

### CUSTOMER ANALYSIS

- Allows our customers the opportunity to submit prototypes proof of design quality and engineering for qualification and approval
- Prototypes are processed and submitted for sign-off by our customers prior to producing large runs and tools/dies for production level runs
- Binder metal also offers valuable DFM Engineering support





# COMPLIANCE

TRACEABILITY > DOCUMENTATION > PRODUCTION > CERTIFICATION

## RFQ & SALES ORDER PROCESS

1

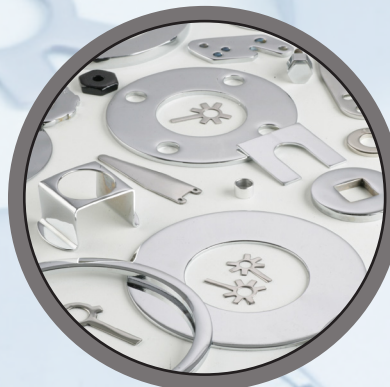
- Receives NDA if necessary for execution
- RFQ+drawings are received from customer
- Engineering reviews drawings for quality call-outs and material and tooling requirements then routes to estimating to determine lead-time and quoting



## SALES/PLANNING

2

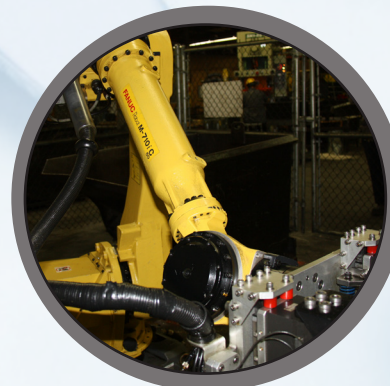
- Sales formalizes quotations and submits back to customer
- Customer submits Purchase Order to Sales group
- P.O. is then entered into our ERP system for processing
- Materials and tooling are evaluated for procurement if not in stock then ordered



## CERTIFICATIONS

4

- Quality will perform FAIR and traceability documentation
- Shipping then prepares shipping documents and components are shipped
- Quality prepares fair, raw materials and full certifications as required.



## PRODUCTION

3

- Drawings reviewed
- Tooling required is purchased or manufactured in-house
- Routers and Inspection documents are created and sent to production
- Components are then manufactured to Print

# QUALITY

## POLICY



**Quality is Binder Metal, we pride ourselves on making Quality our primary focus. Our customers respect our attention to shipping quality in every part that we ship.**

### The Binder Metal Quality Policy

*Binder Metal Products Inc. is committed to the fulfillment of our customer requirements and expectations through on time delivery of defect free metal stampings and flat washers at the lowest possible cost attained through "continuous improvement " will provide for teamwork, employee involvement and commitment to training, education in current quality and manufacturing methods and prevention oriented policies in all aspects of company operations.*

*At Binder Metal our employees are our most valuable assets. The majority of the Binder Metal employees have been with Binder from five, ten, twenty...up to forty+ years and work in harmony like an orchestrated team with family values and personalities. With this formula, we operate extremely efficient, with success built on every order and every shipment with every customer!*

#### TRAINING

\*Our training among our employees is ongoing and training and safety classes are provided monthly. Employees must pass the training to receive their certification.

#### QUALITY/INSPECTION

\*We implement SPC daily and process for any customers or components which this data is requested and can be provided  
\*In-process inspection, on-going.  
\*Inspection remains our forte and is treated with the ultimate respect, while our in-process and final inspection team applies rules.  
\*Gaging is calibrated and certified on a recall schedule, recorded and scanned.  
\*All documentation is scanned for traceability

#### MANUFACTURING

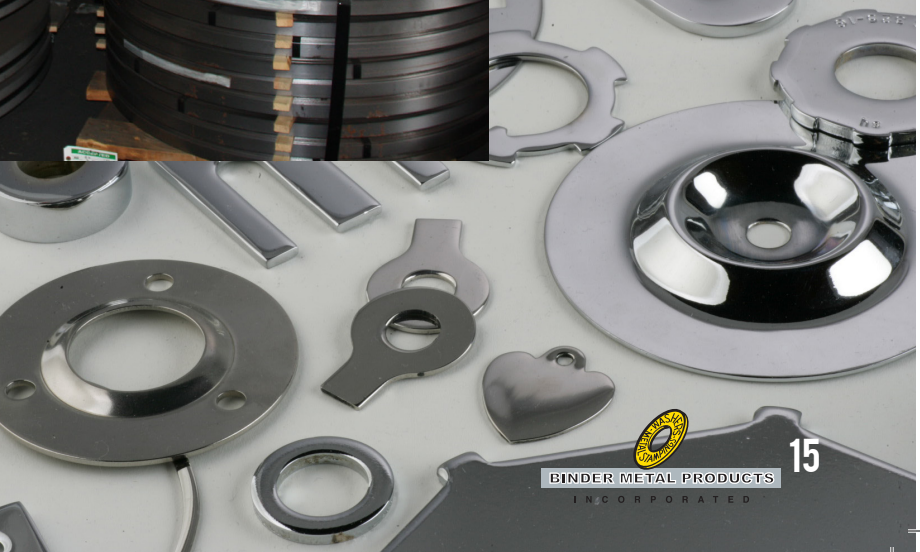
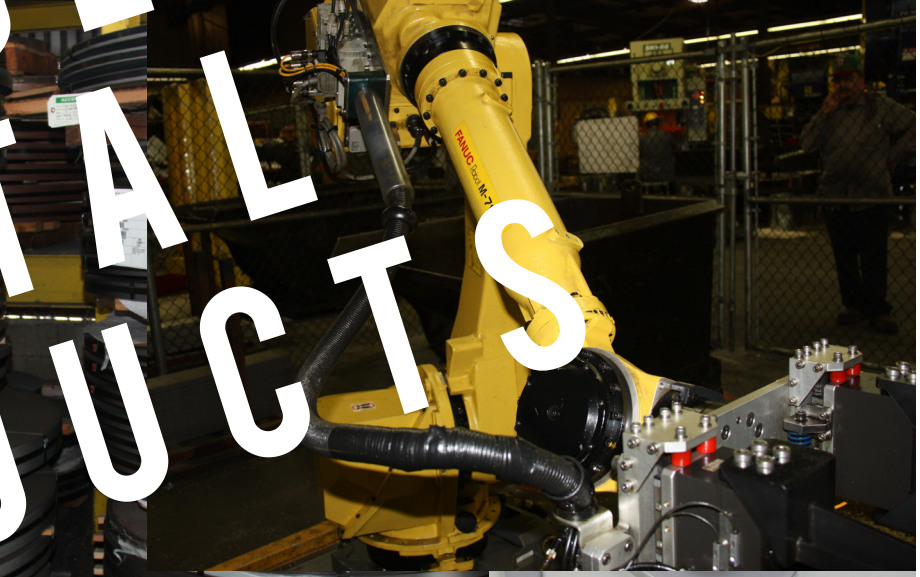
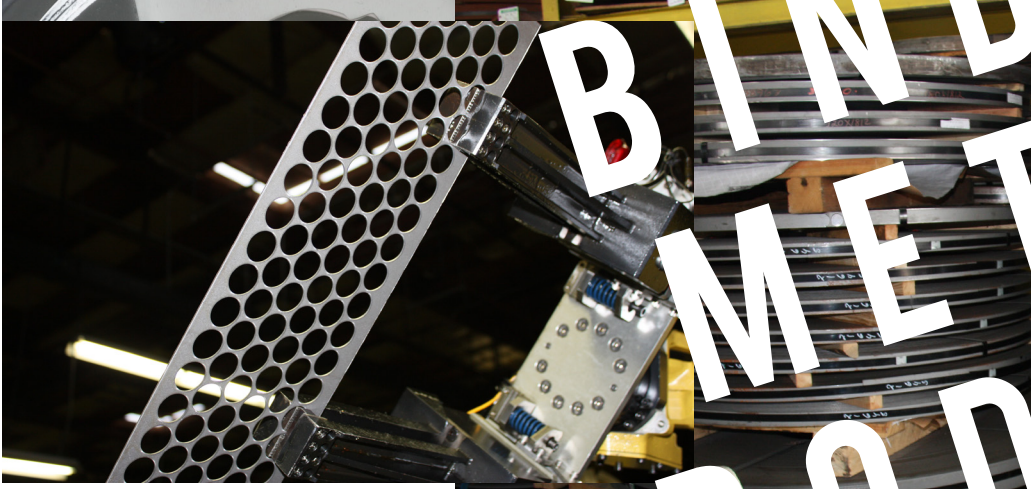
\*Binder Metal Uses a Custom Produced ERP and Manufacturing Software System  
Our company ERP system is all linked together from Quote processing, Order entry, Scheduling, Material and Inventory control, Production, Inspection to Accounting and Shipping.

### Quality Management Certifications:



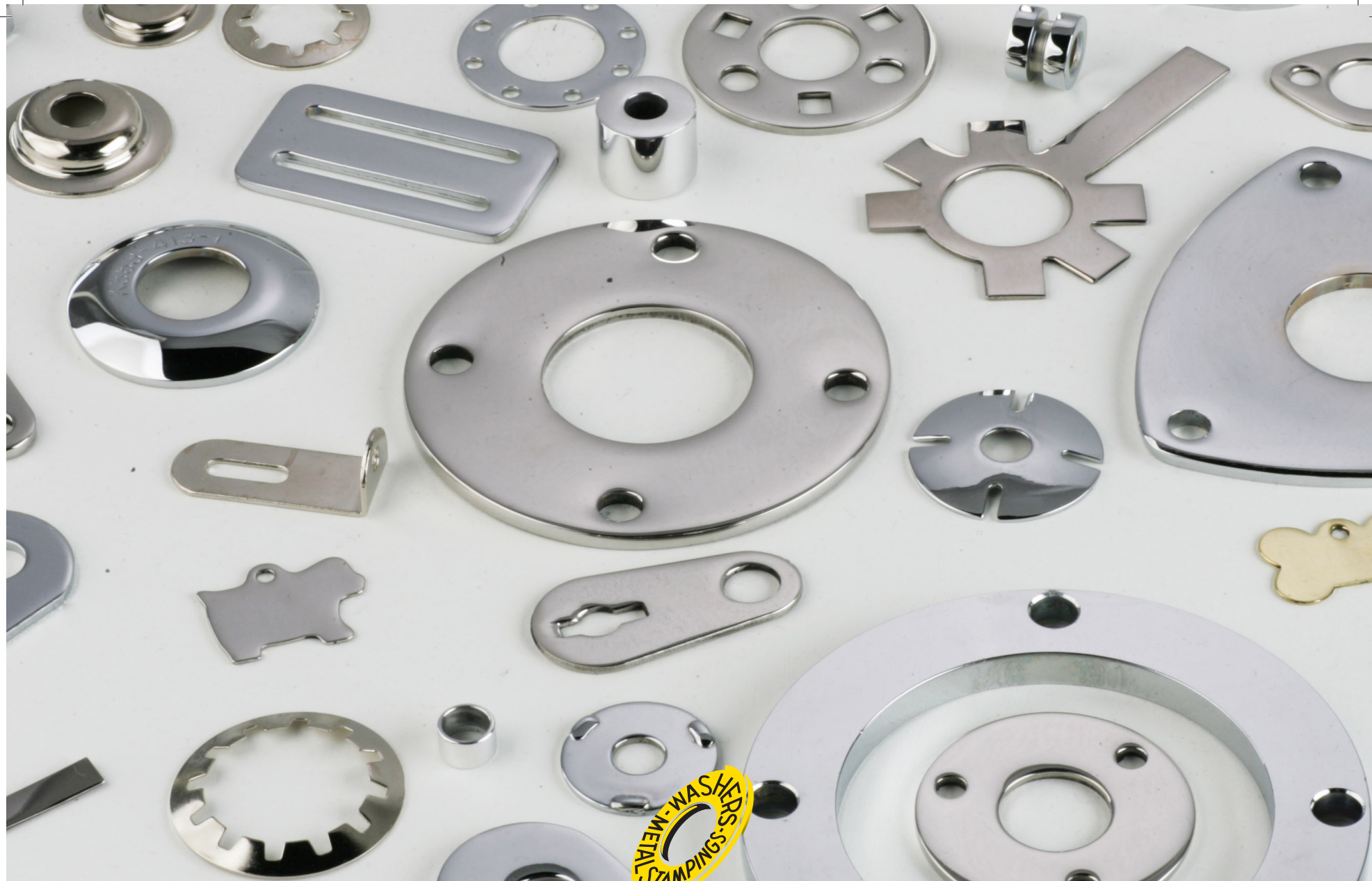


# BINDER METALS PRODUCTS



BINDER METAL PRODUCTS  
INCORPORATED





## **BINDER METAL PRODUCTS**

**I N C O R P O R A T E D**

**WWW.BINDERMETAL.COM**

**14909 S. BROADWAY  
GARDENA, CA 90248**

**ISO QUALITY  
MANAGEMENT CERTIFICATIONS  
AS9100 . ISO 9001**

**1-800-233-0896  
1-323-321-4835**