



## WE ARE MORE THAN A METAL PLATER

Bales Metal Surface Solutions provides expert finishing guidance that maximizes part performance. Since 1978, we've helped manufacturers better protect metal surfaces to improve productivity and cost savings.



### COATINGS

Diamond Chrome  
Diamond E.N.™  
Electroless Nickel  
Hard Chrome  
NIBORE™  
NICKLON™



### VALUE-ADDS

Coating Removal  
Masking  
SS Passivation



### POLISHES

Blast Finishes  
Diamond Finishes  
Paper Finishes  
Stone Finishes



Besides enabling us to increase capacity, Bales helped us  
reduce energy costs and use the mold to its full life expectancy.

BOB LAMMON

PRESIDENT, PHOENIX PROTO TECHNOLOGIES



## HOW BALES HELPS YOU SHINE



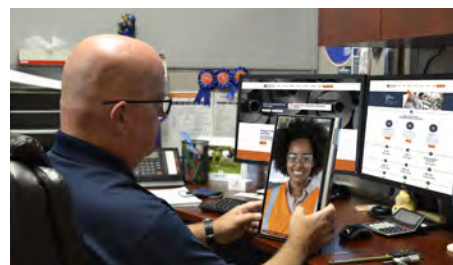
### EXPERT FINISHING GUIDANCE

Understand the most effective solutions to your distinct finishing challenges.



### SUPERIOR SURFACE PROTECTION

Gain lasting surface protection against corrosion, abrasion, and friction.



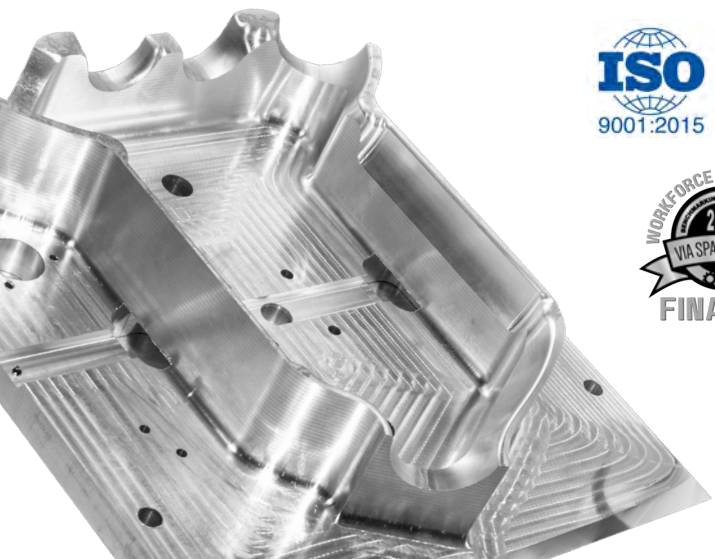
### GREATER PRODUCTIVITY & COST SAVINGS

Get outstanding results delivered on time so you can save on cost and meet customer demand.

## EXPERT FINISHING SINCE 1978

Bales is a second-generation family-owned business with a legacy of innovation, customer satisfaction, and integrity. For over 46 years, we've continuously evolved our metal finishing capabilities to best meet the needs of manufacturers worldwide.

Our services are as diverse as the industries we serve. From our recently updated facility in Downers Grove, Illinois, our team of surface experts helps customers maximize part performance every time they work with us.



# SURFACE FINISH CROSS REFERENCE CHART

Types of Finishes	Finish Numbers		RA Value
Diamond	#3 Diamond Buff	A1	0-1
	#6 Diamond Buff	A2	1-2
	#15 Diamond Buff	A3	2-3
Paper	600 Grit	B1	2-3
	400 Grit	B2	4-5
	320 Grit	B3	9-10
Stone	600 Stone	C1	10-12
	400 Stone	C2	25-28
	320 Stone	C3	38-42
Dry Blasted	#11 Glass Bead	D1	10-12
	240 Aluminum Oxide Blast	D2	26-32
	#24 Aluminum Oxide Blast	D3	190-230

# COATING COMPARISON CHART

	Diamond Chrome	Hard Chrome	Diamond E.N.™	NIBORE™ (Nickel Boron Nitride)	Electroless Nickel	NICKLON™ (Nickel PTFE)
Rockwell Hardness	85+ RC	72 RC	57 RC as Plated 70 RC After Post Bake	54 RC as Plated 67 RC After Post Bake	50 RC	45 RC
Coefficient of Friction	0.15 or less	0.20 or less	0.10 or less	0.05 or less	0.45 or less	0.10 or less
Applied Temperature	130°F	130°F	185°F	185°F	185°F	185°F
Maximum Operating Temp	1250°F	1250°F	1000°F	1250°F	1400°F	600°F
Corrosion Resistance Rating	★☆☆	★☆☆	★★★	★★★	★★★★	★★★
Abrasion Resistance Rating	★★★★	★★★	★★★	★★★	★★★	★★★
Release Rating	★★★	★★★	★★★	★★★★	★★★	★★★





## 6 STEPS TO SURFACE FINISHING WITH BALES

You get what you pay for.  
Bales customers rely on us project after project because they know they will always get the best finishing solution.



### 1. QUOTE

Quickly request a quote online. Then, get a reply within one business day from our application expert.

Prompt Expert Support  
Tailored Solutions  
Quality & Efficiency  
Value-Added Services  
(e.g., Custom Racking, Masking,  
Controlled Coating Thickness)



### 2. ORDER

Once your project is scheduled, you'll receive confirmation of all project details, including the instructions and cost.

Sales Order Acknowledgment  
Free Local Pick-Up  
Incoming Inspection  
Instruction Verification  
Traceability Photos  
Potential Expediting



### 3. PROCESSING

Trained technicians oversee your finishing project, ensuring quality and efficiency at every step.

Project Tracking Via Point-Of-Use M.E.S.  
Trained Technicians  
In-Process Inspection  
Limited Scheduled Downtime



### 4. QUALITY CONTROL

We ensure that your parts meet the highest standards of quality and performance and your exact specs.

X-Ray Certification  
Mil-Spec Certification  
Customized Inspections  
Final Inspection



### 5. DELIVERY

It's right, or we'll make it right.  
Enjoy a hassle-free experience receiving your finished parts.

Free Local Delivery Or Your Preferred Carrier  
Tracking Info  
Proper Packaging  
Feedback Survey  
60-Day Window For Issue Reporting  
Easy R.M.A. Process



### 6. POST-SALE SUPPORT

We're not your supplier; we're your partner. You'll receive comprehensive support even after your project finishes.

Live Support In-Person, Via Live Chat Or Telephone  
Preventative Maintenance Training  
Digital Finishing Resources And Education



## REQUEST A QUOTE

Scan the QR code to request a quote online, and get a reply within one business day.