

Industrial Anodizing and Electroplating

Surtronics, Inc

SURTRONICS, INC
ELECTROPLATING & ANODIZING

A Brief History



Angela Stanley CEO/President

- We are very proud to be a second generation family business that has provided quality plating for over forty years.
- Terry Smith and Bill Wade founded the company in 1965.
- In 2007, Angela Smith Stanley acquired the Wade family stock and Surtronic became a solely woman owned business.

1st Location, Glenwood Avenue

(Former Laundromat)

1965-1969



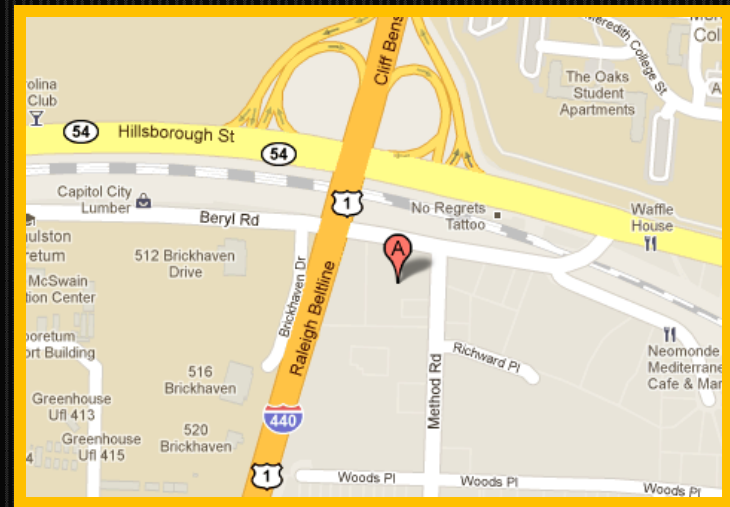
2nd Location, Hargett Street

1969-1973



4001 Beryl Rd, Raleigh, NC 27636

1973- Present



Surtronics' Valued Employees



1 Location, 43 Employees, Average Employee Tenure = 16 years



Organization Chart
March 13, 2013

Angela Stanley
CEO

Lee Bradshaw
General Manager

QUALITY

Rick Derrenbacher
Quality Manager

Tai Edwards
*Quality Director
 Sr. Account Rep*

Mike Breslin
Sales Manager

Cliff Grissom
Safety/Purchasing/Personnel

Sonia Bradshaw
Accounting

Ray Lane
Receiving / Shipping

Jason Miller
QC Inspection

Lindsay Benac
Customer Service Rep

Beth Allen
Customer Service Rep

Tom Dillard
Lab Tech

Steve Capozzi
Sr. Maintenance

James Blue
Environmental Coordinator

Eric Sterken
Receiving / Shipping

Greg Smith
Production Supervisor

Summer Mims
Lab Tech

Kevin Adams
Maintenance

Open Position
Receiving / Shipping

Chromate

Passivate

Plating

Anodize

D-61
 Chromate

D-101
 Passivate

D-110
 Manual

D-111
 Auto

D-111
 Auto

Joe Fuller

John Mooney
 Darryl Kelsbergen

Tracy Armstrong
 Tony Jones
 Allen Daniels

Roger Miller
Line Leader

John Mooney
 Darryl Kelsbergen
 Joan Krier
 Sophie Jimenez
 Terry Adams

D-10
 Gold

D-20
 Silver

D-21
 Silver

D-30
 Silver

D-40
 E-Nickel

D-50
 Nickel Tin

D-60
 Tin

Ana Cornejo
 Elfega Mendoza
 Joan Kreir
 Irene Lopez
 Beatriz Rodriguez

Jose Rodriguez
Blasting

Jason Tomberlin
 Mike Breslin
 Frank Beard

Jason Tomberlin
 Randy Merritt
 Frank Beard

Randy Merritt

Adonia Katikiri
 Camilio McKoy

Jon Eric VanRoekel
 Sean Smith

Rodney Price
 Alfredo Garcia

Rodney Price
 Alfredo Garcia

D-70
 Cadmium

D-80
 Zinc

D-90
 Zinc

D-91
 Zinc

D-100
 Nickel Chrome

D-130
 Zinc

D-170
 R&D

Fred Merchison
 Randy Merritt

Sean Smith

Fred Merchison
 Carmen Leonides
 Alvaro Gomez

Frank Beard
 Fred Merchison
 Alfredo Garcia

Alfredo Garcia

Sean Smith

Tom Dillard

Surtronics Mission Statement:

SURTRONICS, INC.

ELECTROPLATING & ANODIZING



◆ *Mission Statement* ◆

As Valued Employees of Surtronics, We Must:

- ◆ Support our Manufacturing Customers
- ◆ Add Value to our Customers' Products in an Ecologically Responsible and Safe Way
- ◆ Stay on the Leading Edge of Technology
- ◆ Be Competitive, Efficient, and Profitable

How our Shop Works



Receiving Dock



Receiving Clerk
counting parts

- Parts are delivered to Surtronics' Receiving Bay.
- The Parts are then opened, visually inspected, and counted.
- The paperwork is taken to the front office where the job card is generated.

How our Shop Works

- The paperwork is attached to the parts and the job is delivered to the respective department's staging area.
- The job is placed in queue. Everyday our Production Manager monitors what jobs will be plated while planning for possible expedited jobs.

08/10/2011 12:35:45
AWA:AWA

Surtronics, Inc. Job Order

Job No: 899129
Job Received: 08/10/11
Qty Ordered: 263711
Page: 1
Dept: 090

Customer PO No: 450043833 TP
Lot No: 10760
PLN No: 10760
INCL: 10760
Grp: 10760

Material: 10760
Subst: 10760
Part: 10760
Job: 10760
Assign: 10760
10760

Specs: 11040 A00
Process Code: 10760
Lower: 0.000150 Upper: 0.000200 Toler: 10760
DIN: 10760
ZN YELLOW: 0.000150 0.000200

Form # 12: First QC Checklist (REV 6, 03/01/2010, MOD)

Appearance and Specifications: (All visual inspection performed to Table 1 AQL level 1.0)

Let Run: _____ Sample Size: _____

Where Labels Required? YES NO
Correct Finish Type? YES NO N/A Verify Type: _____ (check customer paperwork and job card)

Control Chromatic Color? YES NO N/A Verify Color: _____

Discoloration of Finish? YES NO N/A

Check for WRITER SPECS, STAINS, ETCHING, HIGH MARKS, SURFING (if Yes, circle at that spot)

Correct Consistency of Thickness or Spec? YES NO N/A Circle at Any Readings and record min and max thickness

Address (Please Test)? YES NO N/A

Bent Test YES NO N/A

Bleed Test YES NO N/A

Barbs Test YES NO N/A

Tap Test YES NO N/A

In agreement signed by operator? YES NO N/A Are Barbs Certifications enclosed? YES NO N/A

Adjusted Size 1 Yes: YES NO N/A

Adjusted Size 2 Yes: YES NO N/A

Spec/Req/Fin Names above have been met: YES NO N/A

Are orders required? YES NO (Use file #)

FAIL: Please apply RED sticker, write up internal report in computer, and give J2E Call back to Production or, if parts are to be scrapped, to QC Manager.

Job Card

JOB_NO	QNT_REC	QNT_SHIPD	DATE_RECVD	DATE_REQD	PARTNO	SHIPCOMP	DEPT	JOB5
595022	10,000.00	0.00	09-Aug-2011	16-Aug-2011	7919-91145	Deringer - Ney Inc	010	
591660	539,200.00	60,000.00	07-Jun-2011	14-Jun-2011	9-00-0001-1 REV. A	Autosplice / BLS Inc.	010	
595072	223,040.00	60,000.00	07-Jun-2011	14-Jun-2011	9-524041610LL	Autosplice / BLS Inc.	010	
594622	6,100.00	0.00	01-Aug-2011	08-Aug-2011	10-70138 REV B	Deringer - Ney Inc	010	2
594802	300,000.00	0.00	04-Aug-2011	11-Aug-2011	10-71398 A	Deringer - Ney Inc	010	
594829	2,500.00	0.00	04-Aug-2011	11-Aug-2011	9887-1272-1	Shallico, Inc.	010	
594830	25,000.00	0.00	04-Aug-2011	11-Aug-2011	9887-306-2	Shallico, Inc.	010	
594848	220,000.00	0.00	04-Aug-2011	11-Aug-2011	51-80062 REV D	Deringer - Ney Inc	010	
594844	12,000.00	0.00	04-Aug-2011	11-Aug-2011	QT05012-009 REV. C	QUALITY THERMISTOR	010	
594903	1,000.00	0.00	05-Aug-2011	12-Aug-2011	9-1617291-7/A797-2	TYCO ELECTRONICS	010	
594950	4,000.00	0.00	08-Aug-2011	15-Aug-2011	23-4859-35 REV P 3	EATON IND. MFG GMBH	010	
595041	206,000.00	0.00	09-Aug-2011	16-Aug-2011	10-71398 A	Deringer - Ney Inc	010	
595049	1,000.00	0.00	09-Aug-2011	16-Aug-2011	08020-1-EI	Electro Switch Corp	010	
595048	110.00	0.00	09-Aug-2011	16-Aug-2011	86-30-0532	Electro Switch Corp	010	
595019	520.00	0.00	09-Aug-2011	16-Aug-2011	091032-2	MOOG COMPONENTS GROUP	010	13
594413	134,000.00	0.00	27-Jul-2011	03-Aug-2011	130-38137	Deringer - Ney Inc	020	
594396	5,732.00	0.00	27-Jul-2011	03-Aug-2011	P82889-11	Electro Switch Corp	020	
583062	10,000.00	0.00	29-Jul-2011	05-Aug-2011	W-FU-22 REV. Z	Electro Switch Corp	020	
594527	12,000.00	0.00	29-Jul-2011	05-Aug-2011	02-100-07-06	Stamp-Tech Precision	020	
583072	30,000.00	0.00	29-Jul-2011	05-Aug-2011	W-RK-108	Electro Switch Corp	020	
594620	5,034.00	0.00	01-Aug-2011	08-Aug-2011	030926-001	MOOG COMPONENTS GROUP	020	
594608	998.00	0.00	01-Aug-2011	08-Aug-2011	LOT-INDOFAST	Infonast	020	7
594696	16,226.00	0.00	02-Aug-2011	09-Aug-2011	C525006-11	Electro Switch Corp	020	

Work In Progress Spreadsheet

How our Shop Works



Parts are rack or barrel plated.



- Depending on the size of the part the job is either racked or placed in a barrel.
- Through a series of cleaning, rinsing, and acid pickling the parts are processed to the customer's specification.

How our Shop Works



Operator checking for plating thickness.



Quality Inspector checking for visual defects.

- Next the job will be plated according to the customer's specification.
- Upon completion of plating the parts will be inspected for any possible defects.

How our Shop Works



Operator completing
a Rework
Authorization Form

Surtronics, Inc. 5.1.5 Form F-05: Quality Procedure Manual
Internal Rework Authorization
(REV 3: 02/07/11 MDR)

Form F-05: Internal Rework Authorization Form

Date: _____
Department: _____
Job Number: _____
Process Type: _____
Quantity Reworked: _____
All [] Partial []

Reason for Rework: _____

Authorization: _____

- If the parts do not meet our plating standards the part will be reworked according to procedures set forth in Surtronics Quality Management System.
- A Rework Authorization Form will then be completed and attached to the paperwork

How our Shop Works

ISO 9001-2008 CERTIFIED

Company Information:
Innovative Fabrication, Inc.
4001 Stryker Road
Raleigh, NC 27604
Phone: 919-844-2200 / Fax: 919-844-2200
www.innovativefab.com

Customer Information:
Customer: [Blank]
Ship Date: 06/12/11
Ship To: [Blank]

Part Information:
Part No.: [Blank]
Description: [Blank]

Certificate of Compliance
We hereby certify that all articles furnished in the quantities stated, as called for, have been inspected and tested and are in compliance with all applicable drawings, specifications and requirements of the said purchase order.

QTY RECEIVED	Part No. & Description	Qty ORDERED
220	203110 ALLOW BOX [Blank] [Blank] [Blank] TYPE 1 8000-0005 SEAL	220

[Signature]
Authorized Representative

Certificate of Compliance

- Once the parts pass inspection the job will be delivered to Shipping.
- At this time a Certificate of Compliance is generated and included in the shipment.



Parts are packaged in the manner in which received.

How our Shop Works

- Jobs are shipped out of the shipping dock, via the customer's preferred carrier.
- Invoices are generated when parts are shipped.



Shipping Dock

Industries Served

We are proud to serve 75 major and numerous smaller customers in the following industries:

- Aerospace - Walter Kidde (Sunstrand), AAR Cargo Systems (Boeing, Airbus), BE Aerospace, Honda, Spirit, Dill Air, TW Metals
- Defense – ITT Night Vision, Wakefield/Simon (Curtis Wright), Mecca, Ruhl Tech, HiTech, Sirchie
- Pharmaceutical – Alyward, Accurate Machine
- Medical - Teleflex, TransEnterix, Triangle Biomedic
- R&D - Duke, NC State University, Univ. of North Carolina
- Power and Energy – Nuclear, ABB, Siemens, GE, Reinhausen, Quality Switch, Sunbelt
- Telecommunications and Electronics - Eaton, Tyco, Corning, Electro Switch, Shallco)
- Automotive - Nissan, Toyota, Hyundai, Honda, NASCAR, After Market Accessories
- Commercial/Industrial - John Deere, Flowserve, Ingersol Rand, Schindler, Moog, Moen
- Outdoor Recreation – Truball, Major Machine, Honda Marine

We meet all customer, military, automotive, & ASTM specifications.

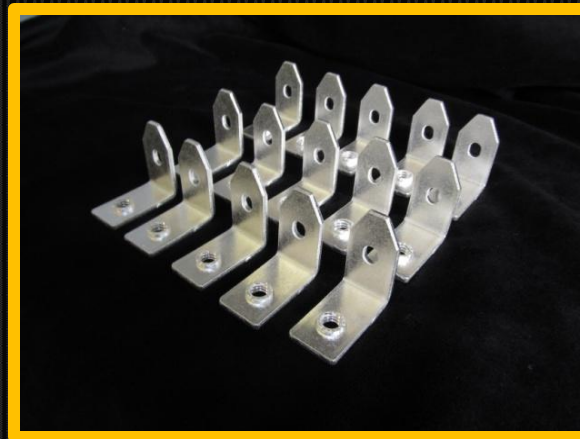
ISO 9001 Certified Metal Finishing Company



Base Metals



Finishes Available



Finishes Available

- Anodizing
 - 12' Automated, 6' Automated
 - Type I Chromic
 - Type II Conventional
 - Type III Hard Coat
 - Bright Dip
 - 8 Organic Dyes
- Busbar/Tin
 - 12' Line
 - Bright/Dull
 - Rack/Barrel
- Cadmium
- Chromate Conversion
 - 12' Line
- Chromium
- Cyanide Copper
 - 6 lines
 - Rack/Barrel
- Cupric Oxide
- Electroless Nickel
 - 1 Line
 - Mid PHOS

Finishes Available (cont'd)

- Electro Polish
- Passivation
 - QQ-P-35C
 - Type II, VI, VII
- Gold
 - Cobalt Hard
 - Soft
- Nickel
 - 4 lines
 - Barrel/ Rack
 - Bright and Dull Sulfamate
- Cyanide Silver
 - 2 lines Barrel
- 1 line Rack
- Tin and Tin/Lead
 - 90/10
 - 60/40
- Chloride Zinc
 - Small Barrel/Large Barrel
 - Auto Rack/Manual Rack
 - Black, Olive Drab, Yellow, ROHS Clear, ROHS Yellow
- Other Processes
 - Bead Blasting
 - Heat Treatment
 - Embrittlement Relief

Finish Specification Cross Reference Chart

Specification Cross Reference Chart						
Common Name	MIL-or-QQ	AMS	ASTM	MIL-STD 171 Finish No.	MIL- F-14072 Finish No.	Other
Anodize,Chromic non-dyed	MIL-A-8625 Type I Class I Type IB	AMS-2470, AMS-2468/2469 AMS-2471, AMS-2472	ASTM-B-580 Type G	7.1.1; 7.1.3	E511, Type I	
Anodize,Chromic dyed	MIL-A-8625 Type I or IB, Class 2		ASTM-B-580 Type G	7.1.2	E522, Type I	
Anodize, Sulfuric, non-dyed	MIL-A-8625 Type II, Class I	AMS - 2471	ASTM-B-580 Type B Thru F	7.2.1	E511, Type II	
Anodize Sulfuric, dyed	MIL-A-8625 Type II, Class 2	AMS-2472	ASTM-B-580 Type B Thru F	7.2.2	E511, Type II	
Black Oxide	MIL-C-13924	AMS-2485				
Cadmium	QQ-P-416	AMS-2400				
Chromium	QQ-C-320	AMS-2406 Hard	ASTM-B-456			
Chromate	MIL-C-5541 Class IA	AMS-2473, AMS-2474	ASTM-B-449	7.3.1	E513	
Copper	MIL-C-14550	AMS-2418	ASTM-B-734, ASTM-B-281			
Electroless Nickel	MIL-C-26074 (cancelled, but still used-See AMS & ASTM)	AMS-2404, AMS-2405	ASTM-B-733, ASTM-B-656	1.4.3 Thru 1.4.3.4	M265, Grade A; M357, Grade B	NACE-T-6A-54; ISO 4527 MIS 23483
Electropolish			ASTM-B-254			
Gold	MIL-G-45204	AMS-2422, AMS-2425	ASTM-B-488	MIL-STD-865		Brush Plating Rockwell 580-0143
Hardcoat, non-Dyed	MIL-A-8625 Type III, Class I	AMS-2468, AMS-2469	ASTM-B-580 Type A	7.5.1	E514	
Hardcoat, Dyed	MIL-A-8625 Type III, Class 2		ASTM-B-580 Type A	7.5.2	E514	
Hardcoat/Teflon	MIL-A-8625, Type III, Class I or Class 2 with Teflon MIL-A-63576, Type I	AMS-2482				SM-B-657374
Nickel, Bright	QQ-N-290	AMS-2403	ASTM-B-689			
Nickel, Sulfamate	MIL-P-27418 QQ-N-290	AMS-2403, AMS-2424	ASTM-B-689			
Passivate	MIL-STD-753 QQ-P-35, Types II:VI:VII:VIII		ASTM A380 Codes F Thru M; ASTM-A-967, ASTM-B-449	5.4.1	E300	MIS-13219 MIS-20134C
Silver	QQ-S-365	AMS-2410, AMS-2411, AMS-2412	ASTM-B-700			
Tin, Bright	MIL-T-10727	AMS-2408	ASTM-B-545			Rockwell 580-0605
Tin, Dull	MIL-T-10727	AMS-2408	ASTM-B-545			Rockwell 580-0151 Rockwell 580-0225
Tin, Lead Alloy (90/100)	MIL-P-81728					
Zinc		AMS-2402	ASTM-B-633			
Zincate			ASTM-B-253			
Other Specially Engineered Finishes & Services						
Salt Spray			ASTM-B-117			
Quality System						ISO 9001:2008 AS9100C
X-Ray			ASTM-B-568			

ISO 9001-2008 Certified Metal Finishing Company

ISO Certification

We are in the process of Qualifying for AS9100C



Core Competencies

- Quality
- Custom Certifications
- Quick Turnaround
- Precious Metals Au/Ag
- Tin/Tin Alloys
- Anodizing
- Custom Masking
- Added Value

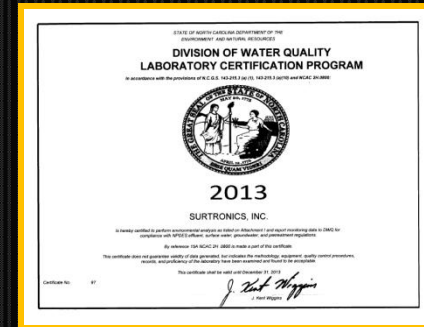
In house, State Certified Testing Lab



AutoTech 36x42 Salt Spray Cabinet,
Testing per ASTM B117 Spec



Perkin Elmer AA400 Waste
Water Sample

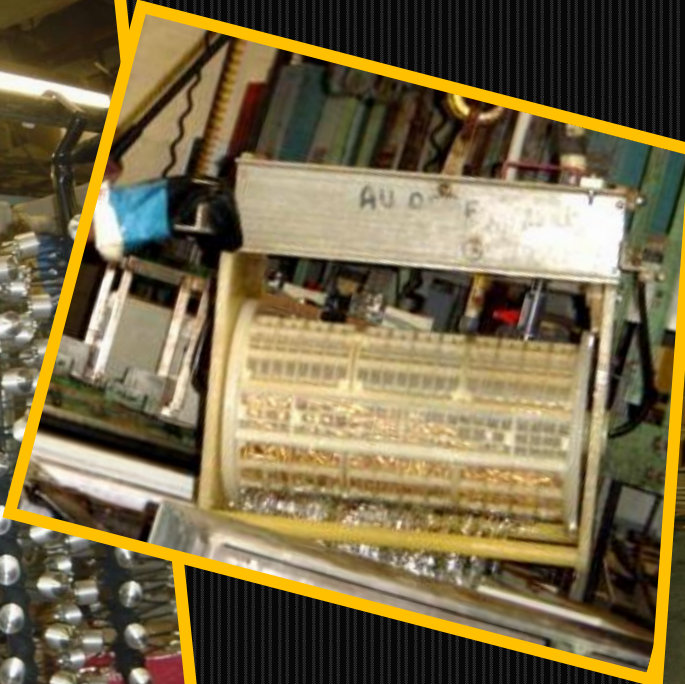


Surtronics Inc's Water Quality Certificate



(2) Fischer Xray XDL-B-XYZPT8 System S

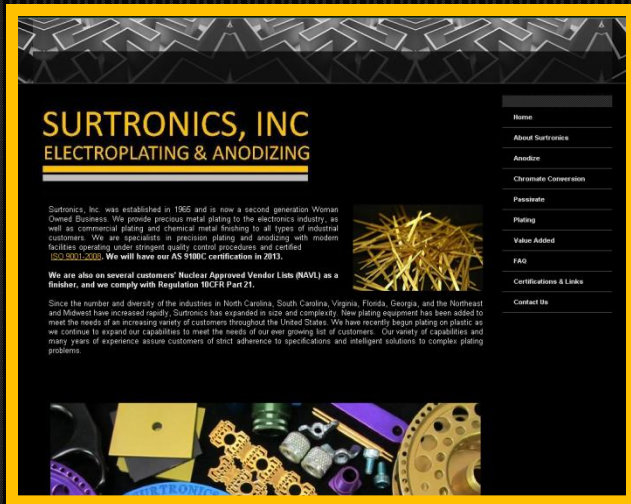
Flexible processing equipment to match your job.



We have an extensive Waste Treatment Department that exceeds governing regulations.



Visit Us on...



- The Web at www.surtronics.com

- Like us on



- Add us to your network



**You Start It and We'll Finish It !
Right and On Time**

**When you partner with Surtronics
You will have the Advantage of:**

- ✓ Service to your Specifications
- ✓ The economy of a single source for all your finishing needs.
- ✓ Quality from beginning to end, the first time.
- ✓ World class customer support.