

QUALITY

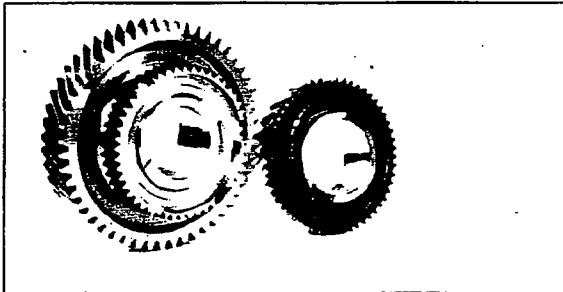
SERVICE

RELIABILITY

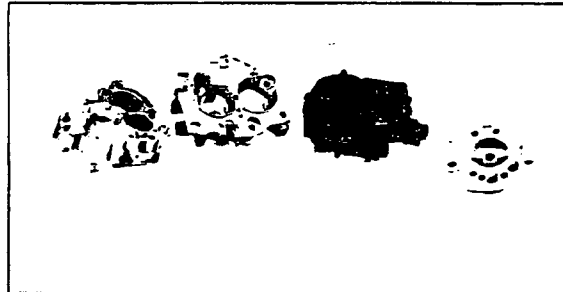


SPECIALTY PROCESSING

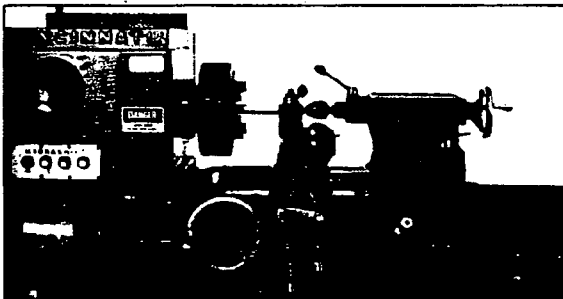
**ELECTRON BEAM
WELDING**



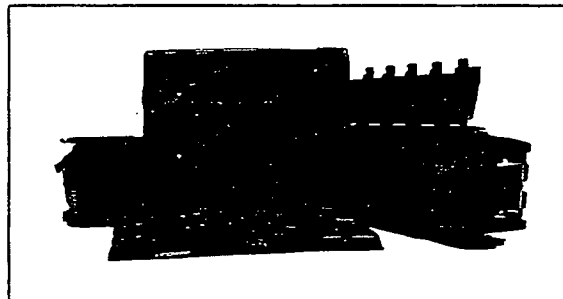
**VACUUM
IMPREGNATION**



SPECIAL MACHINING



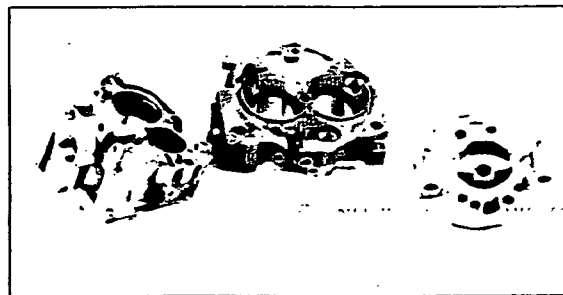
**PLASTIC DUNNAGE
WASHING**

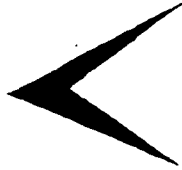


**LIGHT MACHINING &
ASSEMBLY**



HAND DEBURR





**OFFERS THE FOLLOWING
SPECIALTY PROCESSING
SERVICES:**

ELECTRON BEAM WELDING

- HAMILTON STANDARD MODEL EBW 626264
7.5 KW OUTPUT 150 KV 50 MILLIAMPS
CHAMBER 5' HIGH x 5' DEEP x 8' LONG
- EXTREMELY LOW HEAT DISTORTION
- NO CONTAMINATION OR OXIDATION SINCE
WELDING IS CARRIED OUT IN A HARD
VACUUM
- ABILITY TO JOIN METALS VARYING IN
THICKNESS FROM THOUSANDTHS OF AN
INCH TO THREE INCHES
- ABILITY TO WELD MANY DISSIMILAR METAL
COMBINATIONS RANGING FROM 1%
CARBON STEELS TO MANY NONFERROUS
MATERIALS

SPECIAL MACHINING

- MACHINING FACILITIES INCLUDE LATHES,
MILLS, SURFACE GRINDING AND DRILLING
EQUIPMENT (SEE FACILITIES LIST)
- WE SPECIALIZE IN LOW VOLUME WITH
TOLERANCES TO .0002"
- COMPLETE QUALITY AND INSPECTION
CAPABILITIES (SEE FACILITIES LIST)
- ALL TYPES OF METALS AND MATERIALS
- CERTIFIED U.S. GOVERNMENT/MILITARY
SUBCONTRACTOR

LIGHT MACHINING & ASSEMBLY

- WE CAN MACHINE AND ASSEMBLE PER
YOUR SPECIFICATION
- LARGE AND SMALL QUANTITIES
- COMPLETELY FLEXIBLE PROCESSING

VACUUM IMPREGNATION

- CERTIFIED USER OF LOCTITE
CORPORATION ANAEROBIC RESIN
PRODUCTS
- SEALS POROSITY IN ALL TYPES OF METAL
CASTINGS AS WELL AS POWDERED METAL
- ABILITY TO IMPREGNATE CASTINGS
BEFORE OR AFTER MACHINING
- LARGE AND SMALL BATCH SIZES
- PART SIZE FROM A FRACTION OF A CUBIC
INCH UP TO A MAXIMUM OF 2.4 CUBIC FEET
- ALSO SEALS ELECTRICAL AND ELECTRONIC
COMPONENTS, WELDMENTS, FIBERGLASS,
COMPOSITES AND CERAMICS

PLASTIC DUNNAGE WASHING

- WE SPECIALIZE IN WASHING ALL TYPES AND
SIZES OF PLASTIC TRAYS, TOTES, SKIDS
AND DIVIDERS
- HIGH PRESSURE/TEMPERATURE WASH (1500
PSI/500 DEGREES)
- HIGH PRESSURE RINSE AND AIR BLOWOFF
WITH BATCH DRYING
- SYSTEM IS COMPLETELY FLEXIBLE TO MEET
YOUR QUALITY AND QUANTITY
REQUIREMENTS

HAND DEBURR

- WE SPECIALIZE IN ALL TYPES AND SIZES OF
CASTINGS AND FORGINGS
- NO JOB IS TOO BIG OR TOO SMALL
- LARGE AND SMALL QUANTITIES



PLASTIC DUNNAGE WASHING

Over the last few years, many large manufacturing companies have switched from using cardboard dunnage to plastic dunnage for cost and environmental reasons. The costs of cardboard and landfill disposal have risen dramatically. Permanent plastic dunnage has been industry's answer to these increased costs. Molded plastic trays and totes made of high impact, temperature resistant plastics have proven to be nearly indestructible in normal plant use. The longlasting capability of the plastic has led to significant cost reductions in the non-value added function of material handling. In the future, more and more companies will implement plastic dunnage programs as they try to control costs and compete in the world marketplace.

A major characteristic of plastic dunnage often overlooked by material handling planners is that the plastic becomes contaminated with oils, chips and plain dirt after repeated plant use. Do your customers often comment that the quality of your product is excellent but then complain that the parts arrived contaminated from oil or grease from your dunnage? How about in-process dunnage? Would you want your customer to see his or her product being transported through your process on contaminated trays? At best, contaminated dunnage may be costing you money for extra cleaning steps or rework. At worst, you may lose an existing or potential customer because of contamination.

Anionics has the answer to your contamination problem. We offer a complete Plastic Dunnage Washing service featuring a high volume but flexible washing system designed to meet your toughest cleaning problems. Listed below are some of the advantages we offer:

- **Cost Effective.** The highly automated system gives us a cost advantage over other more labor intensive washing processes. We pass this savings along to you in the form of low unit costs.
- **Quality.** The automated fast rack washing machine provides for a consistent wash every time. Parameters are monitored to ensure that the wash process is in control.
- **Flexibility.** The controls are variable. We can design and implement a washing program to meet your specific needs.
- **Service.** We provide rapid turnaround times so your dunnage inventory is clean and in constant use, not sitting in a warehouse waiting for wash.

Let **Anionics** help you satisfy your final or in-plant customers with clean plastic dunnage washed by our automated process. Give us a call today at (315) 736-0891.



VACUUM IMPREGNATION

Vacuum Impregnation is a process used to seal porosity in many materials and products ranging from aluminum die castings to powder metal and electrical components. The sealant we use in the process is an anaerobic resin developed and manufactured by Loctite Corporation. In the vacuum impregnation process, porous parts are placed inside a vacuum chamber containing the anaerobic resin. As air is pumped from the chamber, the resin is drawn into the porosity in the parts. The anaerobic characteristic causes the resin to cure at room temperature in the absence of air. Some of the major advantages of Vacuum Impregnation using Loctite anaerobic resin are:

- The cured resin resists all types of solvents.
- Capability of operating at temperatures up to 400 degrees Fahrenheit.
- No bleedout of resin since cure is anaerobic rather than heat activated.
- Parts can be impregnated before or after machining or finishing operations.
- Cured sealant is compatible with surface treatments such as plating or painting.
- Sealing of porosity extends tool life in machining operations.
- Cost effective - Saves money since scrap costs are significantly reduced.

Listed below are some of the applications where Vacuum Impregnation using Loctite anaerobic resin has proven beneficial to industry:

- Die Castings (Aluminum, Magnesium, Zinc)
- Plastics & Ceramics
- Forgings, Sand Castings
- Electrical Parts (Housings, Stators)
- Powder Metal
- Electronic Components (Coils, PCB's)

ANIONICS has been an authorized Loctite user for nearly 20 years. We offer quality Vacuum Impregnation service at a very competitive cost with rapid turnaround times. Contact us today at **(315) 736-0891**. Let us help you develop and implement cost-effective solutions to your sealing problems.



ELECTRON BEAM WELDING

SUCCESSFULLY COMPLETED PROJECTS

- Steam Turbine Diaphragm

Material: 410 Stainless Steel to Carbon Steel, 347 Stainless Steel
Size: 18" To 61" Diameter
Weight: Up to 1200 Pounds
Penetration: 1/4" Up to 2"
Inspection: Radiographic, Ultrasonic, Visual

- Nuclear Warhead Casings

Material: Titanium 6AL4V
Size: 19" Diameter X 24" Long
Penetration: 1/3" and 5/8"
Inspection: Radiographic

- Superconducting Motors & Generator Assemblies

Material: Tri-metal - Copper, Nickel, Steel
Size: 12" to 36" Diameter
Penetration: 1/8" to 7/8"
Inspection: Ultrasonic, Visual

- Diaphragm Coupling Assemblies

Material: 4140
Size: 6" to 40"
Penetration: 1/4" to 1"
Inspection: Radiographic, Ultrasonic, Visual

- Vibration & Fatigue Test Fixture For Space Environment Testing

Material: 6061 Aluminum
Size: Envelope 20" X 36"
Penetration: 1/2", 1" and 2"
Inspection: Visual



ELECTRON BEAM WELDING

SUCCESSFULLY COMPLETED PROJECTS

- **Automotive Transmission Gears**

Material: Steel
Size: 7 1/2" Diameter
Penetration: 1/4" Up to 3/8"
Inspection: Radiographic, Ultrasonic, Visual

- **Lever Arm Assemblies**

Material: 4140 Cast
Size: 1" Diameter
Penetration: .050" to .070"
Inspection: Visual

- **Leaf Contact Assemblies**

Material: Bi-Metal, Copper, Nickel
Size: 6" W X 2" D X 3' L
Penetration: .880"
Inspection: Visual, Continuity Test

- **Contact Plates**

Material: Bi-Metal, Copper, Nickel
Size: 8" W X 3" D X 24" Long
Penetration: 1"
Inspection: Visual

- **Steel Drive Shafts**

Material: Steel
Size: 1 1/2" Diameter
Penetration: .050"
Inspection: Visual



ELECTRON BEAM WELDING

Electron Beam Welding is used to join metals varying in thickness from a few thousandths of an inch to three inches, to weld many dissimilar metal combinations and to join normally unweldable metals ranging from 1% carbon steels to many non-ferrous materials. Welding is carried out under a hard vacuum so that no contamination of the welded material or oxidation of the part occurs. This advantage coupled with the high welding speed and precise control of heat input results in weld joints generally as strong as the base material. Distortion during welding is minimal so that the weld may often be used to assemble a finished product without subsequent machining. Listed below are some of the many different metals joined by Electron Beam Welding:

Aluminum Alloy	Incoloy	Nickel
Beryllium	Inconel	Silver
Carbon Steel	Invar	Stainless Steel
Columbium	Kovar	Titanium
Copper	Low Carbon Steel	Titanium Alloy
Gold	Magnesium	Tool Steel
Hastelloy	Molybdenum	Tungsten
Haynes Stellite	Monel	Zirconium

Our large vacuum chamber (5' High X 5' Deep X 8' Long) can handle a wide array of part sizes and weights. Our Hamilton Standard EB Welder uses 7.5 KW and is capable of penetrating up to three inches deep. The following fixtures are available to position parts for welding:

- Rotary Fixture: This variable speed fixture is used for welds in either the vertical or horizontal planes. It can be adjusted for welds up to 30 degrees.
- 12 Position Rotary Fixture: This twelve spindle fixture has the capability for welds in the vertical and horizontal planes, for angular adjustments and each position can be indexed. Speed is variable.
- Regular Table: This variable speed fixture consists of a 30 inch square table for linear welds. The other fixtures are mounted on this basic table. Table movement is externally controlled.

We have the capability to custom design and build fixtures and adaptors for your specific application. Whether your application is for Research and Development, Prototypes or Production, we at **Anionics** are ready to satisfy your welding needs. Please give us a call today at (315) 736-0891.

QUALITY

SERVICE

RELIABILITY

**INSPECTION
EQUIPMENT**

- 18" X 24" GRANITE SURFACE PLATE
FEDERAL GGG-P-463, GRADE A
- FOWLER 12" HEIGHT TRANSFER
MICROMETER
- VERNIERS AND MICROMETERS:
HEIGHT GAGE, HELIOS 20.5"
HEIGHT GAGE, B & S 12"
DIAL INDICATOR, FEDERAL .0001
DIAL INDICATOR, FOWLER .0001
DIAL INDICATOR, B & S .0001
DIAL INDICATOR, FOWLER .0005
DIAL MICROMETER, MITUTOYO .0001
1" MICROMETER, MITUTOYO .0001
1" MICROMETER, FOWLER .0001
2" MICROMETER, FOWLER .0001
3" - 4" MICROMETER, LUFKIN .0001
4" - 5" MICROMETER, B & S .001
5" - 6" MICROMETER, B & S .001
12" HEIGHT MICROMETER, FOWLER
6" DIAL CALIPER, STARRETT .001
6" CALIPER, CRAFTSMAN .001
13" CALIPER, HELIOS .001
1" DIAL DEPTH GAGE, STARRETT .001
TELESCOPING GAGE, STARRETT
5/16" - 6"

- SURFACE PLATE, GRANITETT 18" X 24"
- GAGE BLOCKS, HULTGREN .10025" - 4"
(84 PCS)
- GAGE BLOCKS, HULTGREN .010" - .090"
(28 PCS)
- V-BLOCKS, FOWLER 90 X 70 X 125

**LABORATORY
EQUIPMENT**

- OHAUS BALANCE
- LABORATORY OVEN, GAB-HEET
- CONSTANT TEMPERATURE BATH

BUILDING

- 5000 SQ. FT PROCESSING AREA
- 700 SQ. FT. ENGINEERING/QUALITY AREA
- 700 SQ. FT. ADMINISTRATION AREA



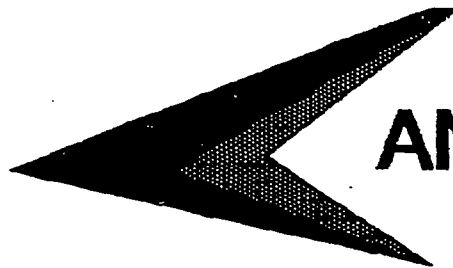
SPECIALTY PROCESSING

ONEIDA COUNTY INDUSTRIAL
PARK
P.O. BOX V
ORISKANY, N.Y. 13424
PHONE (315) 736-0891

QUALITY

SERVICE

RELIABILITY



ANIONICS
INCORPORATED

SPECIALTY PROCESSING

**FACILITIES
LIST**

**ELECTRON BEAM
WELDING**

- HAMILTON STANDARD 7.5 KW
WORK CHAMBER 5' HIGH X 5'
DEEP X 8' LONG, MODEL
625284

**VACUUM
IMPREGNATION**

- LOCTITE VACUUM IMPREGNATION
SYSTEM, MODEL 2412
- LOCTITE VACUUM IMPREGNATION
SYSTEM, MODEL 3618V
- LOCTITE VACUUM IMPREGNATION
SYSTEM, MODEL 3830V

SPECIAL MACHINING

- 18" CINCINNATI LATHE
- 13" SHELDON LATHE
- HARDINGE CHUCKER
MODEL HC
- KONDIA VERTICAL MILLS
(2) MACHINES
- KEMP SMITH HAND MILLS
- 6" X 18" SURFACE GRINDER
- BURGMASER DRILLING
EQUIPMENT MODEL 0B
- DOALL 14" BAND SAW
- PEERLESS POWER HACKSAW

**PLASTIC DUNNAGE
WASHING**

- CUSTOM DESIGNED TRAY WASHER
CAN HANDLE TRAYS TO 21" X 26"
- CUSTOM DESIGNED TOTE, TUB AND
LARGE TRAY WASHER CAN HANDLE
UNITS TO 54" X 86"
- CUSTOM DESIGNED DRYING FACILITY
- FURY II PRESSURE WASHER, 1200 PSI
250 DEGREES FAHRENHEIT

QUALITY

SERVICE

RELIABILITY



SPECIALTY PROCESSING

WE ARE PLEASED TO ANNOUNCE THAT WE NOW
HAVE FULL FAX CAPABILITY AT OUR MAIN OFFICE
AND PLANT IN ORISKANY, N.Y. THE NUMBER IS:

FAX (315) 736-1804

THIS MACHINE IS CAPABLE OF RECEIVING 24 HOURS
A DAY. PLEASE FEEL FREE TO USE THIS ADDITIONAL
SERVICE PROVIDED BY **ANIONICS, INC.**

ONEIDA COUNTY
INDUSTRIAL PARK
300 HANGAR ROAD
ORISKANY, N.Y. 13424
(315) 736-0891

AT **ANIONICS** COMPLETE CUSTOMER
INCORPORATED.

SATISFACTION IS OUR GOAL. OUR WORKING MANAGEMENT IS
CONSTANTLY STRIVING TO SATISFY YOUR SPECIALTY PROCESSING
NEEDS. WE STRESS CONTINUOUS IMPROVEMENT IN ALL FACETS OF
OUR BUSINESS. LET OUR PROCESSING TEAM PROVIDE YOU WITH:

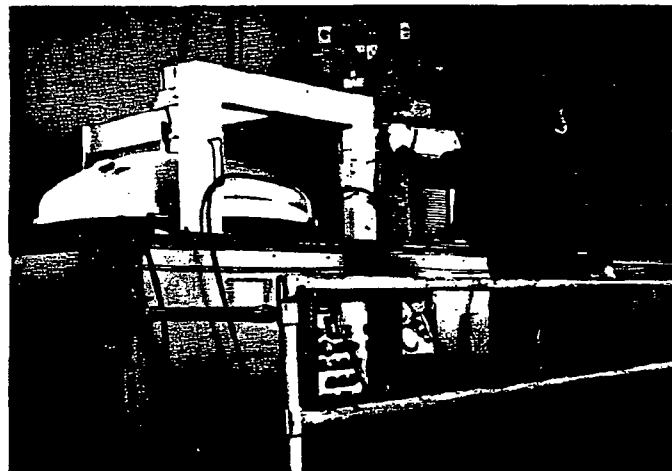
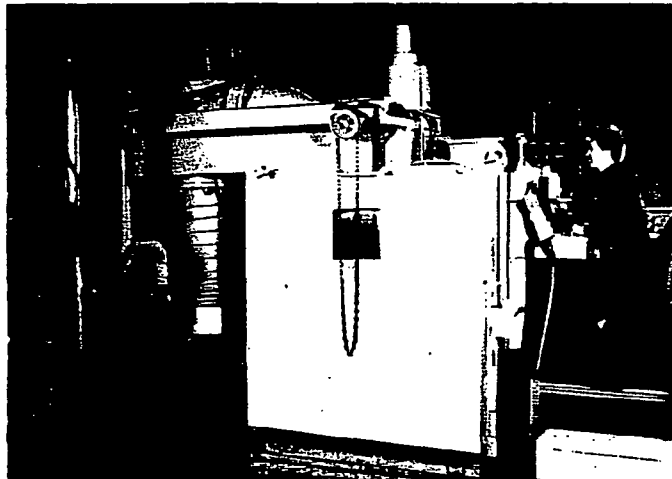
- TOTAL QUALITY: PROCESS CONTROL PLANS
DESIGNED TO MEET YOUR SPECIFIC APPLICATION
- SERVICE: WE WORK WITH YOU TO DEVELOP AND
IMPLEMENT SOLUTIONS TO YOUR PROCESSING
PROBLEMS
- RELIABILITY: RAPID TURNAROUND TIMES TO MEET
YOUR DELIVERY REQUIREMENTS
- COMPETITIVE COST



QUALITY

SERVICE

RELIABILITY



SPECIALTY PROCESSING

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INDUSTRIAL PARK
P.O. BOX V
ORISKANY, NY 13424
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