

# VESSEL INSPECTION



Vessel Refurbishment is the process of returning your used vessel to a “like new” condition. On-site services can include any or all of the following: project

management, vessel assessment, certified ASME code weld repair or vessel modification, mechanical polishing and electropolishing.

Allegheny Surface Technology offers extensive on-site services designed to address your refurbishment needs. We bring our equipment and expert technicians right to your location, perform the necessary work, provide complete documentation and certification of all repairs and modifications. When our on-site team completes the job, your equipment is in “like-new” condition, ready to go. On-site services can include any or all of the following:

Project Management under the direction of an experienced on-site Coordinator.

Vessel Assessment to evaluate the condition of your equipment:

- Visual inspection
- Ultrasound testing
- Liquid penetrant testing
- Profilometer measurement of surface finish
- Borescope inspection and videotaping
- Complete documentation including mapping of imperfections and problem areas
- Qualified level II

Certified ASME code weld repair or vessel modification Mechanical Polishing by experienced polishers

Chemical Cleaning and Passivation Electropolishing using a proprietary process that address both environmental and safety concerns

Documented and Certified Processes Component Replacement Safety Compliance including technicians with all required OSHA training



# TECHNICAL INFORMATION

At Allegheny Surface Technology we meet standards set by the following to better satisfy the needs and expectations of our customers.

ASTM B 912

ASTM A 380

ASTM A 967

ASME BPE 2015

AMS 2700

Whatever your surface finish requirements, AST is the one stop shop. New or used, your place or ours, we'll finish the job in time for you to do yours.

Note: The chart to the right is to be used for reference only. Material and processes can and will affect results.

Grit#	R <sub>a</sub> Microinch Mechanical Polish	R <sub>a</sub> Microinch Electropolish
60	80-140	60-130
80	50-75	30-65
120	35-45	20-40
150	25-40	15-35
180	20-30	10-25
240	15-25	8-20
320	10-20	5-18
400	<10	5-10
500	<7	3-7

$\pi$  is approximately equal to 3.14  
Radius = diameter / 2  
 $1\text{ft}^3 = 7.481$  gallons  
 $1\text{ft}^3 = 28.23$  liters  
1 gallon = 3.785 liter



# ALLEGHENY

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