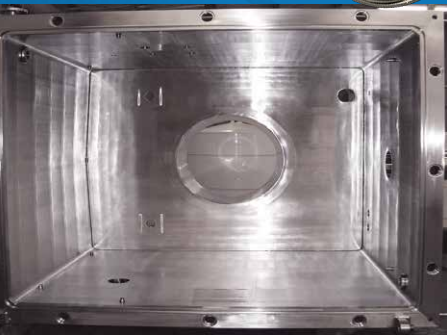


MECHANICAL POLISHING

Mechanical Polishing is the mechanical smoothing and removal of contaminants. It involves grinding, polishing and buffing of the surface. This process is used to smooth out welds, prepare metal surfaces for electropolishing or provide a surface with a specified roughness.

Allegheny Surface Technology employs experienced and highly skilled craftsmen who have the training and certification to perform at any facility.



Our state of the art polishing facility and equipment enable us to consistently achieve your surface requirements, as fine as single digit R_a readings. We are able to work on OEM parts as well as refurbished used vessels and equipment in-house and on-site.

Allegheny Surface Technology can also perform compound - free mechanical polishing, a requirement in several pharmaceutical applications.

The techniques available are:

- Abrasive belt polishing
- Abrasive wheel polishing including nylon, flap and combination wheels
- Automated and hand polishing equipment
- Custom machinery for OD and ID polishing of tubular work pieces.

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 _a Microinch Mechanical Polish	R _a 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

π is approximately equal to 3.14

Radius = diameter / 2

1ft³ = 7.481 gallons

1ft³ = 28.23 liters

1 gallon = 3.785 liter



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