

# VERSA-FLOW SPIN-FINISH

## SPINDLE FINISHING MACHINES

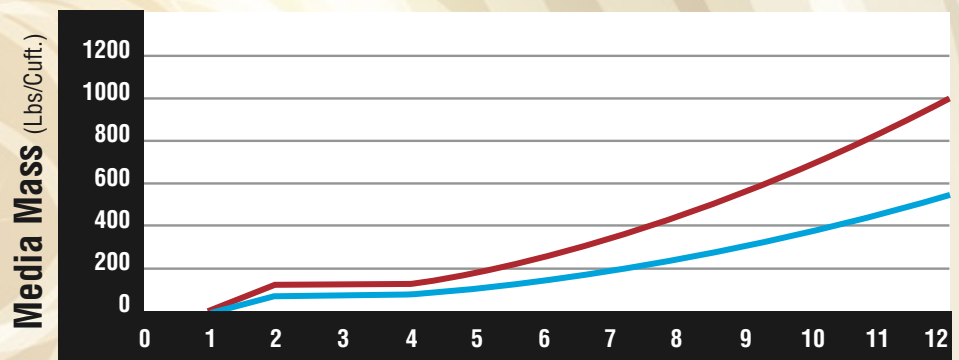


The **Versa-Flow Spin-Finish** Machine is a very high energy finishing system.

The machine uses a spinning tub of media that is either a very aggressive abrasive to remove heavy burrs from a work piece...or a very fine wet or dry polishing media for producing a very high color, or a low Ra surface finish. Parts that are processed in the Spin-Finish are normally parts that: cannot have part-on-part contact; are high value parts; or where a lean manufacturing single part flow is needed.

The tub revolves at a range of speeds dictated by the need of aggression, the need of a more gentle action, or a light slurry. As the tub spins, it creates centrifugal energy and surface feet. The combination of the two create a dramatic combination of forces on the surface of the work-piece which is very effective in removing burrs and producing very low Ra surfaces. The centrifugal force produced by the spinning tub and weight of the media provides a form fitting abrasive mass moving around the work-piece.

### MASS vs SFM



### 36" Tub Speed SFM x 100

- Plastic
- Aluminum Oxide





## HOW IT OPERATES:

- Parts are fixed using collets or special tooling on the spindle.
- Rotating spindle tilts parts into rotating mass/slurry.
- Part presentation to the mass is critical.
- Once process is complete, the part tilts out of the tub.



Head Up Load Position



Head Down Process Position

## Industries Served

Versa-Flow Spin-Finish is very well suited for several industries:

- Aerospace
- Automotive
- Firearm
- Tool & Die

This is a very small sample of where Versa-Flow Spin-Finish can be used for solving finishing problems.



Part Before Process



Part After Process