WSU's National Institute of Aviation Research has developed a unique automated system for sanding any material or finish. American Control and Engineering Service, Inc. has licensed this technology, naming it the Surface Finish Center (SFC). The machine scans the surface of any object, converting it to a 3D image. The 3D image is used to develop a sanding sequence which can incorporate customer specifications. The SFC creates significant value for users in multiple areas, such as sanding, buffing, polishing, quality, manpower.

AMERICAN CONTROL ENGINEERING SERVICE

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ACES Surface Finish Center (SFC)

Sand, Buff, Polish

- Deep finishing sanding
- Light material removal sanding
- Uniform thickness of finished materials
- Flat or contoured surfaces
- Interchange attachments for buffing and polishing finishes with applicable control recipes

Quality

- Controlled sanding pressure
- Surface preparation 60% faster than conventional production
- 80% machine, 20% manual processing allows SFC operators to perform in process quality checks

Manpower

- One SFC operator can manage up to 4 cobots at a time, increasing speed and reducing costs
- Reduces repetitive motion that can cause injuries to personnel

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