



**Joseph**  
machine

## SCF430

The SCF 430 is an automatic 90° saw and 4 axis CNC fabrication processing center with servo controlled in-feed, designed to process multiple parts per cycle while fabricating assembly, hinge, and drainage holes, or machining patterns for accessories. This machine is ideally suited for light aluminum alloys, PVC and fiberglass extrusions.

### BASE MACHINE

- (2) Universal fixture sections
- JMC FabRight HMI
- Network capable with remote diagnostic support
- Remote PC kiosk with touch screen monitor
- Creation of fabrication files through CSV file format
- Machine sequencing and CNC control through PLC motion controller with ethercat drive communication
- 16' servo control precision in-feed with absolute encoder feedback provides accurate fabrication placement and OA cut length
- Photo eyes for automatic length detection
- Control cables at in-feed load station for track part divider, part grip, cycle start and E-stop

- (1) bottom mounted 90° saw assembly, w/ 30" carbide tipped saw blade
- Hydro-pneumatic vertical saw blade feed
- Saw blade chassis guided on precision rails and linear bearings
- (1) 11.5 HP direct drive VP motor resistive braking
- Spray mist lubrication system
- 4 axis CNC head with absolute encoder feedback (X, Y, Z, A) (A being the motor rotational axis from -90° to 90° for horizontal fabrication)
- 5 slot automatic tool changer
- Integrated air wand
- Pneumatic vertical saw guard/clamping system

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## BASE MACHINE (CONTINUED)

- (1) in-feed automatic positioned horizontal clamp assembly
- (2) in-feed and (2) out-feed horizontal clamp assemblies
- Horizontal clamps capable of manual width adjustment
- Heavy duty steel frame
- Powder coated finish, blue over white
- 10' out-feed roller table
- 1/2" filter/regulator with OSHA compliant lockout/tagout
- Chip trays under saw
- Cycle time specific to fabrication requirement

## MACHINE OPTIONS

### Base Machine Upgrades:

- Left to right or right to left feed orientation
- Custom color finishes
- Safety package upgrades
- Auto-lubrication system for bearing and ballscrew lubrication
- Dust collection system
- Pro-lube lubrication system for extended blade life

### CNC In-feed:

- Custom in-feed lengths
- Single set automatic pre-loading system
- Double set automatic pre-loading system
- Diffuse photo eyes for independent mill length detection
- Linear encoder

### Out-feed:

- Power conveyor
- Wiper table
- Extractor

## TECHNICAL SPECIFICATIONS

- Power: 230/480 V
- Air: 80-100 PSI
- Warranty: One year Parts and Service excluding travel

