



**Joseph**  
machine

# SFMC STEP-THRU PROCESSOR

The ultimate in window and door fabrication, the SFMC platform features 45° Double Miter and/or 90 degree straight cut saw modules combined with a custom array of fabrication tools for creating assembly, hinge, and drainage holes, machining patterns for accessories or dealing with any fabrications along a part's length.

Customized to your exact needs and cycle times, the SFMC will save labor, improve throughput and improve part quality.

Ideally suited for Light Aluminum Alloys, PVC, and Fiberglass extrusions.

## BASE MACHINE

- 2 or 4 track fixtures, guides
- 16' to 24' CNC in-feed provides precise accuracy for fabrication placement and OA part length
- Thru-beam photo eyes for automatic stock length detection
- Easy systems start by control cables at in-feed load station, for part grip, and cycle start
- Opposing 45° saw assemblies with 16" carbide tipped saw blades
- Servo and ball-screw horizontal blade feed
- Hydro-pneumatic blade feed along 45° axis
- Saw blade chassis guided on precision rails and linear bearings
- Two 3 HP direct drive variable frequency saw blade motors, spin at 3450 RPM
- PC HMI with .NET ,Windows Operating System
- Network ready and batch production capable
- Machine sequencing and CNC control through industrial programmable logic controller
- 18" x 5' exit-side table with stainless steel top
- Pneumatic clamping system
- Heavy duty steel inner frame
- Aluminum sealed outer safety housing
- Powder coated finish, blue over white
- 1/2" filter/regulator with OSHA compliant lockout/tagout
- Tapered sheet metal enclosed bottom with vacuum port (Substituted for pull out trays for aluminum machines)
- Out feed scrap chute
- Left to right or right to left orientations

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## MACHINE OPTIONS

- Dust collection system
- Custom color finishes
- Safety package upgrades
- Auto-lubrication system for bearing and ball-screw lubrication
- Pro-Lube lubrication system for extended blade life

### Fixtures:

- 2 or multi track custom fixtures
- Machined anodized aluminum fixtures
- Alternative fixture material and coatings available
- Vertical/Horizontal clamping custom designed to profile design

### Saw Assemblies:

- Servo controlled positioning along 45° axis for saws via ball screw
- 18", 20", 22" diameter carbide tipped saw blade
- 5 HP saw motors

### Fabrication Modules:

- Electric drills
- Electric router with variable frequency drives
- Hydraulic system for high power fabrication to process aluminum extrusions.
- Full CNC control in all axis

### Control Systems:

- Upgrade to Allen Bradley Control System
- Transformers available for different voltages

### Software:

- Lineal optimization
- Preventative maintenance software (tooling change)
- Tail end utilization by stock parts or future batch parts
- Label printing

### In-feed:

- Dual axis in-feed for height and width simultaneous processing
- Custom in-feed lengths accommodate 20' or 24' lineal
- Optional pre-load systems
- Diffuse photo eyes for independent mill length detection
- Quick change in-feed gripper and UHMW guides
- Linear encoder
- Optional gear rack system for higher precision

### Out-feed:

- 10' roller table standard
- Power conveyors
- Optional wiper tables & extractor systems
- Optional laser marking stations

## TECHNICAL SPECIFICATIONS

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

