



Joseph
machine

UCFM

The UCFM is an automated straight-cut saw equipped with a hydraulic unit and servo-controlled in-feed. It is a flexible machine that accepts various interchangeable fabrication modules. The material is cut to length and fabricated based on the cut files that may be manually entered, loaded by USB drives, or downloaded via an available network connection.

BASE MACHINE

- Estimated machine cycle time: 4-6 seconds cut to cut
- Cut length tolerance: ± 0.010
- Fabrication location tolerance: ± 0.010
- Fabrication tolerance: ± 0.010
- Ergonomic working height, fine adjustments made via leveling feet
- Heavy duty powder coated tubular steel frame
- Removable debris tray
- 1/2" filter / regulator with OSHA compliant lockout / tagout
- One 90° saw assembly equipped with a 3 HP motor and 16" carbide tipped saw blade
- Saw pivots about roller bearings activated by air over oil pneumatic cylinder
- Flow controlled saw stroke
- 17.5 GPM hydraulic unit
- In-feed
 - ▶ Servo controlled in-feed accommodates 16' lineal
 - ▶ Left to right or right to left feed orientation
 - ▶ Thru-beam photo eyes for mill length detection
- Fusible disconnect with OSHA compliant lockout / tagout
- Controls – combined PC + PLC control system
- Networkable
- Production data can be downloaded using JMC CSV file format

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MACHINE OPTIONS

- Custom color powder coating
- Pro-lube lubrication system for cutting
- Auto-lube system for machine lubrication
- Dust collection system

Fixture:

- 2 or multi track custom fixtures
- Pneumatic / hydraulic custom tooling for fabrication
- Machined anodized aluminum fixture
- Alternative fixture material and coatings available
- Vertical / horizontal clamping
- Fixture identification

Saw Assembly:

- 18" or 20" diameter carbide tipped saw blade
- 5 HP saw motors

Software:

- Lineal optimization
- Tail end utilization by stock parts or future batch parts
- Label printing

In-feed:

- Optional in-feed lengths accommodate 20' or 24' lineals
- Single set pre-loader to accommodate 16', 20' or 24' lineals
- Double set pre-loader to accommodate 16', 20' or 24' lineals
- Diffuse photo eyes for independent mill length detection (2 track only)
- Quick change in-feed gripper and UHMW guides
- Linear encoder

Out-feed:

- 10' roller table
- Power conveyor
- Wiper table
- 5' table with stainless steel top

Controls:

- Touchscreen monitor
- Additional monitor for in-feed / out-feed
- Variable frequency drive with brakes
- Upgraded safety packages
- Transformer available for different voltages

TECHNICAL SPECIFICATIONS

- Power: 240V AC
480V AC
- Warranty: One year Parts

