Joseph machine

MR-1000

The MR-1000 Meeting Rail Processor is an automated end mill fabricating machine with a servo-controlled in-feed. Lineals are cut to length using a 90 degree saw and each end is profiled with a cutter stack. The material is fabricated based on the cut files that may be manually entered, loaded by USB jump drives, or downloaded via an available network connection.

BASE MACHINE

- Estimated Machine Cycle time: 15 – 20 seconds cut to cut
- Cut length tolerance: + 0.015
- Fabrication tolerance: + 0.010
- Ergonomic working height, fine adjustments made via leveling feet
- One 90° saw assembly equipped with a 3 HP motor and 16" carbide tipped saw blade
- Equipped with 4 HP motor for cutter stack
- Saw/motor carriage rides on precision ground rails and linear bearings
- Saw/motor pneumatically activated by air/oil cylinders

- Flow controlled saw and end mill stroke
- 1/2" filter/regulator with OSHA complaint lockout/tagout
- Fusible disconnect with OSHA compliant lockout/tagout
- Controls – combined PC + PLC control system
- Networkable
- Production data can be downloaded by using JMC CSV file format
- Heavy duty powder coated steel frame

MACHINE OPTIONS

→ Custom color powder coating
→ Removable chip tray with vacuum port
→ Pro-lube lubrication system for cutting
→ Auto-lube system for machine lubrication
→ Dust collection system

Fixtures:

→ 2 or multi track custom fixtures
→ Custom tooling for fabrication
→ Machined anodized aluminum fixture
→ Alternate fixture material and coatings available
→ Vertical/horizontal clamping

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:

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

Controls:

→ Touch screen monitor
→ Upgraded safety packages
→ Additional monitor
→ Variable frequency drive for cutter motor

Software:

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

TECHNICAL SPECIFICATIONS

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