



**Joseph**  
machine

# ZHVN-4545 ZERO SCRAP HORIZONTAL V-NOTCH SAW

The ZHVN-4545 has two 45° independent horizontal-stroking miter saws that ensure zero scrap between each miter cut. This saw is designed to cut 45° / 45° parts. It is equipped with a servo-controlled in-feed. The material is cut to length 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: 8-10 seconds cut to cut
- Cut length tolerance: +0.030
- Fabrication location tolerance: +0.015
- Fabrication tolerance: +0.010
- Ergonomic working height, fine adjustments made via leveling feet
- Heavy duty powder coated steel frame
- 1/2" filter/regulator with OSHA compliant lockout/tagout
- Two 45° saws equipped with 3 HP motors and 16" carbide tipped saw blades
- Saws pneumatically activated by air/oil cylinders
- Saw carriages ride on precision ground rails and linear bearings
- Flow controlled saw stroke
- Standard saw guard with vacuum port
- 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

Continued On the Back ↔

## 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
- Custom tooling for fabrication
- Machined anodized aluminum fixture
- Alternative fixture material and coatings available
- Vertical/Horizontal clamping
- Fixture identification

### Saws:

- 18", 20", 22" diameter carbide tipped saw blade
- 5 HP motor
- Variable frequency drives with brakes

### Software:

- Lineal Optimization
- Tail end utilization of stock parts for future use
- 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:

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

### Controls:

- Touch screen monitor
- Additional monitor for in-feed/out-feed
- Variable frequency drive with brakes
- Upgraded safety packages
- Transformers available for different voltages

## TECHNICAL SPECIFICATIONS

- Power: 240V AC /480V AC
- Air: 90-100 PSI
- Warranty: One year Parts and Service (Includes on-site installation and training where applicable)

