

# **Trilogy Machinery**

Sunrise Angle and Plate Processing Systems

### YOUR METAL FABRICATING MACHINERY SPECIALISTS

Since 2009, we have been committed to providing our customers the highest level of professionalism, integrity and service. This commitment is what helped us to achieve our reputation as a leader in the metal fabricating machinery industry.

www.TrilogyMachinery.com

Metal Fabricating Machinery

Clip Angles

SUNRISE

**Base Plates** 

Channel Processing Capabilities

Angle and Plate Processing Lines

# **ALS** ANGLE & FLAT BAR PROCESSING SYSTEM

The SUNRISE ALS is a fully automatic angle and flat bar processing system. The operator loads the material onto the all-steel v-shaped ball-bearing rollers, the system engages with pneumatic clamping and ALS-1506S squaring devices and processes the material by automatically punching and shearing. NRIS

#### **SYSTEM FEATURES:**

- Rack and Pinion Drive System
- 2 Punch Stations 2 independent punches per leg
- Industrial PC Touch-Screen Controller with WiFi, Part Nesting, DXF NC1/DSTV Import
- Dual Linear Rail Guided Y-Axis
- Hydraulic Shear Hold-down
- Hydraulic Punch Strippers
- Pneumatic Material Clamps and Guides
- Adjustable Blade Gap Shear with multi-sided blades and no slug loss cut.
- Hydraulic oil cooler

#### \*Up to 66 Tons

\*\*65,000 PSI Tensile Material

#### **TECHNICAL SPECIFICATIONS:**

- Dual 66-Ton Punch Cylinders
- 170 Ton Shear Cylinder
- 2" x 2" x 1/4" to 6" x 6" x 1/2" Angle -1.5" Angle with Special Circumstances
- 2" x 1/4" to 6" x 1/2" Flat Bar
- 1.5" Max. Hole Diameter per punch\*
- 0.5" Max. Material Thickness\*\*
- 20' Standard Material Length
- optionally expandable to 50'
- 40'/Minute Travel
- + 0.004"/Foot Accuracy
- 220v/440v 3 Phase Operation

#### **OPTIONAL FEATURES**

- Material Stamp/Marking Station
- Safety Light Curtain
- Out-feed Sections

#### **OPERATION:**

Operator programs parts with built-in templates or loads a DXF or NC1 file from WiFi, Ethernet, or USB, and then nests multiple files as needed. Material is loaded onto the roller table; pneumatic clamps and material guides engage and the system proceeds by automatically punching and shearing with hydraulic hold-downs.

#### **TYPICAL TIME STUDY**

- 19 each 12" clips of 4" x 4" x 3/8" angle with 4 holes (2 per leg), with multiple punches.
- Total Cycle Time: 6.30 Minutes



No slug shear with multi-sided blades, adjustable blade gap



**Pneumatic-Material** Clamps



Flat Bar Processing



Clip Angles



NC1/DSTV import and multi-part nesting.



#### www.TrilogyMachinery.com 888.988.7655



# **APS** FLAT BAR PROCESSING SYSTEM

**The SUNRISE APS** is a fully automatic flat bar processing system. The operator loads the material onto the all steel ball-bearing rollers, the system engages with pneumatic clamping and squaring devices and processes the material by automatically punching and shearing.

#### **SYSTEM FEATURES:**

- Rack and Pinion Drive System
- Industrial PC Touch-Screen Controller with WiFi, Part Nesting, DXF NC1/DSTV Import
- Dual Linear Rail Guided Y-Axis
- Hydraulic Plate Shear Hold-down
- Hydraulic Punch Stripper
- Pneumatic Material Clamps and Guides
- Anti-Twist Shear System with adjustable blade gap and no slug shear
- Hydraulic oil cooler

#### **TECHNICAL SPECIFICATIONS:**

- 88-Ton Punch Cylinder
- 270-Ton Shearing Cylinder
- 12" x 3/4" Flat-Bar Capacity (1/4" min. thickness)
- 1.5" Maximum Hole Diameter\*
- 0.75" Material Thickness\*\*
- 20' Material Length
- optionally expandable to 50'
  40'/Minute Travel
- + 0.004"/Foot Accuracy
- 220v/440v 3 Phase Operation

#### **OPTIONAL FEATURES**

- Material Stamp/Marking Station
- Triple Punch featuring 1.5" capacity center punch, and 1.125" side punches
- Safety Light Curtain
- Out-feed Sections

#### **OPERATION:**

Operator programs parts with built-in templates or loads a DXF or NC1 file from WiFi, Ethernet, or USB, and then nests multiple files as needed, including nesting the entire job allowing the operator to see the total amount of bars needed. Material is loaded onto the v-rollers; pneumatic clamps and material guides engage and the system proceeds by automatically punching and shearing with hydraulic hold-downs.

#### **TYPICAL TIME STUDY**

- 19 each 12"x12" base plates, 1/2" thick with 6 holes, utilizing 3 different punch sizes.
- Total Cycle Time: 8.5 Minutes



Pneumatic-Material Clamps



Material Guides



**Triple Punch** 



**Nesting Ability** 



New ACPS Channel Processing Machine



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\*Up to 88 Tons \*\*65,000 PSI Tensile Material

# Trilogy Machinery Advantages



## DEDICATION

Trilogy is a team of over 13 dedicated and energetic professionals ready to assist with your Metal Fabricating Machinery needs.

### SOLUTIONS

We offer solutions to your Metal Fabricating Machinery needs. Our sales technicians are all factory-trained to assist with providing the correct machine for your job.

### UNLIMITED SUPPORT

We service what we sell! Trilogy has a massive stock of spare parts and we also offer world renowned technical support by our factory-trained technicians. Customers get free phone support for the life of the machine.

# NATIONWIDE DEALERS

In addition to the service and support provided direct from Trilogy, we also have an extensive network of local dealers that are ready to help with on-site service, sales and support.

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