

Roll Better. Punch Better. Bend Better.

TRILOGY MACHINERY ADVANTAGES

- Our team of over 16 dedicated professionals is ready to assist with your metal fabricating machinery needs.
- Factory-trained sales technicians provide the correct machine solution for your job.
- Multi-year warranties, lifetime tech support, and more than \$2.5M USD in parts stocked in Maryland to keep your machine running.
- Full contingent of parts and traveling service technicians, ready to support you.
- Nationwide dealers provide convenience as well as professional service.



CONTACT INFO

Main Contact Number
888.988.7655

Office and Showroom
4610 Mercedes Drive, Belcamp, Maryland 21017

Mailing
PO Box 70, Belcamp, Maryland USA 21017

Product Inquiries
inquiry@trilogymachinery.com

Technical Support and Service
service@trilogymachinery.com

Parts
parts@trilogymachinery.com

Fabricate Better.



Sunrise Angle | Plate | Channel Processing Systems

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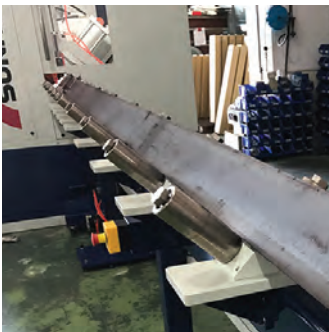
ALS ANGLE & FLAT BAR PROCESSING SYSTEM

IDEAL FOR ANGLE & FLAT BAR

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 squaring devices and processes the material by automatically punching and shearing.



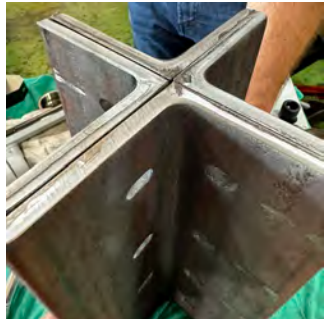
Clip Angles



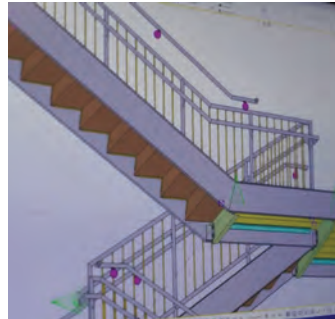
Flat Bar Processing



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



6" x 6" x 1/2" Capacity



NC1/DSTV import and multi-part nesting.

SYSTEM FEATURES:

- Rack and Pinion Drive System
- 2 Punch Stations – 2 independent punches per leg
- Industrial PC with Touch-Screen, 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'
- 50'/Minute Travel
- + - 0.004"/Foot Accuracy
- 220v/440v - 3 Phase Operation

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

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.

IDEAL FOR FLAT BAR



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 with Touch-Screen 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'
- 50'/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 parts 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



Nesting Ability



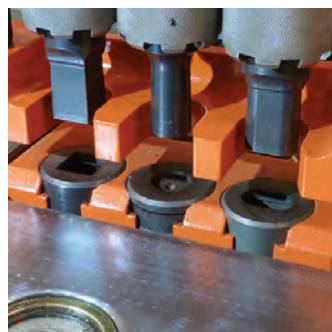
Combine with the Sunrise HBM- Horizontal Bender



Pneumatic-Material Clamps



Material Guides



Triple Punch

*Up to 88 Tons

**65,000 PSI Tensile Material

ACPS CHANNEL PROCESSING SYSTEM

The Sunrise Channel Line System – ACPS is a versatile and fully automated channel line solution that efficiently processes **channel webs** from C3 to C6 without the need to change blades! It offers punching, shearing, and scribing capabilities, enhancing accuracy and productivity in metal fabrication applications.

STANDARD FEATURES:

- Touch-Screen Windows Controller featuring multi-program memory, nesting ability, multiple pattern templates, DXF/NC1 Import, TeamViewer Remote Diagnostics, WiFi, USB
- 20" Standard In-Feed with Rack-and-Pinion Drive System, expandable up to 50"
- Hydraulic punch stripper, hydraulic hold-down for shearing, and pneumatic hold-downs for in-feed
- Rapid Shear System allows quick transitioning from C3-C6 channel, and only 0.50" slug loss per cut featuring multi-sided blades, adjustable blade gap
- Automatic Pneumatic Material Clamping and Squaring
- Fully enclosed punching and shearing operations for operator safety, as well as interlocked doors, and optional light curtains.
- Integrated cooling system with hydraulic oil cooler and filter, multi-point camera safety system, and more!

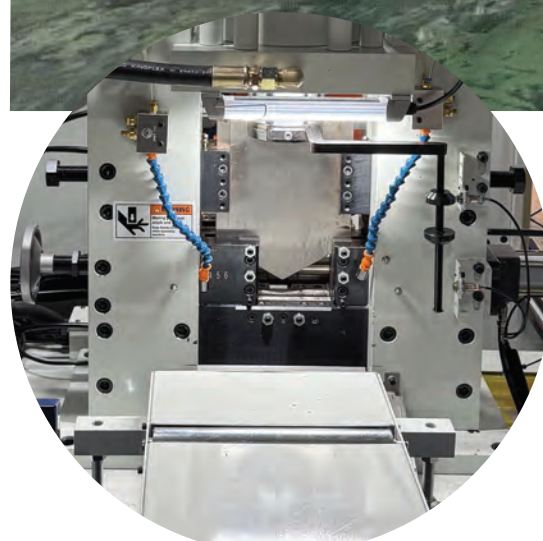
CAPACITIES:

- **Shearing – 160 Ton Shear:**
 - Channel: 3" – 6" | C3-C6 | The quick-adjustment tool allows your operator to change sizes on the fly with the same blades! C8 is available!
- **Punching – Single High-Speed 60-ton** Punching Cylinder on Linear Rails
 - 2" up to the rated tonnage – Material – 65,000 PSI Tensile.
 - Optionally: Two independent punches – each programmable for web-only punching up to 1.5" capacity and full tonnage, or swap out for multi-punch keyhole or teardrop set up!
- **Positioning Speed:** Up to 50' per Minute – Variable Speed
- **Accuracy:** +/- 0.006" / Foot
- **Rack and Pinion In-Feed Length:** 20' standard capacity
 - Expandable to 50' with machined steel tubes.

OPERATION:

- The operator loads the channel onto the all-steel in-feed rollers; the system engages and pneumatically clamps the material, measures the length, and then **processes the material by automatically punching the web and shearing (with a 1/2" slug) to length** utilizing the industrial strength rack and pinion drive system. When the bar is complete, the system will automatically retract, drop the scrap (as little as 6"), and move to the load position to repeat the process.

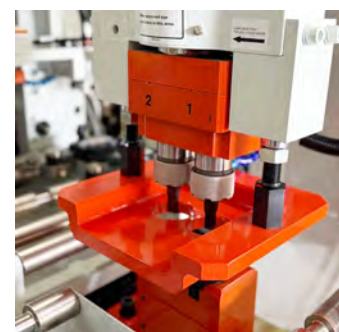
IDEAL FOR CHANNEL



Variable Size Shear



Standard 95.25" Parts



Double Punch



Channel Clips



Custom Shapes



Pneumatic-Material Clamps