

The Triple Header

3 Torch + 7 Axis + Infinite Rotating Bevel System

ESAB's *Triple Header* is an advanced seven-axis triple torch oxy-fuel station that simplifies bevel cutting. The fully programmable motorized torches vary the bevel angle as they cut, turning complex cutting applications into one-step processes.

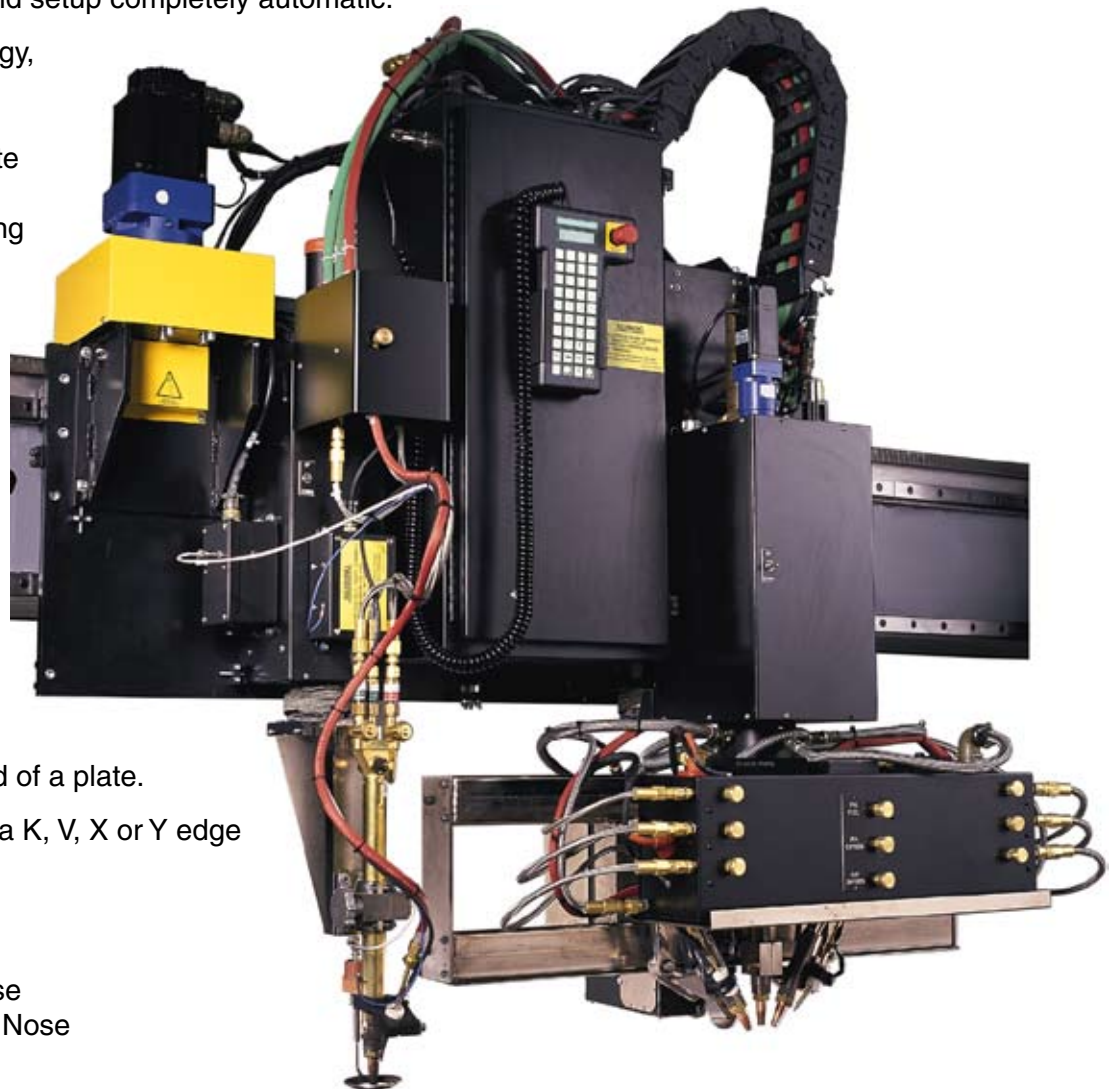
The system is well suited for industries that require special bevel cutting applications on thick metal, including ship building, pressure vessel manufacturing, heavy fabrication, and transportation. This advanced bevel cutting system offers the user capabilities not found in any other system. The Triple Header can create bevel cuts on flat plate and is able to continuously vary the angle during the cut. Continuous closed loop rotation allows bevel cutting around almost any countour. The left and right torch angles can be varied simultaneously, along with their offset position, and lead-lag position. And full automation through ESAB's Vision 55 CNC makes programming easy, and setup completely automatic.

Using this exclusive technology, this system can provide considerable cost savings by cutting a part and adding plate edge preparations in a single operation. The cost of creating complex parts can be drastically reduced, since separate operations, part handling, and setup time are eliminated.

Cutting accuracy is also ensured by means of a special plate riding height control system, that precisely maintains the correct torch height with respect to the plate surface. The system also detects the plate edge, allowing the unit to continue cutting off the end of a plate.

The Triple Header can make a K, V, X or Y edge preparation. This includes:

- + Single Bevel
- + Double Bevel with Nose
- + Double Bevel without Nose
- + Top or Bottom Bevel with Nose



Features

The Triple Header features CNC controlled axes for:

1. Left Tilt Angle
2. Right Tilt Angle
3. Left Offset
4. Right Offset
5. Left Lead / Lag
6. Right Lead / Lag
7. Rotation Angle



This gives the ability to precisely position all of these axes, and to change positions on the fly. The result is the most capable oxy-fuel bevel system available.

Each axis features closed loop feedback for precise continuous positioning. The rotation axis is driven by a powerful Digital AC Amplifier, AC brushless motor, and planetary gearbox, providing smooth rotation and accurate positioning.

The Triple Header's automatic height control uses dual plate riding sensors to accurately detect the plate surface and the plate edge. The system maintains the correct torch standoff above the plate surface, which is critically important for accurate bevel cutting. A precision ball screw lifter carries the unit on vertical linear rails for accurate support of the bevel head.

The Triple Header is available on the Avenger 3 gantry, featuring dual precision linear rails for accurate support of heavy stations over extended cutting widths.

Capabilities

Bevel Angle Range	0 - 49°
Max. Plate Thickness	75 mm
Left/Right Offsets	0 - 200 mm
Lead/Lag	+/- 12.6 mm
Rotation	Infinite

VISION™ 55

For maximum productivity, the entire cutting process is fully programmable through ESAB's Vision™ 55. This state-of-the-art controller combines user-friendly features of the Windows XP environment with a host of high tech machine and process features that help automate the entire cutting process.

ESAB software is designed exclusively to simplify bevel cutting, including these available features:

- + Right and left torches are programmable to any position
- + Automatic Height Control System
- + Programmable Cutting Speed
- + Outside Torch Angle Rotation
- + C-Axis Rotation
- + Lateral Spacing
- + Lead/Lad Range
- + Individual Torch Gas Settings via CNC
- + Dual Station Controls
- + Joystick Contouring
- + Shape Library



The Vision™ 55 includes ESAB's On Board Process Database which simplifies process setup by automatically setting parameters such as cutting speed, kerf offset, and timers based on material thickness, material type and cut quality desired. The operator sees which plasma consumables are needed.



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