

Tri-Mation Industries Driven Series Clip Driver Systems

Productivity Driven by Innovation

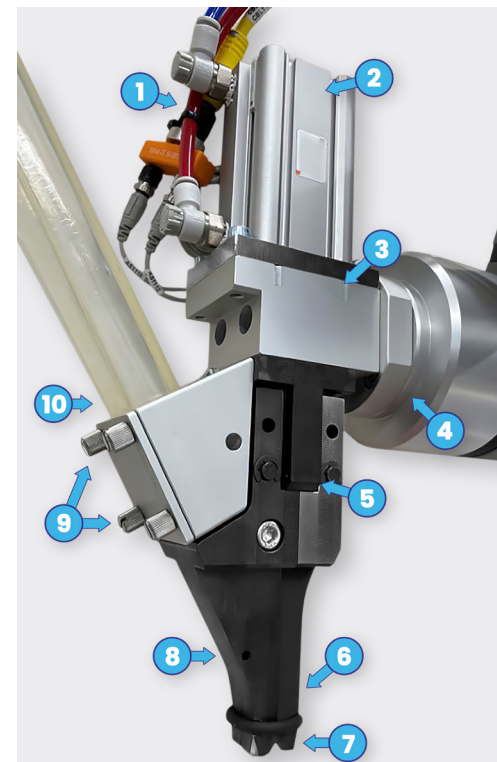
Improve Automotive Clip Driver Speed, Repeatability and Durability

Tri-Mation Industries has completely redesigned the clip driver system to eliminate many of the design flaws found in other bowl and blow-fed clip drivers currently available in the marketplace. The Driven Series Clip Driver incorporates several practical upgrades engineered to improve the speed, repeatability and durability of clip driver systems used in a wide range of automotive assembly applications including:

- Plastic and metal clips typically used in interior trim
- Fasteners including screws, nuts and threaded studs
- Center consoles
- Dash end caps with metal clips
- IP trim
- Defrost vents
- Other automotive assemblies

Driven Series Clip Driver System Advantages

- Vibratory bowl feeder (hopper optional)
- Low-level alarm (for the hopper or the bowl)
- In-line feeder — moves the clips from the bowl to the blow feeder
- (2) finger escapement
- Blow feeder — separates and blows clips through the tube to the insert tool
- Welded steel stand — holds the bowl and the blow feeder
- Floor bolts — the entire clip feed system can be bolted to the floor
- Feed capability — one clip every two seconds

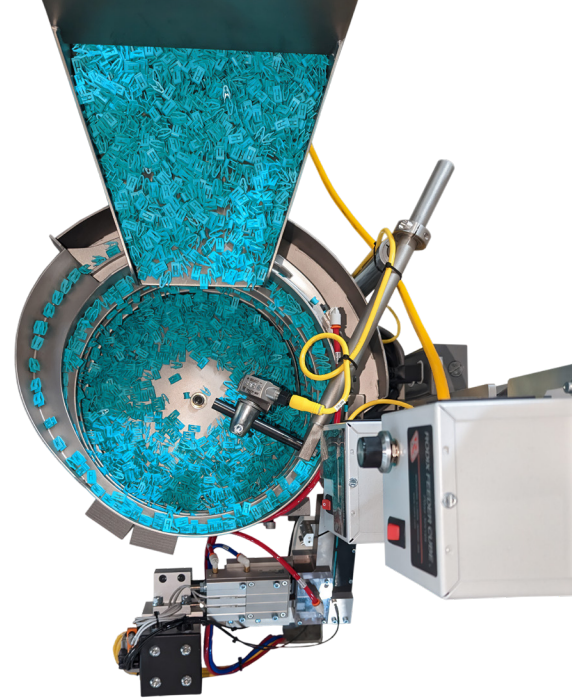


End of Arm Tool (EOAT)

- 1** Position Sensors
- 2** Press Cylinder
- 3** Alloy Tooling Mount
- 4** Robot Adapter Plate
- 5** Hardened Jaw Base
- 6** Viton O-Ring Compliant Tip
- 7** Hardened Press Pin
- 8** Hardened A2 Jaws
- 9** Captive Thumb Screws (ease of maintenance)
- 10** Square Tubing

Enhance Production Speed and Accuracy

- Incorporates a vibratory feeder bowl and inline feeder engineered and built for specific clips
- Available in integration packages with various levels and brands of controls
- Can be added to existing robots or XYZ guided cylinders
- Apply customer specifications to new or custom applications
- Available with clip presence and full stroke verification sensing options
- Access the feed tubes for easy cleaning and service
- Reduces clip tipping with a custom escapement



Prevent Tumbling Clips in the Feed Tubes

The improved delivery system of Tri-Mation Industries' Driven Series has been completely redesigned to:

- Keep parts moving without jams
- Provide multiple methods to confirm part presence
- Simplify service access to the tube and driving mechanism
- Improve speed, repeatability and durability

Eliminate Jams Between the Bowl Feeder, Inline and Shuttle

Instead of sourcing components from several different vendors, all the components in the Driven Series are specifically designed for:

- Proper fitment
- Smooth operation
- Faster cycle times

Drive Up Your Productivity

Contact us today to see how the Driven Clip Driver System can help you increase your production efficiencies with less downtime and easier maintenance.

Tri-Mation Industries

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