

SafeSplice™ Cold Feed Extrusion Splicing Unit

At Steelastic, safety always comes first. The new range of SafeSplice units drastically reduce the need for operators to manually lift, cut, and splice heavy rubber sheets, tasks that carry significant risk, and involve the use of hazards like hot knives, or may require additional PPE. By automating the splice operation, SafeSplice keeps operators out of harm's way, creating a safer, more ergonomic working environment, while also reducing the risk of improper or insufficient rubber feed.



WHAT SETS SAFESPLICE APART?

- **Smooth Operation:** Elevates production quality and consistency. Superior splice quality, and greater line efficiency.
- **Improved Operator Efficiency:** Once loaded, no operator intervention is required
- **Automatic Detection:** Automatically detects when to join the next feedstock of rubber and forms strong, precise splices with minimal overlap.

The Process

1. The operator preloads the next pallet of rubber feedstock into SafeSplice™ for a seamless changeover.
2. As the current pallet nears completion, SafeSplice™ automatically detects the trailing edge.
3. SafeSplice™ splices the leading edge of the incoming sheet to the trailing edge of the outgoing sheet, ensuring a continuous feed of material to the extrusion process.
4. Precision metal fingers create a durable splice that will not separate under tension.
5. The feed conveyor pauses and resumes automatically to maintain steady production.
6. If no material is detected, SafeSplice™ halts the conveyor or downstream process to prevent extruder starvation.



Process Protection

Automatically halts feed or downstream processes when material is absent to prevent downtime.



Adaptable Design

Modular construction allows customization for specific materials, processes, and plant layouts.



Enhanced Safety

Eliminates manual splicing and hot-knife handling for a safer work environment.

Available in Multiple Sizes

SafeSplice Mini 400mm. Ideal for smaller feedstock applications

SafeSplice Pro 800mm. Optimized for the majority of feedstock applications

SafeSplice Max 1000mm. Designed for the largest feedstock applications



Example installation only. Prior to install a detailed survey is carried out to understand feedstock feeding configuration, pallet location, rubber stacking configuration on pallet, SafeSplice unit mounting, and existing operator practice.