

STANLEY
Engineered Fastening



POP[®]

Premium Engineered Blind Rivets and Rivet Nuts



Stanley Engineered Fastening is committed to helping our customers

- Reduce complexity in the production process with a versatile product portfolio
- Improve production speed and defect level by delivering application solutions that are fit for purpose and tailored to production ergonomics
- Deliver outstanding value to the end-customer by offering fasteners, tools and installation equipment that demonstrates lowest Total Cost of Ownership
- Manufacture lightweight final product without compromising on end-customer safety

The highly engineered POP® product range includes Blind Fasteners, Rivet Nuts and Hand Tools, available in a variety of material specifications to provide reliable fastening in soft, brittle and thin metals and plastics. All solutions are supported by the global network of Stanley Engineered Fastening application engineers.

Premium Engineered Blind Rivets

Comprehensive range of world renowned, premium quality fasteners. Offered as custom product with PPAP testing and design support, or an off-the-shelf solution.

POPNut®

Available with a variety of geometries and materials, blind rivet nuts are ideal to secure load bearing threads in thin materials.

Hand Tools

Professional hand plier and lever rivet and blind rivet nut tools with ultra-lightweight yet robust steel and aluminum construction.





Stanley Engineered Fastening also offers market-leading installation equipment through our Stanley® Assembly Technologies brand. Our engineering expertise in delivering a complete application solution helps our customers to reduce complexity in the assembly process and improve production efficiency.

STANLEY ENGINEERED FASTENING FAMILY OF BRANDS

AYDEL **INTEGRA** **NELSON** **OPTIA** **POP** **STANLEY** **TUCKER**
Assembly Technologies





Engineered Blind Fasteners

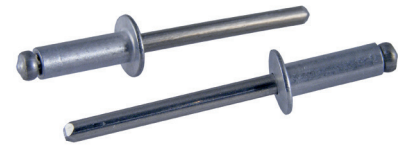
POP rivets can be customized according to customer requirement and are ideal for high performance assembly.

- IATF 16949 / ISO-9001
- PPAP and design support available on request
- Material Specification: Aluminum, Steel, Stainless Steel, Copper, Nickel, Copper Alloy
- Custom Finish

The range includes:

Open End Rivets

- Designed for a wide range of applications and a variety of material combinations
- Fast and simple installation
- Sizes: 2.4 mm – 6.4 mm (3/32" – 1/4")
- Head Styles: Dome, Large Flange, Countersunk



Closed End Rivets

- Seals out moisture, air and other contaminants
- Sizes: 3.2-6.4 (1/8 - 1/4")
- Head styles; dome, large flange, countersunk
- 100% stem retention



V-grip®

- V-grip® is ideal for joining mixed materials like composites and plastics due to wide blind side spread
- Features a positively retained stem head and a grooved stem for optimum tool jaw life
- Easy customization
- Multi-grip capability enabling SKU reduction and improved stock management
- Splash resistant





Load Spreading Rivets

- Aluminum alloy rivet with a split tail formation providing a very large blind side bearing area against the rear sheet
- Ideal for use with plastic and low strength material
- Multi-grip capability accommodates wide variations in material thickness
- Retained stem and high resistance to pull-out loads



Pull-through Rivets

- Unique double countersunk steel blind rivet provides a flush setting surface on both sides of the application
- Insertion can be reversed improving rivet tool access
- Unique "Pull-Thru" mandrel ensures no loose mandrel heads remain anywhere in the application
- High speed automation with Stanley Assembly Technologies Rivet Presenter facilitates a cycle time as fast as 2 seconds





POPNut®

A wide variety of configurations are available to meet customer application requirements. Special design solutions (e.g. slotted, square or large flange) are also available upon customer request.

POPNut is 100% customizable to customer application requirement.

Materials:

- Aluminum - low weight and high corrosion resistance
- Low Carbon Steel - General purpose
- 302, 304 and 316 Stainless Steel – high corrosion resistance

Body type:

- Round - general purpose applications
- Round with splines or knurls- provides improved torque to turn, especially in softer materials
- Hexagonal / square - to give maximum unscrewing torque

Head Style:

- Flat - Provides a good bearing area for application surface and for bolted-on parts
- Countersunk - Used for flush head setting, requires a countersink in the application
- Reduced - Used for near flush setting with no countersink required

Closed end geometries are also available to manage fluid ingress.



Hand Tools

All tools offer the quality, durability, and reliability that is expected from genuine POP rivet tools.



Hand Plier Rivet Tool

- Robust cast aluminum and steel construction
- Rivet retaining handle design for single-handed riveting
- Rivet capacity in Steel <5.0mm



Lazy Tong Rivet Tool

- Heavy duty grade, robust aluminum and steel construction
- Contoured handle grip for comfort
- Rivet capacity in Steel <6.4mm



Lever Rivet Tool

- Professional, robust steel construction
- Multi-position telescopic levers extend to maximize leverage and pulling force
- Rivet capacity in Steel <6.4mm

Powered Installation Equipment

Stanley Assembly Technologies offer both Cordless and Hydro-Pneumatic equipment to install POP rivets and POPNut, with varying degrees of automation.



ProSet® PB3400 Battery tools

- Ensures high productivity and fast return on investment with very low installation cost
- Durable brushless motor that requires minimal maintenance
- 1,000 $\varnothing 6,4$ mm structural blind rivets per charge



ProSet® XT Hydro-pneumatic Range

- High force-to-weight ratio
- Quick disconnect nose housing and jaw case for easy maintenance and service
- Clear quick release mandrel collector bottle reduces downtime



Vertical Riveting Tool

- Hydraulically operated processing equipment for gentle and reliable rivet joints
- Separate supply unit contains pneumatic control and the pneumatic-hydraulic pressure intensifier and remote rivet stem collector



STANLEY
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Product Portfolios

AVDEL

Structural Blind
Fasteners

INTEGRA

Plastic
Components

NELSON

Stud
Welding

OPTIA

Threaded
Fasteners

POP

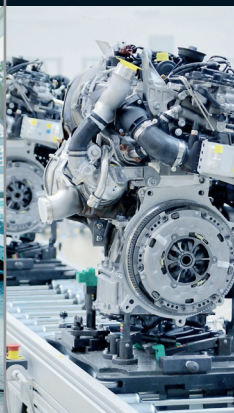
Non-structural
Blind Fasteners

STANLEY
Assembly Technologies

Specialist
Assembly

TUCKER

Automated
Fastener Systems



STANLEY
Engineered Fastening

Stanley Engineered Fastening — a division of Stanley Black and Decker — is the global leader in precision fastening and assembly solutions. Our industry-leading brands, Avdel®, Integra™, Nelson®, Optia®, POP®, Stanley® Assembly Technologies, and Tucker®, elevate what our customers create. Backed by a team of passionate and responsive problem-solvers, we empower engineers to create the future.

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AVDEL **INTEGRA** **NELSON** **OPTIA** **POP** **STANLEY** **TUCKER**
Assembly Technologies