# Products available for rapid prototyping

| Brand | Name / Description | |
|---|---|---|
| AVDEL | **Avtainer®**<br>High strength, steel fastener and shell designed for joining composite panels to metal. |  |
| AVDEL | **Avdelok®**<br>High strength, vibration resistant lockbolts with high controlled clamp. |  |
| AVDEL | **Avdelok® XT**<br>Large diameter lockbolt for demanding engineering applications. |  |
| AVDEL | **NeoBolt®** (pins)<br>High strength, unmatched vibration resistant lockbolts without pin break for heavy duty structural applications. |  |
| AVDEL | **Maxlok®** (collars)<br>Vibration resistant lockbolts with multigrip capability. |  |
| AVDEL | **Eurosert®**<br>Improves torque-to-turn resistance in softer materials such as aluminium. |  |
| AVDEL | **Thin Sheet Nutsert®**<br>Designed to provide load bearing threads in thin sheet materials. |  |
| AVDEL | **Briv®**<br>Versatile speed rivet for a wide range of applications. |  |
| AVDEL | **Rivscrew®**<br>Threaded removable and reuseable speed rivet. |  |
| AVDEL | **Chobert®**<br>Controlled clamp, high shear for soft and brittle materials. |  |

| Brand | Name / Description | |
|---|---|---|
| AVDEL | **Avtronic®**<br>Attaches connectors to PCB. |  |
| AVDEL | **Grovit®**<br>For blind hole applications in wood, plastics, fibre- glass and aluminium. |  |
| AVDEL | **Avsert®**<br>Threaded stand-off pillars for PCBs. |  |
| AVDEL | **Avseal®**<br>Blind sealing plug system designed for low pressure blind hole sealing applications. |  |
| AVDEL | **Avseal® XT**<br>Blind sealing plug system for high pressures. |  |
| POP | **Open End**<br>Non-structural blind breakstem rivet designed for a wide range of applications. |  |
| AVDEL | **Avex®**<br>Specifically designed for applications where corrosion resistant aluminium is required. |  |
| AVDEL | **Stavex®**<br>Multi-grip breakstem fastener with a reliable track record in a wide range of applications. |  |
| AVDEL | **Hemlok®**<br>Structural breakstem fasteners with great shear & tensile strength and a large blind side bearing area against the rear sheet. |  |
| AVDEL | **Avibulb® XT**<br>Wide grip range structural breakstem fasteners with excellent bulbing tail formation. |  |

**Contact us today for more information or to arrange a consultation.**

STANLEY Engineered Fastening

## Product Portfolios

| AVDEL | INTEGRA | NELSON | OPTIA | POP | STANLEY Assembly Technologies | TUCKER |
|---|---|---|---|---|---|---|
| Structural Blind Fasteners | Plastic Components | Stud Welding | Threaded Fasteners | Non-structural Blind Fasteners | Specialist Assembly | Automated Fastener Systems |


STANLEY Engineered Fastening

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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.

**STANLEY ENGINEERED FASTENING FAMILY OF BRANDS**

AVDEL INTEGRA NELSON OPTIA POP STANLEY Assembly Technologies TUCKER



**stanleyengineeredfastening.com**

STANLEY Engineered Fastening




# Rapid Prototype Fasteners

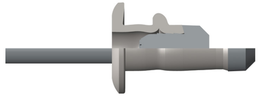
Accelerate product development and testing to solve engineering challenges faster

STANLEY
Engineered Fastening

# Small volume, quick turnaround samples saving you development time & budget

**With a typical lead-time of up to 18 weeks for the development and production of a new or bespoke fastener, our rapid prototype service can halve this to typically 8 weeks allowing engineers to prove a design before going to full production.**

Not only does this save you time but also reduces the financial risk associated to a production run of new untested fasteners.



## Rapid prototyping timeline - providing fast, efficient solutions


When you design a product that requires customized fasteners, Stanley Engineered Fastening bring the innovation that allows our customers to meet the demands of the modern world, while overcoming complex engineering and operational challenges. Our Application Engineers will work with you to deliver bespoke prototyped samples that meet your needs and allow you to progress your application solution faster. Our highly skilled prototype engineering team use our our state of the art CNC equipment in order to deliver production-representative, high quality prototype samples without the costs associated with heading and rolling tooling plus production volumes.

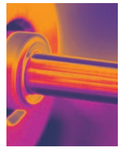
## Rapid prototyping process - solving challenges and delivering on promises

**1 Customer enquiry**
*Our highly experienced customer service team will get you to the right people*

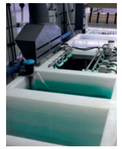
**2 Consultation**
*Discuss your requirements with our experts and finalise your design*

**3 CNC machining**
*Once your design is approved production begins on our CNC machines*

**4 Heat treatment**
*Heat treating your prototype ensures representative strength and performance*



**5 Plating & assembly**
*Final processes ensure your prototypes are ready for use*



**6 Delivery**
*Your fasteners are packed and dispatched directly to you*


# Service is focused on producing customized geometries to meet customer specific applications

## Rapid prototyping features and benefits

- Customised Geometries
- Non-standard Sizes
- Sealing Beads
- Washers
- Alternative Coatings
- Surface Finishes

We can also provide additional fastener features such as under-head sealing beads or washers for enhanced leak resistance, alternative coatings for better corrosion resistance, painting and other surface finishes for colour-matching, or special head marking for specific identification purposes. We have state of the art CNC machine tools that allow us to produce a wide range of fasteners from our expansive product portfolio in small sample batch quantities.

## Catering for all demands across many sectors - ensuring a solution

As the market leading manufacturer of fastening solutions, we are experienced in the demands of all market sectors and have delivered solutions to the following markets:

- Aerospace
- General manufacturing
- Nuclear Energy
- Appliances
- Ground Transportation
- Oil & Gas
- Automotive Aftermarket
- HVAC & Sheet Power Generation
- Automotive & Light Truck
- Lawn & Garden
- Recreational Products
- Commercial Lighting
- Medical Equipment
- Renewable Energy
- Construction & Infrastructure
- Military & Defense
- Shipbuilding
- Electronics & Telecom
- Mining & Agriculture

# Rapid prototyping can provide fastening solutions to the challenges offered by most industry sectors

Rapid prototyping provides a cost-effective means of quickly testing production quality samples, enabling real world decisions to be made before mass production