

Speed Fastening® Systems

Reduce Assembly Costs with the most effective blind fastening technology.

Holding your world together®



Speed fasteners

High precision, system-compatible function, ease of operation and quick processes are guaranteed because you can fasten continuously from magazine or bowl fed fasteners and place up to 60 fasteners per minute. For fast and reliable assembly processes.

Speed Fastening Systems can reduce assembly costs, shorten cycle times, increase productivity and reduce rework and other quality costs. Speed Fastening Systems are well suited for use in small, medium and large batch processes as well as continuous production lines.

Installation

For smaller batches, we offer a choice of power tools and simple assembly workstations. For larger batches, multihead systems offer a cost effective solution. For continuous flow lines, we have the technology to develop fully automated assembly systems.

Applications

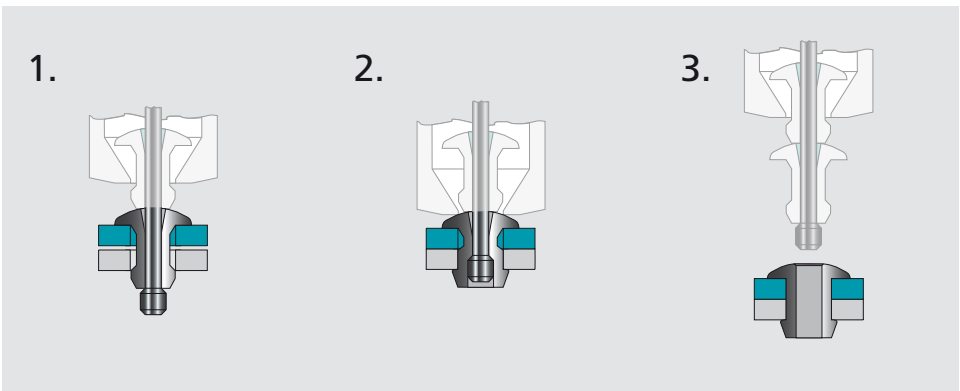
Speed Fastening Systems can be used to assemble metal and plastics, composite material and electronic components. With an average cycle time of less than two seconds, these systems provide a fast installation from one side (blind).

Mission

Together with our customers, we develop blind fastening systems that simplify your production process and improve the quality of your products. In every case, we not only see ourselves as a provider of fasteners, tools and machines but as a development and system partner with the objective of helping our customers improve their assembly performance.



Typical placing sequence



1. The mandrel with pre-loaded fastener is located in the hole.

2. Tool activation pulls the mandrel through the fastener, expanding it within the hole to provide high clamp and secure joints.

3. At the end of the installation cycle, the next fastener is automatically delivered to the nose of the tool, ready to repeat the assembly process.

Please visit our website www.StanleyEngineeredFastening.com for fastener placing animations.

The surface finishes for our speed fasteners are as follows:

Steel

Zinc plate and clear passivation

Option:

Epoxy paint

Zinc-nickel (with clear or black passivation)

Organic coatings

Aluminium Alloy

Natural

Option:

Anodising (clear or colour dyed)

Epoxy paint

Stainless Steel

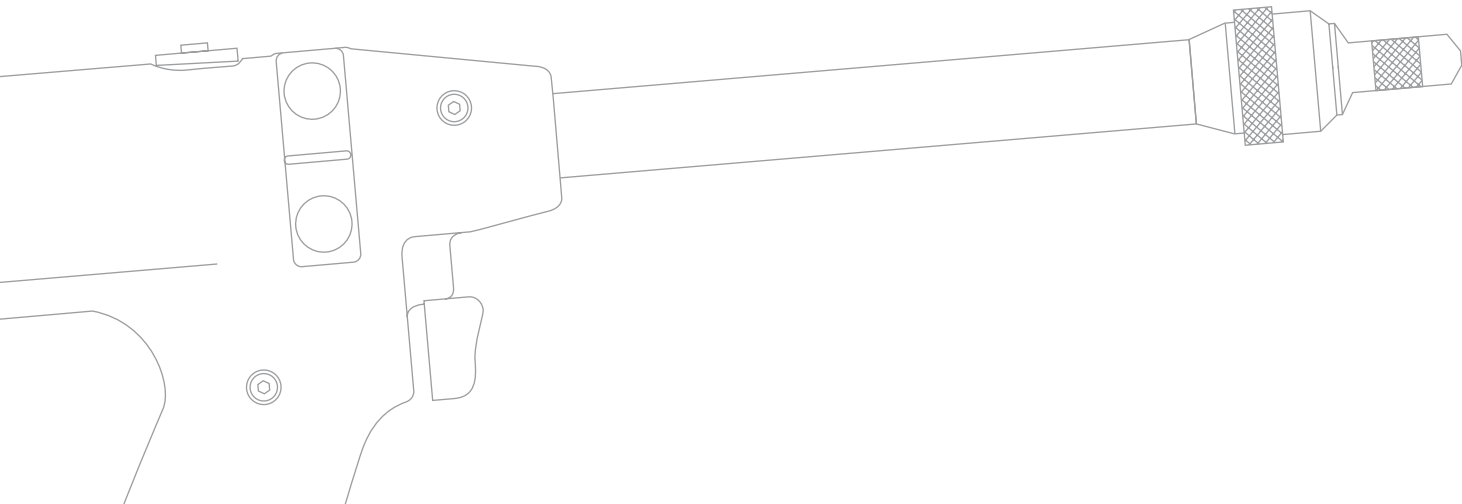
Passivated

Brass

Brightened

Tin plated (for solderability)

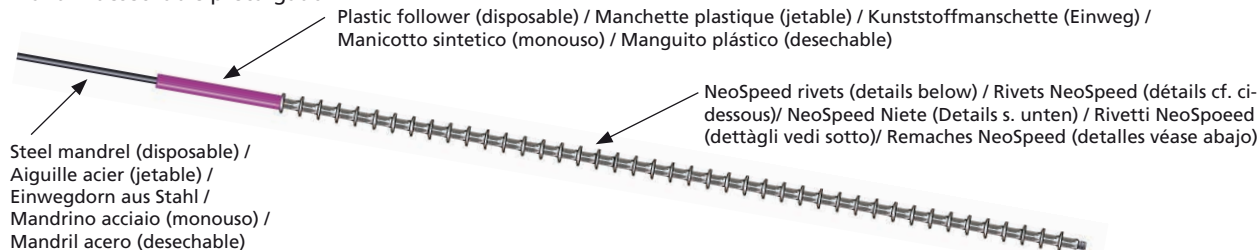
Almost all our fastener families may be specified with alternative surface finishes to provide increased corrosion resistance or a specific colour to suit your special application.





NeoSpeed® "Cartridge":

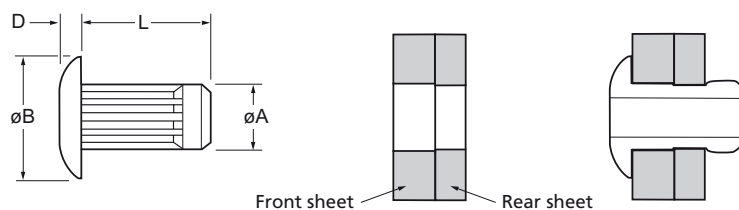
Pre-loaded disposable mandrel / Aiguille pré-chargée jetable / Vormagaziniert auf Einwegdorn / Precaricato su mandrino monouso / Mandril desechable precargado








NeoSpeed® Rivets:

English	Français	Deutsch	Italiano	Español
Mushroom head	Tête plate	Flachrundkopf	Testa tonda	Cabeza alomada
Steel*	Acier*	Stahl*	Acciaio*	Acero*
Zinc plated	Revêtement zingué	Verzinkt	Zincato	Zincado
Clear trivalent passivated	Passivation claire trivalente	Klar chromatiert, Cr6-frei	Passivazione chiara trivalente	Pasivado claro trivalente

* : EN 10263-2 C8C SAE 1008 DIN 1654 QSt34-3



ø			Front sheet / Pièce avant / oberes Bauteil / lamiera anteriore / pieza delantera 		Rear sheet / Pièce arrière / unteres Bauteil / lamiera posteriore / pieza trasera 		øB	D	L	øA			Fasteners per cartridge / Nombre de rivets par aiguille / Niete pro Dorn / Rivetti per mandrino / Uds./mandril	Cartridge Part No/ref
nom.	min.	max.	min.	max.	min.	max.	max.	max.	max.	max.	kN ¹⁾	kN ¹⁾	± 1	
3.2 (1/8")	0.4	2.0	3.35	3.62	3.26	3.42	6.53	1.10	4.8	3.17	1.16	1.87	52	57121-13204
	0.4	4.5							7.3				37	57121-13207
	0.4	8.6							11.5				24	57121-13211
4.0 (5/32")	0.5	2.2	4.10	4.43	3.97	4.18	8.18	1.25	5.4	3.90	1.80	3.00	47	57121-14005
	0.5	5.0							8.0				33	57121-14007
	0.5	9.1							11.7				2.00	2.80
4.8 (3/16")	0.6	2.4	5.00	5.40	4.85	5.10	9.71	1.50	5.8	4.79	2.60	4.20	44	57121-14805
	0.6	5.2							8.9				31	57121-14808
	0.6	9.2							12.7				22	57121-14812

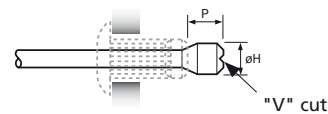
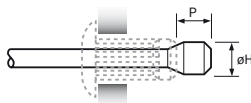
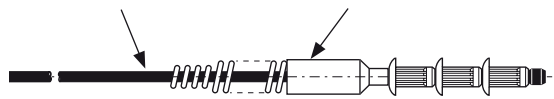
all dimensions in mm / en millimètres / alle Maße in mm / in millimetri / en milímetros

1) typical values / valeurs moyennes / typische Werte / Valori tipici / valores típicos

NeoSpeed® Mandrel and Spring Information

Aiguilles et Ressorts d'aiguille / Nietdorne und -federn /
Mandrini e Molle / Mandriles y Muelles

Mandrel / Aiguille / Nietdorn / Spring / Ressort d'aiguille / Nietdornfeder /
Mandrino / Mandril Molla / Muelle



Mandrel for stainless steel NeoSpeed

Ø nom.	Material Matériaux Material Materiale Material	Description Description Beschreibung Descrizione Descripción	Ø H nom.	P max.	Mandrel ¹⁾ Part No/ref	Spring ¹⁾ Part No/ref
3.2 (1/8")	Aluminium ²⁾ , Steel ³⁾	Standard	2.30	3.05	07530-06014	07150-06814
	Stainless Steel ⁴⁾	Standard	2.39	3.05	07530-06804	
4.0 (5/32")	Aluminium ²⁾ , Steel ³⁾	Standard	2.67	3.45	07530-06015	07170-06875
	Stainless Steel ⁴⁾	Standard	2.93	3.50	07530-06805	
4.8 (3/16")	Aluminium ²⁾ , Steel ³⁾	Standard	3.53	3.99	07530-06016	07170-06876
	Stainless Steel ⁴⁾	Standard	3.43	3.96	07530-06806	

all dimensions in mm / en millimètres / alle Maße in mm / in millimetri / en milímetros

1) for use with paper magazine / pour utilisation avec chargeur papier / für Verarbeitung mit Papiermagazin / da usare con caricatori blister di carta / sólo para remaches en tiras de papel

2) Aluminium / Aluminium / Alluminio / Aluminio

3) Acier / Stahl / Acciaio / Acero

4) Inox / Edelstahl / Acciaio inox / Acero inoxidable