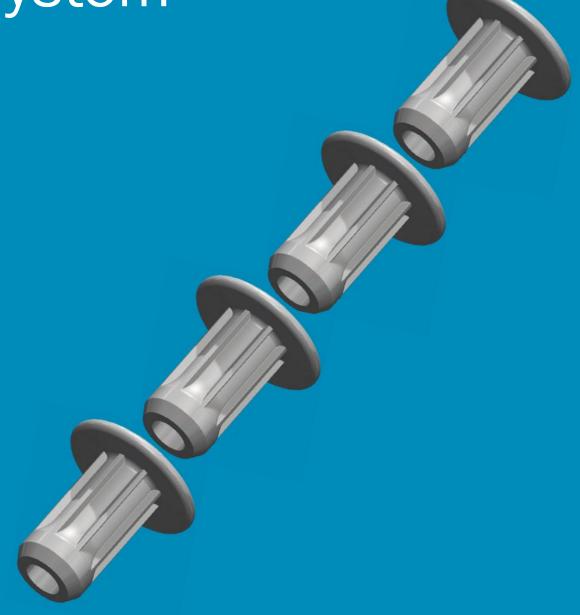


NeoSpeed®
Speed Fastening®
System





NeoSpeed®

The new range of NeoSpeed® rivets takes Avdel's Speed Fastening® technology to the next level. This newly developed fastening system has been designed and optimised using class-leading finite element analysis techniques, and its unique splined rivet design is patent pending.

NeoSpeed® fastening is launched on the 75th anniversary of Avdel and it delivers simply the strongest, most versatile speed riveting system in the world.



Rapidly installed NeoSpeed® riveting now offers our customers real benefits:

- · Improved quality and easier inspection
- · Increased manufacturing throughput
- · No metal waste
- · Enhanced joint performance for less weight and size
- · Lower assembly costs

Key features and benefits

Increased Manufacturing Throughput

 The NeoSpeed® fastening process delivers a throughput up to four times greater than traditional threaded or breakstem fasteners

Wider Grip Ranges

- Multi-grip capability accommodates wide variations in material thickness
- One rivet can be used to replace several standard grip fasteners

Greater Hole Size Tolerance

- 3x greater than standard breakstem rivets
- Enlarged front sheet hole for easier and quicker assembly (avoids misalignment issues)
- Far less sensitive to application variations

Hole-filling External Splines

- Fills rear sheet and oversize front sheet holes
- Potential to eliminate shear-slip & rattles
- Accommodates and fills misaligned holes

Easier Specification

- · One-rivet x one-mandrel solution
- Fewer part numbers to hold in-stock

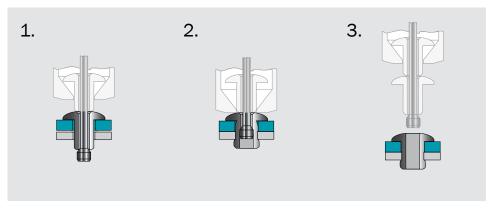
Improved Quality

- Fewer failure modes versus breakstem riveting
- · Simple inspection of installed rivets
- Reliable riveting process less chance of jaw clogging, stem jams, metallic debris, spent pintails dropped in application

Environmental Considerations

- No metal waste versus breakstem riveting
- Typically half the installed weight versus an equivalent breakstem rivet
- Reduced energy consumption manufacturing, transportation, handling - both before and after placing in the application

Typical placing sequence



- 1. The mandrel with pre-loaded NeoSpeed® fastener is located in the hole.
- Tool activation pulls the mandrel through the fastener, expanding it within the hole to provide high clamp and secure joints.
- 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.avdel-global.com for fastener placing animations.

Speed Fastening® System

Range

- · Material: Aluminium and steel; various finishes available
- · Headform: Mushroom
- Sizes: 1/8" (ø 3.2 mm) to cover thickness from .016" .339"* 5/32" (ø 4.0 mm) to cover thickness from .020" - .358"* 3/16" (ø 4.8 mm) to cover thickness from .024" - .362"
- * Advance information only

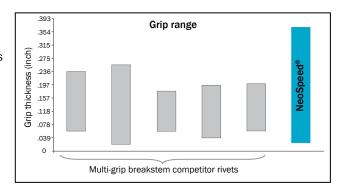
Other sizes, materials and headforms under development

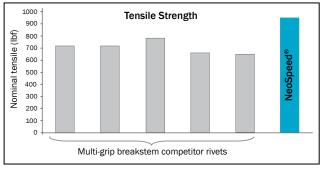


NeoSpeed® rivets placed in minimum and maximum grip

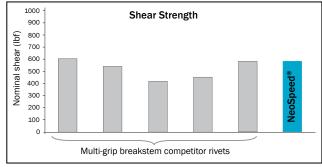
Placing performance

- Bigger grip range and wider hole size tolerances than any competitor blind rivet
- · Unique hole-filling action accomodates misaligned joint holes
- Higher tensile strength than multi-grip breakstem rivals
- · Better than average shear strength which is independent of
- · Higher joint clamp loads and rigidity in shear





Airbags



Assembly applications

- Automotive
- Electronics

Heating

- · Domestic appliances
- · Electrical equipment
- · General light fabrication





Rapid action door



Interior



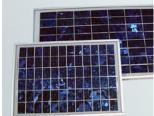
Computer cabinet



Seat & trim

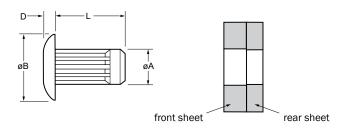


Solar panel



NeoSpeed®

Technical Data



ø nom.	øB max.	D max.	øA max.
1/8" (3.2 mm)	.257	.043	.1245
5/32" (4.0 mm)	.322	.049	.1535
3/16" (4.8 mm)	.382	.059	.1885

Ø	ø					L	Mushroom head Aluminium Alloy to BS1473, 5056A, DIN 1725, AIMg5, Werkstoff 3.3555 natural		Mushroom head Steel to BS 3111 Type 0, SAE1008, DIN 1654, QSt34-3 zinc plated, clear passivated				
					I					Part No.			Part No.
			front	sheet	rears	sheet							
nom.	min.	max.	min.	max.	min.	max.	max.	lbf ¹⁾	lbf ¹⁾		lbf ¹⁾	lbf ¹⁾	
1/8"* (3.2 mm)	.016	.079	.1319	.1425 .:	.1285 .1349		.157	186	323	57101-03204	272	463	57121-03204
	.016	.177				.1349	.256			57101-03206			57121-03206
	.016	.339					.421			57101-03211			57121-03211
5/32"* (4.0 mm)	.020	.086					.185			57101-04005			57121-04005
	.020	.197	.1614	.1744	.1562	.1646	.295	281	429	57101-04007	395	710	57121-04007
	.020	.358]				.460			57101-04012			57121-04012
3/16" (4.8 mm)	.024	.095					.212			57101-04805			57121-04805
	.024	.204	.1969	.2126	.1910	.2008	.322	373	676	57101-04808	539	944	57121-04808
	.024	.362					.488			57101-04812			57121-04812

all dimensions in inch; 1) typical values

Installation tools

The NeoSpeed® rivets can be placed with the Avdel installation tools type 7530, 7537 and 7271 using the following installation equipment. For further information please contact your local Avdel representative.

ø nom.	Nose Equipment Part No.	Mandrel Part No.	Follower Spring Part No.
1/8" (3.2 mm)	07530-03200	07530-06014	07150-06814
5/32" (4.0 mm)	07530-03300	07530-06015	07170-06875
3/16" (4.8 mm)	07530-03400	07530-06016	07170-06876

7530 Standard tool



7271



Avdel®





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^{*}Advance information only