

Avbolt® Structural Blind Fastener

The Avbolt structural fastener is a high strength, tamper resistant, blind steel fastener designed for use in heavy-duty structural applications. It offers a high tensile and shear strength normally only possible with non blind lockbolts and combines it with the installation speed of blind products.



Avbolt 10.0, 12.7 and 16.0 mm:
3 piece design (sleeve, collar, stem)



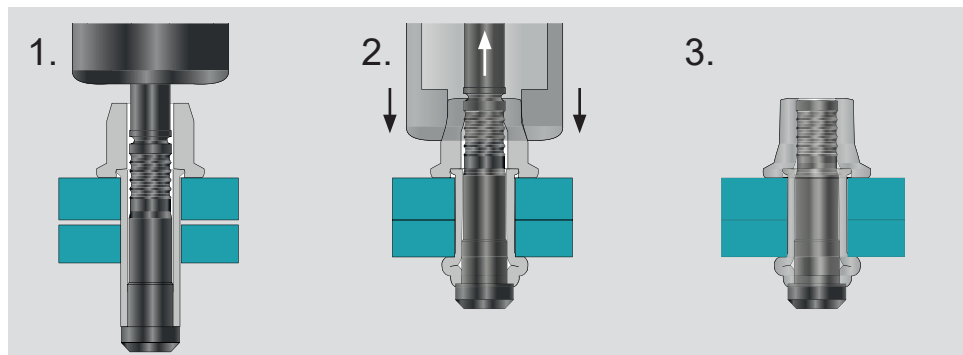
Avbolt 4.8, 6.4 and 8.0 mm:
2 piece design (sleeve with collar, stem)

Key features and benefits

- Use on blind sided application
- High tensile and shear strength for heavy-duty applications
- Wide grip capability suits a variety of material thicknesses
- Ideal for areas with restricted access
- Locking feature creates a vibration resistant joint and prevents loose stems
- Fast installation
- High security tamper resistance - TIR approved
- Simple tooling requires only minimum operator skill

Specifications Typical placing sequence (3 piece design)

Sizes:
4.8 mm to 16.0 mm
(3/16" to 5/8")
Material:
Steel



Patent Protected.

Please visit our website for fastener placing animations.

Assembly applications

- Automotive
- Truck and trailer
- Construction
- Container
- Renewable energies
- Railway
- Mining
- Security fencing

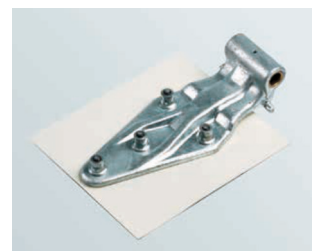
Security fence



Steel construction



Hinge attachment



Installation Tools

Tool Selection Guide

This table is designed as a guide to help you select the most suitable tool for your particular lockbolt.




Please note that all tools require fastener specific nose assemblies.

Full technical data can also be found on our website or contact your STANLEY Engineered Fastening representative.

Fastener Type	Size	Installation Tool							
		Genesis® nG3 LB	ProSet® XT4	73200	7287	AV™ 10*	AV™ 15*	AV™ 30*	AV™ 50*
NeoBolt®	4.8 mm (3/16")	•							
	6.4 mm (1/4")	•							
	8.0 mm (5/16")			•					
	9.6 mm (3/8")				•				
	12.7 mm (1/2")						•		
	16.0 mm (5/8")							•	
	19.1 mm (3/4")							•	
	25.4 mm (1")								•
Avdelok®	4.8 mm (3/16")		•	•	•				
	6.4 mm (1/4")		•	•	•				
	8.0 mm (5/16")			•	•				
	9.6 mm (3/8")			•	•	•			
Avdelok® XT	12.7 mm (1/2")						•	•	
	16.0 mm (5/8")							•	
	19.1 mm (3/4")							•	
	22.2 mm (7/8")								•
	25.4 mm (1")								•
	28.6 mm (1-1/8")								•
Maxlok®	4.8 mm (3/16")		•	•	•				
	6.4 mm (1/4")		•	•	•				
Avtainer®	10.0 mm (3/8")		•	•	•				
Avbolt®	4.8 mm (3/16")			•	•				
	6.4 mm (1/4")			•	•				
	8.0 mm (5/16")			•	•	•			
	10.0 mm (3/8")					•			
	12.7 mm (1/2")						•	•	
	16.0 mm (5/8")							•	

*All AV™ Series tools require Enerpac® Power Unit for operation.

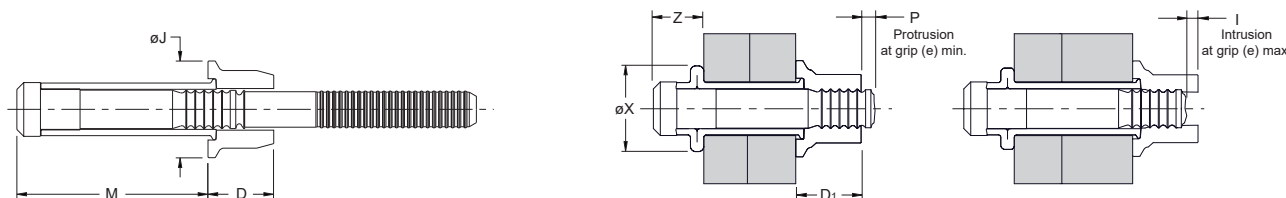






English	Français	Deutsch	Italiano	Español	****
Stem: Chromium Molybdenum steel* Black oxide	Tige: Acier* Noir	Dorn: Stahl* Schwarz	Gambo: Acciaio* Passivato nero	Vástago: Acero* Pavonado	 8 h
Sleeve: Carbon steel** Zinc plated Clear trivalent passivated	Douille: Acier** Revêtement zingué Passivation claire trivalente	Hülse: Stahl** Verzinkt Klar chromatiert, Cr6-frei	Bussola: Acciaio** Zincata Passivazione chiara trivalente	Cuerpo: Acero** Zincado Pasivado claro trivalente	 240 h
Collar: Carbon steel*** Zinc plated Clear trivalent passivated	Bague: Acier*** Revêtement zingué Passivation claire trivalente	Schließring: Stahl*** Verzinkt Klar chromatiert, Cr6-frei	Collare: Acciaio*** Zincato Passivazione chiara trivalente	Collar: Acero*** Zincado Pasivado claro trivalente	 240 h

*: EN 10263-4 34CrMo4 SAE4135 SCM435 **: EN 10263-2 C8C SAE1008 ***: EN 10263-4 23MnB4

****: to red rust / à la rouille rouge / bis Rotrost / alla ruggine rossa/ al óxido rojo (ASTMB117)

Avbolt fasteners are supplied with lubricated collars and must not be degreased. / Avbolt sont lubrifiées et ne doivent pas être dégraissées. / Avbolt sind mit einem Gleitmittel beschichtet, welches nicht entfernt werden darf. / I Avbolt sono forniti lubrificati e non devono esseresgrassati. / Los Avbolt se suministran con collares lubricados y no deben ser desengrasados.



Ø nom.					M max.	ØJ max.	D max.	ØX nom.	Z max.	D ₁ nom.	P max.	I max.			Part No/ref
	min.	max.	min.	max.											
10.0 (3/8")	4.78	7.95	10.49	11.05	25.10	18.77	12.65	15.49	9.58	14.50	4.36	1.72	45.00	32.25	21001-01204
	7.95	11.13			28.27										21001-01206
	9.54	12.72			30.02										21001-01207
	11.13	14.30			31.45										21001-01208
	14.30	17.48			34.62										21001-01210
	17.48	20.65			37.80										21001-01212
	20.65	23.83			40.97										21001-01214
	23.83	27.00			44.15										21001-01216
	27.00	30.18			47.32										21001-01218
	30.18	33.35			50.50										21001-01220
12.7 (1/2")	6.38	9.55	13.87	14.76	31.82	24.31	15.01	20.62	13.11	16.10	4.36	1.57	90.00	57.00	21001-01604
	9.55	12.73			35.00										21001-01606
	12.73	15.90			38.18										21001-01608
	15.90	19.08			41.36										21001-01610
	19.08	22.25			44.53										21001-01612
	22.25	25.43			47.70										21001-01614
	25.43	28.60			50.87										21001-01616
	28.60	31.78			54.02										21001-01618
	31.78	34.95			57.16										21001-01620
	34.95	38.13			60.27										21001-01622
	38.13	41.30			63.35										21001-01624
	16.0 (5/8")	6.35			12.70										17.45
12.70		19.05	45.70	21001-02008											
19.05		25.40	52.05	21001-02012											
25.40		31.75	58.40	21001-02016											
31.75		38.10	64.75	21001-02020											

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

1) Strength values apply only where the joint thickness exceeds 150% of the joint hole diameter.

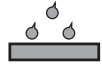
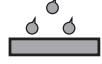
Les valeurs de résistances mécaniques sont applicables uniquement lorsque l'épaisseur à serrer dépasse 150% du diamètre du trou de l'application.

Die Festigkeitswerte gelten nur bei einem Klemmbereich größer als 150% des Lochdurchmessers.

I valori di resistenza si applicano solamente laddove lo spessore da serrare supera il 150% del diametro del foro.

Los valores de resistencias sólo se aplican si el espesor total de la aplicación supera el 150% del diámetro del remache.

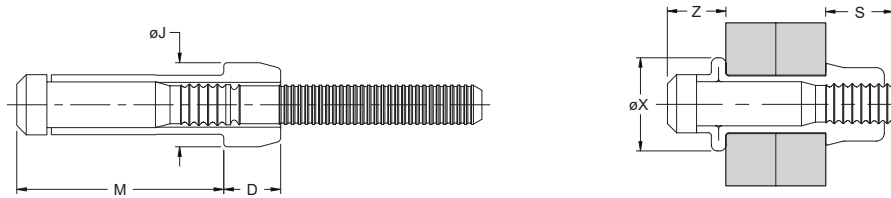






English	Français	Deutsch	Italiano	Español	***
Body: Carbon steel* Zinc plated Clear trivalent passivated	Corps: Acier* Revêtement zingué Passivation claire trivalente	Hülse: Stahl* Verzinkt Klar chromatiert, Cr6-frei	Corpo: Acciaio* Zincata Passivazione chiara trivalente	Cuerpo: Acero al carbono* Zincado, Pasivado claro trivalente	 240 h
Stem: Carbon steel** Black oxide	Tige: Acier** Noir	Dorn: Stahl** Schwarzbrüniert	Gambo: Acciaio** Passivato nero	Vástago: Acero al carbono** Pavonado	 8 h

*: SAE 1008 EN 10263-2 C8C **: SCM435 SAE4135 EN 10263-4 34CrMo4

***: to red rust / à la rouille rouge / bis Rotrost / alla ruggine rossa/ al óxido rojo (ASTMB117)

Bodies are supplied lubricated and must not be degreased. / Les corps sont lubrifiés et ne doivent pas être dégraissés. / Hülsen sind mit einem Gleitmittel beschichtet, welches nicht entfernt werden darf. / I corpi sono forniti lubrificati e non devono essere sgrassati. / Los cuerpos se suministran lubricados y no deben ser desengrasados.



ø nom.					M max.	øJ max.	D max.	S max.	øX nom.	Z max.	 kN min. ¹⁾	 kN min. ¹⁾	Part No/ref
	min.	max.	min.	max.									
4.8 (3/16")	2.36	3.99	5.28	5.64	12.41	7.32	4.95	6.38	7.54	5.35	12.40	8.00	21021-00602
	3.99	5.59			14.01								21021-00603
	5.59	7.16			15.59								21021-00604
	7.16	8.76			17.19								21021-00605
	8.76	10.34			18.76								21021-00606
	10.34	11.94			20.36								21021-00607
	11.94	13.51			21.94								21021-00608
	13.51	15.11			23.54								21021-00609
	15.11	16.69			25.11								21021-00610
	16.69	18.29			26.71								21021-00611
18.29	19.89	28.29	21021-00612										
6.4 (1/4")	2.36	3.99	7.04	7.42	16.51	9.70	6.61	8.76	9.84	7.24	22.69	14.46	21021-00802
	3.99	5.59			18.11								21021-00803
	5.59	7.16			19.69								21021-00804
	7.16	8.76			21.29								21021-00805
	8.76	10.34			22.86								21021-00806
	10.34	11.94			24.46								21021-00807
	11.94	13.51			26.04								21021-00808
	13.51	15.11			27.64								21021-00809
	15.11	16.69			29.21								21021-00810
	16.69	18.29			30.81								21021-00811
18.29	19.89	32.39	21021-00812										
8.0 (5/16")	4.78	7.95	8.84	9.35	23.31	12.39	8.61	10.25	12.28	9.10	36.47	23.57	21021-01004
	7.95	11.13			26.49								21021-01006
	11.13	14.30			29.66								21021-01008
	14.30	17.48			32.84								21021-01010
	17.48	20.65			36.01								21021-01012
	20.65	23.83			39.19								21021-01014
23.83	26.97	42.36	21021-01016										

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

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Les valeurs de résistances mécaniques sont applicables uniquement lorsque l'épaisseur à sertir dépasse 150% du diamètre du trou de l'application.

Die Festigkeitswerte gelten nur bei einem Klemmbereich größer als 150% des Lochdurchmessers.

I valori di resistenza si applicano solamente laddove lo spessore da serrare supera il 150% del diametro del foro.

Los valores de resistencias sólo se aplican si el espesor total de la aplicación supera el 150% del diámetro del remache.

POP® & Avdel® have been producing assembly systems since the 1930s and offer comprehensive ranges of innovative fasteners and installation systems to all market segments and applications. STANLEY Engineered Fastening offers POP Avdel products through Sales, Distribution and Manufacturing facilities in over 150 countries. Covered by the portfolio are:



Breakstem Riveting Systems
Various features from multi-grip capability to high strength stainless steel rivets.



Lockbolt Systems
High clamp force and vibration resistance for the highest strength joints.



Speed Fastening® Systems
Extra fast and reliable fastening from one side. Rivets are fed automatically.



Sealing Plugs
Engineered for both low-pressure and high-pressure hole sealing applications.



Blind Rivet Nuts
Fast system for sustainable threads with high torque-to-turn.



Customised Fastener Designs
Bespoke designs and finishes to meet your unique assembly requirements.



Installation Equipment
From manually operated power tools to customised semi and fully automated assembly workstations and repair tools.

We can also provide you with:



One-stop shopping for the blind riveting distributor market. MasterFix® owes its excellent reputation to the successful distribution of the broadest range of blind rivets and blind rivet nuts in the business.



CribMaster® is the global leader in inventory & asset management solutions for industrial environments.



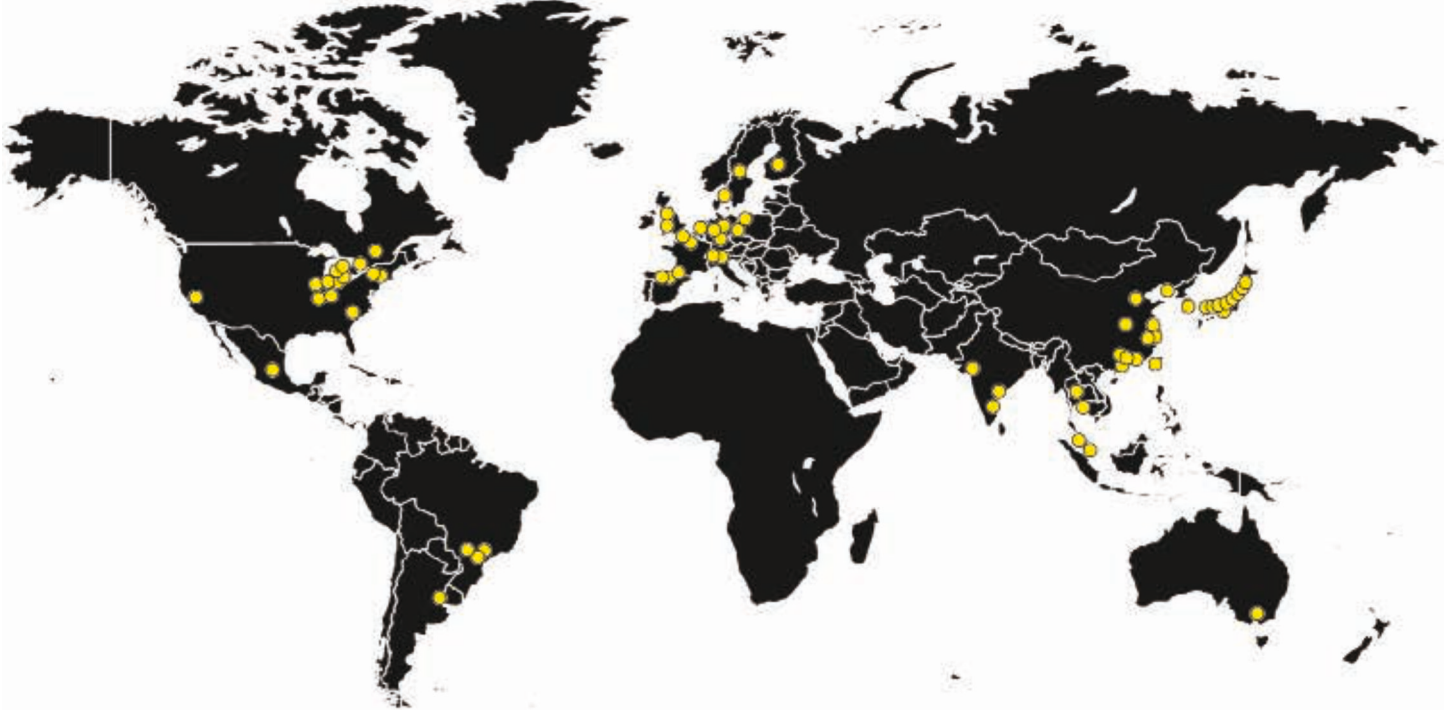
Spiralock® is a technologically superior fastening system ideally suited for threaded joint applications subjected to heavy shock and vibration.



CribMaster's comprehensive portfolio of vending machines & tool control solutions driven by a powerful software platform helps customers save 25% - 40% of costs associated with indirect material management, essential in the unrelenting drive towards efficiency & lower costs at manufacturing facilities today.

STANLEY®

Engineered Fastening



STANLEY Engineered Fastening, a Stanley Black & Decker Inc. Company has been revolutionizing fastening and assembly technologies for a variety of industries for more than 40 years.

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www.StanleyEngineeredFastening.com

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