

NeoBolt®

High strength, unmatched vibration resistant lockbolts without pin break for heavy duty structural applications, providing a collar 'fit-up' feature for easy pre-assembly.



Key features and benefits

No Pin Break:

- No metal waste, eco-friendly
- No dropped stems improving working area safety
- Avoid corrosion at stem break point (vs. traditional lockbolts)
- Reduced pin size and weight for lower warehousing and shipping cost

Maintenance Free:

- No torque or re-torque is required

Fast & Shockless Installation:

- Reduces operator fatigue and installation noise
- Fine pitch pin groove design for superior vibration resistance vs. traditional lockbolts and nut & bolt settings
- Collar 'fit-up' feature for easy pre-assembly of the joint, ideal for upside-down installation
- Radial bar indicators on collar for quick visual swage inspection upon placing

Specifications

Sizes:

4.8 mm – 25.4 mm
(3/16" – 1")

Material:

Steel

Head Style:

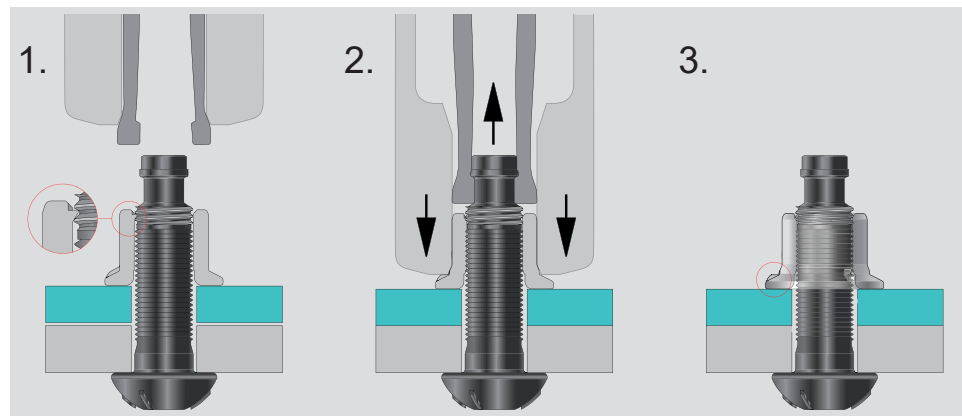
Round

Collar option:

Flanged

Patent protected.

Typical placing sequence



Please visit our website for fastener placing animations.

Assembly applications

- Railway
- Truck & Trailer
- Commercial Vehicles
- Solar & Wind Energy
- Bridge Building
- Mining Equipment
- Screening Equipment
- Fencing & Security Screens
- Construction
- Overland Infrastructure
- Power & Utility Services



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.

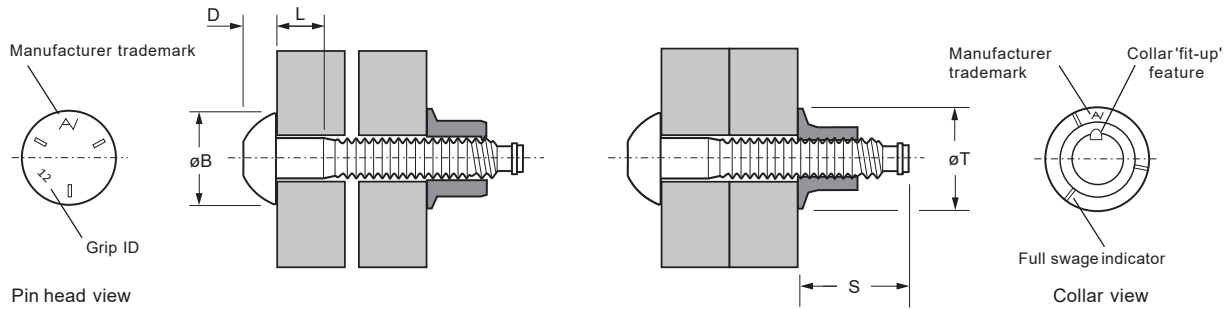
Fastener Type	Size	Installation Tool							
		Genesis® nG3 LB	ProSet® XT4	73200	7287	AV™ 10*	AV™ 15*	AV™ 30*	AV™ 50*
NeoBolt®	4.8 mm (3/16")	•							
	6.4 mm (1/4")	•							
	8.0 mm (5/16")			•					
	9.6 mm (3/8")				•				
	12.7 mm (1/2")						•		
	16.0 mm (5/8")							•	
	19.1 mm (3/4")							•	
	25.4 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
Round head	Tête ronde	Rundkopf	Testa tonda	Cabeza alomada
Pin: Medium carbon steel ≤ ø9,6 = Silver Magni 565 ¹⁾ ≥ ø12,7 = Black oxide (oiled) ¹⁾	Tige: Acier ≤ ø9,6 = Silver Magni 565 ¹⁾ ≥ ø12,7 = Oxyde noire (huilé) ¹⁾	Bolzen: Stahl ≤ ø9,6 = Silver Magni 565 ¹⁾ ≥ ø12,7 = Schwarz/brüniert (geölt) ¹⁾	Bullone: Acciaio ≤ ø9,6 = Silver Magni 565 ¹⁾ ≥ ø12,7 = Anodizzato nero (lubrificato) ¹⁾	Vástago: Acero ≤ ø9,6 = Silver Magni 565 ¹⁾ ≥ ø12,7 = Pavonado (lubricado) ¹⁾
Collar: Low carbon steel Zinc plated ¹⁾	Bague: Acier Zingué ¹⁾	Schließring: Stahl Verzinkt ¹⁾	Collare: Acciaio Zincato ¹⁾	Collar: Acero Zincado ¹⁾

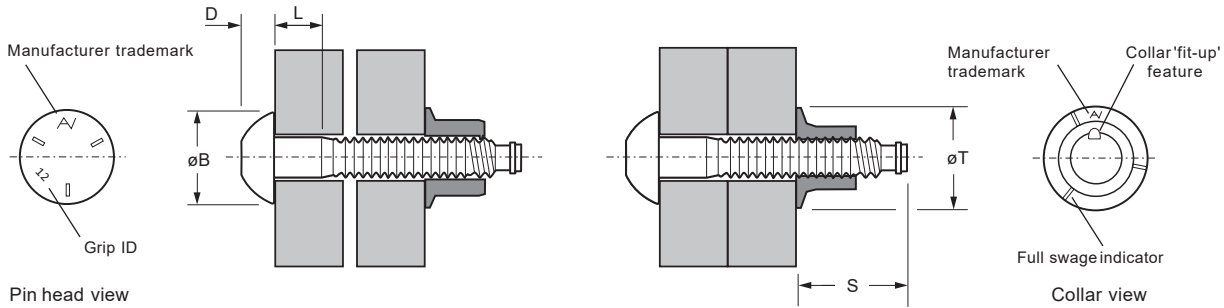
1) other surface finishes available upon request / d'autres finitions de surfaces disponibles sur demande / andere Oberflächen auf Anfrage / altre finiture superficiali sono disponibili su richiesta / disponibles otros acabados superficiales bajo pedido



ø nom.	e			min. max.		L nom.	øB nom.	D nom.	S at grip e max.	øT nom.	Part No/ref	
	ID	e min. ²⁾	e max. ²⁾	min.	max.						Pin	Collar
4.8 (3/16")	4	1.33	9.83	5.00	5.56	2.46	8.64	3.01	e min. = 20.04 e max. = 11.54	9.60	12851-60604	12801-30600
	6	4.50	13.00			5.64					12851-60606	
	8	7.68	16.18			8.81					12851-60608	
	10	10.85	19.35			11.99					12851-60610	
	12	14.03	22.53			15.16					12851-60612	
	14	17.20	25.70			18.34					12851-60614	
	16	20.38	28.88			21.51					12851-60616	
	18	23.55	32.05			24.69					12851-60618	
	20	26.73	35.23			27.86					12851-60620	
6.4 (1/4")	4	3.33	9.83	6.60	7.13	1.98	11.47	4.01	e min. = 22.21 e max. = 15.71	12.80	12851-60804	12801-30800
	6	6.50	13.00			5.16					12851-60806	
	8	9.68	16.18			8.33					12851-60808	
	10	12.85	19.35			11.51					12851-60810	
	12	16.03	22.53			14.68					12851-60812	
	14	19.20	25.70			17.86					12851-60814	
	16	22.38	28.88			21.03					12851-60816	
	18	25.55	32.05			24.21					12851-60818	
	20	28.73	35.23			27.38					12851-60820	
8.0 (5/16")	4	3.73	10.53	8.20	9.12	1.68	14.34	5.02	e min. = 25.77 e max. = 18.97	15.99	12851-61004	12801-31000
	6	6.90	13.70			4.85					12851-61006	
	8	10.08	16.88			8.03					12851-61008	
	10	13.25	20.05			11.20					12851-61010	
	12	16.43	23.23			14.38					12851-61012	
	14	19.60	26.40			17.55					12851-61014	
	16	22.78	29.58			20.73					12851-61016	
	18	25.95	32.75			23.90					12851-61018	
	20	29.13	35.93			27.08					12851-61020	

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

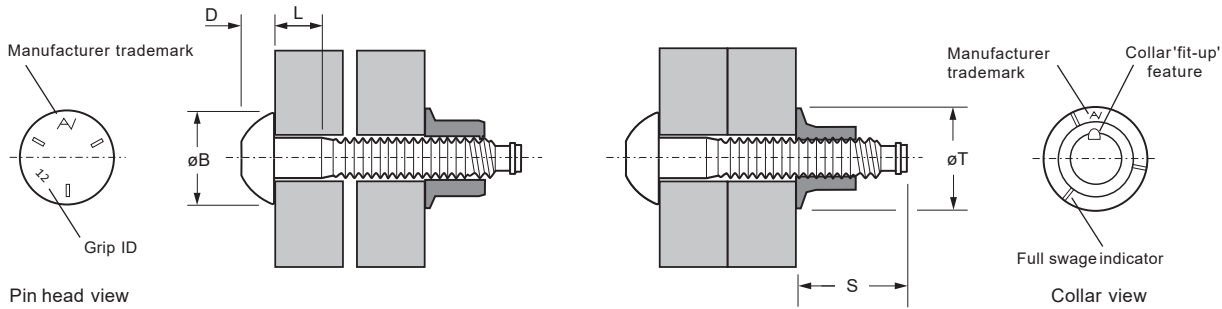
2) Grip range with recommended POPAvdel installation tools / Plage de serrage avec les outils d'installation POPAvdel recommandés / Klemmbereich mit empfohlenen POPAvdel Verarbeitungsgeräten / Gamma grip con i raccomandati strumenti di installazione POPAvdel / Rango de espesores con las herramientas de colocación recomendadas POPAvdel



Ø nom.	e			L		ØB nom.	D nom.	S at grip e max.	ØT nom.	Part No/ref	
	ID	e min. ²⁾	e max. ²⁾	min.	max.					Pin	Collar
9.6 (3/8")	4	1.45	11.15	9.80	10.71	1.55	17.21	6.02	19.19	12851-61204	12801-31200
	6	4.63	14.33			4.72					
	8	7.80	17.50			7.90					
	10	10.98	20.68			11.07					
	12	14.15	23.85			14.25					
	14	17.33	27.03			17.42					
	16	20.50	30.20			20.60					
	18	23.68	33.38			23.77					
	20	26.85	36.55			26.95					
	24	33.20	42.90			33.30					
12.7 (1/2")	4	7.50	15.75	13.10	14.28	4.60	22.94	8.00	26.15	12851-11604	12801-31600
	8	13.85	22.10			10.95					
	12	20.20	28.45			17.30					
	16	26.55	34.80			23.65					
	20	32.90	41.15			30.00					
	24	39.25	47.50			36.35					
	28	45.60	53.85			42.70					
	32	51.95	60.20			49.05					
	36	58.30	66.55			55.40					
	40	64.65	72.90			61.75					
	44	71.00	79.25			68.10					
	48	77.35	85.60			74.45					
	52	83.70	91.95			80.80					
	56	90.05	98.30			87.15					
	60	96.40	104.65			93.50					
	64	102.75	111.00			99.85					
68	109.10	117.35	106.20								
72	115.45	123.70	112.55								
76	121.80	130.05	118.90								
16.0 (5/8")	4	4.90	15.75	16.30	17.46	4.60	29.00	10.00	31.74	12851-12004	12801-32000
	8	11.25	22.10			10.95					
	12	17.60	28.45			17.30					
	16	23.95	34.80			23.65					
	20	30.30	41.15			30.00					
	24	36.65	47.50			36.35					
	28	43.00	53.85			42.70					
	32	49.35	60.20			49.05					
	36	55.70	66.55			55.40					
	40	62.05	72.90			61.75					
	44	68.40	79.25			68.10					
	48	74.75	85.60			74.45					
	52	81.10	91.95			80.80					

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

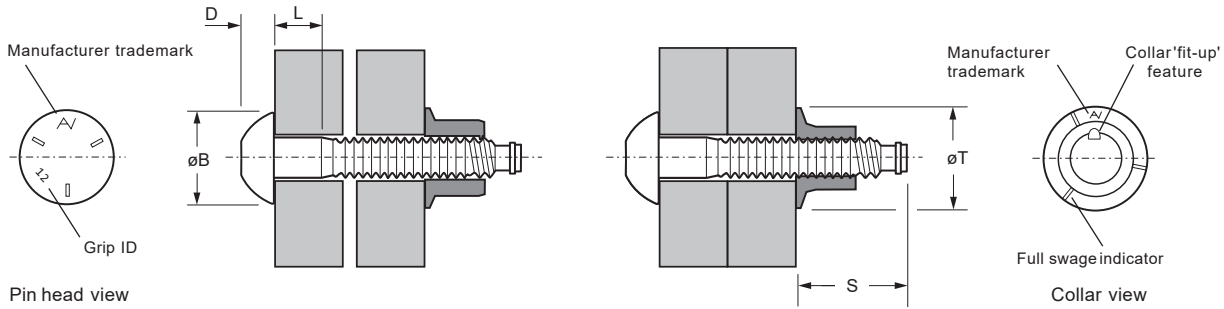
2) Grip range with recommended POPAvdel installation tools / Plage de serrage avec les outils d'installation POPAvdel recommandés / Klemmbereich mit empfohlenen POPAvdel Verarbeitungsgeräten / Gamma grip con i raccomandati strumenti di installazione POPAvdel / Rango de espesor con las herramientas de colocación recomendadas POPAvdel



ø nom.	e		L		øB nom.	D nom.	S at grip e max.	øT nom.	Part No/ref	
	ID	e min. ²⁾	e max. ²⁾	min.					max.	Pin
16.0 (5/8")	56	87.45	98.30	16.30	17.46	29.00	10.00	31.74	12851-12056	12801-32000
	60	93.80	104.65							
	64	100.15	111.00							
	68	106.50	117.35							
	72	112.85	123.70							
	76	119.20	130.05							
19.1 (3/4")	4	9.85	16.45	19.60	20.63	35.52	13.02	38.09	12851-12404	12801-32400
	8	16.20	22.80							
	12	22.55	29.15							
	16	28.90	35.50							
	20	35.25	41.85							
	24	41.60	48.20							
	28	47.95	54.55							
	32	54.30	60.90							
	36	60.65	67.25							
	40	67.00	73.60							
	44	73.35	79.95							
	48	79.70	86.30							
	52	86.05	92.65							
	56	92.40	99.00							
	60	98.75	105.35							
	64	105.10	111.70							
68	111.45	118.05								
72	117.80	124.40								
76	124.15	130.75								
25.4 (1")	8	13.80	25.00	26.00	28.57	46.75	15.63	47.61	12851-13208	12801-33200
	12	20.15	31.35							
	16	26.50	37.70							
	20	32.85	44.05							
	24	39.20	50.40							
	28	45.55	56.75							
	32	51.90	63.10							
	36	58.25	69.45							
	40	64.60	75.80							
	44	70.95	82.15							
	48	77.30	88.50							
	52	83.65	94.85							
	56	90.00	101.20							
	60	96.35	107.55							
64	102.70	113.90								
68	109.05	120.25								

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

2) Grip range with recommended POPAvdel installation tools / Plage de serrage avec les outils d'installation POPAvdel recommandés / Klemmbereich mit empfohlenen POPAvdel Verarbeitungsgeräten / Gamma grip con i raccomandati strumenti di installazione POPAvdel / Rango de espesor con las herramientas de colocación recomendadas POPAvdel



Ø nom.	e		L		ØB nom.	D nom.	S at grip e max.	ØT nom.	Part No/ref			
	ID	e min. ²⁾	e max. ²⁾	min.					max.	Pin	Collar	
25.4 (1")	72	115.40	126.60	26.00	28.57	46.75	15.63	47.61	e min. = 74.01 e max. = 62.81	12851-13272	12801-33200	
	76	121.75	132.95							112.55		12851-13276
	80	128.10	139.30							118.90		12851-13280
	84	134.45	145.65							125.25		12851-13284
	88	140.80	152.00							131.60		12851-13288
	92	147.15	158.35							137.95		12851-13292

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

2) Grip range with recommended POPAvdel installation tools / Plage de serrage avec les outils d'installation POPAvdel recommandés / Klemmbereich mit empfohlenen POPAvdel Verarbeitungsgeräten / Gamma grip con i raccomandati strumenti di installazione POPAvdel / Rango de espesores con las herramientas de colocación recomendadas POPAvdel

Ø nom.			
	kN ³⁾	kN ³⁾	kN ³⁾
4.8 (3/16")	12.2	7.4	4.7
6.4 (1/4")	18.3	13.4	8.4
8.0 (5/16")	34.9	24.2	16.0
9.6 (3/8")	46.2	35.1	22.1
12.7 (1/2")	86.2	79.6	57.7
16.0 (5/8")	145.1	126.5	91.7
19.1 (3/4")	187.2	187.3	135.8
25.4 (1")	326.7	339.6	246.2

3) Typical strength values; note that actual joint strength will depend upon joint material type, thickness, etc. and so application testing is always recommended.

Les valeurs typiques de résistance; notez que la résistance actuelle de l'assemblage dépend du type de matériau utilisé, épaisseur etc... c'est ainsi qu'il est toujours recommandé de faire des tests d'assemblage.

Typische Festigkeitswerte; bitte beachten Sie, dass die tatsächliche Festigkeit von Bauteilmaterial, Materialstärke etc. abhängt - ein Applikationstest ist immer empfohlen.

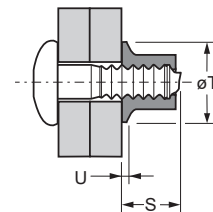
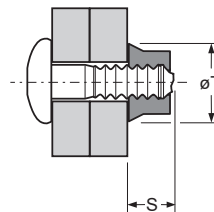
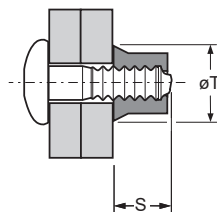
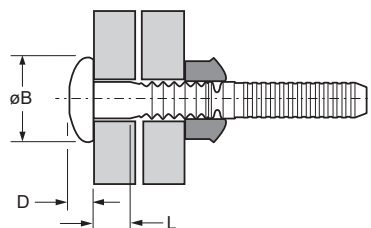
Valori di resistenza tipici, si noti che la forza congiunta effettiva dipenderà dal tipo di materiale, spessore, ecc. quindi un test delle applicazioni è sempre consigliato.

Valores de resistencia típicos, tenga en cuenta que la fuerza conjunta real dependerá del tipo de material de unión, espesor, etc., y así las pruebas de aplicaciones siempre se recomienda.



English	Français	Deutsch	Italiano	Español
Brazier head	Tête plate	Flachrundkopf	Testa tonda	Cabeza alomada
Pin: Carbon boron steel* Zinc plated Clear trivalent passivated	Tige: Acier* Revêtement zingué Passivation claire trivalente	Bolzen: Stahl* Verzinkt Klar chromatiert, Cr6-frei	Bullone: Acciaio a carbonio* Zincato, Passivazione chiara trivalente	Vástago: Acero al carbono* Zincado Pasivadoclaro trivalente
Collar: Low carbon steel** Zinc plated Clear trivalent passivated	Bague: Acier bas carbone** Revêtement zingué Passivation claire trivalente	Schließring: Stahl** Verzinkt Klar chromatiert, Cr6-frei	Collare: Acciaio a basso tenore di carbonio** Zincato, Passivazione chiara trivalente	Collar: Acero bajo en carbono** Zincado Pasivadoclaro trivalente

*: SAE10B21 EN 10263-4 23MnB4 **: SAE1008 EN 10263-2 C8C



Full Collar
Schließring Standard
Bague Standard
Collare Standard
Collar Estándar

Half Collar
Schließring flach
Bague courte
Collare ribassato
Medio Collar

Flanged Collar
Schließring mit Bund
Bague à embase
Collare flangiato
Collar con Ala

ø	w. Full Collar ¹⁾		L	øB	D	Part No/ref	Part No/ref		Part No/ref		
	min.	max.					Full Collar	Half Collar ¹⁾	Flanged Collar ²⁾		
nom.			nom.	max.	max.	Pin	S max.	øT max.	S max.	øT max.	U ²⁾ nom.
4.8 (3/16")	1.57	4.75	1.57	10.1	3.4	02621-70602	02662-70600	9.4 8.0	02682-70600	10.2 9.9 0.76	
	3.18	6.35	3.18			02621-70603					
	4.75	7.92	4.75			02621-70604					
	6.35	9.53	6.35			02621-70605					
	7.92	11.10	7.92			02621-70606					
	9.53	12.70	9.53			02621-70607					
	11.10	14.27	11.10			02621-70608					
	12.70	15.88	12.70			02621-70609					
	14.27	17.45	14.27			02621-70610					
	15.88	19.05	15.88			02621-70611					
	17.45	20.62	17.45			02621-70612					
	19.05	22.23	19.05			02621-70613					
	20.62	23.80	20.62			02621-70614					
	22.23	25.40	22.23			02621-70615					
	23.80	26.97	23.80			02621-70616					
	25.40	28.58	25.40			02621-70617					
26.97	30.15	26.97	02621-70618								
28.58	31.75	28.58	02621-70619								
30.15	33.32	30.15	02621-70620								

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

1) & 2) see page 30 / voir page 30 / siehe Seite 30 / vedi pagina 30 / ver Pág.30

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.



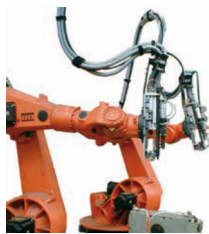
Sealing Plugs
Engineered for both low-pressure and high-pressure hole sealing applications.



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.



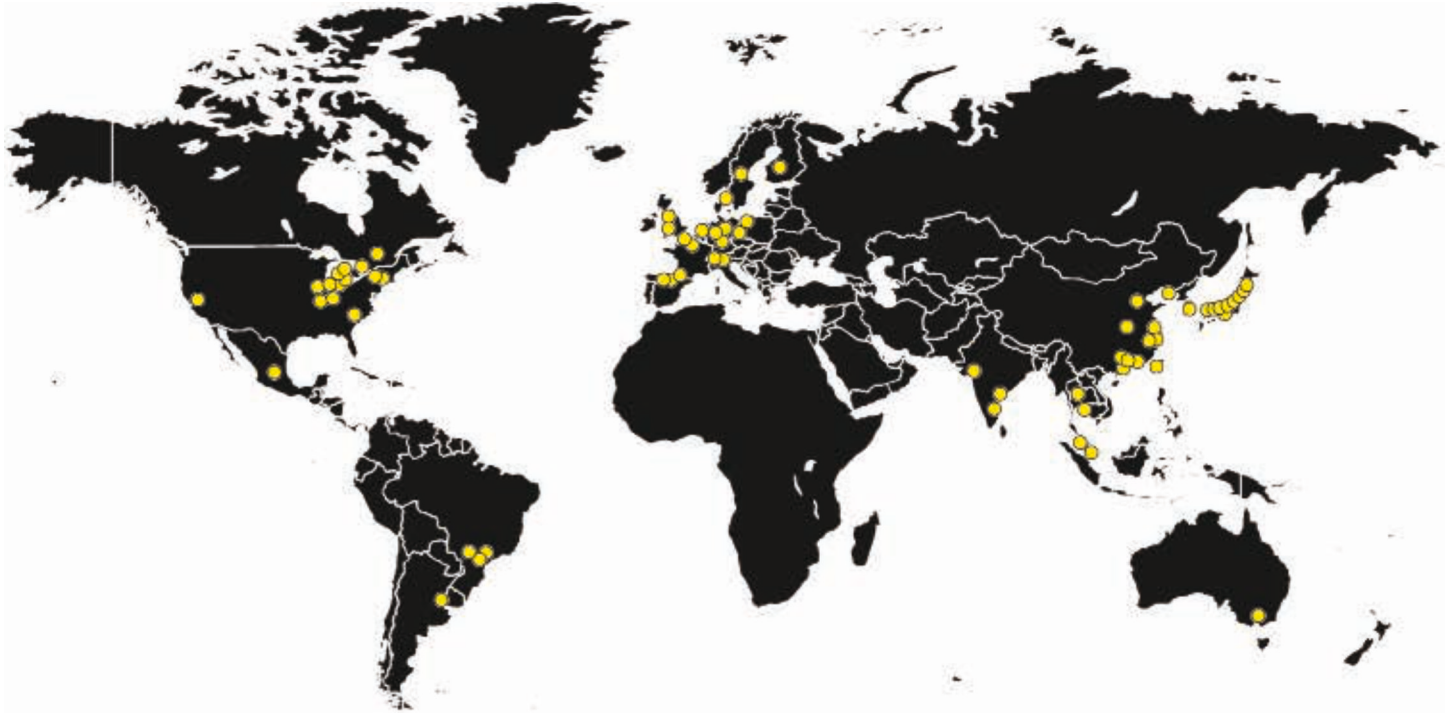
Spiralock® is a technologically superior fastening system ideally suited for threaded joint applications subjected to heavy shock and vibration.



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.

For more information, please visit our website
www.StanleyEngineeredFastening.com

Quick Links:

- ▶ **Our locations**
<http://www.stanleyengineeredfastening.com/contact/global-locations>
- ▶ **Request Information**
<http://www.stanleyengineeredfastening.com/econtact/request-information>
- ▶ **Resource Center**
<http://www.stanleyengineeredfastening.com/resource-center>



© 2014 Stanley Black & Decker, Inc., Rev. 06.2017

AV™, Avbolt®, Avdel®, Avdelok®, Avtainer®, Genesis®, Maxlok®, NeoBolt®, POP®, ProSet®, and the "AV" symbol are trademarks of Stanley Black & Decker, Inc. and its affiliates. Santoprene® is a trademark of Advanced Elastomer Systems NV/SA. Enerpac® is a trademark of Actuant Corporation. DeltaSeal® is a trademark of Ewald Dörken AG. Data shown is subject to change without prior notice as a result of continuous product development and improvement policy. Your local STANLEY Engineered Fastening representative is at your disposal should you need to confirm latest information.