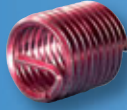


THE BLUE BOOK



Aerospace Buyer's Directory To
HELICOIL® Wire Thread Inserts

HeliCoil® *plus*
made by **BÖLLHOFF**

Issue 3/August 2012

BÖLLHOFF

We serve all stages of

Development

- Direct technical support at your premises
- Application engineering
- Prototyping
- Customer-specific solutions
- HELICOIL® training



Testing

- Mechanical testing
- Physical/chemical testing
- Accredited laboratory according to DIN EN ISO 17025



Prod

- Manufacturing controlled faste
- Mold constructi
- Certified



Böllhoff: Partner of the Aerospace Industry all over the world

your value-added chain

Production

of 100%-
ners
on



Assembly

- Assembly of fastening elements
 - Manual
 - Automatic
- Separation and feeding



Logistics

- Individual customer solutions
- Process planning
- 100% readiness for delivery



Böllhoff International with companies in:

Argentina
 Austria
 Brazil
 Canada
 China
 Czech Republic
 France
 Germany
 Hungary
 India
 Italy
 Japan
 Mexico
 Poland
 Romania
 Russia
 Slovakia
 Spain
 Turkey
 United Kingdom
 USA

Apart from these 21 countries, Böllhoff supports its international customers in other important industrial markets in close partnership with agents and dealers.



HELICOIL® Wire Thread Inserts

HELICOIL® thread inserts create high strength, wear free and heat resistant threads of the highest precision in low strength materials. Manufactured in free running and screwlock version, HELICOIL® thread inserts are available in a wide range of metric or imperial sizes and in a variety of thread forms. They are supplied in a range of materials and offer a number of surface treatments and coatings designed to prevent corrosion and galling.

HELICOIL® inserts have been manufactured by Böllhoff Group companies in Germany and the United Kingdom for over fifty years. Produced to proven designs and accredited worldwide by the most demanding of aerospace and defense industries. The Böllhoff Group provides one of the widest ranges of insert solutions and technical accreditations in the world.

HELICOIL® is the brand that is used and trusted globally.

Quality Management System Accreditations

EN9100, DIN EN ISO 9001, DIN EN ISO 14001, DIN EN ISO/IEC 17025, ISO/TS16949

HELICOIL® Wire Thread Insert Capabilities

AGS3600	EN2942	MA3281
AGS3700	EN2944	MA3329
AGS4677	EN3542	MA3330
		MA3331
AS6733	LN9039	
AS6734	LN9039A	NASM122076 to NASM122275
AS8455	LN9499	NASM124651 to NASM124850
AS8456	LN9499A	NASM21209
DIN65536	MA3279	NA0276
	MA3280	NAS1130

HELICOIL® wire thread inserts are also manufactured to comply with individual customer requirements and standards, for example Rolls Royce U series and Airbus ASN-A 0040, details of which are available on request.

The purpose of this guide is to provide the buyer, designer and customer an easy access to the numerous quality accreditations and classification series detail that are in place worldwide. It is not intended to provide detailed manufacturer part numbers as these can be found in the product and tooling catalogues detailed below.

HELICOIL® product and tooling catalogues

- HELICOIL® Plus metric thread inserts (no. 0100)
- HELICOIL® Plus imperial thread inserts (no. 0101)
- HELICOIL® Classic metric and imperial thread inserts

Available for download at www.bollhoff.com

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HELICOIL® Product Reference

	Insert Materials					Finishes					Type					Thread		Page
	STAINLESS STEEL	BRONZE	INCONEL X 750	NIMONIC	CADMIUM PLATED	DRY FILM LUBE	SILVER PLATED	SELF FINISH OR BARE	DYED	FREE RUNNING	SCREW LOCK	TANGED	TANGFREE	UNC	UNF	METRIC COARSE	METRIC FINE	
AGS3600	●				●						●	●		●	●			10
AGS3700				●			●				●	●			●			11
AGS4677	●				●						●	●				●	●	12
AS6733	●							●		●		●			●			13
AS6734	●							●		●		●		●				14
AS8455	●				●					●		●			●			15
AS8456	●				●					●		●		●				16
DIN65536		●					●	●			●	●				●	●	17
EN2942			●				●				●	●				●		19
EN2944	●							●	●		●	●				●		20
EN3542			●					●	●		●	●				●		21
LN9039	●							●	●	●		●				●	●	22
LN9039A	●				●					●		●				●	●	24
LN9499	●							●	●		●	●				●	●	25
LN9499A	●				●						●	●				●	●	27
MA3279	●							●		●		●				●	●	29
MA3280	●					●				●		●				●	●	32
MA3281	●				●					●		●				●	●	35
MA3329	●							●			●	●				●	●	38
MA3330	●					●					●	●				●	●	41
MA3331	●				●						●	●				●	●	44
NASM122076 to NASM124831	●							●		●		●		●	●			47
NASM21209	●				●	●		●	●		●	●		●	●			50
NA0276	●				●	●		●		●	●		●			●	●	53
NAS1130	●							●		●	●		●	●	●			54

Insert Material Guide

HELICOIL® aerospace wire thread inserts are available in the following materials:

Stainless Steel Grade 304

Material specifications: AS7245, DTD734, 1.4301
 Temperature resistance: 600°F / 315°C long term (800°F / 425°C short term)

Standard, general purpose material
 Stocked in most sizes
 Ideal for original equipment applications, repair and overhaul

Bronze

Material specification: 2.1020.34 according DIN17677
 Temperature resistance: 480°F / 250°C long term (570°F / 300°C short term)

Non magnetic
 For electrical bonding joints and low permeability

Inconel X 750 (Heat Resisting Nickel Alloy)

Material specifications: AS7246, EN3018, 2.4669
 Temperature resistance: 1020°F / 550°C long term (1380°F / 750°C short term)

For use in high temperature applications

Nimonic 90 (Austenitic High Temperature Alloy)

Material specifications: HR 503, 2.4632
 Temperature resistance: 1100°F / 600°C long term (1650°F / 900°C short term)

For use in high temperature applications

Insert Coatings and Platings

HELICOIL® aerospace wire thread inserts are available in the following finishes:

Silver Plating

Recommended to reduce galling of threads at high temperatures
For use up to 1200°F / 650°C
Material Specifications: QQ-S-365 / SAE AMS 2411 / EN2786 / DTD939
Colour: Silver White

Cadmium Plating

Provides high corrosion resistance
Provides lubrication to prevent galling
(Not recommended for new designs due to its toxic nature)
Material Specifications: QQ-P-416 Type II / DEF STD 03-19
Colour: Yellow

Dry Film Lubricant

Provides additional lubrication in high friction applications
High temperature resistance up to 400°F / 240°C
Highly recommended with HELICOIL® screwlock inserts
Mildly corrosion resistant
Material Specifications: MIL-L46010 / AS5272
Colour: Grey

Colour Coding

Facilitates verification of insert installation
Allows for quick identification of similar size inserts
Colours: red, green, blue and yellow

In general all HELICOIL® screwlock inserts (imperial and metric dimensions) are supplied with a red colouring in accordance with NASM21209.
Colourings of the HELICOIL® thread inserts for identification purpose according to customer specific requirements are also available.

HELICOIL® thread inserts for aerospace are available in the following surface finishes and platings depending on the HELICOIL® base material.

Material	Non-finished	Dry Film Lubricant	Cadmium Plating	Silver Plating
Stainless Steel Grade 304	●	●	●	●
Bronze	●	—	—	●
Inconel X 750	●	—	—	●
Nimonic 90	●	—	—	●

Other finishes are available on request.

HELICOIL® Tools

Tapping tools



Manual tapping tools



Drill and tapping tools



Machine tapping tools



Machine tap former

Gauges



"Internal thread gauges" for checking the tapped hole

Disassembly tool



for the disassembly of HELICOIL® thread inserts

Manual installation tools



Type H-PSG
(threaded mandrel, pitch guiding, with depth gauge)



Type H-PMG
(flat mandrel, pitch guiding, with depth gauge)



Type H-PM
(flat mandrel, without pitch guiding, with depth gauge)



Type H-M
(fly-over tool with depth gauge)

Electric mandrel installation tools



Type B-S 206
up to M 6 / UNC 1/4"-20 / UNF 1/4"-28
(without picture:
Type B-S 824 for larger dimensions)



Type E-S 206
up to M 6 / UNC 12-24 / UNF 10-32
(without picture:
Type E-S 410 for larger dimensions)

Electric pre-winder installation tool



Type E-PSG
up to M 6 / UNC 12-24 / UNF 10-32

HELICOIL® product and tooling catalogues

- Catalogue for metric thread inserts for metal (no. 0100)
- Catalogue for imperial thread inserts for metal (no. 0101)
- Catalogue for repair kits and repair range kits (no. 0180)

HELICOIL® Tools

Pneumatic mandrel installation tools



Type P-S 412
up to M 12 / UNC 1/2"-3 / UNF 1/2"-20



Type P-S 1216
for larger dimensions

Pneumatic pre-winder installation tool



Type P-PSG
up to M 26 / UNC 1/2"-13 / UNF 1/2"-20

HELICOIL® tangfree



Complete installation tool
M 3 up to M 12



Complete installation tool with pre-stressing cartridge
M 3 up to M 10

Stripfeed system



Parallel system type S for installation of stripfeed inserts

Repair kits



HELICOIL® repair kits are available per dimension up to
M 36 / UNC 1 1/2"-6 / UNF 1"-12 / BSW 1 1/2"-6 / BSF 1"-10 / G 1"-11.

Various standard and special range kits are also part of our portfolio,
also assembled on customer demands.

AGS3600 series

HeliCoil® Wire Thread Insert

Insert Material:	Corrosion Resistant Steel (Stainless Steel 304) AMS7245, DTD734
Finish:	Cadmium Plating
Type:	Screwlock
Thread form:	UNC and UNF

Produced to AIDIS (SBAC) technical committee standards, this series of inserts is specified in aerospace applications with a UNC or UNF thread format and is available in the 5 nominal lengths. The screw locking coil acts as locking mechanism for the male fastener. The cadmium plated finish provides lubrication and minimises galling.

Part Number

AGS3605

AGS3606

AGS3607

AGS3608

AGS3609

AGS3610

AGS3611

AGS3612

AGS3613

AGS3614

AGS3615

AGS3616

AGS3617

AGS3618

AGS3619

AGS3620

AGS3621

AGS3622

AGS3623

AGS3629

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AGS3631

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AGS3634

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AGS3636

AGS3654

AGS3655

AGS3656

AGS3657

AGS3658

AGS3659

AGS3660

AGS3661

AGS3679

AGS3680

AGS3681

AGS3682

AGS3683

AGS3684

AGS3685

AGS3686

AGS3700 series

HeliCoil® Wire Thread Insert

Insert Material:	Nimonic 90, BS HR503
Finish:	Silver Plating
Type:	Screwlock
Thread form:	UNF

Produced to AIDIS (SBAC) technical committee standards, this series of UNF thread form inserts is available in most lengths. Specified predominantly in engine applications where heat and vibration is inherent, the screw locking coil acts as locking mechanism for the male fastener. The silver finish reduces galling of threads at high temperatures.

Part Number

AGS3706	AGS3735		
AGS3707	AGS3736		
AGS3708	AGS3756		
AGS3709	AGS3757		
AGS3710	AGS3758		
AGS3711	AGS3759		
AGS3712	AGS3760		
AGS3713	AGS3761		
AGS3718	AGS3781		
AGS3719	AGS3782		
AGS3720	AGS3783		
AGS3721	AGS3784		
AGS3722	AGS3785		
AGS3723	AGS3786		
AGS3731			
AGS3732			
AGS3733			
AGS3734			

AGS4677 series

HeliCoil® Wire Thread Insert

Insert Material:	Corrosion Resistant Steel (Stainless Steel 304), AMS7245, DTD734
Finish:	Cadmium Plating
Type:	Screwlock
Thread form:	Metric Course and Metric Fine

Produced to AIDIS (SBAC) technical committee standards, this series of inserts is specified in aerospace applications with metric thread format and is available in the 5 nominal lengths. The screw locking coil acts as locking mechanism for the male fastener. The cadmium plated finish provides lubrication and minimises galling.

Part Number

AGS4677M04060
AGS4677M04080
AGS4677M04100
AGS4677M04120
AGS4677M05075
AGS4677M05100
AGS4677M05125
AGS4677M05150
AGS4677M06090
AGS4677M06120
AGS4677M06150
AGS4677M06180
AGS4677M07105
AGS4677M07140
AGS4677M07175
AGS4677M07210
AGS4677M08080
AGS4677M08120

AGS4677M08160
AGS4677M08200
AGS4677M08240
AGS4677M10100
AGS4677M10150
AGS4677M10200
AGS4677M10250
AGS4677M10300
AGS4677M12120
AGS4677M12180
AGS4677M12240
AGS4677M12300
AGS4677M12360
AGS4677M14140
AGS4677M14210
AGS4677M14280
AGS4677M14350
AGS4677M14420

AGS4677M16160
AGS4677M16240
AGS4677M16320
AGS4677M16400
AGS4677M16480
AGS4677M18180
AGS4677M18270
AGS4677M18360
AGS4677M18450
AGS4677M18540
AGS4677M20200
AGS4677M20300
AGS4677M20400
AGS4677M20500
AGS4677M20600

AS6733 series

HeliCoil® Wire Thread Insert

Insert Material:	Corrosion Resistant Steel (Stainless Steel 304), AMS7245, DTD734
Finish:	Self Finish (unplated)
Type:	Free running
Thread form:	UNF

Produced to AIDIS (SBAC) technical committee standards, this series of inserts is specified in aerospace applications with UNF thread format and is available in the 5 nominal lengths.

Part Number

AS6733-1	AS6733-23	AS6733-49	AS6733-71
AS6733-2	AS6733-24	AS6733-50	
AS6733-3	AS6733-25	AS6733-51	
AS6733-4	AS6733-26	AS6733-52	
AS6733-5	AS6733-31	AS6733-53	
AS6733-6	AS6733-32	AS6733-54	
AS6733-7	AS6733-33	AS6733-55	
AS6733-8	AS6733-34	AS6733-56	
AS6733-9	AS6733-35	AS6733-61	
AS6733-10	AS6733-36	AS6733-62	
AS6733-11	AS6733-37	AS6733-63	
AS6733-16	AS6733-38	AS6733-64	
AS6733-17	AS6733-39	AS6733-65	
AS6733-18	AS6733-40	AS6733-66	
AS6733-19	AS6733-41	AS6733-67	
AS6733-20	AS6733-46	AS6733-68	
AS6733-21	AS6733-47	AS6733-69	
AS6733-22	AS6733-48	AS6733-70	

AS6734 series

HeliCoil® Wire Thread Insert

Insert Material:	Corrosion Resistant Steel (Stainless Steel 304), AMS725, DTD734
Finish:	Self Finish (unplated)
Type:	Free running
Thread form:	UNC

Produced to AIDIS (SBAC) technical committee standards, this series of inserts is specified in aerospace applications with UNC thread format and is available in the 5 nominal lengths.

Part Number

AS6734-1
AS6734-2
AS6734-3
AS6734-4
AS6734-5
AS6734-6
AS6734-7
AS6734-8
AS6734-9
AS6734-10
AS6734-11
AS6734-12
AS6734-13
AS6734-14
AS6734-15
AS6734-16
AS6734-17
AS6734-18

AS6734-19
AS6734-20
AS6734-21
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AS6734-58
AS6734-59
AS6734-60
AS6734-71
AS6734-72
AS6734-73
AS6734-74
AS6734-75
AS6734-76
AS6734-77
AS6734-78
AS6734-79
AS6734-80

AS8455 series

HeliCoil® Wire Thread Insert

Insert Material:	Corrosion Resistant Steel (Stainless Steel 304), AMS725, DTD734
Finish:	Cadmium Plating
Type:	Free running
Thread form:	UNF

Produced to AIDIS (SBAC) technical committee standards, this series of inserts is specified in aerospace applications with UNF thread format and is available in the 5 nominal lengths. The Cadmium Plated finish provides lubrication and minimises galling.

Part Number

AS8455-1	AS8455-23	AS8455-49	AS8455-71
AS8455-2	AS8455-24	AS8455-50	
AS8455-3	AS8455-25	AS8455-51	
AS8455-4	AS8455-26	AS8455-52	
AS8455-5	AS8455-31	AS8455-53	
AS8455-6	AS8455-32	AS8455-54	
AS8455-7	AS8455-33	AS8455-55	
AS8455-8	AS8455-34	AS8455-56	
AS8455-9	AS8455-35	AS8455-61	
AS8455-10	AS8455-36	AS8455-62	
AS8455-11	AS8455-37	AS8455-63	
AS8455-16	AS8455-38	AS8455-64	
AS8455-17	AS8455-39	AS8455-65	
AS8455-18	AS8455-40	AS8455-66	
AS8455-19	AS8455-41	AS8455-67	
AS8455-20	AS8455-46	AS8455-68	
AS8455-21	AS8455-47	AS8455-69	
AS8455-22	AS8455-48	AS8455-70	

AS8456 series

HeliCoil® Wire Thread Insert

Insert Material:	Corrosion Resistant Steel (Stainless Steel 304), AMS725, DTD734
Finish:	Cadmium Plating
Type:	Free running
Thread form:	UNC

Produced to AIDIS (SBAC) technical committee standards, this series of inserts is specified in aerospace applications with UNC thread format and is available in the 5 nominal lengths. The Cadmium Plated finish provides lubrication and minimises galling.

Part Number

AS8456-1
AS8456-2
AS8456-3
AS8456-4
AS8456-5
AS8456-6
AS8456-7
AS8456-8
AS8456-9
AS8456-10
AS8456-11
AS8456-12
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AS8456-60
AS8456-71
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AS8456-73
AS8456-74
AS8456-75
AS8456-76
AS8456-77
AS8456-78
AS8456-79
AS8456-80

DIN65536 series

HeliCoil® Wire Thread Insert

Insert Material:	Bronze, 2.1020.34
Finish:	Bare
Type:	Screwlock
Thread form:	Metric Coarse and Metric Fine

Produced to European standards, this series of inserts is specified in aerospace applications with metric thread format and is available in 3 nominal length. Bronze thread inserts are non magnetic and have a low permeability. They are used for electrical bonding joints.

Part Number

DIN65536-01 025 A	DIN65536-07 080 A		
DIN65536-01 037 A	DIN65536-07 120 A		
DIN65536-01 050 A	DIN65536-07 160 A		
DIN65536-02 030 A	DIN65536-08 100 A		
DIN65536-02 045 A	DIN65536-08 150 A		
DIN65536-02 060 A	DIN65536-08 200 A		
DIN65536-03 040 A	DIN65536-09 100 A		
DIN65536-03 060 A	DIN65536-09 150 A		
DIN65536-03 080 A	DIN65536-09 200 A		
DIN65536-04 050 A	DIN65536-10 120 A		
DIN65536-04 075 A	DIN65536-10 180 A		
DIN65536-04 100 A	DIN65536-10 240 A		
DIN65536-05 060 A	DIN65536-11 120 A		
DIN65536-05 090 A	DIN65536-11 180 A		
DIN65536-05 120 A	DIN65536-11 240 A		
DIN65536-06 080 A			
DIN65536-06 120 A			
DIN65536-06 160 A			

DIN65536 series (cont'd)

HeliCoil® Wire Thread Insert

Insert Material:	Bronze, 2.1020.34
Finish:	Silverplated
Type:	Screwlock
Thread form:	Metric Coarse and Metric Fine

Produced to European standards, this series of inserts is specified in aerospace applications with metric thread format and is available in 3 nominal lengths. Bronze thread inserts are non magnetic and have a low permeability. They are used for electrical bonding joints. The silver finish reduces galling of threads at high temperatures.

Part Number

DIN65536-01 025 U
 DIN65536-01 037 U
 DIN65536-01 050 U
 DIN65536-02 030 U
 DIN65536-02 045 U
 DIN65536-02 060 U
 DIN65536-03 040 U
 DIN65536-03 060 U
 DIN65536-03 080 U
 DIN65536-04 050 U
 DIN65536-04 075 U
 DIN65536-04 100 U
 DIN65536-05 060 U
 DIN65536-05 090 U
 DIN65536-05 120 U
 DIN65536-06 080 U
 DIN65536-06 120 U
 DIN65536-06 160 U

DIN65536-07 080 U
 DIN65536-07 120 U
 DIN65536-07 160 U
 DIN65536-08 100 U
 DIN65536-08 150 U
 DIN65536-08 200 U
 DIN65536-09 100 U
 DIN65536-09 150 U
 DIN65536-09 200 U
 DIN65536-10 120 U
 DIN65536-10 180 U
 DIN65536-10 240 U
 DIN65536-11 120 U
 DIN65536-11 180 U
 DIN65536-11 240 U

EN2942 series

HeliCoil® Wire Thread Insert

Insert Material:	Inconel X750, EN3018
Finish:	Silver Plating
Type:	Screwlock
Thread form:	Metric Coarse and Metric Fine

Produced to European standards, this series of inserts is specified in aerospace applications with metric thread format and is available in 2 nominal lengthth. Specified predominantly in engine applications where heat and vibration is inherent, the screw locking coil acts as locking mechanism for the male fastener. The silver finish reduces galling of threads at high temperatures.

Part Number

EN2942-040-050			
EN2942-040-060			
EN2942-050-063			
EN2942-050-075			
EN2942-060-075			
EN2942-060-090			
EN2942-070-088			
EN2942-070-105			
EN2942-080-100			
EN2942-080-120			
EN2942-100-125			
EN2942-100-150			

EN2944 series

HeliCoil® Wire Thread Insert

Insert Material: **Corrosion Resistant Steel, EN2947**

Finish: **Bare, blue coloured**

Type: **Screwlock**

Thread form: **Metric Coarse and Metric Fine**

Produced to European standards, this series of inserts is specified in aerospace applications with metric thread format and is available in 3 nominal length.
The screw locking coil acts as locking mechanism for the male fastener.

Part Number

EN2944-040-060

EN2944-040-080

EN2944-040-100

EN2944-050-075

EN2944-050-100

EN2944-050-125

EN2944-060-090

EN2944-060-120

EN2944-060-150

EN2944-070-105

EN2944-070-140

EN2944-070-175

EN2944-080-120

EN2944-080-160

EN2944-080-200

EN2944-100-150

EN2944-100-200

EN2944-100-250

EN3542 series

HeliCoil® Wire Thread Insert

Insert Material:	Inconel X750, EN3018
Finish:	Bare, yellow coloured
Type:	Screwlock
Thread form:	Metric Coarse and Metric Fine

Produced to European standards, this series of inserts is specified in aerospace applications with metric thread format and is available in 2 nominal lengthth. Specified predominantly in engine applications where heat and vibration is inherent, the screw locking coil acts as locking mechanism for the male fastener. The silver finish reduces galling of threads at high temperatures.

Part Number

EN3542-040-050
EN3542-040-060
EN3542-050-063
EN3542-050-075
EN3542-060-075
EN3542-060-090
EN3542-070-088
EN3542-070-105
EN3542-080-100
EN3542-080-120
EN3542-100-125
EN3542-100-150

LN9039 series

HeliCoil® Wire Thread Insert

Insert Material:	Corrosion Resistant Steel (Stainless Steel 304), AS7245, 1.4301
Finish:	Self Finish (unplated)
Type:	Free running
Thread form:	Metric Coarse and Fine

Produced to European standards, this series of inserts is specified in aerospace applications with metric thread format and is available in the 5 nominal lengths.

Part Number

LN903900025
LN903900037
LN903900050
LN903901030
LN903901045
LN903901060
LN903902040
LN903902060
LN903902080
LN903903050
LN903903075
LN903903100
LN903903125
LN903903150
LN903904060
LN903904090
LN903904120
LN903904150

LN903904180
LN903905070
LN903905105
LN903905140
LN903906080
LN903906120
LN903906160
LN903907080
LN903907120
LN903907160
LN903907200
LN903907240
LN903908100
LN903908150
LN903908200
LN903909100
LN903909150
LN903909200

LN903910100
LN903910150
LN903910200
LN903910250
LN903910300
LN903911120
LN903911180
LN903911240
LN903912120
LN903912180
LN903912240
LN903912300
LN903912360
LN903913120
LN903913180
LN903913240
LN903914140
LN903914210

LN903914280
LN903914350
LN903914420
LN903915140
LN903915210
LN903915280
LN903916160
LN903916240
LN903916320
LN903916400

LN9039 series (cont'd)

HeliCoil® Wire Thread Insert

Insert Material:	Corrosion Resistant Steel (Stainless Steel 304), A57245, 1.4301
Finish:	Self Finish (unplated)
Type:	Free running
Thread form:	Metric Coarse and Fine

Part Number

LN903916480
LN903917160
LN903917240
LN903917320
LN903918180
LN903918270
LN903918360
LN903918450
LN903918540
LN903919180
LN903919270
LN903919360
LN903920180
LN903920270
LN903920360
LN903920450
LN903920540
LN903921200

LN903921300
LN903921400
LN903922200
LN903922300
LN903922400
LN903923200
LN903923300
LN903923400

LN9039A series

HeliCoil® Wire Thread Insert

Insert Material:	Corrosion Resistant Steel (Stainless Steel 304), AS7245, 1.4301
Finish:	Cadmium Plating
Type:	Free running
Thread form:	Metric Coarse and Fine

Produced to European standards, this series of inserts is specified in aerospace applications with metric thread format and is available in the 5 nominal lengths. The cadmium plated finish provides lubrication and minimises galling.

Part Number

LN9039A00025
LN9039A00037
LN9039A00050
LN9039A01030
LN9039A01045
LN9039A01060
LN9039A02040
LN9039A02060
LN9039A02080
LN9039A03050
LN9039A03075
LN9039A03100
LN9039A03125
LN9039A03150
LN9039A04060
LN9039A04090
LN9039A04120
LN9039A04150
LN9039A04180
LN9039A05070
LN9039A05105
LN9039A05140
LN9039A06080

LN9039A06120
LN9039A06160
LN9039A07080
LN9039A07120
LN9039A07160
LN9039A07200
LN9039A07240
LN9039A08100
LN9039A08150
LN9039A08200
LN9039A09100
LN9039A09150
LN9039A09200
LN9039A10100
LN9039A10150
LN9039A10200
LN9039A10250
LN9039A10300
LN9039A11120
LN9039A11180
LN9039A11240
LN9039A12120
LN9039A12180

LN9039A12240
LN9039A12300
LN9039A12360
LN9039A13120
LN9039A13180
LN9039A13240
LN9039A14140
LN9039A14210
LN9039A14280
LN9039A14350
LN9039A14420
LN9039A15140
LN9039A15210
LN9039A15280
LN9039A16160
LN9039A16240
LN9039A16320
LN9039A16400
LN9039A16480
LN9039A17160
LN9039A17240
LN9039A17320
LN9039A18180

LN9039A18270
LN9039A18360
LN9039A18450
LN9039A18540
LN9039A19180
LN9039A19270
LN9039A19360
LN9039A20180
LN9039A20270
LN9039A20360
LN9039A20450
LN9039A20540
LN9039A21200
LN9039A21300
LN9039A21400
LN9039A22200
LN9039A22300
LN9039A22400
LN9039A23200
LN9039A23300
LN9039A23400

LN9499 series

HeliCoil® Wire Thread Insert

Insert Material:	Corrosion Resistant Steel (Stainless Steel 304), AS7245, 1.4301
Finish:	Self Finish (unplated)
Type:	Screwlock
Thread form:	Metric Coarse and Fine

Produced to European standards, this series of inserts is specified in aerospace applications with metric thread format and is available in the 5 nominal lengths. The screw locking coil acts as a locking mechanism for the male fastener.

Part Number

LN949900025	LN949904180	LN949910100	
LN949900037	LN949905070	LN949910150	
LN949900050	LN949905105	LN949910200	
LN949901030	LN949905140	LN949910250	
LN949901045	LN949906080	LN949910300	
LN949901060	LN949906120	LN949911120	
LN949902040	LN949906160	LN949911180	
LN949902060	LN949907080	LN949911240	
LN949902080	LN949907120	LN949912120	
LN949903050	LN949907160	LN949912180	
LN949903075	LN949907200	LN949912240	
LN949903100	LN949907240	LN949912300	
LN949903125	LN949908100		
LN949903150	LN949908150		
LN949904060	LN949908200		
LN949904090	LN949909100		
LN949904120	LN949909150		
LN949904150	LN949909200		

LN9499 series (cont'd)

HeliCoil® Wire Thread Insert

Insert Material:	Corrosion Resistant Steel (Stainless Steel 304), AS7245, 1.4301
Finish:	Self Finish (unplated)
Type:	Screwlock
Thread form:	Metric Coarse and Fine

Part Number

LN949912360
LN949913120
LN949913180
LN949913240
LN949914140
LN949914210
LN949914280
LN949914350
LN949914420
LN949915140
LN949915210
LN949915280
LN949916160
LN949916240
LN949916320
LN949916400
LN949916480
LN949917160

LN949917240
LN949917320
LN949918180
LN949918270
LN949918360
LN949918450
LN949918540
LN949919180
LN949919270
LN949919360
LN949920180
LN949920270
LN949920360
LN949920450
LN949920540
LN949921200
LN949921300
LN949921400

LN949922200
LN949922300
LN949922400
LN949923200
LN949923300
LN949923400

LN9499A series

HeliCoil® Wire Thread Insert

Insert Material:	Corrosion Resistant Steel (Stainless Steel 304), AS7245, 1.4301
Finish:	Cadmium Plating
Type:	Screwlock
Thread form:	Metric Coarse and Fine

Produced to European standards, this series of inserts is specified in aerospace applications with metric thread format and is available in the 5 nominal lengths. The screw locking coil acts as a locking mechanism for the male fastener. The cadmium plated finish provides lubrication and minimises galling.

Part Number

LN9499A00025	LN9499A04180	LN9499A10100	
LN9499A00037	LN9499A05070	LN9499A10150	
LN9499A00050	LN9499A05105	LN9499A10200	
LN9499A01030	LN9499A05140	LN9499A10250	
LN9499A01045	LN9499A06080	LN9499A10300	
LN9499A01060	LN9499A06120	LN9499A11120	
LN9499A02040	LN9499A06160	LN9499A11180	
LN9499A02060	LN9499A07080	LN9499A11240	
LN9499A02080	LN9499A07120	LN9499A12120	
LN9499A03050	LN9499A07160	LN9499A12180	
LN9499A03075	LN9499A07200	LN9499A12240	
LN9499A03100	LN9499A07240	LN9499A12300	
LN9499A03125	LN9499A08100		
LN9499A03150	LN9499A08150		
LN9499A04060	LN9499A08200		
LN9499A04090	LN9499A09100		
LN9499A04120	LN9499A09150		
LN9499A04150	LN9499A09200		

LN9499A series (cont'd)

HeliCoil® Wire Thread Insert

Insert Material:	Corrosion Resistant Steel (Stainless Steel 304), A57245, 1.4301
Finish:	Cadmium Plating
Type:	Screwlock
Thread form:	Metric Coarse and Fine

Part Number

LN9499A12360
LN9499A13120
LN9499A13180
LN9499A13240
LN9499A14140
LN9499A14210
LN9499A14280
LN9499A14350
LN9499A14420
LN9499A15140
LN9499A15210
LN9499A15280
LN9499A16160
LN9499A16240
LN9499A16320
LN9499A16400
LN9499A16480
LN9499A17160

LN9499A17240
LN9499A17320
LN9499A18180
LN9499A18270
LN9499A18360
LN9499A18450
LN9499A18540
LN9499A19180
LN9499A19270
LN9499A19360
LN9499A20180
LN9499A20270
LN9499A20360
LN9499A20450
LN9499A20540
LN9499A21200
LN9499A21300
LN9499A21400

LN9499A22200
LN9499A22300
LN9499A22400
LN9499A23200
LN9499A23300
LN9499A23400

MA3279 series

HeliCoil® Wire Thread Insert

Insert Material:	Corrosion Resistant Steel (Stainless Steel 304), AS7245, DTD734
Finish:	Self Finish (unplated)
Type:	Free running
Thread form:	Metric Coarse and Fine

Approved by Military Services, this series of HELICOIL® free running inserts is specified in aerospace applications with Metric thread format and are available in the 5 nominal lengths.

Part Number

MA3279-100
MA3279-101
MA3279-102
MA3279-103
MA3279-104
MA3279-105
MA3279-106
MA3279-107
MA3279-108
MA3279-109
MA3279-110
MA3279-111
MA3279-112
MA3279-113
MA3279-114
MA3279-115
MA3279-116
MA3279-117

MA3279-118
MA3279-119
MA3279-120
MA3279-121
MA3279-122
MA3279-123
MA3279-124
MA3279-125
MA3279-126
MA3279-127
MA3279-128
MA3279-129
MA3279-130
MA3279-131
MA3279-132
MA3279-133
MA3279-134
MA3279-135

MA3279-136
MA3279-137
MA3279-138
MA3279-139
MA3279-140
MA3279-141
MA3279-150
MA3279-151
MA3279-152
MA3279-153
MA3279-154
MA3279-155
MA3279-156
MA3279-157
MA3279-158
MA3279-159
MA3279-160
MA3279-161

MA3279-162
MA3279-163
MA3279-164
MA3279-165
MA3279-166
MA3279-167
MA3279-168
MA3279-169
MA3279-170
MA3279-171
MA3279-172
MA3279-173
MA3279-174
MA3279-175
MA3279-176
MA3279-177
MA3279-178
MA3279-179

MA3279 series (cont'd)

HeliCoil® Wire Thread Insert

Insert Material:	Corrosion Resistant Steel (Stainless Steel 304), AS7245, DTD734
Finish:	Self Finish (unplated)
Type:	Free running
Thread form:	Metric Coarse and Fine

Part Number

MA3279-180
MA3279-181
MA3279-182
MA3279-183
MA3279-184
MA3279-185
MA3279-186
MA3279-187
MA3279-188
MA3279-189
MA3279-190
MA3279-191
MA3279-200
MA3279-201
MA3279-202
MA3279-203
MA3279-204
MA3279-205

MA3279-206
MA3279-207
MA3279-208
MA3279-209
MA3279-210
MA3279-211
MA3279-212
MA3279-213
MA3279-214
MA3279-215
MA3279-216
MA3279-217
MA3279-218
MA3279-219
MA3279-220
MA3279-221
MA3279-222
MA3279-223

MA3279-224
MA3279-225
MA3279-226
MA3279-227
MA3279-228
MA3279-229
MA3279-230
MA3279-231
MA3279-232
MA3279-233
MA3279-234
MA3279-235
MA3279-236
MA3279-237
MA3279-238
MA3279-239
MA3279-240
MA3279-241

MA3279-250
MA3279-251
MA3279-252
MA3279-253
MA3279-254
MA3279-255
MA3279-256
MA3279-257
MA3279-258
MA3279-259
MA3279-260
MA3279-261
MA3279-262
MA3279-263
MA3279-264
MA3279-265
MA3279-266
MA3279-267

MA3279 series (cont'd)

HeliCoil® Wire Thread Insert

Insert Material:	Corrosion Resistant Steel (Stainless Steel 304), AS7245, DTD734
Finish:	Self Finish (unplated)
Type:	Free running
Thread form:	Metric Coarse and Fine

Part Number

MA3279-268
MA3279-269
MA3279-270
MA3279-271
MA3279-272
MA3279-273
MA3279-274
MA3279-275
MA3279-276
MA3279-277
MA3279-278
MA3279-279
MA3279-280
MA3279-281
MA3279-282
MA3279-283
MA3279-284
MA3279-285

MA3279-286
MA3279-287
MA3279-288
MA3279-289
MA3279-290
MA3279-291
MA3279-300
MA3279-301
MA3279-302
MA3279-303
MA3279-304
MA3279-305
MA3279-306
MA3279-307
MA3279-308
MA3279-309
MA3279-310
MA3279-311

MA3279-312
MA3279-313
MA3279-314
MA3279-315
MA3279-316
MA3279-317
MA3279-318
MA3279-319
MA3279-320
MA3279-321
MA3279-322
MA3279-323
MA3279-324
MA3279-325
MA3279-326
MA3279-327
MA3279-328
MA3279-329

MA3279-330
MA3279-331
MA3279-332
MA3279-333
MA3279-334
MA3279-335
MA3279-336
MA3279-337
MA3279-338
MA3279-339
MA3279-340
MA3279-341

MA3280 series

Helicoil® Wire Thread Insert

Insert Material:	Corrosion Resistant Steel (Stainless Steel 304), AS7245, DTD734
Finish:	Dry Film Lubricant
Type:	Free running
Thread form:	Metric Coarse and Fine

Approved by Military Services, this series of HELICOIL® free running inserts is specified in aerospace applications with Metric thread format and are available in the 5 nominal lengths. Supplied with Dry Film Lubricant finish to provide additional lubrication in high friction applications.

Part Number

MA3280-100
MA3280-101
MA3280-102
MA3280-103
MA3280-104
MA3280-105
MA3280-106
MA3280-107
MA3280-108
MA3280-109
MA3280-110
MA3280-111
MA3280-112
MA3280-113
MA3280-114
MA3280-115
MA3280-116
MA3280-117

MA3280-118
MA3280-119
MA3280-120
MA3280-121
MA3280-122
MA3280-123
MA3280-124
MA3280-125
MA3280-126
MA3280-127
MA3280-128
MA3280-129
MA3280-130
MA3280-131
MA3280-132
MA3280-133
MA3280-134
MA3280-135

MA3280-136
MA3280-137
MA3280-138
MA3280-139
MA3280-140
MA3280-141
MA3280-150
MA3280-151
MA3280-152
MA3280-153
MA3280-154
MA3280-155
MA3280-156
MA3280-157
MA3280-158
MA3280-159
MA3280-160
MA3280-161

MA3280-162
MA3280-163
MA3280-164
MA3280-165
MA3280-166
MA3280-167
MA3280-168
MA3280-169
MA3280-170
MA3280-171
MA3280-172
MA3280-173
MA3280-174
MA3280-175
MA3280-176
MA3280-177
MA3280-178
MA3280-179

MA3280 series (cont'd)

HeliCoil® Wire Thread Insert

Insert Material:	Corrosion Resistant Steel (Stainless Steel 304), AS7245, DTD734
Finish:	Dry Film Lubricant
Type:	Free running
Thread form:	Metric Coarse and Fine

Part Number

MA3280-180
MA3280-181
MA3280-182
MA3280-183
MA3280-184
MA3280-185
MA3280-186
MA3280-187
MA3280-188
MA3280-189
MA3280-190
MA3280-191
MA3280-200
MA3280-201
MA3280-202
MA3280-203
MA3280-204
MA3280-205

MA3280-206
MA3280-207
MA3280-208
MA3280-209
MA3280-210
MA3280-211
MA3280-212
MA3280-213
MA3280-214
MA3280-215
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MA3280-217
MA3280-218
MA3280-219
MA3280-220
MA3280-221
MA3280-222
MA3280-223

MA3280-224
MA3280-225
MA3280-226
MA3280-227
MA3280-228
MA3280-229
MA3280-230
MA3280-231
MA3280-232
MA3280-233
MA3280-234
MA3280-235
MA3280-236
MA3280-237
MA3280-238
MA3280-239
MA3280-240
MA3280-241

MA3280-250
MA3280-251
MA3280-252
MA3280-253
MA3280-254
MA3280-255
MA3280-256
MA3280-257
MA3280-258
MA3280-259
MA3280-260
MA3280-261
MA3280-262
MA3280-263
MA3280-264
MA3280-265
MA3280-266
MA3280-267

MA3280 series (cont'd)

HeliCoil® Wire Thread Insert

Insert Material:	Corrosion Resistant Steel (Stainless Steel 304), AS7245, DTD734
Finish:	Dry Film Lubricant
Type:	Free running
Thread form:	Metric Coarse and Fine

Part Number

MA3280-268
 MA3280-269
 MA3280-270
 MA3280-271
 MA3280-272
 MA3280-273
 MA3280-274
 MA3280-275
 MA3280-276
 MA3280-277
 MA3280-278
 MA3280-279
 MA3280-280
 MA3280-281
 MA3280-282
 MA3280-283
 MA3280-284
 MA3280-285

MA3280-286
 MA3280-287
 MA3280-288
 MA3280-289
 MA3280-290
 MA3280-291
 MA3280-300
 MA3280-301
 MA3280-302
 MA3280-303
 MA3280-304
 MA3280-305
 MA3280-306
 MA3280-307
 MA3280-308
 MA3280-309
 MA3280-310
 MA3280-311

MA3280-312
 MA3280-313
 MA3280-314
 MA3280-315
 MA3280-316
 MA3280-317
 MA3280-318
 MA3280-319
 MA3280-320
 MA3280-321
 MA3280-322
 MA3280-323
 MA3280-324
 MA3280-325
 MA3280-326
 MA3280-327
 MA3280-328
 MA3280-329

MA3280-330
 MA3280-331
 MA3280-332
 MA3280-333
 MA3280-334
 MA3280-335
 MA3280-336
 MA3280-337
 MA3280-338
 MA3280-339
 MA3280-340
 MA3280-341

MA3281 series

Helicoil® Wire Thread Insert

Insert Material:	Corrosion Resistant Steel (Stainless Steel 304), AS7245, DTD734
Finish:	Cadmium Plating
Type:	Free running
Thread form:	Metric Coarse and Fine

Approved by Military Services, this series of HELICOIL® free running inserts is specified in aerospace applications with Metric thread format and are available in the 5 nominal lengths. The Cadmium Plated finish provides lubrication and minimises galling.

Part Number

MA3281-100
MA3281-101
MA3281-102
MA3281-103
MA3281-104
MA3281-105
MA3281-106
MA3281-107
MA3281-108
MA3281-109
MA3281-110
MA3281-111
MA3281-112
MA3281-113
MA3281-114
MA3281-115
MA3281-116
MA3281-117

MA3281-118
MA3281-119
MA3281-120
MA3281-121
MA3281-122
MA3281-123
MA3281-124
MA3281-125
MA3281-126
MA3281-127
MA3281-128
MA3281-129
MA3281-130
MA3281-131
MA3281-132
MA3281-133
MA3281-134
MA3281-135

MA3281-136
MA3281-137
MA3281-138
MA3281-139
MA3281-140
MA3281-141
MA3281-150
MA3281-151
MA3281-152
MA3281-153
MA3281-154
MA3281-155
MA3281-156
MA3281-157
MA3281-158
MA3281-159
MA3281-160
MA3281-161

MA3281-162
MA3281-163
MA3281-164
MA3281-165
MA3281-166
MA3281-167
MA3281-168
MA3281-169
MA3281-170
MA3281-171
MA3281-172
MA3281-173
MA3281-174
MA3281-175
MA3281-176
MA3281-177
MA3281-178
MA3281-179

MA3281 series (cont'd)

HeliCoil® Wire Thread Insert

Insert Material:	Corrosion Resistant Steel (Stainless Steel 304), AS7245, DTD734
Finish:	Cadmium Plating
Type:	Free running
Thread form:	Metric Coarse and Fine

Part Number

MA3281-180
MA3281-181
MA3281-182
MA3281-183
MA3281-184
MA3281-185
MA3281-186
MA3281-187
MA3281-188
MA3281-189
MA3281-190
MA3281-191
MA3281-200
MA3281-201
MA3281-202
MA3281-203
MA3281-204
MA3281-205

MA3281-206
MA3281-207
MA3281-208
MA3281-209
MA3281-210
MA3281-211
MA3281-212
MA3281-213
MA3281-214
MA3281-215
MA3281-216
MA3281-217
MA3281-218
MA3281-219
MA3281-220
MA3281-221
MA3281-222
MA3281-223

MA3281-224
MA3281-225
MA3281-226
MA3281-227
MA3281-228
MA3281-229
MA3281-230
MA3281-231
MA3281-232
MA3281-233
MA3281-234
MA3281-235
MA3281-236
MA3281-237
MA3281-238
MA3281-239
MA3281-240
MA3281-241

MA3281-250
MA3281-251
MA3281-252
MA3281-253
MA3281-254
MA3281-255
MA3281-256
MA3281-257
MA3281-258
MA3281-259
MA3281-260
MA3281-261
MA3281-262
MA3281-263
MA3281-264
MA3281-265
MA3281-266
MA3281-267

MA3281 series (cont'd)

HeliCoil® Wire Thread Insert

Insert Material:	Corrosion Resistant Steel (Stainless Steel 304), AS7245, DTD734
Finish:	Cadmium Plating
Type:	Free running
Thread form:	Metric Coarse and Fine

Part Number

MA3281-268
MA3281-269
MA3281-270
MA3281-271
MA3281-272
MA3281-273
MA3281-274
MA3281-275
MA3281-276
MA3281-277
MA3281-278
MA3281-279
MA3281-280
MA3281-281
MA3281-282
MA3281-283
MA3281-284
MA3281-285

MA3281-286
MA3281-287
MA3281-288
MA3281-289
MA3281-290
MA3281-291
MA3281-300
MA3281-301
MA3281-302
MA3281-303
MA3281-304
MA3281-305
MA3281-306
MA3281-307
MA3281-308
MA3281-309
MA3281-310
MA3281-311

MA3281-312
MA3281-313
MA3281-314
MA3281-315
MA3281-316
MA3281-317
MA3281-318
MA3281-319
MA3281-320
MA3281-321
MA3281-322
MA3281-323
MA3281-324
MA3281-325
MA3281-326
MA3281-327
MA3281-328
MA3281-329

MA3281-330
MA3281-331
MA3281-332
MA3281-333
MA3281-334
MA3281-335
MA3281-336
MA3281-337
MA3281-338
MA3281-339
MA3281-340
MA3281-341

MA3329 series

HeliCoil® Wire Thread Insert

Insert Material:	Corrosion Resistant Steel (Stainless Steel 304), AS7245, DTD734
Finish:	Self Finish (unplated)
Type:	Screwlock
Thread form:	Metric Coarse and Fine

Approved by Military Services, this series of HELICOIL® screwlock inserts is specified in aerospace applications with Metric thread format and is available in the 5 nominal lengths. The screwlocking coil acts as a locking mechanism for the male fastener.

Part Number

MA3329-100
MA3329-101
MA3329-102
MA3329-103
MA3329-104
MA3329-105
MA3329-106
MA3329-107
MA3329-108
MA3329-109
MA3329-110
MA3329-111
MA3329-112
MA3329-113
MA3329-114
MA3329-115
MA3329-116
MA3329-117

MA3329-118
MA3329-119
MA3329-120
MA3329-121
MA3329-122
MA3329-123
MA3329-124
MA3329-125
MA3329-126
MA3329-127
MA3329-128
MA3329-129
MA3329-130
MA3329-131
MA3329-132
MA3329-133
MA3329-134
MA3329-135

MA3329-136
MA3329-137
MA3329-138
MA3329-139
MA3329-141
MA3329-150
MA3329-151
MA3329-152
MA3329-153
MA3329-154
MA3329-155
MA3329-156
MA3329-157
MA3329-158
MA3329-159
MA3329-160
MA3329-161
MA3329-162

MA3329-163
MA3329-164
MA3329-165
MA3329-166
MA3329-167
MA3329-168
MA3329-169
MA3329-170
MA3329-171
MA3329-172
MA3329-173
MA3329-174
MA3329-175
MA3329-176
MA3329-177
MA3329-178
MA3329-179
MA3329-180

MA3329 series (cont'd)

HeliCoil® Wire Thread Insert

Insert Material:	Corrosion Resistant Steel (Stainless Steel 304), AS7245, DTD734
Finish:	Self Finish (unplated)
Type:	Screwlock
Thread form:	Metric Coarse and Fine

Part Number

MA3329-181
MA3329-182
MA3329-183
MA3329-184
MA3329-185
MA3329-186
MA3329-187
MA3329-188
MA3329-189
MA3329-190
MA3329-191
MA3329-200
MA3329-201
MA3329-202
MA3329-203
MA3329-204
MA3329-205
MA3329-206

MA3329-207
MA3329-208
MA3329-209
MA3329-210
MA3329-211
MA3329-212
MA3329-213
MA3329-214
MA3329-215
MA3329-216
MA3329-217
MA3329-218
MA3329-219
MA3329-220
MA3329-221
MA3329-222
MA3329-223
MA3329-224

MA3329-225
MA3329-226
MA3329-227
MA3329-228
MA3329-229
MA3329-230
MA3329-231
MA3329-232
MA3329-233
MA3329-234
MA3329-235
MA3329-236
MA3329-237
MA3329-238
MA3329-239
MA3329-240
MA3329-241
MA3329-250

MA3329-251
MA3329-252
MA3329-253
MA3329-254
MA3329-255
MA3329-256
MA3329-257
MA3329-258
MA3329-259
MA3329-260
MA3329-261
MA3329-262
MA3329-263
MA3329-264
MA3329-265
MA3329-266
MA3329-267
MA3329-268

MA3329 series (cont'd)

HeliCoil® Wire Thread Insert

Insert Material:	Corrosion Resistant Steel (Stainless Steel 304), AS7245, DTD734
Finish:	Self Finish (unplated)
Type:	Screwlock
Thread form:	Metric Coarse and Fine

Part Number

MA3329-269
MA3329-270
MA3329-271
MA3329-272
MA3329-273
MA3329-274
MA3329-275
MA3329-276
MA3329-277
MA3329-278
MA3329-279
MA3329-280
MA3329-281
MA3329-282
MA3329-283
MA3329-284
MA3329-285
MA3329-286

MA3329-287
MA3329-288
MA3329-289
MA3329-290
MA3329-291
MA3329-300
MA3329-301
MA3329-302
MA3329-303
MA3329-304
MA3329-305
MA3329-306
MA3329-307
MA3329-308
MA3329-309
MA3329-310
MA3329-311
MA3329-312

MA3329-313
MA3329-314
MA3329-315
MA3329-316
MA3329-317
MA3329-318
MA3329-319
MA3329-320
MA3329-321
MA3329-322
MA3329-323
MA3329-324
MA3329-325
MA3329-326
MA3329-327
MA3329-328
MA3329-329
MA3329-330

MA3329-331
MA3329-332
MA3329-333
MA3329-334
MA3329-335
MA3329-336
MA3329-337
MA3329-338
MA3329-339
MA3329-340
MA3329-341

MA3330 series

HeliCoil® Wire Thread Insert

Insert Material:	Corrosion Resistant Steel (Stainless Steel 304), AS7245, DTD734
Finish:	Dry Film Lubricant
Type:	Screwlock
Thread form:	Metric Coarse and Fine

Approved by Military Services, this series of HELICOIL® screwlock inserts is specified in aerospace applications with Metric thread format and is available in the 5 nominal lengths. The screwlocking coil acts as a locking mechanism for the male fastener. Supplied with Dry Film Lubricant finish to provide additional lubrication in high friction applications.

Part Number

MA3330-100	MA3330-118	MA3330-136	MA3330-163
MA3330-101	MA3330-119	MA3330-137	MA3330-164
MA3330-102	MA3330-120	MA3330-138	MA3330-165
MA3330-103	MA3330-121	MA3330-139	MA3330-166
MA3330-104	MA3330-122	MA3330-141	MA3330-167
MA3330-105	MA3330-123	MA3330-150	MA3330-168
MA3330-106	MA3330-124	MA3330-151	MA3330-169
MA3330-107	MA3330-125	MA3330-152	MA3330-170
MA3330-108	MA3330-126	MA3330-153	MA3330-171
MA3330-109	MA3330-127	MA3330-154	MA3330-172
MA3330-110	MA3330-128	MA3330-155	MA3330-173
MA3330-111	MA3330-129	MA3330-156	MA3330-174
MA3330-112	MA3330-130	MA3330-157	MA3330-175
MA3330-113	MA3330-131	MA3330-158	MA3330-176
MA3330-114	MA3330-132	MA3330-159	MA3330-177
MA3330-115	MA3330-133	MA3330-160	MA3330-178
MA3330-116	MA3330-134	MA3330-161	MA3330-179
MA3330-117	MA3330-135	MA3330-162	MA3330-180

MA3330 series (cont'd)

HeliCoil® Wire Thread Insert

Insert Material:	Corrosion Resistant Steel (Stainless Steel 304), AS7245, DTD734
Finish:	Dry Film Lubricant
Type:	Screwlock
Thread form:	Metric Coarse and Fine

Part Number

MA3330-181
MA3330-182
MA3330-183
MA3330-184
MA3330-185
MA3330-186
MA3330-187
MA3330-188
MA3330-189
MA3330-190
MA3330-191
MA3330-200
MA3330-201
MA3330-202
MA3330-203
MA3330-204
MA3330-205
MA3330-206

MA3330-207
MA3330-208
MA3330-209
MA3330-210
MA3330-211
MA3330-212
MA3330-213
MA3330-214
MA3330-215
MA3330-216
MA3330-217
MA3330-218
MA3330-219
MA3330-220
MA3330-221
MA3330-222
MA3330-223
MA3330-224

MA3330-225
MA3330-226
MA3330-227
MA3330-228
MA3330-229
MA3330-230
MA3330-231
MA3330-232
MA3330-233
MA3330-234
MA3330-235
MA3330-236
MA3330-237
MA3330-238
MA3330-239
MA3330-240
MA3330-241
MA3330-250

MA3330-251
MA3330-252
MA3330-253
MA3330-254
MA3330-255
MA3330-256
MA3330-257
MA3330-258
MA3330-259
MA3330-260
MA3330-261
MA3330-262
MA3330-263
MA3330-264
MA3330-265
MA3330-266
MA3330-267
MA3330-268

MA3330 series (cont'd)

HeliCoil® Wire Thread Insert

Insert Material:	Corrosion Resistant Steel (Stainless Steel 304), AS7245, DTD734
Finish:	Dry Film Lubricant
Type:	Screwlock
Thread form:	Metric Coarse and Fine

Part Number

MA3330-269
MA3330-270
MA3330-271
MA3330-272
MA3330-273
MA3330-274
MA3330-275
MA3330-276
MA3330-277
MA3330-278
MA3330-279
MA3330-280
MA3330-281
MA3330-282
MA3330-283
MA3330-284
MA3330-285
MA3330-286

MA3330-287
MA3330-288
MA3330-289
MA3330-290
MA3330-291
MA3330-300
MA3330-301
MA3330-302
MA3330-303
MA3330-304
MA3330-305
MA3330-306
MA3330-307
MA3330-308
MA3330-309
MA3330-310
MA3330-311
MA3330-312

MA3330-313
MA3330-314
MA3330-315
MA3330-316
MA3330-317
MA3330-318
MA3330-319
MA3330-320
MA3330-321
MA3330-322
MA3330-323
MA3330-324
MA3330-325
MA3330-326
MA3330-327
MA3330-328
MA3330-329
MA3330-330

MA3330-331
MA3330-332
MA3330-333
MA3330-334
MA3330-335
MA3330-336
MA3330-337
MA3330-338
MA3330-339
MA3330-340
MA3330-341

MA3331 series

HeliCoil® Wire Thread Insert

Insert Material:	Corrosion Resistant Steel (Stainless Steel 304), AS7245, DTD734
Finish:	Cadmium Plating
Type:	Screwlock
Thread form:	Metric Coarse and Fine

Approved by Military Services, this series of HELICOIL® screwlock inserts is specified in aerospace applications with Metric thread format and is available in the 5 nominal lengths. The screwlocking coil acts as a locking mechanism for the male fastener. The Cadmium Plated finish provides lubrication and minimises galling.

Part Number

MA3331-100
MA3331-101
MA3331-102
MA3331-103
MA3331-104
MA3331-105
MA3331-106
MA3331-107
MA3331-108
MA3331-109
MA3331-110
MA3331-111
MA3331-112
MA3331-113
MA3331-114
MA3331-115
MA3331-116
MA3331-117

MA3331-118
MA3331-119
MA3331-120
MA3331-121
MA3331-122
MA3331-123
MA3331-124
MA3331-125
MA3331-126
MA3331-127
MA3331-128
MA3331-129
MA3331-130
MA3331-131
MA3331-132
MA3331-133
MA3331-134
MA3331-135

MA3331-136
MA3331-137
MA3331-138
MA3331-139
MA3331-141
MA3331-150
MA3331-151
MA3331-152
MA3331-153
MA3331-154
MA3331-155
MA3331-156
MA3331-157
MA3331-158
MA3331-159
MA3331-160
MA3331-161
MA3331-162

MA3331-163
MA3331-164
MA3331-165
MA3331-166
MA3331-167
MA3331-168
MA3331-169
MA3331-170
MA3331-171
MA3331-172
MA3331-173
MA3331-174
MA3331-175
MA3331-176
MA3331-177
MA3331-178
MA3331-179
MA3331-180

MA3331 series (cont'd)

HeliCoil® Wire Thread Insert

Insert Material:	Corrosion Resistant Steel (Stainless Steel 304), AS7245, DTD734
Finish:	Cadmium Plating
Type:	Screwlock
Thread form:	Metric Coarse and Fine

Part Number

MA3331-181
MA3331-182
MA3331-183
MA3331-184
MA3331-185
MA3331-186
MA3331-187
MA3331-188
MA3331-189
MA3331-190
MA3331-191
MA3331-200
MA3331-201
MA3331-202
MA3331-203
MA3331-204
MA3331-205
MA3331-206

MA3331-207
MA3331-208
MA3331-209
MA3331-210
MA3331-211
MA3331-212
MA3331-213
MA3331-214
MA3331-215
MA3331-216
MA3331-217
MA3331-218
MA3331-219
MA3331-220
MA3331-221
MA3331-222
MA3331-223
MA3331-224

MA3331-225
MA3331-226
MA3331-227
MA3331-228
MA3331-229
MA3331-230
MA3331-231
MA3331-232
MA3331-233
MA3331-234
MA3331-235
MA3331-236
MA3331-237
MA3331-238
MA3331-239
MA3331-240
MA3331-241
MA3331-250

MA3331-251
MA3331-252
MA3331-253
MA3331-254
MA3331-255
MA3331-256
MA3331-257
MA3331-258
MA3331-259
MA3331-260
MA3331-261
MA3331-262
MA3331-263
MA3331-264
MA3331-265
MA3331-266
MA3331-267
MA3331-268

MA3331 series (cont'd)

HeliCoil® Wire Thread Insert

Insert Material:	Corrosion Resistant Steel (Stainless Steel 304), AS7245, DTD734
Finish:	Cadmium Plating
Type:	Screwlock
Thread form:	Metric Coarse and Fine

Part Number

MA3331-269
 MA3331-270
 MA3331-271
 MA3331-272
 MA3331-273
 MA3331-274
 MA3331-275
 MA3331-276
 MA3331-277
 MA3331-278
 MA3331-279
 MA3331-280
 MA3331-281
 MA3331-282
 MA3331-283
 MA3331-284
 MA3331-285
 MA3331-286

MA3331-287
 MA3331-288
 MA3331-289
 MA3331-290
 MA3331-291
 MA3331-300
 MA3331-301
 MA3331-302
 MA3331-303
 MA3331-304
 MA3331-305
 MA3331-306
 MA3331-307
 MA3331-308
 MA3331-309
 MA3331-310
 MA3331-311
 MA3331-312

MA3331-313
 MA3331-314
 MA3331-315
 MA3331-316
 MA3331-317
 MA3331-318
 MA3331-319
 MA3331-320
 MA3331-321
 MA3331-322
 MA3331-323
 MA3331-324
 MA3331-325
 MA3331-326
 MA3331-327
 MA3331-328
 MA3331-329
 MA3331-330

MA3331-331
 MA3331-332
 MA3331-333
 MA3331-334
 MA3331-335
 MA3331-336
 MA3331-337
 MA3331-338
 MA3331-339
 MA3331-340
 MA3331-341

NASM122076 to NASM124831 series

REPLACING MS21208

Helicoil® Wire Thread Insert

Insert Material:	Corrosion Resistant Steel (Stainless Steel 304), AS7245
Finish:	Self Finish (unplated)
Type:	Free running
Thread form:	UNC and UNF

Produced to USA standards this series of HELICOIL® free running inserts in UNC and UNF thread format is available in 5 nominal lengths. Disposable as self finish or with a cadmium plated finish which provides lubrication and minimises galling. A dry film lubricant finish is also available which provides additional lubrication in high friction applications.

Part Number

NASM122076

NASM122077

NASM122078

NASM122079

NASM122080

NASM122081

NASM122082

NASM122083

NASM122084

NASM122085

NASM122086

NASM122087

NASM122088

NASM122089

NASM122090

NASM122091

NASM122092

NASM122093

NASM122094

NASM122095

NASM122115

NASM122116

NASM122117

NASM122118

NASM122119

NASM122120

NASM122121

NASM122122

NASM122123

NASM122124

NASM122125

NASM122126

NASM122127

NASM122128

NASM122129

NASM122130

NASM122131

NASM122132

NASM122133

NASM122134

NASM122135

NASM122155

NASM122156

NASM122157

NASM122158

NASM122159

NASM122160

NASM122161

NASM122162

NASM122163

NASM122164

NASM122165

NASM122166

NASM122167

NASM122168

NASM122169

NASM122170

NASM122171

NASM122172

NASM122173

NASM122174

NASM122175

NASM122195

NASM122196

NASM122197

NASM122198

NASM122199

NASM122200

NASM122201

NASM122202

NASM122203

NASM122204

NASM122076 to NASM124831 series (cont'd)

REPLACING MS21208

HeliCoil® Wire Thread Insert

Insert Material:	Corrosion Resistant Steel (Stainless Steel 304), A57245
Finish:	Self Finish (unplated)
Type:	Free running
Thread form:	UNC and UNF

Part Number

NASM122205

NASM122206

NASM122207

NASM122208

NASM122209

NASM122210

NASM122211

NASM122212

NASM122213

NASM122214

NASM122215

NASM122235

NASM122236

NASM122237

NASM122238

NASM122239

NASM122240

NASM122241

NASM122242

NASM122243

NASM122244

NASM122245

NASM122246

NASM122247

NASM122248

NASM122249

NASM122250

NASM122251

NASM122252

NASM122253

NASM122254

NASM122255

NASM122275

NASM124651

NASM124653

NASM124654

NASM124655

NASM124656

NASM124657

NASM124658

NASM124659

NASM124660

NASM124661

NASM124662

NASM124663

NASM124664

NASM124666

NASM124667

NASM124668

NASM124669

NASM124670

NASM124671

NASM124691

NASM124693

NASM124694

NASM124695

NASM124696

NASM124697

NASM124698

NASM124699

NASM124700

NASM124701

NASM124702

NASM124703

NASM124704

NASM124706

NASM124707

NASM124708

NASM124709

NASM124710

NASM124711

NASM124731

NASM122076 to NASM124831 series (cont'd)

REPLACING MS21208

HeliCoil® Wire Thread Insert

Insert Material:	Corrosion Resistant Steel (Stainless Steel 304), A57245
Finish:	Self Finish (unplated)
Type:	Free running
Thread form:	UNC and UNF

Part Number

NASM124733	NASM124771	NASM124791	NASM124830
NASM124734	NASM124773	NASM124811	NASM124831
NASM124735	NASM124774	NASM124813	
NASM124736	NASM124775	NASM124814	
NASM124737	NASM124776	NASM124815	
NASM124738	NASM124777	NASM124816	
NASM124739	NASM124778	NASM124817	
NASM124740	NASM124779	NASM124818	
NASM124741	NASM124780	NASM124819	
NASM124742	NASM124781	NASM124820	
NASM124743	NASM124782	NASM124821	
NASM124744	NASM124783	NASM124822	
NASM124746	NASM124784	NASM124823	
NASM124747	NASM124786	NASM124824	
NASM124748	NASM124787	NASM124826	
NASM124749	NASM124788	NASM124827	
NASM124750	NASM124789	NASM124828	
NASM124751	NASM124790	NASM124829	

NASM21209 series

Helicoil® Wire Thread Insert

Insert Material:	Corrosion Resistant Steel (Stainless Steel 304), A57245
Finish:	Self Finish (unplated). Dyed Red, Cadmium Plating and Dry Film Lubricant
Type:	Screwlock
Thread form:	UNC and UNF

Add following for Plating or Coating

"P" for Cadmium Plating Insert
"L" for Dry Film Lubricant
Left Blank for Self Finish
(unplated)

**Example: MS21209C0310P
= Cadmium Plating Insert**

Produced to USA standards, this series of HELICOIL® screwlock inserts in UNC and UNF thread format and is disposable in 5 nominal lengths. The screw locking coil acts as a locking mechanism for the male fastener. Available as self finish or with a cadmium plated finish which provides lubrication and minimises galling. A dry film lubricant finish is also available which provides additional lubrication in high friction applications.

Part Number

NASM21209C0210
NASM21209C0215
NASM21209C0220
NASM21209C0225
NASM21209C0230
NASM21209C0310
NASM21209C0315
NASM21209C0320
NASM21209C0325
NASM21209C0330
NASM21209C0410
NASM21209C0415
NASM21209C0420
NASM21209C0425
NASM21209C0430
NASM21209C0510
NASM21209C0515
NASM21209C0520

NASM21209C0525
NASM21209C0530
NASM21209C0610
NASM21209C0615
NASM21209C0620
NASM21209C0625
NASM21209C0630
NASM21209C0810
NASM21209C0815
NASM21209C0820
NASM21209C0825
NASM21209C0830
NASM21209C1010
NASM21209C1015
NASM21209C1020
NASM21209C1025
NASM21209C1030
NASM21209C1210

NASM21209C1215
NASM21209C1220
NASM21209C1225
NASM21209C1230
NASM21209C1410
NASM21209C1415
NASM21209C1420
NASM21209C1425
NASM21209C1430
NASM21209C1610
NASM21209C1615
NASM21209C1620
NASM21209C1625
NASM21209C1630
NASM21209C1810
NASM21209C1815
NASM21209C1820
NASM21209C1825

NASM21209C1830
NASM21209C2010
NASM21209C2015
NASM21209C2020
NASM21209C2025
NASM21209C2030
NASM21209C2210
NASM21209C2215
NASM21209C2220
NASM21209C2225
NASM21209C2230
NASM21209C2410
NASM21209C2415
NASM21209C2420
NASM21209C2425
NASM21209C2430

NASM21209 series (cont'd)

HeliCoil® Wire Thread Insert

Insert Material:	Corrosion Resistant Steel (Stainless Steel 304), A57245
Finish:	Self Finish (unplated). Dyed Red, Cadmium Plating and Dry Film Lubricant
Type:	Screwlock
Thread form:	UNC and UNF

Part Number

NASM21209C1-10
 NASM21209C1-15
 NASM21209C1-20
 NASM21209C1-25
 NASM21209C1-30
 NASM21209C2-10
 NASM21209C2-15
 NASM21209C2-20
 NASM21209C2-25
 NASM21209C2-30
 NASM21209C4-10
 NASM21209C4-15
 NASM21209C4-20
 NASM21209C4-25
 NASM21209C4-30
 NASM21209C5-10
 NASM21209C5-15
 NASM21209C5-20

NASM21209C5-25
 NASM21209C5-30
 NASM21209C6-10
 NASM21209C6-15
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 NASM21209C6-25
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NASM21209C9-15
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 NASM21209F0310
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 NASM21209F1010
 NASM21209F1015
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 NASM21209F1025
 NASM21209F1030
 NASM21209F1210
 NASM21209F1215
 NASM21209F1220
 NASM21209F1225
 NASM21209F1230
 NASM21209F1410

NASM21209 series (cont'd)

HeliCoil® Wire Thread Insert

Insert Material:	Corrosion Resistant Steel (Stainless Steel 304), A57245
Finish:	Self Finish (unplated). Dyed Red, Cadmium Plating and Dry Film Lubricant
Type:	Screwlock
Thread form:	UNC and UNF

Part Number

NASM21209F1415
 NASM21209F1420
 NASM21209F1425
 NASM21209F1430
 NASM21209F1610
 NASM21209F1615
 NASM21209F1620
 NASM21209F1625
 NASM21209F1630
 NASM21209F1810
 NASM21209F1815
 NASM21209F1820
 NASM21209F1825
 NASM21209F1830
 NASM21209F2010
 NASM21209F2015
 NASM21209F2020
 NASM21209F2025

NASM21209F2030
 NASM21209F2210
 NASM21209F2215
 NASM21209F2220
 NASM21209F2225
 NASM21209F2230
 NASM21209F2410
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 NASM21209F2430

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 NASM21209F7-25

NASM21209F7-30
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 NASM21209F8-25
 NASM21209F8-30
 NASM21209F9-10
 NASM21209F9-15
 NASM21209F9-20
 NASM21209F9-25
 NASM21209F9-30

NA0276 series

HELICOIL® tangfree Wire Thread Insert

Insert Material:	Corrosion Resistant Steel (Stainless Steel 304), AS7245
Finish:	Self Finish (unplated), Cadmium Plating and Dry Film Lubricant
Type:	Free running and Screwlock
Thread form:	Metric Coarse and Fine

Add following for Plating or Coating

"P" for Cadmium Plating Insert
 "D" for Dry Film Lubricant
 Left Blank for Self Finish
 (unplated)

**Example: NA0276M4-10P
 = Cadmium Plating Insert**

HELICOIL® tangfree inserts are used in critical aerospace and defence applications and are available in metric coarse and fine thread format in HELICOIL® free running and HELICOIL® screwlock up to 3D long subject to thread form. The screw locking coil acts as a locking mechanism for the male fastener. Disposable as self finish or with a cadmium plated finish which provides lubrication and minimises galling. A dry film lubricant finish is also available which provides additional lubrication in high friction applications.

Part Number

NA0276M2A-10
 NA0276M3-10
 NA0276M4-10
 NA0276M5-10
 NA0276M6-10
 NA0276M8-10
 NA0276M10-10
 NA0276M12-10
 NA0276M2A-10
 NA0276M3L10
 NA0276M4L10
 NA0276M5L10
 NA0276M6L10
 NA0276M8L10
 NA0276M10L10
 NA0276M12L10
 NA0276M2A-15
 NA0276M3-15
 NA0276M4-15
 NA0276M5-15
 NA0276M6-15

NA0276M8-15
 NA0276M10-15
 NA0276M12-15
 NA0276M2A-15
 NA0276M3L15
 NA0276M4L15
 NA0276M5L15
 NA0276M6L15
 NA0276M8L15
 NA0276M10L15
 NA0276M12L15
 NA0276M2A-20
 NA0276M3-20
 NA0276M4-20
 NA0276M5-20
 NA0276M6-20
 NA0276M8-20
 NA0276M10-20
 NA0276M12-20
 NA0276M2A-20
 NA0276M3L20

NA0276M4L20
 NA0276M5L20
 NA0276M6L20
 NA0276M8L20
 NA0276M10L20
 NA0276M12L20
 NA0276M2A-25
 NA0276M3-25
 NA0276M4-25
 NA0276M5-25
 NA0276M6-25
 NA0276M8-25
 NA0276M10-25
 NA0276M12-25
 NA0276M2A-25
 NA0276M3L25
 NA0276M4L25
 NA0276M5L25
 NA0276M6L25
 NA0276M8L25
 NA0276M10L25

NA0276M12L25
 NA0276M2A-30
 NA0276M3-30
 NA0276M4-30
 NA0276M5-30
 NA0276M6-30
 NA0276M8-30
 NA0276M10-30
 NA0276M12-30
 NA0276M2A-30
 NA0276M3L30
 NA0276M4L30
 NA0276M5L30
 NA0276M6L30
 NA0276M8L30
 NA0276M10L30
 NA0276M12L30

NAS1130 series

Helicoil® tangfree Wire Thread Insert

Insert Material:	Corrosion Resistant Steel (Stainless Steel 304), AS7245
Finish:	Self Finish (unplated), Cadmium Plating and Dry Film Lubricant
Type:	Free running and Screwlock
Thread form:	UNC and UNF

Add following for Plating or Coating

"P" for Cadmium Plating Insert
"D" for Dry Film Lubricant
Left Blank for Self Finish
(unplated)

**Example: NAS1130-04-10P
= Cadmium Plating Insert**

HELICOIL® tangfree inserts are used in critical aerospace and defence applications and are available in UNC and UNF thread format in HELICOIL® free running and HELICOIL® screwlock up to 3D long subject to thread form. The screw locking coil acts as a locking mechanism for the male fastener. Disposable as self finish or with a cadmium plated finish which provides lubrication and minimises galling. A dry film lubricant finish is also available which provides additional lubrication in high friction applications.

Part Number

NAS1130-02-10
NAS1130-02-15
NAS1130-02-20
NAS1130-02-25
NAS1130-02-30
NAS1130-02L10
NAS1130-02L15
NAS1130-02L20
NAS1130-02L25
NAS1130-02L30
NAS1130-04-10
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NAS1130-04-20
NAS1130-04-25
NAS1130-04-30
NAS1130-04L10
NAS1130-04L15
NAS1130-04L20
NAS1130-04L25
NAS1130-04L30
NAS1130-06-10

NAS1130-06-15
NAS1130-06-20
NAS1130-06-25
NAS1130-06-30
NAS1130-06L10
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NAS1130-06L20
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NAS1130-08L15
NAS1130-08L20
NAS1130-08L25
NAS1130-08L30
NAS1130-3-10
NAS1130-3-15

NAS1130-3-20
NAS1130-3-25
NAS1130-3-30
NAS1130-3C-10
NAS1130-3C-15
NAS1130-3C-20
NAS1130-3C-25
NAS1130-3C-30
NAS1130-3CL10
NAS1130-3CL15
NAS1130-3CL20
NAS1130-3CL25
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NAS1130-4-20

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NAS1130-4F-20
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NAS1130-4FL10
NAS1130-4FL15
NAS1130-4FL20
NAS1130-4FL25
NAS1130-4FL30
NAS1130-4L10
NAS1130-4L15
NAS1130-4L20
NAS1130-4L25
NAS1130-4L30

Further Aerospace Products



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RIVNUT® aero blind rivet nuts solutions for installing a load carrying internal or external thread to thin-walled metal or plastic components even for single sided installations.

Available aviation standards:

- NAS1329
- NAS1330
- Customized blind rivet nut applications
- ECS2233
- ECS2234
- ECS2268



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- Cost-effective
- No tooling required for installation
- Light weight design
- Reliable and robust
- Adaptable in clamping force, colour and design



Bonding of fasteners with light curing adhesives

The ONCERT® technology allows quick and reliable adhesion of most diverse fasteners to diverse materials.

- Connection on fibre composites, coated surfaces, glass and plastic
- Curing time ≤ 5 sec
- Very good mechanical properties, shock absorbing
- No heat impact to the substrate
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BÖLLHOFF

Böllhoff Verbindungstechnik GmbH

Archimedesstraße 1 – 4

33649 Bielefeld · Germany

Phone +49 (0)5 21 / 44 82 - 180

Fax +49 (0)5 21 / 44 82 - 9 31 80

aerospace@boellhoff.com

www.boellhoff.com

Bollhoff Armstrong Limited

Stoneferry Business Park

Foster Street Hull

HU8 8BT

United Kingdom

Phone 0044 (0) 14 82 32 54 25

Fax 0044 (0) 14 82 32 72 29

info_bal@bollhoff.com

www.bollhoff-armstrong.co.uk

Bollhoff Otau S.A.

Z.I. de l'Albanne

Rue d'Archimède

73493 La Ravoire / Chambéry

France

Phone 0033 4 79 96 70 00

