

**AEROSPACE
FASTENERS GUIDE**

AMECA

RELIABILITY AND SAFETY MANUFACTURER





45
YEARS
OF EXPERTISE

PRESENT IN
MORE THAN
30
COUNTRIES

16 000
ITEMS IN STOCK



THE ROBUSTNESS OF A SYSTEM DEPENDS ON THE RELIABILITY OF ITS SMALLEST COMPONENT

We are fully aware of the challenges linked to the reliability of our assembly solutions. This is why we put all our effort to make your production reliable, everywhere in the world.

OUR GOAL: SUPPORTING YOU WHENEVER YOU NEED US

That is to say...

TO ADVISE

Technology, materials, treatments, we support you selecting the best solution according to your needs.

TO DESIGN

Our expertise is to bring what you need with a proactive approach and developing customized solutions.

TO PRODUCE

Quality is our DNA.

We manufacture in France according to applicable standards.

TO INSTALL

The detail makes the difference in term of strength and robustness. We stand by your side to secure the installation of our products in your assemblies.

TO SERVE

Reactivity is key to success.

We pay special attention to making your life easier: quick quotation, stock available on shelves, emergency production...

We are committed to being a trusted partner, close to its customers, invested in a sustainable way, looking for continuous improvements in all departments: production, products, logistics, service...

AMECA, MANUFACTURER OF RELIABILITY AND SAFETY



FRENCH MANUFACTURER OF MECHANICAL FASTENING SOLUTIONS



A PRODUCTION
ADAPTED TO YOUR NEEDS:
MICRO SERIES AND LARGE VOLUMES



RELIABILITY

Product quality, respect of applicable standards, respect of our commitments through our certifications.

It is because we are reliable that we can be trusted.



EXPERTISE

We have been manufacturing for 45 years: design office & automated production system.



INNOVATION

Products, production and service, we are continuously looking for innovation for our customers.



PROXIMITY

We remain at our customers disposal at all times: listening, advising and being flexible to meet their expectations.



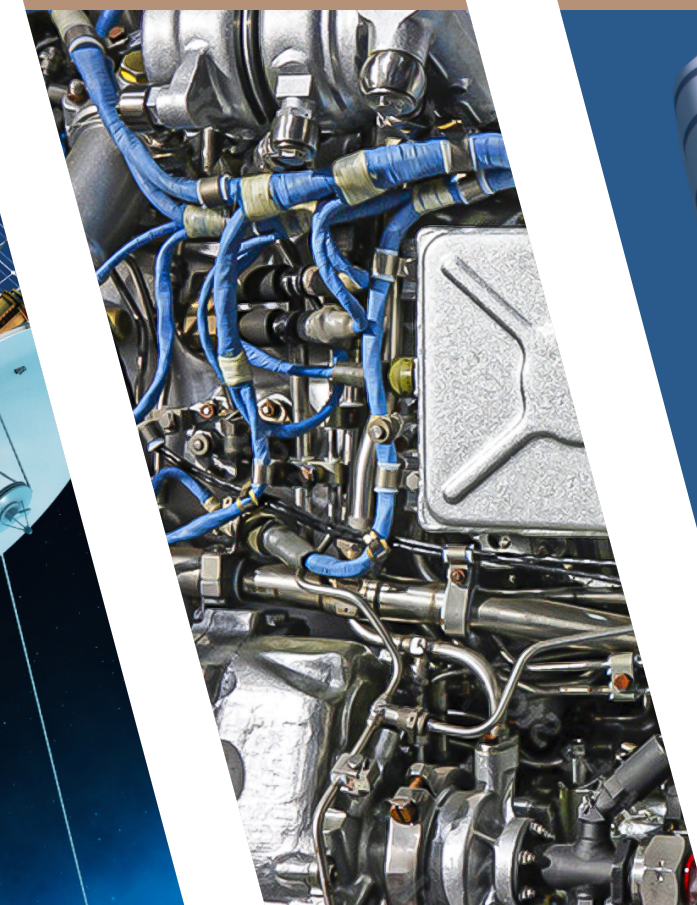
RELIABILITY FOR AEROSPACE INDUSTRY

We know that each industry has specific product and quality requirements. For decades, we have partnered with the aerospace industry to provide customized fastening solutions. We work closely with our customers to adapt and tailor our services to ensure that needs are being met at every stage.

SPACE



AVIONIC SYSTEMS



STRUCTURAL PARTS



/// TECHNOLOGICAL ADVANTAGES

OUR SOLUTIONS ARE DESIGNED TO OFFER YOU SAFETY IN ALL CONDITIONS.

- Resistance to Corrosive Environments
- Resistance to Thermal Factors
- Resistance to Premature Wear
- High friction reduction with special coating
- Anti-rotation lock insert
- Screw Pull-Off Resistance
- Resistance to Loosening & Anti-Loosening

Our wire thread inserts are used on major commercial aircrafts
and European space programs.

CABIN INTERIOR



ENGINE



LANDING GEAR



YOU HAVE A QUESTION OR A PROJECT ?

Contact us: contact@ameca-sa.fr



SOLUTIONS FOR THE AEROSPACE INDUSTRY

MODULAR SYSTEM AMECOIL®

AMECOIL® wire thread inserts create high strength, wear free and heat resistant threads in materials with low strength. Available in different sizes and in a variety of thread forms, they can be supplied in a large range of materials and coatings.



THREAD FORMS: Metric Thread / UNC UNF / BSW / BSF

PRODUCT TYPE:



AMECOIL® SR



AMECOIL® SR AF



TANGLESS®



STRIP FEED

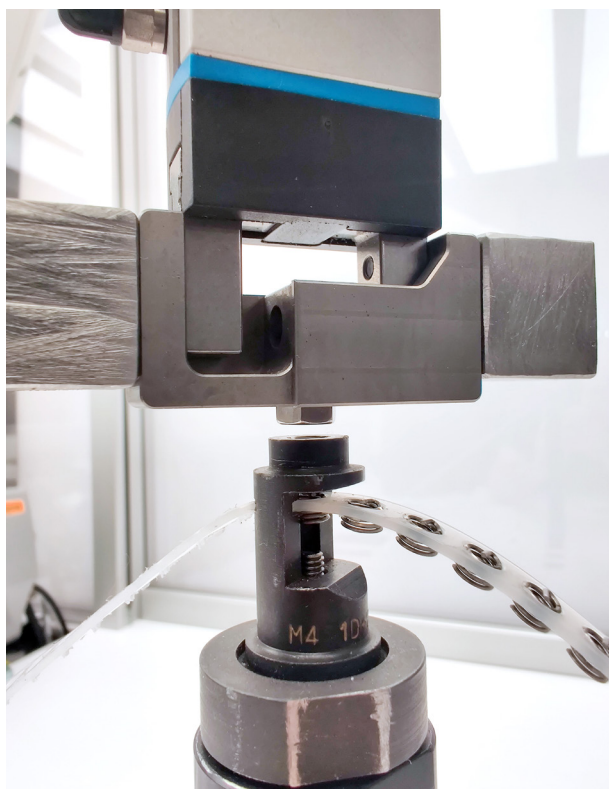


AMELOCK

MATERIALS: Stainless Steel Grade 304 / Bronze / Inconel X-750 / Nimonic 90 / Nitronic 60

COATINGS & PLATINGS*: Dry Lubrication / Cadmium Plating / Silver plating / Color Coding

* Other coatings are available on request.



INSTALLATION SYSTEMS

We also supply the assembly solutions for our AMECOIL® and TANGLESS® thread inserts.



Electrical installation devices:
GXT screwdriver



Pneumatic installation devices



Manual tools

REPAIR KITS

To repair damaged tappings, AMECOIL® Wire Thread Inserts are available in repair kits. Different models : Monokit or Multikit, Indus or Standard.

KEY-LOCKING INSERT CLAVSERT



Our Clavsert are easy to install and to remove. They are driven down into the threads of the surrounding base material, locking the insert in place.

- 3 Models: light-weight, reinforced and closed
- Sizes: M4 to M24 depending on series

SELF-TAPPING INSERT AMESELF



Metal insert which cuts out its own thread in light metals, plastics, wood and composite materials to provide a thread that withstands frequent assembly and disassembly of the screw.

- Sizes: M2,5 to M30.

AEROSPACE STANDARDS

/// METRIC THREADS

STANDARDS & SPÉCIFICATIONS	DESCRIPTION
DIN8140-1	WIRE THREAD INSERTS FOR ISO METRIC SCREW THREADS - PART 1: DIMENSIONS, TECHNICAL SPECIFICATIONS
DIN65100	WIRE THREAD INSERTS, SCREW-LOCKING, COPPER ALLOY
LN9039	AEROSPACE, INSERTS, HELICAL COIL THREADS
LN9490	AEROSPACE SERIES - CLAMPS, LOOP TYPE, OF CORROSION-RESISTANT STEEL
LN9499	AEROSPACE SERIES - INSERTS, HELICAL COIL THREADS, SCREW-LOCKING
EN2944	INSERT, SCREW THREAD, HELICAL COIL, SCREW LOCKING IN CORROSION RESISTING STEEL (X10CrNi18-09)
EN2942	INSERT, SCREW THREAD, HELICAL COIL, SCREW LOCKING, IN HEAT RESISTING NICKEL BASE ALLOY (INCONEL X750) SILVER PLATED
EN3542	INSERT, SCREW THREAD, HELICAL COIL, SCREW LOCKING, IN HEAT RESISTING NICKEL BASE ALLOY (INCONEL X750)
NA0276	INSERT, SCREW THREAD, HELICAL COIL, FREE RUNNING AND SELF-LOCKING, WITHOUT TANG
MA3279	INSERT SCREW THREAD HELICAL COIL METRIC SERIES FREE RUNNING CRES UNCOATED
MA3329	INSERT SCREW THREAD HELICAL COIL METRIC SERIES SCREW LOCKING CRES UNCOATED

/// UNC/UNF THREADS

STANDARDS & SPÉCIFICATIONS	DESCRIPTION
NASM8846	INSERT, SCREW THREAD, HELICAL COIL, UNIFIED SERIES, PROCUREMENT SPECIFICATION
NAS1130	INSERT, SCREW THREAD, HELICAL COIL, FREE RUNNING AND SELF-LOCKING, WITHOUT TANG
NASM21209	INSERT, SCREW THREAD, COARSE AND FINE, SCREW LOCKING, HELICAL COIL
NASM122076 to NASM122275	INSERT CRES HELICAL COIL COARSE THREAD (Nominal length: 1D, 1,5D, 2D, 2,5D, 3D)
NASM124651 to NASM124850	INSERT CRED HELICAL COIL FINE THREAD (Nominal length: 1D, 1,5D, 2D, 2,5D, 3D)

/// PLATINGS/COATINGS

STANDARDS & SPÉCIFICATIONS	DESCRIPTION
AMS_QQP_416	PLATING, CADMIUM (ELECTRODEPOSITED)
AMS 2411	PLATING, SILVER FOR HIGH TEMPERATURE APPLICATIONS
AMS2526	MOLYBDENUM DISULFIDE COATING, THIN LUBRICATING FILM IMPINGEMENT APPLIED
AS5272	LUBRICANT, SOLID FILM, HEAT CURED, CORROSION INHIBITING, PROCUREMENT SPECIFICATION
EN 2786	AEROSPACE SERIES ELECTROLYTIC SILVER PLATING OF FASTENERS



AMECOIL® PART NUMBERS & CROSS REFERENCES

/// UNC - LOCKING SERIES - MS21209 / NAS1130

THREAD SIZE	NOMINAL LENGHT (in Dia.)	TANGED		WITHOUT TANG	
		AMECOIL® No.	MS No.	AMECOIL® No.	NAS No.
2-56	1	0210020086SR	MS21209C0210	0210020086SE	NAS1130-02L10
	1,5	0210020129SR	MS21209C0215	0210020129SE	NAS1130-02L15
	2	0210020172SR	MS21209C0220	0210020172SE	NAS1130-02L20
	2,5	0210020215SR	MS21209C0225	0210020215SE	NAS1130-02L25
	3	0210020258SR	MS21209C0230	0210020258SE	NAS1130-02L30
3-48	1	0210030099SR	MS21209C0310	---	---
	1,5	0210030148SR	MS21209C0315	---	---
	2	0210030198SR	MS21209C0320	---	---
	2,5	0210030248SR	MS21209C0325	---	---
	3	0210030297SR	MS21209C0330	---	---
4-40	1	0210040112SR	MS21209C0410	0210040112SE	NAS1130-04L10
	1,5	0210040168SR	MS21209C0415	0210040168SE	NAS1130-04L15
	2	0210040224SR	MS21209C0420	0210040224SE	NAS1130-04L20
	2,5	0210040280SR	MS21209C0425	0210040280SE	NAS1130-04L25
	3	0210040336SR	MS21209C0430	0210040336SE	NAS1130-04L30
5-40	1	0210050125SR	MS21209C0510	---	---
	1,5	0210050188SR	MS21209C0515	---	---
	2	0210050250SR	MS21209C0520	---	---
	2,5	0210050312SR	MS21209C0525	---	---
	3	0210050375SR	MS21209C0530	---	---
6-32	1	0210060138SR	MS21209C0610	0210060138SE	NAS1130-06L10
	1,5	0210060207SR	MS21209C0615	0210060207SE	NAS1130-06L15
	2	0210060276SR	MS21209C0620	0210060276SE	NAS1130-06L20
	2,5	0210060345SR	MS21209C0625	0210060345SE	NAS1130-06L25
	3	0210060414SR	MS21209C0630	0210060414SE	NAS1130-06L30
8-32	1	0210080164SR	MS21209C0810	0210080164SE	NAS1130-08L10
	1,5	0210080246SR	MS21209C0815	0210080246SE	NAS1130-08L15
	2	0210080328SR	MS21209C0820	0210080328SE	NAS1130-08L20
	2,5	0210080410SR	MS21209C0825	0210080410SE	NAS1130-08L25
	3	0210080492SR	MS21209C0830	0210080492SE	NAS1130-08L30
10-24	1	0210100190SR	MS21209C1-10	0210100190SE	NAS1130-3CL10
	1,5	0210100285SR	MS21209C1-15	0210100285SE	NAS1130-3CL15
	2	0210100380SR	MS21209C1-20	0210100380SE	NAS1130-3CL20
	2,5	0210100475SR	MS21209C1-25	0210100475SE	NAS1130-3CL25
	3	0210100570SR	MS21209C1-30	0210100570SE	NAS1130-3CL30
12-24	1	0210120216SR	MS21209C2-10	---	---
	1,5	0210120324SR	MS21209C2-15	---	---
	2	0210120432SR	MS21209C2-20	---	---
	2,5	0210120540SR	MS21209C2-25	---	---
	3	0210120648SR	MS21209C2-30	---	---
1/4-20	1	0210140250SR	MS21209C4-10	0210140250SE	NAS1130-4L10
	1,5	0210140375SR	MS21209C4-15	0210140375SE	NAS1130-4L15
	2	0210140500SR	MS21209C4-20	0210140500SE	NAS1130-4L20
	2,5	0210140625SR	MS21209C4-25	0210140625SE	NAS1130-4L25
	3	0210140750SR	MS21209C4-30	0210140750SE	NAS1130-4L30
5/16-18	1	0215160312SR	MS21209C5-10	0215160312SE	NAS1130-5CL10
	1,5	0215160469SR	MS21209C5-15	0215160469SE	NAS1130-5CL15
	2	0215160625SR	MS21209C5-20	0215160625SE	NAS1130-5CL20
	2,5	0215150781SR	MS21209C5-25	0215150781SE	NAS1130-5CL25
	3	0215160938SR	MS21209C5-30	0215160938SE	NAS1130-5CL30
3/8-16	1	0210380375SR	MS21209C6-10	0210380375SE	NAS1130-6CL10
	1,5	0210380562SR	MS21209C6-15	0210380562SE	NAS1130-6CL15
	2	0210380750SR	MS21209C6-20	0210380750SE	NAS1130-6CL20
	2,5	0210380938SR	MS21209C6-25	0210380938SE	NAS1130-6CL25
	3	0210381125SR	MS21209C6-30	0210381125SE	NAS1130-6CL30
7/16-14	1	0217160438SR	MS21209C7-10	---	---
	1,5	0217160656SR	MS21209C7-15	---	---
	2	0217160875SR	MS21209C7-20	---	---
	2,5	0217161094SR	MS21209C7-25	---	---
	3	0217161312SR	MS21209C7-30	---	---
1/2-13	1	0210120500SR	MS21209C8-10	---	---
	1,5	0210120750SR	MS21209C8-15	---	---
	2	0210121000SR	MS21209C8-20	---	---
	2,5	0210121250SR	MS21209C8-25	---	---
	3	0210121500SR	MS21209C8-30	---	---

/// UNF - LOCKING SERIES - MS21209 / NAS1130

THREAD SIZE	NOMINAL LENGHT (in Dia.)	TANGED		WITHOUT TANG	
		AMECOIL® No.	MS No.	AMECOIL® No.	NAS No.
3-56	1	0220030099SR	MS21209F0310	---	---
	1,5	0220030148SR	MS21209F0315	---	---
	2	0220030198SR	MS21209F0320	---	---
	2,5	0220030248SR	MS21209F0325	---	---
	3	0220030297SR	MS21209F0330	---	---
4-48	1	0220040112SR	MS21209F0410	---	---
	1,5	0220040168SR	MS21209F0415	---	---
	2	0220040224SR	MS21209F0420	---	---
	2,5	0220040280SR	MS21209F0425	---	---
	3	0220040336SR	MS21209F0430	---	---
6-40	1	0220060138SR	MS21209F0610	---	---
	1,5	0220060207SR	MS21209F0615	---	---
	2	0220060276SR	MS21209F0620	---	---
	2,5	0220060345SR	MS21209F0625	---	---
	3	0220060414SR	MS21209F0630	---	---
8-36	1	0220080164SR	MS21209F0810	---	---
	1,5	0220080246SR	MS21209F0815	---	---
	2	0220080328SR	MS21209F0820	---	---
	2,5	0220080410SR	MS21209F0825	---	---
	3	0220080492SR	MS21209F0830	---	---
10-32	1	0220100190SR	MS21209F1-10	0220100190SE	NAS1130-3L10
	1,5	0220100285SR	MS21209F1-15	0220100285SE	NAS1130-3L15
	2	0220100380SR	MS21209F1-20	0220100380SE	NAS1130-3L20
	2,5	0220100475SR	MS21209F1-25	0220100475SE	NAS1130-3L25
	3	0220100570SR	MS21209F1-30	0220100570SE	NAS1130-3L30
1/4-28	1	0220140250SR	MS21209F4-10	0220140250SE	NAS1130-4FL10
	1,5	0220140375SR	MS21209F4-15	0220140375SE	NAS1130-4FL15
	2	0220140500SR	MS21209F4-20	0220140500SE	NAS1130-4FL20
	2,5	0220140625SR	MS21209F4-25	0220140625SE	NAS1130-4FL25
	3	0220140750SR	MS21209F4-30	0220140750SE	NAS1130-4FL30
5/16-24	1	0225160312SR	MS21209F5-10	0225160312SE	NAS1130-5FL10
	1,5	0225160469SR	MS21209F5-15	0225160469SE	NAS1130-5FL15
	2	0225160625SR	MS21209F5-20	0225160625SE	NAS1130-5FL20
	2,5	0225160781SR	MS21209F5-25	0225160781SE	NAS1130-5FL25
	3	0225160938SR	MS21209F5-30	0225160938SE	NAS1130-5FL30
3/8-24	1	0220380375SR	MS21209F6-10	0220380375SE	NAS1130-6FL10
	1,5	0220380562SR	MS21209F6-15	0220380562SE	NAS1130-6FL15
	2	0220380750SR	MS21209F6-20	0220380750SE	NAS1130-6FL20
	2,5	0220380938SR	MS21209F6-25	0220380938SE	NAS1130-6FL25
	3	0220381125SR	MS21209F6-30	0220381125SE	NAS1130-6FL30
7/16-20	1	0227160438SR	MS21209F7-10	---	---
	1,5	0227160656SR	MS21209F7-15	---	---
	2	0227160875SR	MS21209F7-20	---	---
	2,5	0227161094SR	MS21209F7-25	---	---
	3	0227161312SR	MS21209F7-30	---	---
1/2-20	1	0220120500SR	MS21209F8-10	---	---
	1,5	0220120750SR	MS21209F8-15	---	---
	2	0220121000SR	MS21209F8-20	---	---
	2,5	0220121250SR	MS21209F8-25	---	---
	3	0220121500SR	MS21209F8-30	---	---

Dry Lubrication: Add a "L" after "MS21209" and "NAS1130" P/N and Replace "02" by "62" in AMECOIL® P/N. For other coatings: please contact us.



AMECOIL® PART NUMBERS & CROSS REFERENCES

/// METRIC - LOCKING SERIES - MA3329 / LN9499

THREAD SIZE	NOMINAL LENGHT (in Dia.)	TANGED		
		AMECOIL® No.	MA No.	LN No.
M2.5X0.45	1	0225045025SR	MA3329-101	LN9499 - 00 025
	1,5	0225045375SR	MA3329-151	LN9499 - 00 037
	2	0225045005SR	MA3329-201	LN9499 - 00 050
	2,5	0225045625SR	MA3329-251	-
	3	0225045075SR	MA3329-301	-
M3X0.5	1	0203050003SR	MA3329-102	LN9499 - 01 030
	1,5	0203050045SR	MA3329-152	LN9499 - 01 045
	2	0203050006SR	MA3329-202	LN9499 - 01 060
	2,5	0203050075SR	MA3329-252	-
	3	0203050009SR	MA3329-302	-
M4X0.7	1	0204070004SR	MA3329-104	LN9499 - 02 040
	1,5	0204070006SR	MA3329-154	LN9499 - 02 060
	2	0204070008SR	MA3329-204	LN9499 - 02 080
	2,5	0204070010SR	MA3329-254	LN9499 - 02 100
	3	0204070012SR	MA3329-304	LN9499 - 02 120
M5X0.8	1	0205080005SR	MA3329-105	LN9499 - 03 050
	1,5	0205080075SR	MA3329-155	LN9499 - 03 075
	2	0205080010SR	MA3329-205	LN9499 - 03 100
	2,5	0205080125SR	MA3329-255	LN9499 - 03 125
	3	0205080015SR	MA3329-305	LN9499 - 03 150
M6X1	1	0206100006SR	MA3329-106	LN9499 - 04 060
	1,5	0206100009SR	MA3329-156	LN9499 - 04 090
	2	0206100012SR	MA3329-206	LN9499 - 04 120
	2,5	0206100015SR	MA3329-256	LN9499 - 05 150
	3	0206100018SR	MA3329-306	LN9499 - 05 180
M7X1	1	0207100007SR	MA3329-107	-
	1,5	0207100105SR	MA3329-157	-
	2	0207100014SR	MA3329-207	-
	2,5	0207100175SR	MA3329-257	-
	3	0207100021SR	MA3329-307	-
M8X1.0	1	0208100008SR	MA3329-108	LN9499 - 06 080
	1,5	0208100012SR	MA3329-158	LN9499 - 06 120
	2	0208100016SR	MA3329-208	LN9499 - 06 160
	2,5	0208100020SR	MA3329-258	-
	3	0208100024SR	MA3329-308	-
M8X1.25	1,0	0208125008SR	MA3329-109	LN9499 - 07 080
	1,5	0208125012SR	MA3329-159	LN9499 - 07 120
	2,0	0208125016SR	MA3329-209	LN9499 - 07 160
	2,5	0208125020SR	MA3329-259	LN9499 - 07 200
	3,0	0208125024SR	MA3329-309	LN9499 - 07 240
M10X1	1	0210100010SR	-	LN9499 - 08 100
	1,5	0210100015SR	-	LN9499 - 08 150
	2	0210100020SR	-	LN9499 - 08 200

/// METRIC - LOCKING SERIES - MA3329 / LN9499

THREAD SIZE	NOMINAL LENGHT (in Dia.)	TANGED		
		AMECOIL® No.	MA No.	LN No.
M10X1.25	1,0	0210125010SR	MA3329-110	LN9499 - 09 100
	1,5	0210125015SR	MA3329-160	LN9499 - 09 150
	2,0	0210125020SR	MA3329-210	LN9499 - 09 200
	2,5	0210125025SR	MA3329-260	-
	3,0	0210125030SR	MA3329-310	-
M10X1.5	1,0	0210150010SR	MA3329-111	LN9499 - 10 100
	1,5	0210150015SR	MA3329-161	LN9499 - 10 150
	2,0	0210150020SR	MA3329-211	LN9499 - 10 200
	2,5	0210150025SR	MA3329-261	LN9499 - 10 250
	3,0	0210150030SR	MA3329-311	LN9499 - 10 300
M12X1.25	1,0	0212125012SR	MA3329-112	LN9499 - 11 120
	1,5	0212125018SR	MA3329-162	LN9499 - 11 180
	2,0	0212125024SR	MA3329-212	LN9499 - 11 240
	2,5	0212125030SR	MA3329-262	-
	3,0	0212125036SR	MA3329-312	-
M12X1.5	1,0	0212150012SR	MA3329-113	LN9499 - 12 120
	1,5	0212150018SR	MA3329-163	LN9499 - 12 180
	2,0	0212150024SR	MA3329-213	LN9499 - 12 240
	2,5	0212150030SR	MA3329-263	LN9499 - 12 300
	3,0	0212150036SR	MA3329-313	LN9499 - 12 360
M12X1.75	1,0	0212175012SR	MA3329-114	-
	1,5	0212175018SR	MA3329-164	-
	2,0	0212175024SR	MA3329-214	-
	2,5	0212175030SR	MA3329-264	-
	3,0	0212175036SR	MA3329-314	-

Dry Lubrication : Add a « L » after « MS21209 » P/N and add a « D » after « NAS1130 » P/N and replace "02" by "62" for AMECOIL® P/N.

For Free running version : Aerospace standard base P/N is "MA3279" instead of "3329". Replace "02" by "01" for AMECOIL® P/N.

For Free running version : Aerospace standard base P/N is "LN9039" instead of "LN9499". Replace "02" by "01" for AMECOIL® P/N.

Other sizes available on request





RELIABILITY AND SAFETY MANUFACTURER



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ISO 9001
BUREAU VERITAS
Certification



ameca-sa.fr

EN 9100
BUREAU VERITAS
Certification

