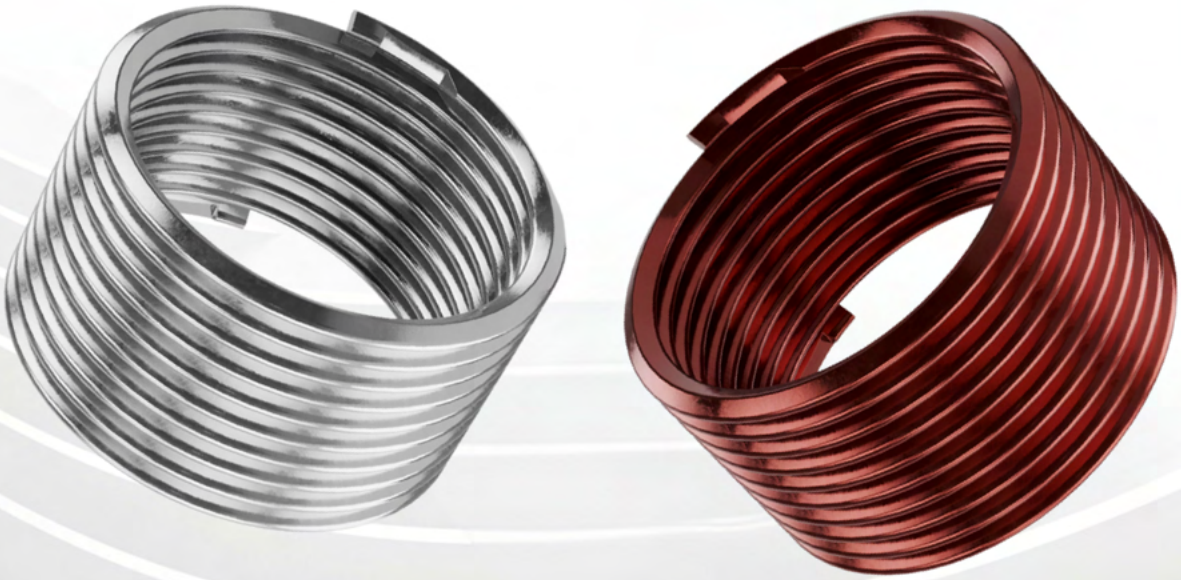
WIRE THREAD INSERT

TANGLESS®



AMECA

RELIABILITY AND SAFETY MANUFACTURER

For over 45 years, AMECA provides reliable, high-quality products to a wide range of customers in a variety of industries around the world: aerospace, defense, nuclear, railway, etc.
We are aware of product and quality standards and we work in close partnership with our customers to adapt our service and meet their expectations.

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.

FRENCH MANUFACTURER OF MECHANICAL FASTENING SOLUTIONS

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.

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

PROXIMITY

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

TANGLESS®

Produced in metric pitch from M2 to M12 and
in US pitch from 2-56 to 3/8

Standard versions
Material : Stainless steel 304 standard Code 01
Material : Stainless steel 304 dry-lube Code 61
Material : Stainless steel 304 silver-plated Code 58
Material : Phosphor Bronze standard Code 63
Material : Phosphor Bronze cadmium Code 03
Material : Inconel standard Code 67
Material : Inconel silver-plated Code 65
Material : Nimonic 90 upon request
Plating & Coating : Passivation upon request

FREE RUNNING

-	Reference	Lenght					Ø ext. when free		Nb of turns when free					Ø Drilling	
		1d	1.5d	2d	2.5d	3d	Min	Max	1d	1.5d	2d	2.5d	3d	Alu	Steel
METRIC															
M2x0.4	0102040...SE	2	3	4	-	-	2,5	2,7	3-1/4	5-1/2	7-3/4	-	-	2,1	2,1
M2.5x0.45	0125045...SE	2,5	3,8	5	6,3	7,5	3,2	3,35	3-3/8	5-3/4	8-1/8	10-1/2	12-3/4	2,55	2,65
M3x0.5	0103050...SE	3	4,5	6	7,5	9	3,8	3,99	3-3/4	6-3/8	8-7/8	11-3/8	13-7/8	3,15	3,2
M4x0.7	0104070...SE	4	6	8	10	12	5,05	5,28	3-5/8	6-1/8	8-5/8	11-1/8	13-5/8	4,2	4,25
M5x0.8	0105080...SE	5	7,5	10	12,5	15	6,2	6,5	4-1/8	6-7/8	9-5/8	12-3/8	15-1/8	5,2	5,3
M6x1	0106100...SE	6	9	12	15	18	7,4	7,78	4	6-3/4	9-1/2	12-1/8	14-7/8	6,25	6,3
M8x1.25	0108125...SE	8	12	16	20	24	9,8	10,18	4-1/2	7-3/8	10-1/4	13-1/4	16-1/8	8,3	8,4
M10x1.5	0110150...SE	10	15	20	25	30	11,95	12,5	4-7/8	8	11-1/8	14-1/4	17-3/8	10,5	10,5
M12x1.75	0112175...SE	12	16	24	30	36	14,3	15	5	8-1/4	11-1/2	14-5/8	17-7/8	12,5	12,5
UNC															
2-56	On demand	0,086	0,129	0,172	0,215	0,258	0,11	0,119	3	5-1/4	7-3/8	9-5/8	11-7/8	.0938"	.0960"
4-40	0110040...SE	0,112	0,168	0,224	0,28	0,336	0,144	0,159	2-3/4	4-3/4	6-3/4	8-7/8	10-7/8	.1200"	.1200"
6-32	0110060...SE	0,138	0,207	0,276	0,345	0,414	0,178	0,193	2-3/4	4-3/4	6-7/8	8-7/8	10-7/8	.1470"	.1495"
8-32	0110080...SE	0,164	0,246	0,328	0,41	0,492	0,205	0,22	3-1/2	6	8-3/8	10-3/4	13-1/4	.1730"	.1770"
10-24	0110100...SE	0,19	0,285	0,38	0,475	0,57	0,244	0,259	2-7/8	5	7-1/8	9-1/4	11-3/8	.2031"	.2055"
1/4-20	0110140...SE	0,25	0,375	0,5	0,625	0,75	0,31	0,33	3-3/8	5-3/4	8	10-3/8	13-1/8	.2660"	.2660"
5/16-18	0115160...SE	0,312	0,469	0,625	0,781	0,938	0,38	0,4	4	6-5/8	9-1/4	11-7/8	14-5/8	.3320"	.3320"
3/8-16	0110380...SE	0,375	0,562	0,75	0,938	1,125	0,452	0,472	4-3/8	7-1/4	10	12-7/8	15-3/4	.3970"	.3970"
UNF															
8-36	On demand	0,06	0,09	0,012	-	-	-	-	3	5-1/2	7-3/8	-	-	.0635"	.0635"
10-32	0120100...SE	0,19	0,285	0,38	0,475	0,57	0,236	0,256	4-1/8	6-7/8	9-1/2	12	14-7/8	.2010"	.2031"
1/4-28	0120140...SE	0,25	0,375	0,5	0,625	0,75	0,306	0,326	5	8-1/4	11-3/8	14-1/2	17-5/8	.2610"	.2638"
5/16-24	0125160...SE	0,312	0,469	0,625	0,781	0,938	0,38	0,4	5-1/2	8-7/8	12-1/4	15-5/8	19	.3281"	.3281"
3/8-24	0120380...SE	0,375	0,562	0,75	0,938	1,125	0,448	0,468	6-7/8	11	15	19-1/8	23-1/8	.3906"	.3906"

TANGLESS®

Produced in metric pitch from M2 to M12 and
in US pitch from 2-56 to 3/8

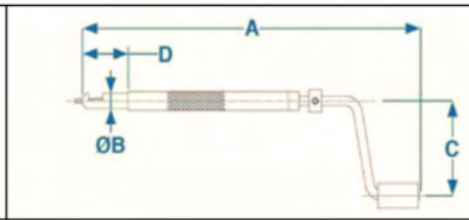
Screw lock versions
Material : Stainless steel 304 standard Code 02
Material : Stainless steel 304 dry-lube Code 62
Material : Stainless steel 304 silver-plated Code 59
Material : Phosphor Bronze standard Code 64
Material : Phosphor Bronze cadmium Code 04
Material : Inconel standard Code 68
Material : Inconel silver-plated Code 66
Material : Nimonic 90 upon request
Treatment : Passivation upon request

SCREW-LOCK

-	Reference	Lenght					Ø ext. when free		Nb of turns when free					Ø Drilling	
-		1d	1.5d	2d	2.5d	3d	Min	Max	1d	1.5d	2d	2.5d	3d	Alu	Steel
METRIC															
M2x0.4	-	2	3	4	-	-	2,5	2,7	3-1/4	5-1/2	7-3/4	-	-	2,1	2,1
M2.5x0.45	0225045...SE	2,5	3,8	5	6,3	7,5	3,2	3,35	3-3/8	5-3/4	8-1/8	10-1/2	12-3/4	2,55	2,65
M3x0.5	0203050...SE	3	4,5	6	7,5	9	3,8	3,99	3-3/4	6-3/8	8-7/8	11-3/8	13-7/8	3,15	3,2
M4x0.7	0204070...SE	4	6	8	10	12	5,05	5,28	3-5/8	3-1/4	8-5/8	11-1/8	13-5/8	4,2	4,25
M5x0.8	0205080...SE	5	7,5	10	12,5	15	6,2	6,5	4-1/8	6-7/8	9-5/8	12-3/8	15-1/8	5,2	5,3
M6x1	0206100...SE	6	9	12	15	18	7,4	7,78	4	6-3/4	9-1/2	12-1/8	14-7/8	6,25	6,3
M8x1.25	0208125...SE	8	12	16	20	24	9,8	10,18	4-1/2	7-3/8	10-1/4	13-1/4	16-1/8	8,3	8,4
M10x1.5	0210150...SE	10	15	20	25	30	11,95	12,5	4-7/8	8	11-1/8	14-1/4	17-3/8	10,5	10,5
M12x1.75	0212175...SE	12	16	24	30	36	14,3	15	5	8-1/4	11-1/2	14-5/8	17-7/8	12,5	12,5
UNC															
2-56	On demand	0,086	0,129	0,172	0,215	0,258	0,11	0,119	3	5-1/4	7-3/8	9-5/8	11-7/8	.0938"	.0960"
4-40	0210040...SE	0,112	0,168	0,224	0,28	0,336	0,144	0,159	2-3/4	4-3/4	6-3/4	8-7/8	10-7/8	.1200"	.1200"
6-32	0210060...SE	0,138	0,207	0,276	0,345	0,414	0,178	0,193	2-3/4	4-3/4	6-7/8	8-7/8	10-7/8	.1470"	.1495"
8-32	0210080...SE	0,164	0,246	0,328	0,41	0,492	0,205	0,22	3-1/2	6	8-3/8	10-3/4	13-1/4	.1730"	.1770"
10-24	0210100...SE	0,19	0,285	0,38	0,475	0,57	0,244	0,259	2-7/8	5	7-1/8	9-1/4	11-3/8	.2031"	.2055"
1/4-20	0210140...SE	0,25	0,375	0,5	0,625	0,75	0,31	0,33	3-3/8	5-3/4	8	10-3/8	13-1/8	.2660"	.2660"
5/16-18	0215160...SE	0,312	0,469	0,625	0,781	0,938	0,38	0,4	4	6-5/8	9-1/4	11-7/8	14-5/8	.3320"	.3320"
3/8-16	0210380...SE	0,375	0,562	0,75	0,938	1,125	0,452	0,472	4-3/8	7-1/4	10	12-7/8	15-3/4	.3970"	.3970"
UNF															
8-36	On demand	0,06	0,09	0,012	-	-	-	-	3	5-1/2	7-3/8	-	-	.0635"	.0635"
10-32	0220100...SE	0,19	0,285	0,38	0,475	0,57	0,236	0,256	4-1/8	6-7/8	9-1/2	12	14-7/8	.2010"	.2031"
1/4-28	0220140...SE	0,25	0,375	0,5	0,625	0,75	0,306	0,326	5	8-1/4	11-3/8	14-1/2	17-5/8	.2610"	.2638"
5/16-24	0225160...SE	0,312	0,469	0,625	0,781	0,938	0,38	0,4	5-1/2	8-7/8	12-1/4	15-5/8	19	.3281"	.3281"
3/8-24	0220380...SE	0,375	0,562	0,75	0,938	1,125	0,448	0,468	6-7/8	11	15	19-1/8	23-1/8	.3906"	.3906"

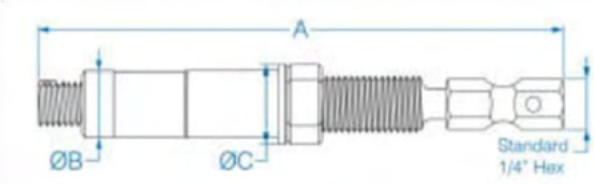
MANUAL SETTING TOOL

Hand fitting tool : the most reliable system to install small diameter.
It reduces the diameter of the insert thread to give it the final diameter of the thread.
It can be used for the installation of Tangless® thread inserts as well as the Tangless® self-locking model.

		A mm	B mm	C mm	D mm
METRIC					
M2	-	-	-	-	-
M2.5	0525045SE	190	9,65	58	25,4
M3	0503050SE	190	9,65	58	25
M4	0504070SE	190	9,65	58	25,4
M5	0505080SE	190	11,2	58	25,4
M6	0506100SE	202	11,2	58	32
M8	0508125SE	202	12,7	64	-
M10	0510150SE	202	17,5	75	-
M12	0512175SE	202	21	75	-
UNC					
2-56	0500256SE	190	9,65	58	25
4-40	0500440SE	190	9,65	58	25
6-32	0500632SE	190	9,65	58	25,4
8-32	0500832SE	190	9,65	58	25,4
10-24	0501032SE	190	11,2	58	25,4
1/4-20	0501420SE	202	12,7	64	32
5/16-18	0551618SE	202	16	75	-
3/8-16	0503816SE	202	17,5	75	-
UNF					
10-32	0501032SE	190	12,7	58	25
1/4-28	0501428SE	190	12,7	64	32
5/16-24	0551624SE	190	16	75	-
3/8-24	0503824SE	190	17,5	75	-

SPINDLE FOR MOTORISED EQUIPMENT

Drivers for standard or screw-lock (SL) thread inserts
Quick installation for small series, hand fitting or electric



	STANDARD DRIVER	SL DRIVER	A	B	C	D
METRIC						
M2	**3511102040SE**	-	69	6,3	9,5	122
M2.5	**3511125045SE**	3512125045SE	69	6	9,5	122
M3	**3511103050SE**	3512103050SE	69	7	9,5	122
M4	**3511104070SE**	3512104070SE	76	9	11	129
M5	**3511105080SE**	3512105080SE	79	10	11	132
M6	**3511106100SE**	3512106100SE	79	11	11	132
M8	**3511108125SE**	3512108125SE	99	13	13	152
M10	**3511110150SE**	3512110150SE	105	15,5	15,5	158
M12	**3511112175SE**	3512112175SE	115	17,5	17,5	168
UNC						
2-56	**3511100256SE**	3511100256SE	2.84"	0.24"	0.37"	5.16"
4-40	**3511100440SE**	3511100440SE	2.95"	0.24"	0.37"	5.33"
6-32	**3511100632SE**	3511100632SE	2.94"	0.38"	0.37"	5.36"
8-32	**3511100832SE**	3511100832SE	2.99"	0.32"	0.37"	5.6"
10-24	**3511101024SE**	3511101024SE	3.00"	0.38"	0.37"	5.41"
1/4-20	**3511101420SE**	3511101420SE	3.00"	0.37"	0.44"	5.49"
5/16-18	**3511151618SE**	3511151618SE		0.71"	0.71"	5.74"
3/8-16	**3511103816SE**	3511103816SE		0.71"	0.71"	5.76"
UNF						
10-32	**3511101032SE**	3512101032SE	3.11"	0.38"	0.44"	5.67"

AMECA

RELIABILITY AND SAFETY MANUFACTURER

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ISO 9001 BUREAU VERITAS Certification

ameca-sa.fr

EN 9100 BUREAU VERITAS Certification