

V-COIL

THREAD INSERT SYSTEM ■ ■ ■



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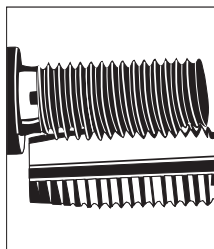
DRILLING

Clear the damaged thread with a Standard Drill. Up to M 12 (1/2") the KITS include the correct drill. To repair a spark plug thread no pre-drilling is necessary if using the special Spark Plug Tap. Please pay attention that for Fluteless Taps bigger holes are required.



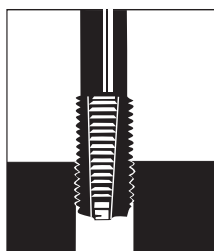
CHECK

Check that thread and pitch of the tap and the bolt match.



TAPPING

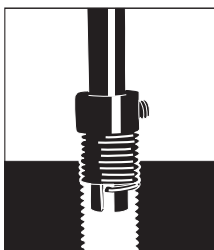
Use the special V-COIL-Taps for cutting the holding thread into the cleared hole. It is recommended to use a suitable cutting oil.



INSTALL THE INSERT

Place insert on Installation Tool and position the adjustable ring so that the insert tang is centred in the tang slot.

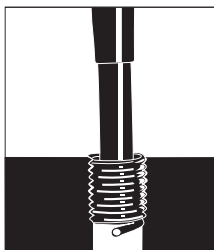
Wind the Insert in with a light downward pressure until a half turn below the surface. Don't work against thread direction as the tang could break.



TANG REMOVAL

After finishing lift the Installation Tool and use the Tang Break Tool to remove the tang. For bigger sizes and Spark Plug Taps use Long Nose Pliers to remove the tang.

Due to the narrow and exact tolerances the new thread normally is stronger than the original one.



TALADRADO

Eliminar la rosca dañada con la broca standard. El kit incluye la broca correcta hasta la M12. Para reparar la rosca no es necesario utilizar broca previa si utilizamos el macho especial "Spark Plug". Prestar atención a que para machos sin canal son necesarios agujeros mayores.

COMPROBACION

Comprobar que la rosca, la cabeza y el paso del macho sean los apropiados.

ROSCADO

Utilizar los machos especiales V-COIL para el roscado del agujero previamente taladrado. (Limpiado). Es recomendable la utilización de un lubricante apropiado.

INSTALACION DEL CASQUILLO

Colocar el casquillo en la herramienta de instalación y posicionar el tope ajustable para que el arrastre del casquillo a insertar este centrado en la ranura para el arrastre. Meter el casquillo girándolo con una suave presión hacia abajo hasta colocarlo medio giro por debajo de la superficie. No trabajar en contra de la dirección de roscado pues el arrastre se podría romper.

ELIMINACION DEL ARRASTRE

Después de terminar, sacar la herramienta de instalación y utilizar la herramienta de cortado del arrastre para eliminarlo. Para tamaños mayores utilizar alicates de punta larga para eliminar el arrastre.

Debido a las justas y exactas tolerancias, la nueva rosca es normalmente más fuerte que la original.

Application:

Thread Armour Plating. For material with low shear strenght eg. aluminum-alloys and magnesium alloys. Used in machine-building, electrical, automotive medical and aerospace industries.

Thread Repair of damaged or worn-out threads.

Recovery of rejected items.

Aplicaciones:

Roscas blindadas. Para materiales maleables como por ejemplo aleaciones de aluminio y aleaciones de magnesio. Utilizados en maquinaria de construcción, eléctrica, aparatos médicos e industria aeroespacial.

Repara roscas dañadas o gastadas.

Recuperación de artículos estropeados.

Wire Thread Inserts

Insertos Roscados

	Type S	Type SL	Type SP	Type LS
M / MF	6-7	11	12	12
UNC	8			
UNF	8			
UNx8	9			
BSW	10			
BSF	10			
G (BSP)	7			

Manufactured from high quality chromium nickel stainless steel, V-Coil inserts provide high strength internal threads that resist the effects of temperature and corrosion. Their unique design ensures superior threads whose compound performance cannot be reproduced by any other single fastening method.

Available in two basic forms, free running or screw locking, they are much lighter and less expensive than any other equivalent type of thread insert and because of their compact size they can generally be incorporated into existing designs where no previous provision has been made.

Free Running - Type "S"

Produced from precision profiled austenitic stainless steel wire wound into a helical spiral, V-Coil free running inserts have a spring like appearance. When installed, using any one of a variety of manual or automatic tools, they provide strong permanent internal threads which resist head and corrosion. Once fitted, their position is maintained by the action of radial pressure between their coils and the flanks of the tapped hole.

This pressure exists because their free diameter is larger, by a calculated amount, than their installed diameter.

Screw Locking - Type "SL"

Screw locking (or prevailing torque) inserts are of particular value in applications subject to the effects of cyclic vibration or impact. In addition to the benefits afforded by free running inserts, V-Coil screw locking inserts offer the additional security of prevailing locking torque. This is achieved by the action of one or more polygonal grip coils positioned within the insert's length, which exert radial pressure on the male thread. Each grip coil consists of a number of tangential locking chords which protrude inside the minor diameter of the normal free running coils. As the male thread passes through these grip coils, the locking flats are displaced thus exerting radial pressure or prevailing torque on the male thread. On removal of the male thread, the locking coils relax to their original form permitting repeated assembly whilst retaining a measurable level of prevailing torque.

Note: It is recommended that only close fit plated or lubricated bolts or screws are used with screw locking inserts.

Fabricados a partir de Acero Inoxidable CrNi de gran calidad, los insertos V-Coil garantizan roscas internas resistentes a los efectos de la temperatura y de la corrosión.

Su diseño único asegura excelentes roscas cuyas características generales no pueden ser superadas por ningún otro método de fijación.

Disponibles en dos modelos, "Standard" o "Autoblocante", son mucho más ligeros y económicos que cualquier otro tipo de inserto roscado equivalente y debido a su tamaño compacto generalmente pueden ser incorporados a cualquier diseño existente donde no se ha realizado ningún tipo de preparación previa.

Standard (libre) - "S"

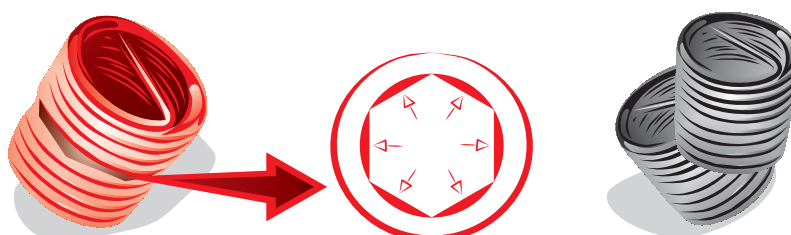
Fabricados a partir de un alambre de Acero Inoxidable austenítico perfilado de precisión, los insertos V-Coil Standard - Free Running tienen forma de muelle. Una vez instalados, ya sea utilizando herramientas manuales o automáticas, suministran una fuerte rosca interna permanente, resistente al calor y la corrosión. Una vez fijados, su posición se mantiene por la acción de presiones radiales entre las espirales y los flancos del agujero roscado.

Esta presión se genera debido a que el diámetro libre es ligeramente superior al diámetro instalado. Este incremento es calculado previamente.

Autoblocante - "SL"

Los insertos autofrenantes están especialmente indicados en aplicaciones expuestas a los efectos de vibraciones cíclicas o impactos. Además de las ventajas proporcionadas por los insertos Standard, los insertos V-Coil autofrenantes ofrecen una seguridad adicional por su sistema de frenado interno. Este se consigue gracias a la acción de una o más espiras poligonales situadas a lo largo del inserto, las cuales ejercen una presión radial sobre los flancos del filete. Cada vuelta de agarre consta de una serie de hilos tangenciales que sobrepasan por dentro el diámetro menor de los insertos Standard. Como al roscar el perno roscado/tornillo pasa a través de los agarres del inserto, las superficies de agarre se desplazan ejerciendo una presión radial sobre la rosca exterior. Al retirar el perno roscado/tornillo las vueltas de agarre adoptan de nuevo su forma original permitiendo así volver a enroscar el perno roscado/tornillo manteniendo un grado de presión radial medible.

Nota: Se recomienda que solo sean utilizados pernos roscados/tornillos con recubrimientos o lubricados, en combinación con insertos autoblocantes.



Wire Thread Inserts - Type "S"

"free running", stainless steel

Insertos Roscados - "S"

standard (libre), aceros inoxidable



DIN 8140

Tolerance ISO 2 (6H)

Nominal Diameter D		1,0 D Art.-No. €/Piece	1,5 D Art.-No. €/Piece	2,0 D Art.-No. €/Piece	2,5 D Art.-No. €/Piece	3,0 D Art.-No. €/Piece
M						
M 2 x 0.4	100	07202 0,47	07302 0,61	07402 0,71	07502 0,80	07602 1,00
M 2.2 x 0.45	100	07203 0,47	07303 0,61	07403 0,71	07503 0,80	07603 1,00
M 2.5 x 0.45	100	07204 0,14	07304 0,15	07404 0,16	07504 0,19	07604 0,23
M 3 x 0.5	100	07205 0,14	07305 0,15	07405 0,16	07505 0,19	07605 0,23
M 3.5 x 0.6	100	07206 0,16	07306 0,17	07406 0,18	07506 0,21	07606 0,25
M 4 x 0.7	100	07207 0,14	07307 0,15	07407 0,16	07507 0,19	07607 0,21
M 5 x 0.8	100	07208 0,16	07308 0,13	07408 0,18	07508 0,22	07608 0,26
M 6 x 1.0	100	07209 0,17	07309 0,14	07409 0,21	07509 0,25	07609 0,31
M 7 x 1.0	100	07210 0,19	07310 0,23	07410 0,25	07510 0,30	07610 0,36
M 8 x 1.25	100	07211 0,18	07311 0,18	07411 0,25	07511 0,30	07611 0,36
M 8 x 1.0	100	07212 0,21	07312 0,21	07412 0,27	07512 0,32	07612 0,39
M 9 x 1.25	100	07213 0,25	07313 0,34	07413 0,34	07513 0,37	07613 0,44
M 10 x 1.5	100	07215 0,23	07315 0,25	07415 0,29	07515 0,35	07615 0,42
M 10 x 1.25	100	07216 0,23	07316 0,25	07416 0,29	07516 0,35	07616 0,42
M 10 x 1.0	100	07217 0,23	07317 0,25	07417 0,29	07517 0,35	07617 0,42
M 11 x 1.5	100	07219 0,38	07319 0,43	07419 0,46	07519 0,56	07619 0,63
M 12 x 1.75	100	07221 0,34	07321 0,39	07421 0,44	07521 0,52	07621 0,63
M 12 x 1.5	100	07222 0,34	07322 0,39	07422 0,44	07522 0,52	07622 0,63
M 12 x 1.25	100	07223 0,34	07323 0,39	07423 0,44	07523 0,52	07623 0,63
M 12 x 1.0	100	07224 0,34	07324 0,39	07424 0,44	07524 0,52	07624 0,63
M 14 x 2.0	50	07225 0,48	07325 0,55	07425 0,57	07525 0,69	07625 0,84
M 14 x 1.5	50	07226 0,48	07326 0,55	07426 0,57	07526 0,69	07626 0,84
M 14 x 1.25	50	07227 0,48	07327 0,55	07427 0,57	07527 0,69	07627 0,84
M 14 x 1.0	50	07231 0,58	07331 0,60	07431 0,69	07531 0,84	07631 1,00
M 16 x 2.0	50	07234 0,65	07334 0,68	07434 0,84	07534 0,92	07634 1,00
M 16 x 1.5	50	07235 0,65	07335 0,68	07435 0,84	07535 0,92	07635 1,00
M 18 x 2.5	25	07236 0,95	07336 1,10	07436 1,50	07536 1,70	07636 2,00
M 18 x 2.0	25	07237 0,95	07337 1,10	07437 1,50	07537 1,70	07637 2,00
M 18 x 1.5	25	07238 0,95	07338 1,10	07438 1,50	07538 1,70	07638 2,00
M 20 x 2.5	25	07239 1,10	07339 1,40	07439 1,80	07539 2,00	07639 2,30
M 20 x 2.0	25	07240 1,10	07340 1,40	07440 1,80	07540 2,00	07640 2,30
M 20 x 1.5	25	07241 1,10	07341 1,40	07441 1,80	07541 2,00	07641 2,30
M 22 x 2.5	10	07242 1,20	07342 1,50	07442 1,90	07542 2,20	07642 2,50
M 22 x 2.0	10	07243 1,20	07343 1,50	07443 1,90	07543 2,20	07643 2,50
M 22 x 1.5	10	07244 1,20	07344 1,50	07444 1,90	07544 2,20	07644 2,50
M 24 x 3.0	10	07245 1,50	07345 1,60	07445 2,00	07545 2,40	07645 2,80
M 24 x 2.0	10	07246 1,50	07346 1,60	07446 2,00	07546 2,40	07646 2,80
M 24 x 1.5	10	07247 1,50	07347 1,60	07447 2,00	07547 2,40	07647 2,80

Wire Thread Inserts for Spark Plug

Insertos Roscados para roscas de las bujías

Nominal Diameter D		8,40 mm Art.-No. €/Piece	12,40 mm Art.-No. €/Piece	16,40 mm Art.-No. €/Piece
M 14 x 1.25	50	07128 0,55	07228 0,55	07328 0,55

Wire Thread Inserts - Type "S"

"free running", stainless steel

Insertos Roscados - "S"

standard (libre), aceros inoxidable



DIN 8140

Tolerance 2B

Nominal Diameter D		1,0 D	1,5 D	2,0 D	2,5 D	3,0 D
		Art.-No. €/Piece	Art.-No. €/Piece	Art.-No. €/Piece	Art.-No. €/Piece	Art.-No. €/Piece

UNC

No. 2 x 56	100	08200	0,47	08300	0,55	08400	0,71	08500	0,80	08600	1,00
No. 4 x 40	100	08201	0,18	08301	0,17	08401	0,18	08501	0,21	08601	0,25
No. 5 x 40	100	08202	0,19	08302	0,20	08402	0,21	08502	0,25	08602	0,30
No. 6 x 32	100	08203	0,14	08303	0,16	08403	0,17	08503	0,19	08603	0,22
No. 8 x 32	100	08204	0,14	08304	0,16	08404	0,17	08504	0,19	08604	0,22
No. 10 x 24	100	08205	0,18	08305	0,18	08405	0,20	08505	0,24	08605	0,29
No. 12 x 24	100	08206	0,19	08306	0,21	08406	0,23	08506	0,28	08606	0,34
1/4 x 20	100	08207	0,19	08307	0,21	08407	0,23	08507	0,28	08607	0,34
5/16 x 18	100	08208	0,25	08308	0,30	08408	0,32	08508	0,38	08608	0,46
3/8 x 16	100	08209	0,39	08309	0,39	08409	0,51	08509	0,58	08609	0,69
7/16 x 14	100	08210	0,43	08310	0,52	08410	0,59	08510	0,70	08610	0,86
1/2 x 13	100	08211	0,46	08311	0,52	08411	0,59	08511	0,70	08611	0,86
9/16 x 12	50	08212	1,50	08312	2,00	08412	2,57	08512	2,94	08612	3,55
5/8 x 11	50	08214	1,36	08314	1,82	08414	2,26	08514	2,71	08614	3,23
3/4 x 10	25	08216	1,58	08316	2,15	08416	2,68	08516	3,18	08616	3,81
7/8 x 9	10	08218	2,10	08318	3,15	08418	4,00	08518	4,73	08618	5,74
1" x 8	10	08219	2,10	08319	3,15	08419	4,00	08519	4,73	08619	5,74
1.1/8 x 7	5			08320	5,10						
1.1/4 x 7	5			08321	5,60						
1.3/8 x 6	5			08322	6,20						
1.1/2 x 6	5			08323	7,20						

UNF

No. 4 x 48	100	08290	0,42	08390	0,48	08490	0,64	08590	0,71	08690	0,90
No. 6 x 40	100	08291	0,42	08391	0,48	08491	0,64	08591	0,71	08691	0,90
No. 8 x 36	100	08292	0,42	08392	0,48	08492	0,64	08592	0,71	08692	0,90
No. 10 x 32	100	08293	0,18	08393	0,19	08493	0,23	08593	0,28	08693	0,34
1/4 x 28	100	08225	0,18	08325	0,19	08425	0,23	08525	0,28	08625	0,34
5/16 x 24	100	08226	0,25	08326	0,27	08426	0,32	08526	0,38	08626	0,46
3/8 x 24	100	08227	0,37	08327	0,39	08427	0,47	08527	0,57	08627	0,69
7/16 x 20	100	08228	0,46	08328	0,52	08428	0,59	08528	0,70	08628	0,86
1/2 x 20	100	08229	0,46	08329	0,52	08429	0,59	08529	0,70	08629	0,86
9/16 x 18	50	08230	1,09	08330	1,09	08430	1,31	08530	1,50	08630	1,84
5/8 x 18	50	08231	1,09	08331	1,09	08431	1,31	08531	1,50	08631	1,84
3/4 x 16	25	08233	1,80	08333	2,50	08433	3,02	08533	3,66	08633	4,39
7/8 x 14	10	08235	2,44	08335	3,60	08435	4,58	08535	5,26	08635	6,31
1" x 12	10	08237	2,44	08337	3,60	08437	4,58	08537	5,26	08637	6,31
1.1/8 x 12	5			08396	5,10						
1.1/4 x 12	5			08397	5,60						
1.3/8 x 12	5			08398	6,20						
1.1/2 x 12	5			08399	7,20						

Wire Thread Inserts - Type "S"

"free running", stainless steel

Insertos Roscados - "S"

standard (libre), aceros inoxidable



DIN 8140

Nominal Diameter D		1,0 D	1,5 D	2,0 D	2,5 D	3,0 D
		Art.-No. €/Piece	Art.-No. €/Piece	Art.-No. €/Piece	Art.-No. €/Piece	Art.-No. €/Piece

BSW

1/8 x 40	100	08241	0,55	08341	0,64	08441	1,00	08541	1,13	08641	1,21
3/16 x 24	100	08242	0,55	08342	0,64	08442	1,00	08542	1,13	08642	1,21
1/4 x 20	100	08243	0,24	08343	0,26	08443	0,30	08543	0,40	08643	0,43
5/16 x 18	100	08244	0,28	08344	0,32	08444	0,35	08544	0,42	08644	0,51
3/8 x 16	100	08245	0,49	08345	0,53	08445	0,62	08545	0,73	08645	0,88
7/16 x 14	100	08246	0,60	08346	0,66	08446	0,76	08546	0,90	08646	1,10
1/2 x 12	100	08247	0,60	08347	0,66	08447	0,76	08547	0,90	08647	1,10
9/16 x 12	50	08248	1,50	08348	2,10	08448	2,47	08548	2,94	08648	3,60
5/8 x 11	50	08249	1,50	08349	2,10	08449	2,47	08549	2,94	08649	3,60
3/4 x 10	25	08251	1,94	08351	2,50	08451	3,05	08551	3,66	08651	4,39
7/8 x 9	10	08253	2,50	08353	3,50	08453	4,37	08553	5,26	08653	6,31
1" x 8	10	08255	2,70	08355	4,00	08455	4,37	08555	5,26	08655	6,31

BSF

3/16 x 32	100	08262	0,55	08362	0,64	08462	1,00	08562	1,13	08662	1,21
1/4 x 26	100	08263	0,24	08363	0,26	08463	0,30	08563	0,36	08663	0,43
5/16 x 22	100	08265	0,26	08365	0,32	08465	0,35	08565	0,42	08665	0,51
3/8 x 20	100	08266	0,49	08366	0,53	08466	0,62	08566	0,73	08666	0,88
7/16 x 18	100	08267	0,60	08367	0,66	08467	0,76	08567	0,90	08667	1,10
1/2 x 16	100	08268	0,60	08368	0,66	08468	0,76	08568	0,90	08668	1,10
9/16 x 16	50	08269	1,50	08369	2,00	08469	2,47	08569	2,94	08669	3,60
5/8 x 14	50	08270	1,50	08370	2,00	08470	2,47	08570	2,94	08670	3,60
3/4 x 12	25	08272	1,94	08372	2,50	08472	3,05	08572	3,66	08672	4,39
7/8 x 11	10	08274	2,50	08374	3,50	08474	4,37	08574	5,26	08674	6,31
1" x 10	10	08276	2,50	08376	3,50	08476	4,37	08576	5,26	08676	6,31

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Solid Thread Inserts SP

stainless steel

Insertos Sólidos Roscados SP

aceros inoxidable



Nominal Diameter D	R		Art.-No.	Price €
M 14 x1.25	9.5 mm	10	19136	3,00
M 14 x1.25	11.2 mm	10	19137	3,10
M 14 x1.25	12.7 mm	10	19138	3,10
M 14 x1.25	17.5 mm	10	19139	3,30

Solid Thread Inserts LS

stainless steel

Insertos Sólidos Roscados LS

aceros inoxidable



Nominal Diameter D	R		Art.-No.	Price €
M 18 x1.5	9.0 mm	10	19147	8,90

Wire Thread Inserts LS

INCONEL X750

Insertos Roscados LS

INCONEL X750



Nominal Diameter D	R		Art.-No.	Price €
M 18 x1.5	9.0 mm	10	19149	8,00

Thread Repair Kits

Kits Reparadores de Roscado

	V-COIL	V-COIL rapid	V-COIL Automotive
M / MF	15-17	14	23-26
UNC	18		
UNF	19		
UNx8	20		
BSW	21		
BSF	21		
G (BSP)	22		



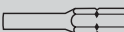
Thread Repair Kits V-COIL rapid

Wire Thread Inserts 1,5 D

Kits Reparadores de Roscado V-COIL rapid

Insertos Roscados 1,5 D



						Art.-No.	Price €
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M

M 2.5 x 0.45	2.6 mm	08090	07090	1/4"	10	04303	20,60
M 3 x 0.5	3.2 mm	08091	07091	1/4"	10	04305	20,60
M 4 x 0.7	4.2 mm	08092	07092	1/4"	10	04307	20,60
M 5 x 0.8	5.2 mm	08093	07093	1/4"	10	04309	21,40
M 6 x 1.0	6.3 mm	08094	07094	1/4"	10	04310	23,10
M 8 x 1.25	8.3 mm	08095	07095	1/4"	10	04312	29,40
M 10 x 1.5	10.4 mm	08096	07096	1/4"	10	04316	31,40
M 12 x 1.75	12.4 mm	08097	07097	1/4"	6	04321	35,20



Thread Repair Kits

Wire Thread Inserts 1,5 D

Kits Reparadores de Roscado

Insertos Roscados 1,5 D



    						Art.-No.	Price €
M							
M 2 x 0.4	2.1 mm	No. 2	No. 2	20		04001	20,60
M 2.5 x 0.45	2.6 mm	No. 3	No. 3	20		04003	20,60
M 3 x 0.5	3.2 mm	No. 4	No. 4	20		04005	20,60
M 3.5 x 0.6	3.7 mm	No. 5	No. 5	20		04006	20,60
M 4 x 0.7	4.2 mm	No. 6	No. 6	20		04007	20,60
M 5 x 0.8	5.2 mm	No. 8	No. 8	20		04009	21,40
M 6 x 1.0	6.3 mm	No. 9	No. 9	20		04010	23,10
M 7 x 1.0	7.3 mm	No. 10	No. 11	20		04011	29,40
M 8 x 1.25	8.3 mm	No. 11	No. 11	20		04012	29,40
M 8 x 1.0	8.3 mm	No. 11	No. 11	20		04013	29,40
M 9 x 1.25	9.3 mm	No. 12	No. 12	15		04014	32,60
M 10 x 1.5	10.4 mm	No. 13	No. 13	15		04016	31,40
M 10 x 1.25	10.3 mm	No. 13	No. 13	15		04017	31,40
M 10 x 1.0	10.3 mm	No. 13	No. 13	15		04018	31,40
M 11 x 1.5	11.4 mm	No. 14	No. 14	10		04019	35,20
M 12 x 1.75	12.4 mm	No. 15	No. 15	10		04021	35,20
M 12 x 1.5	12.4 mm	No. 15	No. 15	10		04022	35,20
M 12 x 1.25	12.3 mm	No. 15	No. 15	10		04023	35,20
M 12 x 1.0	12.3 mm	No. 15	No. 15	10		04024	35,20
M 14 x 2.0		No. 16		10		04028	39,40
M 14 x 1.5		No. 16		10		04029	39,40
M 14 x 1.25		No. 17		10		04030	39,40
M 14 x 1.0		No. 17		10		04031	39,40
M 16 x 2.0		No. 18		10		04032	47,70
M 16 x 1.5		No. 18		10		04033	47,70
M 18 x 2.5		No. 20		5		04034	56,60
M 18 x 2.0		No. 20		5		04035	56,60
M 18 x 1.5		No. 20		5		04036	56,60
M 20 x 2.5		No. 21		5		04037	61,30
M 20 x 2.0		No. 21		5		04038	61,30
M 20 x 1.5		No. 21		5		04039	61,30
M 22 x 2.5		No. 22		5		04040	70,60
M 22 x 2.0		No. 22		5		04041	70,60
M 22 x 1.5		No. 22		5		04042	70,60
M 24 x 3.0		No. 23		5		04043	81,40
M 24 x 2.0		No. 23		5		04044	81,40
M 24 x 1.5		No. 23		5		04045	81,40

Thread Repair Kits

STI-taps, sets of 2 pcs.

Inserting Tool with Hexagon Drive

Wire Thread Inserts 1,5 D

Kits Reparadores de Roscado

Machos Mano STI, en juegos de 2 piezas

Herramientas para insertar con

amarre hexagonal

Insertos Roscados 1,5 D



Size					Art.-No.	Price €
M						
M 26 x 1.5	03049	08024	07349	10	04049	250,00
M 27 x 3.0	03050	08025	07350	10	04050	250,00
M 27 x 2.0	03051	08026	07351	10	04051	250,00
M 27 x 1.5	03052	08027	07352	10	04052	250,00
M 28 x 1.5	03053	08028	07353	10	04053	250,00
M 30 x 3.5	03054	08029	07354	10	04054	295,00
M 30 x 2.0	03055	08030	07355	10	04055	295,00
M 30 x 1.5	03056	08031	07356	10	04056	295,00
M 33 x 3.5	03057	08032	07357	10	04057	305,00
M 33 x 2.0	03058	08033	07358	10	04058	305,00
M 36 x 4.0	03060	08034	07360	10	04060	325,00
M 36 x 3.0	03061	08035	07361	10	04061	325,00
M 36 x 2.0	03062	08036	07362	10	04062	325,00
M 36 x 1.5	03063	08037	07363	10	04063	325,00

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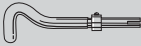
Thread Repair Kits

Wire Thread Inserts 1,5 D

Kits Reparadores de Roscado

Insertos Roscados 1,5 D



					Art.-No.	Price €
						
UNC						
No. 2 x 56	2.4 mm	No. 2	No. 2	20	04100	30,00
No. 4 x 40	3.1 mm	No. 4	No. 4	20	04101	27,10
No. 5 x 40	3.4 mm	No. 4	No. 4	20	04106	27,10
No. 6 x 32	3.8 mm	No. 5	No. 5	20	04102	27,10
No. 8 x 32	4.4 mm	No. 6	No. 6	20	04103	27,10
No. 10 x 24	5.2 mm	No. 7	No. 6	20	04104	27,10
No. 12 x 24	5.8 mm	No. 8	No. 8	20	04105	27,10
1/4 x 20	6.7 mm	No. 9	No. 9	20	04107	24,40
5/16 x 18	8.3 mm	No. 10	No. 10	20	04108	29,90
3/8 x 16	9.9 mm	No. 12	No. 12	15	04109	31,90
7/16 x 14	11.6 mm	No. 14	No. 14	10	04110	35,80
1/2 x 13	13.0 mm	No. 15	No. 15	10	04111	39,30
9/16 x 12		No. 16		10	04112	52,50
5/8 x 11		No. 18		10	04113	52,50
3/4 x 10		No. 20		5	04114	67,00
7/8 x 9		No. 22		5	04115	81,40
1" x 8		No. 23		4	04116	77,60

Thread Repair Kits

STI-taps, sets of 2 pcs.

Inserting Tool with Hexagon Drive

Wire Thread Inserts 1,5 D

Kits Reparadores de Roscado

Machos Mano STI, en juegos de 2 piezas

Herramientas para insertar con amarre hexagonal

Insertos Roscados 1,5 D



Size					Art.-No.	Price €
						
UNC						
1.1/8" x 7	03117	08050	08320	10	04117	272,00
1.1/4" x 7	03118	08051	08321	10	04118	300,00
1.3/8" x 6	03119	08052	08322	10	04119	336,00
1.1/2" x 6	03120	08053	08323	10	04135	402,00

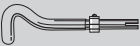
Thread Repair Kits

Wire Thread Inserts 1,5 D

Kits Reparadores de Roscado

Insertos Roscados 1,5 D



    					Art.-No.	Price €
UNF						
No. 4 x 48	3.0 mm	No. 4	No. 4	20	04120	27,10
No. 6 x 40	3.8 mm	No. 5	No. 5	20	04121	27,10
No. 8 x 36	4.4 mm	No. 6	No. 6	20	04122	27,10
No. 10 x 32	5.1 mm	No. 8	No. 8	20	04123	27,10
1/4 x 28	6.7 mm	No. 9	No. 9	20	04125	24,40
5/16 x 24	8.3 mm	No. 11	No. 11	20	04126	29,90
3/8 x 24	9.8 mm	No. 13	No. 13	15	04127	31,90
7/16 x 20	11.5 mm	No. 14	No. 14	10	04128	35,80
1/2 x 20	13.0 mm	No. 15	No. 15	10	04129	39,30
9/16 x 18		No. 16		10	04130	52,50
5/8 x 18		No. 18		10	04131	52,50
3/4 x 16		No. 21		5	04132	67,00
7/8 x 14		No. 22		5	04133	81,40
1" x 12		No. 23		4	04134	77,60

Thread Repair Kits

STI-taps, sets of 2 pcs.

Inserting Tool with Hexagon Drive

Wire Thread Inserts 1,5 D

Kits Reparadores de Roscado

Machos Mano STI, en juegos de 2 piezas

Herramientas para insertar con amarre hexagonal

Insertos Roscados 1,5 D



Size					Art.-No.	Price €
UNF						
1.1/8" x 12	03166	08060	08396	10	04136	272,00
1.1/4" x 12	03167	08061	08397	10	04137	300,00
1.3/8" x 12	03168	08062	08398	10	04138	336,00
1.1/2" x 12	03169	08063	08399	10	04139	402,00

Thread Repair Kits

STI-taps, sets of 2 pcs.

Inserting Tool with Hexagon Drive

Wire Thread Inserts 1,5 D

Kits Reparadores de Roscado

Machos Mano STI, en juegos de 2 piezas

Herramientas para insertar con amarre hexagonal

Insertos Roscados 1,5 D

[illegible]

Thread Repair Kits

for spark plug threads

Wire Thread Inserts

STI-Spark Plug Taps with Pilot Nose

Kits Reparadores de Roscado

para roscas de las bujías

Insertos Roscados standard

Machos Combinados STI



						Art.-No.	Price €
M 6 x 1.0	No. 9	10				04090	34,00
M 8 x 1.25	No. 11	10				04091	34,00
M 10 x 1.5	No. 13	10				04092	36,00
M 10 x 1.25	No. 13	10				04093	36,00
M 10 x 1.0	No. 13	10				04094	36,00
M 12 x 1.25	No. 15	10				04095	42,00
M 14 x 1.25	No. 17		5	5	5	04096	48,50
M 18 x 1.5	No. 20	5				04097	59,00

Thread Repair Kits

for spark plug thread M 14x1,25

HexTap SP

Solid Thread Inserts SP

Kits Reparadores de Roscado

para roscas de las bujías M 14x1,25

HexTap SP

Insertos Sólidos Roscados SP



						Art.-No.	Price €
16-XL	M 16 x 1.25				16	19111	50,00
16-2M	M 16 x 1.25	5		11		19112	50,00
16-4	M 16 x 1.25	4	4	4	4	19113	50,00
16-2L	M 16 x 1.25			8	8	19114	50,00
10-S	M 16 x 1.25	10				19115	40,00
10-M	M 16 x 1.25		10			19116	40,00
10-L	M 16 x 1.25			10		19117	40,00
10-XL	M 16 x 1.25				10	19118	40,00
10-2L	M 16 x 1.25			5	5	19119	40,00



Oil Sump Repair Kits

for oil drain screw threads

HexTap OS, screws and retainer ring

Kits Reparadores Carter de Aceite

para roscas de tornillo de purga aceite

HexTap OS, tornillos y anillo de junta



				Art.-No.	Price €
M 13 x 1.5	15	15		19125	40,00
M 15 x 1.5	15	15		19126	40,00
M 17 x 1.5	15	15		19127	40,00
M 20 x 1.5	5	10	10	19128	40,00
M 24 x 1.5	5	10	10	19129	40,00



Thread Repair Kits

for oxygen sensor thread M 18x1,5
HexTap LS and LSN
Wire Inserts LS Inconel X750 (19149),
Solid Inserts LS (19147)

Kits Reparadores de Roscado

para roscas del sensor de oxígeno M 18x1,5
HexTap LS y LSN
Insertos LS Inconel X750 (19149),
Insertos Sólidos LS (19147)

[illegible]

Thread Repair Workshop Kits

**Kits Reparadores de Roscado
para Taller**

	M	BSW/BSF	UNC/UNF
V-COIL	29	30	30
V-COIL rapid	28		
with Machine Inserting Tool con Herramientas para Insertar Máquina	31		
V-COIL Automotive	32		



Thread Repair Workshop Kits V-COIL rapid

Wire Thread Inserts 1,5 D

Kits Reparadores de Roscado para Taller V-COIL rapid

Insertos Roscados 1,5 D



     						Art.-No.	Price €
M 5 - M 12						04381	149,50
M 5 x 0.8	5.2 mm	08093	07093	1/4"	10		
M 6 x 1.0	6.3 mm	08094	07094	1/4"	10		
M 8 x 1.25	8.3 mm	08095	07095	1/4"	10		
M 10 x 1.5	10.4 mm	08096	07096	1/4"	10		
M 12 x 1.75	12.4 mm	08097	07097	1/4"	10		
M 6 - M 10						04385	95,00
M 6 x 1.0	6.3 mm	08094	07094	1/4"	10		
M 8 x 1.25	8.3 mm	08095	07095	1/4"	10		
M 10 x 1.5	10.4 mm	08096	07096	1/4"	10		



Thread Repair Workshop Kits

Kits Reparadores de Roscado para Taller



    					Art.-No.	Price €
M 5 - M 12					04081	149,50
M 5 x 0.8	5.2 mm	No. 8	No. 8	25		
M 6 x 1.0	6.3 mm	No. 9	No. 9	25		
M 8 x 1.25	8.3 mm	No. 11	No. 11	25		
M 10 x 1.5	10.4 mm	No. 13	No. 13	25		
M 12 x 1.75	12.4 mm	No. 15	No. 15	10		
M 6 - M 14 x 1.25 / NP					04082	164,80
M 6 x 1.0	6.3 mm	No. 9	No. 9	25		
M 8 x 1.25	8.3 mm	No. 11	No. 11	25		
M 10 x 1.5	10.4 mm	No. 13	No. 13	25		
M 12 x 1.75	12.4 mm	No. 15	No. 15	10		
M 14 x 1.25		No. 17		10		
M 6 - M 14 x 1.25 / PT (*Spark Plug / Machos Spark Plug)					04083	170,00
M 6 x 1.0	6.3 mm	No. 9	No. 9	25		
M 8 x 1.25	8.3 mm	No. 11	No. 11	25		
M 10 x 1.5	10.4 mm	No. 13	No. 13	25		
M 12 x 1.75	12.4 mm	No. 15	No. 15	10		
M 14 x 1.25*		No. 17		10		
M 6 - M 10					04085	95,00
M 6 x 1.0	6.3 mm	No. 9	No. 9	25		
M 8 x 1.25	8.3 mm	No. 11	No. 11	25		
M 10 x 1.5	10.4 mm	No. 13	No. 13	25		

Thread Repair Workshop Kits

Kits Reparadores de Roscado para Taller



    						Art.-No.	Price €
UNC 1/4 - 1/2"						04184	185,40
UNC 1/4 x 20	6.7 mm	No. 9	No. 9	25			
UNC 5/16 x 18	8.3 mm	No. 10	No. 11	25			
UNC 3/8 x 16	9.9 mm	No. 12	No. 12	25			
UNC 7/16 x 14	11.6 mm	No. 14	No. 14	10			
UNC 1/2 x 13	13.0 mm	No. 15	No. 15	10			
UNF 1/4 - 1/2"						04185	185,40
UNF 1/4 x 28	6.7 mm	No. 9	No. 9	25			
UNF 5/16 x 24	8.3 mm	No. 11	No. 11	25			
UNF 3/8 x 24	9.8 mm	No. 13	No. 13	25			
UNF 7/16 x 20	11.5 mm	No. 14	No. 14	10			
UNF 1/2 x 20	13.0 mm	No. 15	No. 15	10			
BSW 1/4 - 1/2"						04186	185,40
BSW 1/4 x 20	6.7 mm	No. 9	No. 9	25			
BSW 5/16 x 18	8.3 mm	No. 10	No. 11	25			
BSW 3/8 x 16	9.9 mm	No. 12	No. 12	25			
BSW 7/16 x 14	11.5 mm	No. 14	No. 14	10			
BSW 1/2 x 12	13.0 mm	No. 15	No. 15	10			
BSF 1/4 - 1/2"						04187	185,40
BSF 1/4 x 26	6.6 mm	No. 9	No. 9	25			
BSF 5/16 x 22	8.3 mm	No. 11	No. 11	25			
BSF 3/8 x 20	9.9 mm	No. 12	No. 12	25			
BSF 7/16 x 18	11.5 mm	No. 14	No. 14	10			
BSF 1/2 x 16	13.0 mm	No. 15	No. 15	10			

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Oil Sump Repair Workshop Kits

for oil drain screw threads

HexTap OS, screws and retainer ring

Kits Reparadores Carter de Aceite para Taller

para roscas de tornillo de purga aceite

HexTap OS, tornillos y anillo de junta



				Art.-No.	Price €
OS 20				19120	65,00
M 13 x 1.5	5	10			
M 15 x 1.5	5	10			
M 17 x 1.5	5	10			
OS 21				19121	65,00
M 20 x 1.5	5	10	10		
M 24 x 1.5	5	10	10		
OS 22				19122	110,00
M 13 x 1.5	3	3			
M 15 x 1.5	3	3			
M 17 x 1.5	3	3			
M 20 x 1.5	3	3	3		
M 24 x 1.5	3	3	3		



Inserting Tools

Herramientas para Insertar

Inserting Tools with locking ring Herramientas para Insertar con tope ajustable	34
Inserting Tools with Hexagon Drive Herramientas para Insertar con amarre hexagonale	35-36
Machine Inserting Tool Herramientas para Insertar Máquina	37
Tang Break Tools Herramientas Rompe Arrastres	38
Extracting Tools Herramientas Extractoras	38



Inserting Tools

with locking ring

Herramientas para Insertar

con tope ajustable



No.	Metric Métrica	UNC / UNF BSW / BSF	Art.-No.	Price €
2	M 2 x 0.4 M 2.2 x 0.45	UNC No. 2	08002	5,70
3	M 2.5 x 0.45		08003	5,70
4	M 3 x 0.5	UNC No. 5 UNC/UNF No. 4 BSW 1/8	08004	5,70
5	M 3.5 x 0.6	UNC/UNF No. 6	08005	5,70
6	M 4 x 0.7	UNC/UNF No. 8	08006	5,70
7		BSW 3/16 UNC No. 10	08007	5,70
8	M 5 x 0.8	UNF No. 10 UNC No. 12 BSF 3/16	08008	5,70
9	M 6 x 1.0	UNC/UNF 1/4 BSW/BSF 1/4	08009	5,70
10	M 7 x 1.0	UNC/BSW 5/16	08010	6,50
11	M 8 x 1.25 M 8 x 1.0	UNF/BSF 5/16	08011	6,50
12	M 9 x 1.25 M 9 x 1.0	UNC/BSW 3/8	08012	7,00
13	M 10 x 1.5 M 10 x 1.0 M 10 x 1.25	UNF/BSF 3/8	08013	7,00
14	M 11 x 1.5 M 11 x 1.25	UNC/UNF 7/16 BSW/BSF 7/16	08014	8,20
15	M 12 x 1.75 M 12 x 1.5 M 12 x 1.25 M 12 x 1.0	UNC/UNF 1/2 BSW/BSF 1/2	08015	8,20
16	M 14 x 2.0 M 14 x 1.5	UNC/UNF 9/16 BSW/BSF 9/16	08016	9,80
17	M 14 x 1.25 M 14 x 1.0		08017	9,80
18	M 16 x 2.0 M 16 x 1.5	UNC/UNF 5/8 BSW/BSF 5/8	08018	10,80
20	M 18 x 2.5 M 18 x 2.0 M 18 x 1.5	UNC 3/4 BSW/BSF 3/4	08020	10,80
21	M 20 x 2.5 M 20 x 2.0 M 20 x 1.5	UNF 3/4	08021	10,80
22	M 22 x 2.5 M 22 x 2.0 M 22 x 1.5	UNC/UNF 7/8 BSW/BSF 7/8	08022	13,60
23	M 24 x 3.0 M 24 x 2.0 M 24 x 1.5	UNC/UNF 1" BSW/BSF 1"	08023	13,60

Inserting Tools

with Hexagon Drive

Herramientas para Insertar

con amarre hexagonale



Nominal Diameter D		Art.-No.	Price €
M			
M 2.5 x 0.45	1/4"	08090	5,70
M 3 x 0.5	1/4"	08091	5,70
M 4 x 0.7	1/4"	08092	5,70
M 5 x 0.8	1/4"	08093	5,70
M 6 x 1.0	1/4"	08094	5,70
M 8 x 1.25	1/4"	08095	6,50
M 10 x 1.5	1/4"	08096	7,00
M 12 x 1.75	1/4"	08097	8,20
M 26 x 1.5	1/2"	08024	15,50
M 27 x 3.0	1/2"	08025	15,50
M 27 x 2.0	1/2"	08026	15,50
M 27 x 1.5	1/2"	08027	15,50
M 28 x 1.5	1/2"	08028	15,50
M 30 x 3.5	1/2"	08029	18,60
M 30 x 2.0	1/2"	08030	18,60
M 30 x 1.5	1/2"	08031	18,60
M 33 x 3.5	1/2"	08032	21,60
M 33 x 2.0	1/2"	08033	21,60
M 36 x 4.0	1/2"	08034	21,60
M 36 x 3.0	1/2"	08035	21,60
M 36 x 2.0	1/2"	08036	21,60
M 36 x 1.5	1/2"	08037	21,60
G (BSP)			
1/8 x 28	1/4"	08080	9,30
1/4 x 19	1/4"	08081	9,30
3/8 x 19	1/4"	08082	10,80
1/2 x 14	1/4"	08083	12,40
5/8 x 14	1/2"	08084	15,50
3/4 x 14	1/2"	08085	15,50
7/8 x 14	1/2"	08086	21,60
1" x 11	1/2"	08087	21,60

Tang Break Tools

Herramientas Rompe Arrastre



No.	Metric Métrica	UNC / UNF BSW / BSF	Art.-No.	Price €
2	M 2 x 0.4 M 2.2 x 0.45	UNC No. 2	07002	2,40
3	M 2.5 x 0.45		07003	2,40
4	M 3 x 0.5	UNC/UNF No. 4	07004	2,40
5	M 3.5 x 0.6	UNC/UNF No. 6	07005	2,40
6	M 4 x 0.7	UNC No. 10 UNC/UNF No. 8 BSF 3/16	07006	2,40
8	M 5 x 0.8	UNF No. 10 UNC No. 12 BSW 3/16	07008	2,40
9	M 6 x 1.0	UNC/UNF 1/4 BSW/BSF 1/4	07009	2,40
11	M 7 x 1.0 M 8 x 1.0 M 8 x 1.25	UNC/UNF 5/16 BSW/BSF 5/16	07011	2,70
12	M 9 x 1.0 M 9 x 1.25	UNC 3/8 BSW/BSF 3/8	07012	2,70
13	M 10 x 1.5 M 10 x 1.0 M 10 x 1.25	UNF 3/8	07013	2,70
14	M 11 x 1.5 M 11 x 1.25	UNC/UNF 7/16 BSW/BSF 7/16	07014	3,25
15	M 12 x 1.75 M 12 x 1.5 M 12 x 1.25 M 12 x 1.0	UNC/UNF 1/2 BSW/BSF 1/2	07015	3,25

V-COIL rapid

3	M 2,5 x 0.45	1/4" ○	07090	2,40
4	M 3 x 0.5	1/4" ○	07091	2,40
6	M 4 x 0.7	1/4" ○	07092	2,40
8	M 5 x 0.8	1/4" ○	07093	2,40
9	M 6 x 1.0	1/4" ○	07094	2,40
11	M 8 x 1.25	1/4" ○	07095	2,70
13	M 10 x 1.5	1/4" ○	07096	2,70
15	M 12 x 1.75	1/4" ○	07097	3,25

Extracting Tools

Herramientas Extractoras



No.	Metric Métrica	Inch Pulgadas	Art.-No.	Price €
2	M 3 - M 10	3/16 - 3/8	07052	12,00
3	M 11 - M 24	3/8 - 1"	07053	14,60

STI-Taps

Machos STI

	M MF	BSW BSF	UNC UNF UNX8	G BSP
Second Lead (Form D) Intermedio	40	44	42	46
Sets of 2 pcs. Juegos de 2 piezas	41		43	45
Spiral Point Punta en espiral	48			
Spiral Flute Helicoidal 35°	49			
Spark Plug Taps Machos "Spark Plug"	47			
Fluteless Taps Machos por Laminación	50			
STI-Drills Brocas STI	53			

V-COIL rapid + Automotive

STI-Taps Machos STI	51			
STI-Drills Brocas STI	51			
HexTap OS	52			
HexTap SP	52			
HexTap LS	52			
Oil Drain Screws Tornillos de purga aceite	54			
Retainer Ring OS Anillo de Junta OS	54			

STI-Taps (Second Lead)

for Wire-Thread-Inserts ISO 2 (6H)

Macho STI (Intermedio)

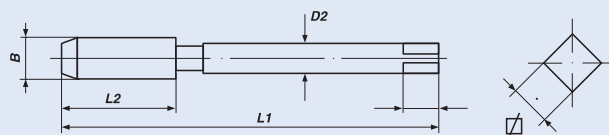
para Insertos roscados ISO 2 (6H)



Form D HSS-G Tolerance ISO1 (4H)

M

Nominal Diameter D	P	B	L 1	L 2	D 2	Ø	Art.-No.	Price €
M 2	x 0.40	2.5	44.5	9.5	2.8	2.24	03001	6,60
M 2.5	x 0.45	3.1	48.0	11.0	3.15	2.50	03003	6,60
M 3	x 0.5	3.6	53.0	13.0	4.0	3.15	03005	5,80
M 3.5	x 0.6	4.3	53.0	13.0	4.5	3.55	03006	5,80
M 4	x 0.7	4.9	58.0	16.0	5.0	4.00	03007	5,80
M 5	x 0.8	6.0	66.0	19.0	6.3	5.00	03008	5,80
M 6	x 1.0	7.3	72.0	22.0	8.0	6.30	03009	5,80
M 7	x 1.0	8.3	72.0	22.0	9.0	7.10	03010	7,20
M 8	x 1.25	9.6	80.0	24.0	10.0	8.00	03011	7,20
M 8	x 1.0	9.3	80.0	24.0	10.0	8.00	03012	7,20
M 9	x 1.25	10.6	85.0	25.0	8.0	6.30	03013	8,80
M 10	x 1.5	11.9	89.0	29.0	9.0	7.10	03015	8,80
M 10	x 1.25	11.6	85.0	25.0	8.0	6.30	03016	8,80
M 10	x 1.0	11.3	85.0	25.0	8.0	6.30	03017	8,80
M 11	x 1.5	12.9	89.0	29.0	9.0	7.10	03018	10,00
M 12	x 1.75	14.3	95.0	30.0	11.2	9.00	03020	10,00
M 12	x 1.5	14.0	95.0	30.0	11.2	9.00	03021	12,20
M 12	x 1.25	13.6	95.0	30.0	11.2	9.00	03022	12,20
M 12	x 1.0	13.3	95.0	30.0	11.2	9.00	03023	12,20
M 14	x 2.0	16.6	102.0	32.0	12.5	10.00	03027	13,90
M 14	x 1.5	16.0	102.0	32.0	12.5	10.00	03028	13,90
M 14	x 1.25	15.6	102.0	32.0	12.5	10.00	03029	13,90
M 14	x 1.0	15.3	102.0	32.0	12.5	10.00	03030	13,90
M 16	x 2.0	18.6	112.0	37.0	14.0	11.20	03033	17,50
M 16	x 1.5	18.0	104.0	29.0	14.0	11.20	03034	17,50
M 18	x 2.5	21.3	118.0	38.0	16.0	12.50	03035	22,00
M 18	x 2.0	20.6	104.0	29.0	14.0	11.20	03036	22,00
M 18	x 1.5	20.0	104.0	29.0	14.0	11.20	03037	22,00
M 20	x 2.5	23.3	118.0	38.0	16.0	12.50	03038	24,30
M 20	x 2.0	22.6	113.0	33.0	16.0	12.50	03039	24,30
M 20	x 1.5	22.0	113.0	33.0	16.0	12.50	03040	24,30
M 22	x 2.5	25.3	130.0	45.0	18.0	14.00	03041	28,00
M 22	x 2.0	24.6	120.0	35.0	18.0	14.00	03042	28,00
M 22	x 1.5	24.0	120.0	35.0	18.0	14.00	03043	28,00
M 24	x 3.0	27.9	138.0	48.0	20.0	16.00	03044	35,30
M 24	x 2.0	26.6	127.0	37.0	20.0	16.00	03045	35,30
M 24	x 1.5	26.0	120.0	35.0	18.0	14.00	03046	35,30



STI-Taps, set of 2 pcs.

for Wire-Thread-Inserts ISO 2 (6H)

Machos Mano STI, en juegos de 2 piezas

para Insertos roscados ISO 2 (6H)

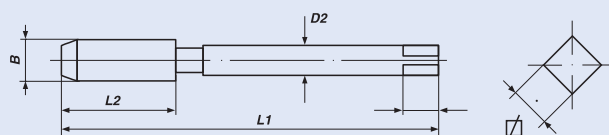


HSS-G

Tolerance ISO1 (4H)

M

Nominal Diameter D	P	B	L 1	L 2	D 2	Ø	Art.-No.	Price €
M 26	x 1.5	28.0	127	37	20.0	16.0	03049	115,00
M 27	x 3.0	30.9	151	51	22.4	18.0	03050	115,00
M 27	x 2.0	29.6	127	37	20.0	16.0	03051	115,00
M 27	x 1.5	29.0	127	37	20.0	16.0	03052	115,00
M 28	x 1.5	30.0	127	37	20.0	16.0	03053	115,00
M 30	x 3.5	34.6	162	57	25.0	20.0	03054	151,00
M 30	x 2.0	32.6	137	37	22.4	18.0	03055	151,00
M 30	x 1.5	32.0	137	37	22.4	18.0	03056	151,00
M 33	x 3.5	37.6	162	57	25.0	20.0	03057	158,00
M 33	x 2.0	35.6	144	37	25.0	20.0	03058	158,00
M 36	x 4.0	41.2	170	60	28.0	22.4	03060	175,00
M 36	x 3.0	39.9	170	60	28.0	22.4	03061	175,00
M 36	x 2.0	38.6	150	39	28.0	22.4	03062	175,00
M 36	x 1.5	38.0	150	39	28.0	22.4	03063	175,00



STI-Taps (Second Lead)

for Wire-Thread-Inserts Tolerance 2B

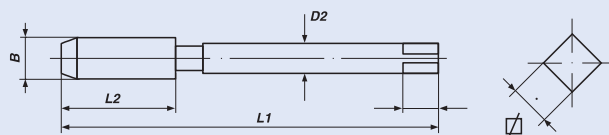
Machos STI (Intermedio)

para Insertos roscados Tolerancia 2B



Form D HSS-G Tolerance 3B UNC/UNF

Nominal Diameter D	B	L 1	L 2	D 2	Ø	Art.-No.	Price €
UNC/NC							
No. 2 x 56	2.8	48.0	10.0	3.15	2.5	03100	8,80
No. 4 x 40	3.7	53.0	13.0	4.0	3.15	03101	8,80
No. 5 x 40	4.0	53.0	13.0	4.0	3.15	03102	8,80
No. 6 x 32	4.5	58.0	16.0	5.0	4.00	03103	8,80
No. 8 x 32	5.2	62.0	17.0	5.6	4.50	03104	8,80
No. 10 x 24	6.2	66.0	19.0	6.3	5.00	03105	8,80
No. 12 x 24	6.9	66.0	19.0	7.1	5.60	03106	8,80
1/4 x 20	8.0	72.0	22.0	8.0	6.30	03107	5,80
5/16 x 18	9.8	80.0	24.0	10.0	8.00	03108	6,30
3/8 x 16	11.6	85.0	25.0	8.0	6.30	03109	6,60
7/16 x 14	13.5	95.0	30.0	11.2	9.00	03110	8,80
1/2 x 13	15.2	102.0	32.0	12.5	10.00	03111	10,00
9/16 x 12	17.0	112.0	37.0	14.0	11.20	03112	16,60
5/8 x 11	18.9	112.0	37.0	14.0	11.20	03113	20,50
3/4 x 10	22.4	118.0	38.0	16.0	12.50	03114	24,90
7/8 x 9	25.9	130.0	45.0	18.0	14.00	03115	36,00
1" x 8	29.5	138.0	48.0	20.0	16.00	03116	36,00
UNF/NF							
No. 4 x 48	3.5	53.0	13.0	4.0	3.15	03151	8,80
No. 6 x 40	4.3	53.0	13.0	4.5	3.55	03152	8,80
No. 8 x 36	5.1	62.0	17.0	5.6	4.50	03153	8,80
No. 10 x 32	5.9	66.0	19.0	6.3	5.00	03154	8,80
1/4 x 28	7.5	69.0	19.0	8.0	6.30	03155	5,80
5/16 x 24	9.3	76.0	20.0	10.0	8.00	03156	6,30
3/8 x 24	10.9	82.0	22.0	8.0	6.30	03157	6,60
7/16 x 20	12.8	84.0	24.0	9.0	7.10	03158	8,80
1/2 x 20	14.4	90.0	25.0	11.2	9.00	03159	10,00
9/16 x 18	16.1	104.0	29.0	12.5	10.00	03160	16,60
5/8 x 18	17.7	104.0	29.0	14.0	11.20	03161	20,50
3/4 x 16	21.1	104.0	29.0	14.0	11.20	03162	24,90
7/8 x 14	24.6	120.0	35.0	18.0	14.00	03163	36,00
1" x 12	28.2	127.0	37.0	20.0	16.00	03164	36,00
1" x 14	27.8	127.0	37.0	20.0	16.00	03165	36,00



STI-Taps, sets of 2 pcs.

for Wire-Thread-Inserts Tolerance 2B

Machos Mano STI, en juegos de 2 piezas

para Insertos roscados Tolerancia 2B



HSS-G

Tolerance 3B

UNC/UNF

Nominal Diameter D	B	L 1	L 2	D 2	Ø	Art.-No.	Price €
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UNC/NC

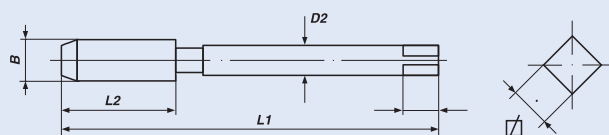
1.1/8 x 7	33.3	151	51	22.4	18.0	03117	107,00
1.1/4 x 7	36.5	162	57	25.0	20.0	03118	130,00
1.3/8 x 6	40.4	170	60	28.0	22.4	03119	157,00
1.1/2 x 6	43.6	187	67	31.5	25.0	03120	210,00

UNF/NF

1.1/8 x 12	31.3	137	37	22.4	18.0	03166	107,00
1.1/4 x 12	34.5	144	39	25.0	20.0	03167	130,00
1.3/8 x 12	37.7	150	39	28.0	22.4	03168	157,00
1.1/2 x 12	40.9	150	39	28.0	22.4	03169	210,00

UNx8

1.1/8 x 8	1.1/4	151	51	22.4	18.0	03191	107,00
1.1/4 x 8	1.3/8	162	57	25.0	20.0	03192	130,00
1.3/8 x 8	1.1/2	170	60	28.0	22.4	03193	157,00
1.1/2 x 8	1.5/8	170	60	28.0	22.4	03194	210,00
1.5/8 x 8	1.3/4	187	67	31.5	25.0	03195	220,00
1.3/4 x 8	1.7/8	187	67	31.5	25.0	03196	320,00
1.7/8 x 8	2"	200	70	35.5	28.0	03197	320,00
2" x 8	2.1/8	200	70	35.5	28.0	03198	635,00



STI-Taps (Second Lead)

for Wire-Thread-Inserts

Machos STI (Intermedio)

para Insertos roscados

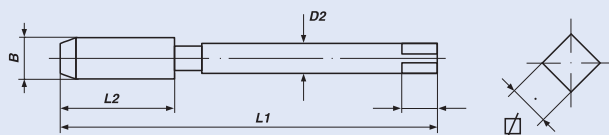


Form D

HSS-G

BSW/BSF

Nominal Diameter D	B	L 1	L 2	D 2	∅	Art.-No.	Price €
BSW							
1/8 x 40	3.9	53.0	13.0	4.0	3.15	03201	5,80
3/16 x 24	6.0	56.0	19.0	6.3	5.00	03202	5,80
1/4 x 20	7.8	72.0	22.0	8.0	6.30	03203	5,80
5/16 x 18	9.6	80.0	24.0	10.0	8.00	03204	6,30
3/8 x 16	11.4	85.0	25.0	8.0	6.30	03205	6,60
7/16 x 14	13.2	95.0	30.0	11.2	9.00	03206	8,80
1/2 x 12	15.2	102.0	32.0	12.5	10.00	03207	10,00
9/16 x 12	16.8	102.0	32.0	12.5	10.00	03208	16,60
5/8 x 11	18.6	112.0	37.0	14.0	11.20	03209	20,50
11/16 x 11	20.2	112.0	37.0	14.0	11.20	03210	24,90
3/4 x 10	22.0	118.0	38.0	16.0	12.50	03211	24,90
7/8 x 9	25.5	130.0	45.0	18.0	14.00	03212	36,00
1" x 8	29.1	138.0	48.0	20.0	16.00	03213	36,00
BSF							
3/16 x 32	5.7	66.0	19.0	6.3	5.00	03251	5,80
1/4 x 26	7.5	72.0	22.0	8.0	6.30	03253	5,80
5/16 x 22	9.3	80.0	24.0	10.0	8.00	03255	6,30
3/8 x 20	11.0	85.0	25.0	8.0	6.30	03256	6,60
7/16 x 18	12.8	89.0	29.0	9.0	7.10	03257	8,80
1/2 x 16	14.6	95.0	30.0	11.2	9.00	03258	10,00
9/16 x 16	16.2	102.0	32.0	12.5	10.00	03259	16,60
5/8 x 14	18.0	112.0	37.0	14.0	11.20	03260	20,50
11/16 x 14	19.6	112.0	37.0	14.0	11.20	03261	24,90
3/4 x 12	21.5	118.0	38.0	16.0	12.50	03262	24,90
7/8 x 11	24.9	130.0	45.0	18.0	14.00	03264	36,00
1" x 10	28.4	138.0	48.0	20.0	16.00	03265	36,00



STI-Taps, sets of 2 pcs.
for Wire-Thread-Inserts

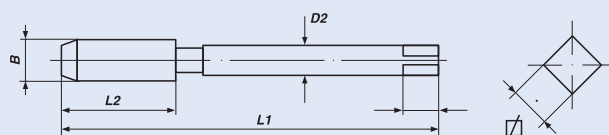
Machos Mano STI, en juego de 2 piezas
para Insertos roscados



HSS-G

G (BSP)

Nominal Diameter D	B	L 1	L 2	D 2	Ø	Art.-No.	Price €
G (BSP)							
1/8 x 28	10.8	59	15	8.0	6.3	03311	16,50
1/4 x 19	14.7	67	19	11.2	9.0	03312	21,00
3/8 x 19	18.3	75	21	14.0	11.2	03313	27,30
1/2 x 14	23.1	87	26	16.0	12.5	03314	44,50
5/8 x 14	25.1	91	26	18.0	14.0	03315	65,20
3/4 x 14	28.6	96	28	20.0	16.0	03316	65,20
7/8 x 14	32.4	102	29	22.4	18.0	03318	104,00
1" x 11	36.0	109	33	25.0	20.0	03317	104,00



STI-Taps (Second Lead)

for Wire-Thread-Inserts

Machos STI (Intermedio)

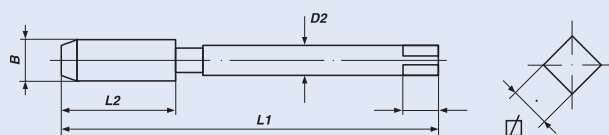
para Insertos roscados



Form D

HSS-G

Nominal Diameter D	B	L 1	L 2	D 2	Ø	Art.-No.	Price €
G (BSP)							
1/8 x 28	10.8	59.0	15.0	8.0	6.30	03301	8,30
1/4 x 19	14.7	67.0	19.0	11.2	9.00	03302	10,50
3/8 x 19	18.3	75.0	21.0	14.0	11.20	03303	13,60
1/2 x 14	23.1	87.0	26.0	16.0	12.50	03304	22,20
5/8 x 14	25.0	91.0	26.0	18.0	14.00	03305	32,60
3/4 x 14	28.6	96.0	28.0	20.0	16.00	03306	32,60
1" x 11	36.0	109.0	33.0	25.0	20.00	03307	52,00
BA							
BA 0	7.1	66.0	19.0	7.1	5.60	03321	5,80
BA 2	5.6	66.0	19.0	6.3	5.00	03323	5,80
BA 4	4.4	53.0	13.0	4.5	3.55	03325	5,80
BA 6	3.4	50.0	13.0	3.55	2.80	03327	5,80
BS. Brass							
1/4 x 26	7.5	69.0	19.0	8.0	6.30	03341	7,50
5/16 x 26	9.1	76.0	20.0	10.0	8.00	03342	8,30
3/8 x 26	10.7	82.0	22.0	8.0	6.30	03343	8,80
7/16 x 26	12.3	84.0	24.0	9.0	7.10	03344	11,20
1/2 x 26	13.9	90.0	25.0	11.2	9.00	03345	16,50



STI-Spark Plug Taps with Pilot Nose

for Wire-Thread-Inserts ISO 2 (6H)

Machos Combinados STI

para Insertos roscados ISO 2 (6H)

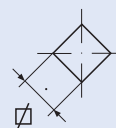
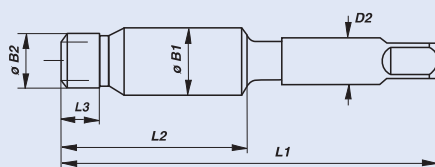


HSS-G

Tolerance ISO 1 (4H)

M

Nennmaß D	P	B1	B2	L 3	L 2	L 1	D 2	∅	Art.-No.	Price €
M 6	x 1.0	7.3	6	7	28	70	8	6.3	03630	11,00
M 8	x 1.25	9.6	8	9	32	75	8	6.3	03631	12,00
M 10	x 1.5	11.9	10	9	37	80	9	7.1	03632	15,40
M 10	x 1.25	11.6	10	8	30	74	8	6.3	03637	15,40
M 10	x 1.0	11.3	10	8	30	74	8	6.3	03633	15,40
M 12	x 1.25	13.6	12	9	32	75	9	7.1	03634	20,00
M 14	x 1.25	15.6	14	10	45	90	12	9.2	03635	23,20
M 18	x 1.5	20.0	18	10	47	116	16	12.5	03636	33,20



STI-Machine Taps (Spiral Point)

for Wire-Thread-Inserts ISO 2 (6H)

Machos Máquina STI (Pasante)

para Insertos roscados ISO 2 (6H)



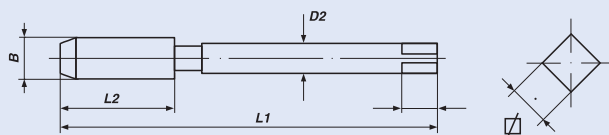
Form B

HSS-E

Tolerance ISO 1 (4H)

M

Nominal Diameter D	P	B	L 1	L 2	D 2	∅	Art.-No.	Price €
M 3	x 0.5	3.6	53.0	13.0	4.0	3.15	03505	6,60
M 3.5	x 0.6	4.3	53.0	13.0	4.5	3.55	03506	6,60
M 4	x 0.7	4.9	58.0	16.0	5.0	4.00	03507	6,60
M 5	x 0.8	6.0	66.0	19.0	6.3	5.00	03508	7,50
M 6	x 1.0	7.3	72.0	22.0	8.0	6.40	03509	7,80
M 7	x 1.0	8.3	72.0	22.0	9.0	7.10	03510	9,50
M 8	x 1.25	9.6	80.0	24.0	10.0	8.00	03511	9,50
M 8	x 1.0	9.3	80.0	24.0	10.0	8.00	03512	9,50
M 10	x 1.5	11.9	89.0	29.0	9.0	7.10	03515	12,00
M 10	x 1.0	11.3	85.0	25.0	8.0	6.30	03517	12,00
M 12	x 1.75	14.3	95.0	30.0	11.2	9.00	03520	18,00
M 12	x 1.5	14.0	95.0	30.0	11.2	9.00	03521	18,30
M 12	x 1.25	13.6	95.0	30.0	11.2	9.00	03522	18,30
M 14	x 2.0	16.6	102.0	32.0	12.5	10.00	03527	21,50
M 14	x 1.5	16.0	102.0	32.0	12.5	10.00	03528	21,50
M 14	x 1.25	15.6	102.0	32.0	12.5	10.00	03529	21,50
M 16	x 2.0	18.6	112.0	37.0	14.0	11.20	03533	22,50



STI-Machine Taps (Spiral Flute)

for Wire-Thread-Inserts ISO 2 (6H)

Machos Máquina STI (Helicoidal)

para Insertos roscados ISO 2 (6H)



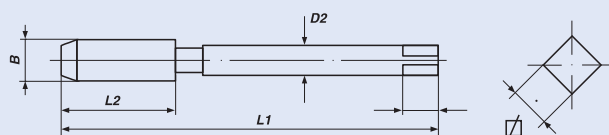
Form C/35°RSP

HSS-E

Tolerance ISO 1 (4H)

M

Nominal Diameter D	P	B	L 1	L 2	D 2	Ø	Art.-No.	Price €
M 3	x 0.5	3.6	53.0	13.0	4.0	3.15	03705	6,60
M 3.5	x 0.6	4.3	53.0	13.0	4.5	3.55	03706	6,60
M 4	x 0.7	4.9	58.0	16.0	5.0	4.00	03707	6,60
M 5	x 0.8	6.0	66.0	19.0	6.3	5.00	03708	7,20
M 6	x 1.0	7.3	72.0	22.0	8.0	6.40	03709	7,50
M 7	x 1.0	8.3	72.0	22.0	9.0	7.10	03710	9,50
M 8	x 1.25	9.6	80.0	24.0	10.0	8.00	03711	9,50
M 8	x 1.0	9.3	80.0	24.0	10.0	8.00	03712	9,50
M 10	x 1.5	11.9	89.0	29.0	9.0	7.10	03715	11,40
M 10	x 1.0	11.3	85.0	25.0	8.0	6.30	03717	11,40
M 12	x 1.75	14.3	95.0	30.0	11.2	9.00	03720	18,00
M 12	x 1.5	14.0	95.0	30.0	11.2	9.00	03721	18,30
M 12	x 1.25	13.6	95.0	30.0	11.2	9.00	03722	18,30
M 14	x 2.0	16.6	102.0	32.0	12.5	10.00	03727	21,30
M 14	x 1.5	16.0	102.0	32.0	12.5	10.00	03728	21,30
M 14	x 1.25	15.6	102.0	32.0	12.5	10.00	03729	21,30
M 16	x 2.0	18.6	112.0	37.0	14.0	11.20	03733	22,50



STI-Fluteless Taps

for Wire-Thread-Inserts ISO 2 (6H)

Machos STI por Laminación

para Insertos roscados ISO 2 (6H)



HSS-E

Tolerance ISO 1 (4H)

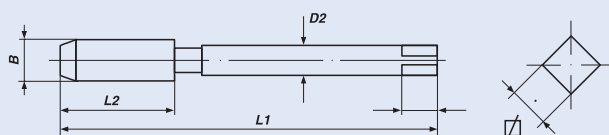
M

Nominal Diameter D	P	B	L 1	L 2	D 2	Ø	Art.-No.	Price €
M 3	x 0.5	3.6	53.0	13.0	4.0	3.15	03605	10,00
M 4	x 0.7	4.9	58.0	16.0	5.0	4.00	03607	10,80
M 5	x 0.8	6.0	66.0	19.0	6.3	5,00	03608	10,80
M 6	x 1.0	7.3	72.0	22.0	8.0	6.40	03609	12,40
M 8	x 1.25	9.6	80.0	24.0	10.0	8.00	03611	14,90
M 10	x 1.5	11.9	89.0	29.0	9.0	7.10	03615	17,60
M 12	x 1.75	14.3	95.0	30.0	11.2	9.00	03620	24,90

**Recommended
Core Hole Diameter**

**Diámetro de taladro para roscar
recomendado**

D	M 3	M 4	M 5	M 6	M 8	M 10	M 12
Ø	3,4	4,6	5,6	6,8	9,0	11,2	13,4



STI-Gewindebohrer V-COIL rapid

für Gewindeeinsätze nach ISO 2 (6H)

V-COIL rapid Taraud STI

pour filets rapportés selon ISO 2 (6H)



Form D

HSS-G

Toleranz ISO 1 (4H)

M

Nennmaß D	B	L 1	L 2	⬡	Art.-No.	Preis €
M 2.5 x 0.45	3.1	36.0	11.0	1/4"	03090	3,50
M 3 x 0.5	3.6	36.0	11.0	1/4"	03091	3,50
M 4 x 0.7	4.9	36.0	13.0	1/4"	03092	3,70
M 5 x 0.8	6.0	36.0	16.0	1/4"	03093	3,70
M 6 x 1.0	7.3	36.0	17.0	1/4"	03094	5,40
M 8 x 1.25	9.6	42.0	20.0	1/4"	03095	7,30
M 10 x 1.5	11.9	50.0	24.0	1/4"	03096	9,70
M 12 x 1.75	14.3	50.0	29.0	1/4"	03097	10,50

STI-Spiralbohrer V-COIL rapid

V-COIL rapid Foret STI



Nennmaß D	L 1	S 2	⬡	Art.-No.	Preis €
2.6 mm	36.0	16.0	1/4"	03080	3,60
3.2 mm	36.0	16.0	1/4"	03081	3,60
4.2 mm	36.0	16.0	1/4"	03082	3,60
5.2 mm	46.0	26.0	1/4"	03083	3,60
6.3 mm	46.0	26.0	1/4"	03084	3,60
8.3 mm	46.0	26.0	1/4"	03085	4,60
10.4 mm	50.0	33.5	1/4"	03086	6,00
12.4 mm	50.0	33.5	1/4"	03087	7,10

HexTap OS

for oil drain screw threads

HexTap OS

para roscas de tornillo de purga aceite



Multi-Drive HSS-G Tolerance ISO2 (6H)

Nominal Diameter D	Type	L1	L2	SW1	SW2	Art.-No.	Price €
M 13 x 1.5	OS	50	21	16	4	19002	17,50
M 15 x 1.5	OS	50	21	16	4	19003	17,50
M 17 x 1.5	OS	50	21	16	5	19004	20,00
M 20 x 1.5	OS	50	21	16	6	19005	24,00
M 24 x 1.5	OS	50	21	16	8	19006	29,00

HexTap SP

for spark plug thread M 14x1,25

HexTap SP

para roscas de las bujías M 14x1,25



Multi-Drive HSS-G Tolerance ISO2 (6H)

Nominal Diameter D	Type	L1	L2	SW1	SW2	Art.-No.	Price €
M 16 x 1.25	SP	70	41	16	4	19001	29,50

HexTap LS

for oxygen sensor thread M 18x1,5

HexTap LS

para roscas del sensor de oxígeno M 18x1,5



Multi-Drive HSS-G Tolerance ISO2 (6H)

Nominal Diameter D	Type	L1	L2	SW1	Ø	Art.-No.	Price €
M 18 x 1,5	LSN	40	27	14	6,3	19008	18,00
M 20 x 1,5	LS	50	21	14	6,3	19007	25,00

STI-Drills

Brocas STI



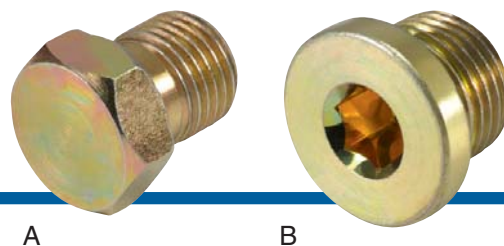
Nominal Diameter D		Art.-No.	Price €
2.1 mm	10	VC 021	0,80
2.3 mm	10	VC 023	0,80
2.4 mm	10	VC 024	0,80
2.6 mm	10	VC 026	1,00
3.0 mm	10	VC 030	1,00
3.1 mm	10	VC 031	1,10
3.2 mm	10	VC 032	1,10
3.4 mm	10	VC 034	1,10
3.7 mm	10	VC 037	1,15
3.8 mm	10	VC 038	1,15
4.2 mm	10	VC 042	1,30
4.4 mm	10	VC 044	1,30
4.5 mm	10	VC 045	1,30
5.0 mm	10	VC 050	1,40
5.1 mm	10	VC 051	1,70
5.2 mm	10	VC 052	1,70
5.8 mm	10	VC 058	1,90
5.9 mm	10	VC 059	1,90
6.0 mm	10	VC 060	1,90
6.2 mm	10	VC 062	2,20
6.3 mm	10	VC 063	2,20
6.6 mm	10	VC 066	2,40
6.7 mm	10	VC 067	2,40
7.3 mm	10	VC 073	2,70
8.3 mm	10	VC 083	4,20
9.3 mm	10	VC 093	4,20
9.8 mm	10	VC 098	4,60
9.9 mm	10	VC 099	4,60
10.3 mm	5	VC 103	6,00
10.4 mm	5	VC 104	6,00
11.4 mm	5	VC 114	7,60
11.5 mm	5	VC 115	7,60
11.6 mm	5	VC 116	7,60
12.3 mm	5	VC 123	9,50
12.4 mm	5	VC 124	9,50
13.0 mm	5	VC 130	9,50

Oil Drain Screws

for oil sump threads

Tornillos de purga aceite

para roscas carter de aceite



Nominal Diameter D	Type	 Piece pieza	Art.-No.	Price €
M 13 x 1.5	A	10	19130	26,00
M 15 x 1.5	A	10	19131	26,00
M 17 x 1.5	B	10	19132	26,00
M 20 x 1.5	B	10	19133	26,00
M 24 x 1.5	B	10	19134	26,00

Retainer Ring OS

for oil drain screws

from copper (CU) and aluminium (ALU)

Anillo de Junta OS

para tornillos de purga aceite

de cobre (CU) y aluminio (ALU)



Size	Type	for screws para tornillos	Piece pieza	Art.-No.	Price €
15 x 19 x 1.5 mm	CU	M 13 x 1.5 M 15x1.5	25	19140	8,00
17 x 21 x 1.5 mm	CU	M 17 x 1.5	25	19141	8,00
20 x 24 x 1.5 mm	CU	M 20 x 1.5	25	19142	8,00
20 x 24 x 1.5 mm	ALU	M 20 x 1.5	25	19143	7,50
24 x 29 x 2.0 mm	CU	M 24 x 1.5	25	19144	8,00
24 x 29 x 2.0 mm	ALU	M 24 x 1.5	25	19145	7,50

Recommended Tapping Drill Sizes V-COIL

Diámetro recomendado de las brocas previas a utilizar V-COIL

D	P	Ø
M/MF		mm
M 2 x 0.4		2.10
M 2.5 x 0.45		2.60
M 3 x 0.5		3.20
M 3.5 x 0.6		3.70
M 4 x 0.7		4.20
M 5 x 0.8		5.20
M 6 x 1.0		6.30
M 7 x 1.0		7.30
M 8 x 1.25		8.30
M 8 x 1.0		8.30
M 9 x 1.25		9.30
M 10 x 1.5		10.40
M 10 x 1.25		10.30
M 10 x 1.0		10.30
M 11 x 1.5		11.40
M 12 x 1.75		12.40
M 12 x 1.5		12.40
M 12 x 1.25		12.30
M 12 x 1.0		12.30
M 14 x 2.0		14.50
M 14 x 1.5		14.40
M 14 x 1.25		14.40
M 14 x 1.0		14.30
M 16 x 2.0		16.50
M 16 x 1.5		16.40
M 18 x 2.5		18.60
M 18 x 2.0		18.50
M 18 x 1.5		18.50
M 20 x 2.5		20.60
M 20 x 2.0		20.50
M 20 x 1.5		20.50
M 22 x 2.5		22.60
M 22 x 2.0		22.50
M 22 x 1.5		22.50
M 24 x 3.0		24.75
M 24 x 2.0		24.50
M 24 x 1.5		24.50
M 26 x 1.5		26.50
M 27 x 1.5		27.50
M 27 x 2.0		27.50
M 27 x 3.0		27.75
M 28 x 1.5		28.50
M 30 x 1.5		30.50
M 30 x 2.0		30.50
M 30 x 3.5		31.00
M 33 x 2.0		33.50
M 33 x 3.5		34.00
M 36 x 1.5		36.50
M 36 x 2.0		36.50
M 36 x 3.0		37.00
M 36 x 4.0		37.00

D	P	Ø
UNC		mm
No. 2 x 56		2.4
No. 4 x 40		3.0
No. 5 x 40		3.4
No. 6 x 32		3.7
No. 8 x 32		4.4
No. 10 x 24		5.1
No. 12 x 24		5.7
1/4 x 20		6.7
5/16 x 18		8.3
3/8 x 16		9.9
7/16 x 14		11.60
1/2 x 13		13.00
9/16 x 12		14.80
5/8 x 11		16.50
3/4 x 10		19.75
7/8 x 9		23.00
1" x 8		26.25
1.1/8 x 7		29.50
1.1/4 x 7		33.00
1.3/8 x 6		36.00
1.1/2 x 6		39.50
UNF		
No. 4 x 48		3.0
No. 6 x 40		3.7
No. 8 x 36		4.4
No. 10 x 32		5.1
1/4 x 28		6.6
5/16 x 24		8.2
3/8 x 24		9.8
7/16 x 20		11.50
1/2 x 20		13.00
9/16 x 18		14.80
5/8 x 18		16.25
3/4 x 16		19.50
7/8 x 14		22.75
1" x 12		26.00
1.1/8 x 12		29.00
1.1/4 x 12		32.50
1.3/8 x 12		35.50
1.1/2 x 12		38.50

D	P	Ø
BSW		mm
1/8 x 40		3.4
3/16 x 24		5.1
1/4 x 20		6.7
5/16 x 18		8.3
3/8 x 16		9.9
7/16 x 14		11.6
1/2 x 12		13.0
9/16 x 12		14.8
5/8 x 11		16.7
3/4 x 10		20.0
7/8 x 9		23.0
1" x 8		26.5
BSF		
3/16 x 32		5.0
1/4 x 26		6.6
5/16 x 22		8.3
3/8 x 20		9.9
7/16 x 18		11.6
1/2 x 16		13.0
9/16 x 16		14.8
5/8 x 14		16.4
3/4 x 12		19.5
7/8 x 11		22.7
1" x 10		26.5
UNx8		
1.1/8 x 8		28.75
1.1/4 x 8		31.75
1.3/8 x 8		35.00
1.1/2 x 8		38.00
1.5/8 x 8		41.50
1.3/4 x 8		44.50
1.78 x 8		47.75
2" x 8		50.90

D	P	Ø
G(BSP)		mm
1/8 x 28		10.00
1/4 x 19		13.60
3/8 x 19		17.10
1/2 x 14		21.50
5/8 x 14		23.40
3/4 x 14		27.00
7/8 x 14		30.60
1" x 11		33.70

Technical Data for Wire-Thread-Inserts acc. to DIN 8140

Datos Técnicos para Insertos roscados de acuerdo al DIN 8140

	S (mm)					T (mm)					R (mm)				
M	1D	1.5D	2D	2.5D	3D	1D	1.5D	2D	2.5D	3D	1D	1.5D	2D	2.5D	3D
M 2 x 0.40	3.80	4.80	5.80	6.80	7.80	3.40	4.40	5.40	6.40	7.40	2.00	3.00	4.00	5.00	6.00
M 2.5 x 0.45	4.52	5.77	7.02	8.27	9.52	4.07	5.32	6.57	7.82	9.07	2.50	3.75	5.00	6.25	7.50
M 3 x 0.50	5.25	6.75	8.25	9.75	11.25	4.75	6.25	7.75	9.25	10.75	3.00	4.50	6.00	7.50	9.00
M 3.5 x 0.60	6.20	7.95	9.70	11.45	13.20	5.60	7.35	9.10	10.85	12.60	3.50	5.25	7.00	8.75	10.50
M 4 x 0.70	7.15	9.15	11.15	13.15	15.15	6.45	8.45	10.45	12.45	14.45	4.00	6.00	8.00	10.00	12.00
M 5 x 0.80	8.60	11.10	13.60	16.10	18.60	7.80	10.30	12.80	15.30	17.80	5.00	7.50	10.00	12.50	15.00
M 6 x 1.00	10.50	13.50	16.50	19.50	22.50	9.50	12.50	15.50	18.50	21.50	6.00	9.00	12.00	15.00	18.00
M 7 x 1.00	11.50	15.00	18.50	22.00	25.50	10.50	14.00	17.50	21.00	24.50	7.00	10.50	14.00	17.50	21.00
M 8 x 1.25	13.62	17.62	21.62	25.62	29.62	12.37	16.37	20.37	24.37	28.37	8.00	12.00	16.00	20.00	24.00
M 8 x 1.00	12.50	16.50	20.50	24.50	28.50	11.50	15.50	19.50	23.50	27.50	8.00	12.00	16.00	20.00	24.00
M 9 x 1.25	14.62	19.12	23.62	28.13	32.62	13.37	17.87	22.37	26.87	31.37	9.00	13.50	18.00	22.50	27.00
M 9 x 1.00	13.50	18.00	22.50	27.00	31.50	12.50	17.00	21.50	26.00	30.50	9.00	13.50	18.00	22.50	27.00
M 10 x 1.50	16.75	21.75	26.75	31.75	36.75	15.25	20.25	25.25	30.25	35.25	10.00	15.00	20.00	25.00	30.00
M 10 x 1.25	15.62	20.62	25.62	30.62	35.62	14.37	19.37	24.37	29.37	34.37	10.00	15.00	20.00	25.00	30.00
M 10 x 1.00	14.50	19.50	24.50	29.50	34.50	13.50	18.50	23.50	28.50	33.50	10.00	15.00	20.00	25.00	30.00
M 11 x 1.50	17.75	23.25	28.75	34.25	39.75	16.25	21.75	27.25	32.75	38.25	11.00	16.50	22.00	27.50	33.00
M 11 x 1.25	16.62	22.12	27.62	33.12	38.62	15.37	20.87	26.37	31.87	37.37	11.00	16.50	22.00	27.50	33.00
M 12 x 1.75	19.87	25.87	31.87	37.87	43.87	18.12	24.12	30.12	36.12	42.12	12.00	18.00	24.00	30.00	36.00
M 12 x 1.50	18.75	24.75	30.75	36.75	42.75	17.25	23.25	29.25	35.25	41.25	12.00	18.00	24.00	30.00	36.00
M 12 x 1.25	17.62	23.62	29.62	35.62	41.62	16.37	22.37	28.37	34.37	40.37	12.00	18.00	24.00	30.00	36.00
M 14 x 2.00	23.00	30.00	37.00	44.00	51.00	21.00	28.00	35.00	42.00	49.00	14.00	21.00	28.00	35.00	42.00
M 14 x 1.50	20.75	27.75	34.75	41.75	48.75	19.25	26.25	33.25	40.25	47.25	14.00	21.00	28.00	35.00	42.00
M 14 x 1.25	19.62	26.62	33.62	40.62	47.62	18.37	25.37	32.37	39.37	46.37	14.00	21.00	28.00	35.00	42.00
M 16 x 2.00	25.00	33.00	41.00	49.00	57.00	23.00	31.00	39.00	47.00	55.00	16.00	24.00	32.00	40.00	48.00
M 16 x 1.50	22.75	30.75	38.75	46.75	54.75	21.25	29.25	37.25	45.25	53.25	16.00	24.00	32.00	40.00	48.00
M 18 x 2.50	29.25	38.25	47.25	56.25	65.25	26.75	35.75	44.75	53.75	62.75	18.00	27.00	36.00	45.00	54.00
M 18 x 2.00	27.00	36.00	45.00	54.00	63.00	25.00	34.00	43.00	52.00	61.00	18.00	27.00	36.00	45.00	54.00
M 20 x 2.50	31.25	41.25	51.25	61.25	71.25	28.75	38.75	48.75	58.75	68.75	20.00	30.00	40.00	50.00	60.00
M 20 x 2.00	29.00	39.00	49.00	59.00	69.00	27.00	37.00	47.00	57.00	67.00	20.00	30.00	40.00	50.00	60.00
M 20 x 1.50	26.75	36.75	46.75	56.75	66.75	25.25	35.25	45.25	55.25	65.25	20.00	30.00	40.00	50.00	60.00
M 22 x 2.50	33.25	44.25	55.25	66.25	77.25	30.75	41.75	52.75	63.75	74.75	22.00	33.00	44.00	55.00	66.00
M 22 x 2.00	31.00	42.00	53.00	64.00	75.00	29.00	40.00	51.00	62.00	73.00	22.00	33.00	44.00	55.00	66.00
M 22 x 1.50	28.75	39.75	50.75	61.75	72.75	27.25	38.25	49.25	60.25	71.25	22.00	33.00	44.00	55.00	66.00
M 24 x 3.00	37.50	49.50	61.50	73.50	85.50	34.50	46.50	58.50	70.50	82.50	24.00	36.00	48.00	60.00	72.00
M 24 x 2.00	33.00	45.00	57.00	69.00	81.00	31.00	43.00	55.00	67.00	79.00	24.00	36.00	48.00	60.00	72.00
M 27 x 3.00	40.50	54.00	67.50	81.00	94.50	37.50	51.00	64.50	78.00	91.50	27.00	40.50	54.00	67.50	81.00
M 27 x 2.00	36.00	49.50	63.00	76.50	90.00	34.00	47.50	61.00	74.50	88.00	27.00	40.50	54.00	67.50	81.00
M 30 x 3.50	45.75	60.75	75.75	90.75	105.75	42.25	57.25	72.25	87.25	102.25	30.00	45.00	60.00	75.00	90.00
M 30 x 3.00	43.50	58.50	73.50	88.50	103.50	40.50	55.50	70.50	85.50	100.50	30.00	45.00	60.00	75.00	90.00
M 33 x 3.50	48.75	65.25	81.75	98.25	114.75	45.25	61.25	77.25	93.25	109.25	33.00	49.50	66.00	82.50	99.00
M 36 x 4.00	54.00	72.00	90.00	108.00	126.00	50.00	68.00	86.00	104.00	122.00	36.00	54.00	72.00	90.00	108.00
M 36 x 3.00	49.50	67.50	85.50	103.50	121.50	46.50	64.50	82.50	100.50	118.50	36.00	54.00	72.00	90.00	108.00
M 39 x 4.00	57.00	76.50	96.00	115.50	135.00	53.00	72.50	92.00	111.50	131.00	39.00	58.50	78.00	97.50	117.00
M 42 x 4.50	62.25	83.25	104.25	125.25	146.25	57.75	78.75	99.75	120.75	141.75	42.00	63.00	84.00	105.00	126.00
M 42 x 3.00	55.50	76.50	97.50	118.50	139.50	52.50	73.50	94.50	115.50	136.50	42.00	63.00	84.00	105.00	126.00

S Drilling Length
T Tapping Length
R Installation Length

S Longitud de taladrado
T Longitud de roscado
R Longitud de instalación

Technical Data for Wire-Thread-Inserts acc. to DIN 8140

Datos Técnicos para Insertos roscados de acuerdo al DIN 8140

	S (Inch)					T (Inch)					R (Inch)				
UNF	1D	1.5D	2D	2.5D	3D	1D	1.5D	2D	2.5D	3D	1D	1.5D	2D	2.5D	3D
2 - 64	.156	.199	.242	.285	.328	.141	.184	.227	.270	.313	.086	.129	.172	.215	.258
3 - 56	.179	.229	.278	.328	.377	.161	.210	.260	.310	.359	.099	.148	.198	.247	.297
4 - 48	.206	.262	.318	.374	.430	.185	.241	.297	.353	.409	.112	.168	.224	.280	.336
5 - 44	.227	.290	.352	.414	.477	.204	.267	.329	.391	.454	.125	.187	.250	.312	.375
6 - 40	.250	.319	.388	.457	.526	.225	.294	.363	.432	.501	.138	.207	.276	.345	.414
8 - 36	.289	.371	.453	.535	.617	.261	.343	.425	.507	.589	.164	.246	.328	.410	.492
10 - 32	.331	.426	.521	.616	.711	.299	.394	.489	.584	.679	.190	.285	.380	.475	.570
1/4 - 28	.411	.536	.661	.786	.911	.375	.500	.625	.750	.875	.250	.375	.500	.625	.750
5/16 - 24	.500	.656	.812	.969	1.125	.458	.614	.771	.927	1.083	.312	.469	.625	.781	.937
3/8 - 24	.562	.750	.937	1.124	1.312	.521	.708	.896	1.083	1.271	.375	.562	.750	.937	1.125
7/16 - 20	.662	.881	1.100	1.319	1.537	.612	.831	1.050	1.269	1.487	.437	.656	.875	1.094	1.312
1/2 - 20	.725	.975	1.225	1.475	1.725	.675	.925	1.175	1.425	1.675	.500	.750	1.000	1.250	1.500
9/16 - 18	.811	1.093	1.374	1.655	1.936	.756	1.038	1.319	1.600	1.881	.562	.844	1.125	1.406	1.687
5/8 - 18	.874	1.187	1.500	1.812	2.124	.819	1.132	1.444	1.757	2.069	.625	.937	1.250	1.562	1.875
3/4 - 16	1.031	1.406	1.781	2.156	2.531	.969	1.344	1.719	2.094	2.469	.750	1.125	1.500	1.875	2.250
7/8 - 14	1.196	1.634	2.071	2.509	2.946	1.125	1.562	2.000	2.437	2.875	.875	1.312	1.750	2.187	2.625
1" - 12	1.375	1.875	2.375	2.875	3.375	1.292	1.792	2.292	2.792	3.292	1.000	1.500	2.000	2.500	3.000
1 1/8 - 12	1.500	2.062	2.625	3.187	3.750	1.417	1.979	2.542	3.104	3.667	1.125	1.687	2.250	2.812	3.375
1 1/4 - 12	1.625	2.250	2.875	3.500	4.125	1.542	2.167	2.792	3.417	4.042	1.250	1.875	2.500	3.125	3.750
1 3/8 - 12	1.750	2.438	3.125	3.813	4.500	1.667	2.354	3.042	3.729	4.417	1.375	2.062	2.750	3.437	4.125
1 1/2 - 12	1.875	2.625	3.375	4.125	4.875	1.792	2.542	3.292	4.042	4.792	1.500	2.250	3.000	3.750	4.500
UNC															
2 - 56	.166	.209	.252	.295	.338	.148	.191	.234	.277	.320	.086	.129	.172	.215	.258
3 - 48	.193	.242	.292	.341	.391	.172	.221	.271	.320	.370	.099	.148	.198	.247	.297
4 - 40	.224	.280	.336	.392	.448	.199	.255	.311	.367	.423	.112	.168	.224	.280	.336
5 - 40	.237	.300	.362	.425	.487	.212	.275	.337	.400	.462	.125	.187	.250	.312	.375
6 - 32	.279	.348	.417	.486	.555	.247	.316	.385	.454	.523	.138	.207	.276	.345	.414
8 - 32	.305	.387	.469	.551	.633	.273	.355	.437	.519	.601	.164	.246	.328	.410	.492
10 - 24	.377	.472	.567	.662	.757	.336	.431	.526	.621	.716	.190	.285	.380	.475	.570
12 - 24	.403	.511	.619	.727	.835	.362	.470	.578	.686	.794	.216	.324	.432	.540	.648
1/4 - 20	.475	.600	.725	.850	.975	.425	.550	.675	.800	.925	.250	.375	.500	.625	.750
5/16 - 18	.562	.718	.875	1.031	1.187	.507	.663	.819	.975	1.132	.312	.469	.625	.781	.937
3/8 - 16	.656	.844	1.031	1.219	1.406	.594	.781	.969	1.156	1.344	.375	.562	.750	.937	1.125
7/16 - 14	.758	.977	1.196	1.415	1.633	.687	.906	1.125	1.344	1.562	.437	.656	.875	1.094	1.312
1/2 - 13	.846	1.096	1.346	1.596	1.846	.769	1.019	1.269	1.519	1.769	.500	.750	1.000	1.250	1.500
9/16 - 12	.937	1.219	1.500	1.781	2.062	.854	1.135	1.417	1.698	1.979	.562	.844	1.125	1.406	1.687
5/8 - 11	1.034	1.347	1.659	1.972	2.284	.943	1.256	1.568	1.881	2.193	.625	.937	1.250	1.562	1.875
3/4 - 10	1.200	1.575	1.950	2.325	2.700	1.100	1.475	1.850	2.225	2.600	.750	1.125	1.500	1.875	2.250
7/8 - 9	1.375	1.812	2.250	2.687	3.125	1.264	1.701	2.139	2.576	3.014	.875	1.312	1.750	2.187	2.625
1" - 8	1.562	2.062	2.562	3.062	3.562	1.437	1.937	2.437	2.937	3.437	1.000	1.500	2.000	2.500	3.000
1 1/8 - 7	1.768	2.330	2.893	3.455	4.018	1.625	2.187	2.750	3.312	3.875	1.125	1.687	2.250	2.812	3.375
1 1/4 - 7	1.893	2.518	3.143	3.768	4.393	1.750	2.375	3.000	3.625	4.250	1.250	1.875	2.500	3.125	3.750
1 3/8 - 6	2.125	2.812	3.500	4.187	4.875	1.958	2.646	3.333	4.021	4.708	1.375	2.062	2.750	3.437	4.125
1 1/2 - 6	2.250	3.000	3.750	4.500	5.250	2.083	2.833	3.583	4.333	5.083	1.500	2.250	3.000	3.750	4.500

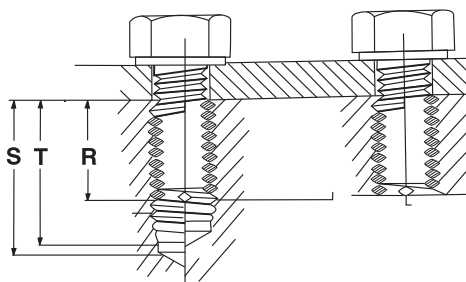
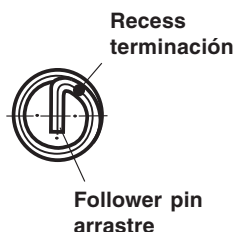
S Drilling Length
T Tapping Length
R Installation Length

S Longitud de taladrado
T Longitud de roscado
R Longitud de instalación

**Technical Data
for Wire-Thread-Inserts acc. to DIN 8140**

**Datos Técnicos para Insertos
roscados de acuerdo al DIN 8140**

	S (Inch)					T (Inch)					R (Inch)				
BSF	1D	1.5D	2D	2.5D	3D	1D	1.5D	2D	2.5D	3D	1D	1.5D	2D	2.5D	3D
3/16 - 32	.328	.422	.515	.609	.703	.297	.390	.484	.578	.672	.187	.281	.375	.469	.562
1/4 - 26	.423	.548	.673	.798	.923	.385	.510	.635	.760	.885	.250	.375	.500	.625	.750
5/16 - 22	.517	.673	.829	.986	1.142	.472	.628	.784	.940	1.096	.312	.469	.625	.781	.937
3/8 - 20	.600	.787	.975	1.162	1.350	.550	.737	.925	1.112	1.300	.375	.562	.750	.937	1.125
7/16 - 18	.687	.906	1.124	1.343	1.562	.632	.851	1.069	1.288	1.507	.437	.656	.875	1.094	1.312
1/2 - 16	.781	1.031	1.281	1.531	1.781	.719	.969	1.219	1.469	1.719	.500	.750	1.000	1.250	1.500
9/16 - 16	.844	1.125	1.406	1.687	1.969	.781	1.062	1.344	1.625	1.906	.562	.844	1.125	1.406	1.687
5/8 - 14	.946	1.259	1.571	1.884	2.196	.875	1.187	1.500	1.812	2.125	.625	.937	1.250	1.562	1.875
3/4 - 12	1.125	1.500	1.875	2.250	2.625	1.042	1.417	1.792	2.167	2.542	.750	1.125	1.500	1.875	2.250
7/8 - 11	1.284	1.722	2.159	2.596	3.034	1.193	1.631	2.068	2.506	2.943	.875	1.312	1.750	2.187	2.625
1" - 10	1.450	1.950	2.450	2.950	3.450	1.350	1.850	2.350	2.850	3.350	1.000	1.500	2.000	2.500	3.000
1"1/8 - 9	1.625	2.187	2.750	3.312	3.875	1.514	2.076	2.639	3.201	3.764	1.125	1.687	2.250	2.812	3.375
1"1/4 - 9	1.750	2.375	3.000	3.625	4.250	1.639	2.264	2.889	3.514	4.139	1.250	1.875	2.500	3.125	3.750
1"3/8 - 8	1.937	2.625	3.312	4.000	4.687	1.812	2.500	3.187	3.875	4.562	1.375	2.062	2.750	3.437	4.125
1"1/2 - 8	2.062	2.812	3.562	4.312	5.062	1.937	2.687	3.437	4.187	4.937	1.500	2.250	3.000	3.750	4.500
BSW															
1/8 - 40	.237	.300	.362	.425	.487	.212	.275	.337	.400	.462	.125	.187	.250	.312	.375
3/16 - 24	.375	.469	.562	.656	.750	.333	.427	.521	.614	.708	.187	.281	.375	.469	.562
1/4 - 20	.475	.600	.725	.850	.975	.425	.550	.675	.800	.925	.250	.375	.500	.625	.750
5/16 - 18	.562	.718	.875	1.031	1.187	.507	.663	.819	.975	1.132	.312	.469	.625	.781	.937
3/8 - 16	.656	.844	1.031	1.219	1.406	.594	.781	.969	1.156	1.344	.375	.562	.750	.937	1.125
7/16 - 14	.758	.977	1.196	1.415	1.633	.687	.906	1.125	1.344	1.562	.437	.656	.875	1.094	1.312
1/2 - 12	.875	1.125	1.375	1.625	1.875	.792	1.042	1.292	1.542	1.792	.500	.750	1.000	1.250	1.500
9/16 - 12	.937	1.219	1.500	1.781	2.062	.854	1.135	1.417	1.698	1.979	.562	.844	1.125	1.406	1.687
5/8 - 11	1.034	1.347	1.659	1.972	2.284	.943	1.256	1.568	1.881	2.193	.625	.937	1.250	1.562	1.875
3/4 - 10	1.200	1.575	1.950	2.325	2.700	1.100	1.475	1.850	2.225	2.600	.750	1.125	1.500	1.875	2.250
7/8 - 9	1.375	1.812	2.250	2.687	3.125	1.264	1.701	2.139	2.576	3.014	.875	1.312	1.750	2.187	2.625
1" - 8	1.562	2.062	2.562	3.062	3.562	1.437	1.937	2.437	2.937	3.437	1.000	1.500	2.000	2.500	3.000
1"1/8 - 7	1.768	2.330	2.893	3.455	4.018	1.625	2.187	2.750	3.312	3.875	1.125	1.687	2.250	2.812	3.375
1"1/4 - 7	1.893	2.518	3.143	3.768	4.393	1.750	2.375	3.000	3.625	4.250	1.250	1.875	2.500	3.125	3.750
1"1/2 - 6	2.250	3.000	3.750	4.500	5.250	2.083	2.833	3.583	4.333	5.083	1.500	2.250	3.000	3.750	4.500
G(BSP)															
1/8 - 28	.286	.348	.411	.437	.536	.250	.312	.375	.437	.500	.125	.187	.250	.312	.375
1/4 - 19	.487	.612	.737	.862	.987	.434	.559	.684	.809	.934	.250	.375	.500	.625	.750
3/8 - 19	.612	.799	.987	1.174	1.362	.559	.747	.934	1.122	1.309	.375	.562	.750	.937	1.125
1/2 - 14	.821	1.071	1.321	1.571	1.821	.750	1.000	1.250	1.500	1.750	.500	.750	1.000	1.250	1.500
5/8 - 14	.946	1.258	1.571	1.883	2.196	.875	1.187	1.500	1.812	2.125	.625	.937	1.250	1.562	1.875
3/4 - 14	1.071	1.446	1.821	2.196	2.571	1.000	1.375	1.750	2.125	2.500	.750	1.125	1.500	1.875	2.250
7/8 - 14	1.196	1.634	2.071	2.509	2.946	1.125	1.562	2.000	2.437	2.875	.875	1.312	1.750	2.187	2.625
1" - 11	1.409	1.909	2.409	2.909	3.409	1.318	1.818	2.318	2.818	3.318	1.000	1.500	2.000	2.500	3.000
1"1/4 - 11	1.660	2.284	2.909	3.534	4.159	1.568	2.193	2.818	3.443	4.068	1.250	1.875	2.500	3.125	3.750
1"1/2 - 11	1.909	2.659	3.409	4.159	4.909	1.818	2.568	3.318	4.068	4.818	1.500	2.250	3.000	3.750	4.500



Display VC 900

Expositor VC 900



Size	Qty.	Art.-No.	Price €	Total Price €
M				
M 5	5	04009	21,40	107,00
M 6	5	04010	23,10	115,50
M 8	5	04012	29,40	147,00
M 10	5	04016	31,40	157,00
M 12	5	04021	35,20	176,00
M 14 x 1.25	3	04096	48,50	145,50
M 5 - 12	3	04081	149,50	448,50
				1296,50



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