

BLUE-MASTER[®]
by *celesa*



THREAD
RESTORATION GUIDE



Manufactured from high quality chromium nickel stainless steel, PowerCoil Wire Thread 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

Produced from precision profiled austenitic stainless steel wire wound into a helical spiral, PowerCoil 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 heat 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

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, PowerCoil 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.

Features & Benefits

For many years, helically coiled wire thread inserts have been vastly underestimated. The popular misconception that they were designed for the repair of damaged threads has given this unique fastener a false image.

They are much lighter and less expensive than any other equivalent type of thread insert and because of their compact size, can generally be introduced into existing designs where no previous provision has been made. Unlike many other economic measures, their introduction increases quality and performance whilst reducing overall product cost. Their introduction may result in the use of thinner sections or lighter parent materials without sacrificing thread strength.

They protect tapped threads against failures due to stripping, seizing, corrosion and wear. PowerCoil wire thread inserts are produced from austenitic stainless steel wire which is work hardened to a tensile strength above 200,000psi and a hardness of Rc43-50. The inserts have an exceedingly smooth surface finish which virtually eliminates friction-induced thread erosion.

Strength

Due to their flexibility, wire thread inserts create internal threads which have a much improved distribution of residual stress loading when compared with conventional tapped holes, where up to 70% of the shearing forces are carried by the first three threads in the tapped hole. The flexibility of wire thread inserts helps to compensate for pitch and flank angle errors, inherent in normal tapped holes, and significantly enhances the load bearing capacity by deflecting the residual forces into a helical hoop stress which is dispersed into the wall of the tapped hole. This enables the design to be confidently based on the bolt strength utilising smaller and shorter threads even when used in low strength materials.

The high tensile coils of a wire thread insert undergo a diameter reduction during installation. The outward spring-like force of the coils "locks" the insert into place.

Each coil can flex independently to contact the greatest amount of parent material thread surface. Both static and dynamic load bearing capabilities are improved.

Reference standards

SBAC AS 6734 & 8456

British Society of Aerospace Companies Standard. Specifically referring to UNC thread free inserts, a mandatory requirement of the Society. In fact, very similar to the Military Standard.

SBAC AS 6733 & 8455

Same requirement as above, extending to all free inserts in general.

BS

British Standard for Small Diameter Inserts. This is the generalised standard for all insert manufacturers, equivalent to DIN8140.

NASM 3279, 3280 & 3281

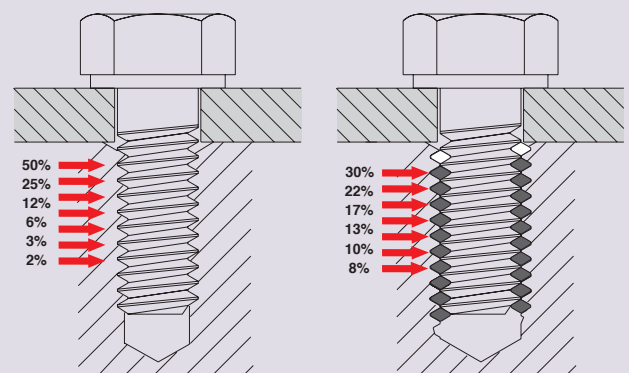
Military standard for free inserts. Military standard inserts are larger in diameter in the free state than standard inserts, making them more difficult to install and to remove. CELESA can supply and certify these inserts on request. The German DIN8140 standard for general purpose inserts has similar tolerances to the military standard inserts.

LN9499

German aerospace standard. No longer in use, although CELESA can supply and certify these inserts on request.

DIN8140

The Powercoil inserts distributed by CELESA comply with the requirements of the DIN8140 Standard.





SCREW THREAD INSERTS

Part No. **35 20 - 12.00 X 1.5D**

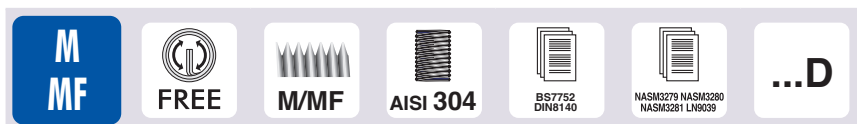
35 PowerCoil - Stainless Steel
36 Loksert - Carbon Steel
37 Loksert - Stainless Steel








DIAMETER

XX . XX Metric
XX / XX Imperial

20 Metric Coarse	32 UNC
21 Metric Fine	34 UNF
22 Spark Plug	44 BA
23 Metric Fine	46 BSP
24 Metric Fine	52 NPT
28 BSW	60 BSB
30 BSF	70 8-UN
00 Multifunctional	

X.XD Insert length as a factor of nominal screw	INC Inconel X-750
IR PowerCoil strip-feed reel	NM Nimonic 90
SL PowerCoil screw locking	NT Nitronic 60
K PowerCoil thread repair kit	Y 316 Stainless Steel
P PowerCoil Hang sell insert packet	CD Cadmium plate
WK PowerCoil workshop kit	ZN Zinc plate
HIT Hand installation tool	AG Silver plate
HIP Prewinder installation tool	FL Dry film lubricant
MIT Machine installation tool	I Tap Intermediate STI
HIM Hex drive installation mandrel	T Tap Taper STI
MIP Pneumatic installation tool	B Tap Bottoming STI
TB Tang break tool	SF Tap Spiral Flute STI
STB Spring loaded tang break tool	SP Tap Spiral Point STI
PTB Pneumatic tang break tool	FT Tap Fluteless STI
RT Removal/extraction tool	PD Loksert Thin Wall
LH Left Hand	PR Loksert Heavy Duty
GC Gauge STI 4H5H tolerance	TT Loksert Thin Wall install tool
GM Gauge STI 6H tolerance	HT Loksert Heavy Duty install tool
PB Phosphor bronze	T Loksert Universal install tool

FREE RUNNING INSERT


			 1.0D			 1.5D			 2.0D						
			L mm	€			L mm	€			L mm		€		
				<500	500-999	1000-...		<500	500-999	1000-...		<500	500-999	1000-...	Unit
M 2x0.40	3520-2.00	2.10	2.00	0,48	0,45	0,43	3.00	0,49	0,47	0,44	4.00	0,50	0,49	0,48	100
M 2.20x0.45	3520-2.20	2.30	2.20	0,48	0,45	0,43	3.30	0,49	0,47	0,44	4.40	0,50	0,49	0,48	100
M 2.50x0.45	3520-2.50	2.60	2.50	0,28	0,25	0,23	3.75	0,29	0,26	0,25	5.00	0,34	0,29	0,27	100
M 3x0.50	3520-3.00	3.20	3.00	0,28	0,25	0,24	4.50	0,29	0,26	0,25	6.00	0,34	0,27	0,26	100
M 3.50x0.60	3520-3.50	3.70	3.50	0,34	0,29	0,27	5.25	0,35	0,32	0,29	7.00	0,38	0,35	0,32	100
M 4x0.70	3520-4.00	4.20	4.00	0,27	0,23	0,22	6.00	0,28	0,25	0,24	8.00	0,34	0,27	0,26	100
M 5x0.80	3520-5.00	5.20	5.00	0,34	0,27	0,26	7.50	0,27	0,26	0,25	10.00	0,38	0,30	0,28	100
M 6x1.00	3520-6.00	6.30	6.00	0,35	0,28	0,26	9.00	0,28	0,26	0,25	12.00	0,42	0,38	0,36	100
M 7x1.00	3520-7.00	7.30	7.00	0,39	0,35	0,32	10.50	0,45	0,39	0,37	14.00	0,50	0,44	0,41	100
M 8x1.00	3521-8.00	8.30	8.00	0,40	0,38	0,36	12.00	0,42	0,40	0,36	16.00	0,53	0,45	0,42	100
M 8x1.25	3520-8.00	8.30	8.00	0,35	0,30	0,28	12.00	0,38	0,32	0,29	16.00	0,50	0,42	0,40	100
M 9x1.25	3520-9.00	9.40	9.00	0,50	0,45	0,43	13.50	0,64	0,60	0,54	18.00	0,67	0,61	0,56	100
M 10x1.00	3523-10.00	10.30	10.00	0,44	0,40	0,38	15.00	0,50	0,44	0,41	20.00	0,60	0,50	0,47	100
M 10x1.25	3521-10.00	10.30	10.00	0,44	0,39	0,37	15.00	0,50	0,44	0,41	20.00	0,60	0,54	0,49	100
M 10x1.50	3520-10.00	10.40	10.00	0,44	0,38	0,36	15.00	0,50	0,42	0,40	20.00	0,60	0,49	0,46	100
M 11x1.00	3523-11.00	11.30	11.00	0,60	0,51	0,48	16.50	0,88	0,80	0,74	22.00	1,22	1,09	1,02	100
M 11x1.25	3521-11.00	11.30	11.00	0,60	0,51	0,48	16.50	0,74	0,71	0,66	22.00	1,22	1,09	1,04	100
M 11x1.50	3520-11.00	11.40	11.00	0,76	0,62	0,58	16.50	0,86	0,72	0,67	22.00	0,89	0,80	0,74	100
M 12x1.00	3524-12.00	12.30	12.00	0,63	0,61	0,58	18.00	0,75	0,74	0,71	24.00	1,23	1,17	1,07	100
M 12x1.25	3523-12.00	12.30	12.00	0,63	0,53	0,49	18.00	0,75	0,61	0,56	24.00	0,87	0,80	0,74	100
M 12x1.50	3521-12.00	12.40	12.00	0,63	0,53	0,49	18.00	0,75	0,54	0,49	24.00	0,87	0,80	0,74	100
M 12x1.75	3520-12.00	12.50	12.00	0,63	0,51	0,48	18.00	0,75	0,65	0,61	24.00	0,87	0,75	0,69	100
M 13x1.25	3523-13.00	13.25	13.00	0,92	0,86	0,80	19.50	1,42	1,33	1,23	26.00	1,92	1,77	1,63	50
M 13x1.50	3521-13.00	13.25	13.00	0,92	0,86	0,80	19.50	1,42	1,33	1,23	26.00	1,92	1,77	1,63	50
M 13x1.75	3520-13.00	13.50	13.00	0,92	0,86	0,80	19.50	1,42	1,33	1,23	26.00	1,92	1,77	1,63	50
M 14x1.00	3524-14.00	14.25	14.00	1,16	1,12	1,09	21.00	1,20	1,16	1,10	28.00	1,38	1,33	1,25	50
M 14x1.25	3523-14.00	14.25	14.00	0,97	0,88	0,82	21.00	1,10	0,96	0,88	28.00	1,16	1,08	1,01	50
M 14x1.50	3521-14.00	14.50	14.00	0,97	0,84	0,79	21.00	1,10	0,90	0,84	28.00	1,16	1,12	1,05	50
M 14x2.00	3520-14.00	14.50	14.00	0,97	0,80	0,74	21.00	1,10	1,01	0,91	28.00	1,16	1,10	1,03	50

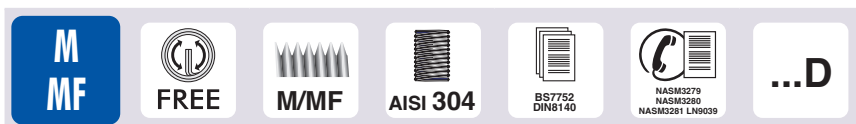
Important note: Theoretical insert length is referred to length after insert installation.

FREE RUNNING INSERT



		 2.5D	 3.0D	€			€			Unit	
				L mm	<500	500-999	1000-...	L mm	<500		500-999
M 2x0.40	3520-2.00	2.10	5.00	0,58	0,53	0,50	6.00	0,63	0,61	0,58	100
M 2.20x0.45	3520-2.20	2.30	5.50	0,58	0,53	0,50	6.60	0,63	0,61	0,58	100
M 2.50x0.45	3520-2.50	2.60	6.25	0,39	0,35	0,32	7.50	0,45	0,40	0,38	100
M 3x0.50	3520-3.00	3.20	7.50	0,39	0,35	0,32	9.00	0,45	0,40	0,38	100
M 3.50x0.60	3520-3.50	3.70	8.75	0,42	0,39	0,37	10.50	0,50	0,47	0,44	100
M 4x0.70	3520-4.00	4.20	10.00	0,39	0,35	0,32	12.00	0,42	0,38	0,36	100
M 5x0.80	3520-5.00	5.20	12.50	0,44	0,38	0,36	15.00	0,51	0,44	0,41	100
M 6x1.00	3520-6.00	6.30	15.00	0,50	0,47	0,44	18.00	0,63	0,54	0,50	100
M 7x1.00	3520-7.00	7.30	17.50	0,62	0,54	0,50	21.00	0,72	0,70	0,66	100
M 8x1.00	3521-8.00	8.30	20.00	0,64	0,60	0,54	24.00	0,78	0,74	0,68	100
M 8x1.25	3520-8.00	8.30	20.00	0,62	0,54	0,50	24.00	0,72	0,65	0,61	100
M 9x1.25	3520-9.00	9.40	22.50	0,74	0,67	0,65	27.00	0,87	0,84	0,81	100
M 10x1.00	3523-10.00	10.30	25.00	0,70	0,64	0,60	30.00	0,85	0,78	0,71	100
M 10x1.25	3521-10.00	10.30	25.00	0,70	0,66	0,63	30.00	0,85	0,83	0,78	100
M 10x1.50	3520-10.00	10.40	25.00	0,70	0,63	0,59	30.00	0,85	0,75	0,69	100
M 11x1.00	3523-11.00	11.30	27.50	1,62	1,54	1,46	33.00	2,00	1,91	1,79	100
M 11x1.25	3521-11.00	11.30	27.50	1,62	1,54	1,46	33.00	2,00	1,91	1,79	100
M 11x1.50	3520-11.00	11.40	27.50	1,11	1,03	0,93	33.00	1,31	1,27	1,22	100
M 12x1.00	3524-12.00	12.30	30.00	1,54	1,50	1,44	36.00	1,89	1,81	1,67	100
M 12x1.25	3523-12.00	12.30	30.00	1,03	1,01	0,96	36.00	1,25	1,18	1,10	100
M 12x1.50	3521-12.00	12.40	30.00	1,03	1,01	0,96	36.00	1,44	1,18	1,10	100
M 12x1.75	3520-12.00	12.50	30.00	1,03	1,00	0,89	36.00	1,31	1,24	1,18	100
M 13x1.25	3523-13.00	13.25	32.50	2,59	2,38	2,21	39.00	2,98	2,74	2,54	50
M 13x1.50	3521-13.00	13.25	32.50	2,59	2,38	2,21	39.00	2,98	2,74	2,54	50
M 13x1.75	3520-13.00	13.50	32.50	2,59	2,38	2,21	39.00	2,98	2,74	2,54	50
M 14x1.00	3524-14.00	14.25	35.00	1,66	1,58	1,46	42.00	2,16	1,82	1,68	50
M 14x1.25	3523-14.00	14.25	35.00	1,37	1,29	1,19	42.00	1,67	1,47	1,35	50
M 14x1.50	3521-14.00	14.50	35.00	1,37	1,28	1,18	42.00	1,67	1,53	1,42	50
M 14x2.00	3520-14.00	14.50	35.00	1,37	1,31	1,28	42.00	1,67	1,59	1,47	50

Important note: Theoretical insert length is referred to length after insert installation.







FREE RUNNING INSERT


			 1.0D			 1.5D			 2.0D			 Unit
			L mm	€		L mm	€		L mm	€		
				<100	100-500		<100	100-500		<100	100-500	
M 15 x 1.50	3521-15.00	15.25	15.00	1,54	1,28	22.50	1,98	1,63	30.00	2,50	2,10	50
M 15 x 2.00	3520-15.00	15.50	15.00	1,54	1,28	22.50	1,98	1,66	30.00	2,50	2,07	50
M 16 x 1.50	3521-16.00	16.50	16.00	1,29	0,87	24.00	1,35	0,98	32.00	1,67	1,28	50
M 16 x 2.00	3520-16.00	16.50	16.00	1,29	1,08	24.00	1,35	1,12	32.00	1,67	1,40	50
M 18 x 1.50	3523-18.00	18.50	18.00	1,89	1,61	27.00	2,21	1,88	36.00	2,98	2,54	50
M 18 x 2.00	3521-18.00	18.50	18.00	1,89	1,63	27.00	2,21	2,02	36.00	2,98	2,32	50
M 18 x 2.50	3520-18.00	19.00	18.00	1,89	1,56	27.00	2,21	1,84	36.00	2,98	2,48	50
M 20 x 1.50	3523-20.00	20.50	20.00	2,21	1,88	30.00	2,78	2,37	40.00	3,57	3,05	25
M 20 x 2.00	3521-20.00	20.50	20.00	2,21	1,56	30.00	2,78	2,22	40.00	3,57	3,05	25
M 20 x 2.50	3520-20.00	20.75	20.00	2,21	1,88	30.00	2,78	2,37	40.00	3,57	3,05	25
M 22 x 1.50	3523-22.00	22.50	22.00	2,38	2,03	33.00	2,98	2,54	44.00	3,77	3,21	25
M 22 x 2.00	3521-22.00	22.50	22.00	2,38	2,07	33.00	2,98	2,54	44.00	3,77	3,14	25
M 22 x 2.50	3520-22.00	22.75	22.00	2,38	2,02	33.00	2,98	2,54	44.00	3,77	3,21	25
M 24 x 1.50	3523-24.00	24.50	24.00	2,98	2,52	36.00	3,13	2,96	48.00	3,98	3,61	25
M 24 x 2.00	3521-24.00	24.50	24.00	2,98	2,66	36.00	3,13	2,96	48.00	3,98	3,70	25
M 24 x 3.00	3520-24.00	25.00	24.00	2,98	2,66	36.00	3,13	2,96	48.00	3,98	3,48	25
M 26 x 1.50	3523-26.00	26.50	26.00	4,53	3,84	39.00	5,15	4,39	52.00	6,69	5,69	10
M 27 x 1.50	3523-27.00	27.50	27.00	4,25	3,62	40.50	5,15	4,39	54.00	6,31	5,36	10
M 27 x 2.00	3521-27.00	27.50	27.00	4,38	3,73	40.50	5,15	4,42	54.00	6,31	5,30	10
M 27 x 3.00	3520-27.00	28.00	27.00	3,74	3,17	40.50	5,15	4,84	54.00	6,57	6,26	10
M 28 x 1.50	3523-28.00	28.50	28.00	4,34	3,70	42.00	5,15	4,39	56.00	6,69	5,69	10
M 30 x 1.50	3523-30.00	30.50	30.00	5,12	4,37	45.00	5,89	5,01	60.00	7,28	6,18	10
M 30 x 2.00	3521-30.00	30.50	30.00	4,83	4,12	45.00	5,89	5,01	60.00	7,56	6,44	10
M 30 x 3.50	3520-30.00	31.00	30.00	4,31	3,80	45.00	5,89	4,22	60.00	7,86	6,69	10
M 33 x 2.00	3521-33.00	33.50	33.00	7,26	6,17	49.50	7,54	6,56	66.00	8,82	7,54	10
M 33 x 3.50	3520-33.00	34.00	33.00	6,31	5,36	49.50	7,54	6,56	66.00	9,04	7,72	10
M 36 x 1.50	3524-36.00	36.50	36.00	6,21	5,28	54.00	7,54	6,56	72.00	9,08	8,58	10
M 36 x 2.00	3523-36.00	36.50	36.00	6,21	5,28	54.00	7,54	6,42	72.00	9,08	8,58	10
M 36 x 3.00	3521-36.00	37.00	36.00	6,21	5,28	54.00	7,54	7,23	72.00	9,21	8,58	10
M 36 x 4.00	3520-36.00	37.00	36.00	6,21	5,28	54.00	7,54	6,25	72.00	9,08	7,98	10
M 39 x 3,00	3521-39.00	40.00	39.00	-	-	58.50	30,30	-	78.00	-	-	1
M 39 x 4,00	3520-39.00	40.25	39.00	31,42	-	58.50	36,38	-	78.00	38,72	-	1
M 40 x 3,00	3523-40.00	41.00	40.00	-	-	60.00	42,79	-	80.00	-	-	1
M 42 x 3,00	3523-42.00	43.00	42.00	-	-	63.00	42,79	-	84.00	-	-	1
M 42 x 4,50	3520-42.00	43.50	42.00	-	-	63.00	43,15	-	84.00	-	-	1
M 45 x3,00	3523-45.00	46.00	45.00	-	-	67.50	51,48	-	90.00	-	-	1
M 45 x 4,50	3520-45.00	46.50	45.00	-	-	67.50	51,91	-	90.00	-	-	1
M 48 x 3,00	3523-48.00	49.00	48.00	-	-	72.00	51,48	-	96.00	-	-	1
M 48 x 5,00	3520-48.00	49.50	48.00	-	-	72.00	68,14	-	96.00	-	-	1
M 50 x 3,00	3523-50.00	51.00	50.00	-	-	75.00	67,57	-	100.00	-	-	1
M 52 x 3,00	3523-52.00	53.00	52.00	-	-	78.00	72,40	-	104.00	-	-	1
M 52 x 5,00	3520-52.00	53.50	52.00	-	-	78.00	73,01	-	104.00	-	-	1

Important note: Theoretical insert length is referred to length after insert installation.

FREE RUNNING INSERT

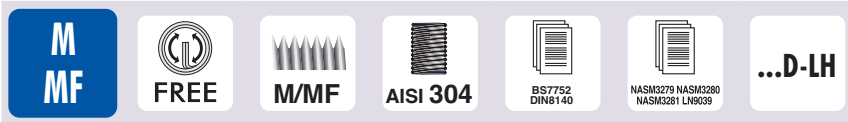






			 2.5D			 3.0D				
			L mm	€		L mm	€			Unit
				<100	100-500		<100	100-500		
M 15 x 1.50	3521-15.00	15.25	37.50	3,08	2,57	45.00	3,57	2,95	50	
M 15 x 2.00	3520-15.00	15.50	37.50	3,08	2,57	45.00	3,57	2,95	50	
M 16 x 1.50	3521-16.00	16.50	40.00	1,83	1,56	48.00	2,16	1,75	50	
M 16 x 2.00	3520-16.00	16.50	40.00	1,83	1,62	48.00	2,16	1,85	50	
M 18 x 1.50	3523-18.00	18.50	45.00	3,38	2,89	54.00	3,98	3,38	50	
M 18 x 2.00	3521-18.00	18.50	45.00	3,38	2,71	54.00	3,98	3,12	50	
M 18 x 2.50	3520-18.00	19.00	45.00	3,38	2,81	54.00	3,98	3,31	50	
M 20 x 1.50	3523-20.00	20.50	50.00	3,98	3,38	60.00	4,57	3,89	25	
M 20 x 2.00	3521-20.00	20.50	50.00	3,98	3,38	60.00	4,57	3,89	25	
M 20 x 2.50	3520-20.00	20.75	50.00	3,98	3,38	60.00	4,57	3,89	25	
M 22 x 1.50	3523-22.00	22.50	55.00	4,32	3,68	66.00	5,21	4,43	25	
M 22 x 2.00	3521-22.00	22.50	55.00	4,32	3,68	66.00	5,21	4,43	25	
M 22 x 2.50	3520-22.00	22.75	55.00	4,32	3,68	66.00	5,21	4,43	25	
M 24 x 1.50	3523-24.00	24.50	60.00	5,22	4,34	72.00	5,57	5,09	25	
M 24 x 2.00	3521-24.00	24.50	60.00	5,22	4,44	72.00	5,57	5,21	25	
M 24 x 3.00	3520-24.00	25.00	60.00	5,22	4,44	72.00	6,37	5,60	25	
M 26 x 1.50	3523-26.00	26.50	65.00	8,95	7,59	78.00	11,18	9,50	10	
M 27 x 1.50	3523-27.00	27.50	67.50	8,19	6,96	81.00	9,67	8,22	10	
M 27 x 2.00	3521-27.00	27.50	67.50	7,44	6,33	81.00	8,78	7,48	10	
M 27 x 3.00	3520-27.00	28.00	67.50	7,74	6,58	81.00	9,14	7,78	10	
M 28 x 1.50	3523-28.00	28.50	70.00	9,61	8,18	84.00	11,53	9,82	10	
M 30 x 1.50	3523-30.00	30.50	75.00	9,79	8,33	90.00	11,73	9,98	10	
M 30 x 2.00	3521-30.00	30.50	75.00	8,69	7,41	90.00	10,01	8,53	10	
M 30 x 3.50	3520-30.00	31.00	75.00	8,65	7,35	90.00	9,52	8,11	10	
M 33 x 2.00	3521-33.00	33.50	82.50	9,71	8,25	99.00	10,68	9,08	10	
M 33 x 3.50	3520-33.00	34.00	82.50	11,32	9,63	99.00	12,77	10,86	10	
M 36 x 1.50	3524-36.00	36.50	90.00	11,88	10,11	108.00	13,08	11,12	10	
M 36 x 2.00	3523-36.00	36.50	90.00	11,20	9,52	108.00	12,27	10,44	10	
M 36 x 3.00	3521-36.00	37.00	90.00	11,04	9,40	108.00	12,16	10,34	10	
M 36 x 4.00	3520-36.00	37.00	90.00	12,79	10,88	108.00	16,49	14,02	10	





Coding example:

M 15x1.50	 1.0D	 1.5D
M 15x1.50	3520-15.00x1.0D	3520-15.00x1.5D

FREE RUNNING INSERT

LEFT HAND THREAD INSERT


			 1.5D				€
			L	€			
		Ø	mm				
M 3 x 0.50	3520-3.00x1.5D-LH	3.20	4.50	4,45	3520-3.00I-LH		26,58
M 4 x 0.70	3520-4.00x1.5D-LH	4.20	6.00	4,45	3520-4.00I-LH		26,58
M 5 x 0.80	3520-5.00x1.5D-LH	5.20	7.50	4,45	3520-5.00I-LH		26,58
M 6 x 1.00	3520-6.00x1.5D-LH	6.30	9.00	3,07	3520-6.00I-LH		26,58
M 8 x 1.25	3520-8.00x1.5D-LH	8.30	12.00	3,07	3520-8.00I-LH		33,10
M 10 x 1.50	3520-10.00x1.5D-LH	10.40	15.00	4,10	3520-10.00I-LH		40,56
M 12 x 1.75	3520-12.00x1.5D-LH	12.50	18.00	6,13	3520-12.00I-LH		45,91


AISI 316


			 1.5D			€
			L	€		
		Ø	mm			
M 3 x 0.50	3520-3.00x1.5DY	3.20	4.50	2,29		
M 4 x 0.70	3520-4.00x1.5DY	4.20	6.00	2,40		
M 5 x 0.80	3520-5.00x1.5DY	5.20	7.50	2,49		
M 6 x 1.00	3520-6.00x1.5DY	6.30	9.00	2,54		
M 8 x 1.25	3520-8.00x1.5DY	8.30	12.00	3,06		
M 10 x 1.50	3520-10.00x1.5DY	10.40	15.00	3,15		
M 12 x 1.75	3520-12.00x1.5DY	12.50	18.00	3,43		



Coding example:

M 6 x 1.00



3520-6.00X1.5DY

TANGLESS INSERTS



D	L	Ø	1.0D			1.5D			2.0D			Unit			
			L mm	€			L mm	€			L mm		€		
				<500	500-999	1000-...		<500	500-999	1000-...		<500	500-999	1000-...	
M 3 x 0.50	3520-3.00DTL	3.20	3.00	0,44	0,39	0,38	4.50	0,46	0,41	0,39	6.00	0,50	0,42	0,41	100
M 4 x 0.70	3520-4.00DTL	4.20	4.00	0,42	0,36	0,34	6.00	0,44	0,39	0,38	8.00	0,50	0,42	0,41	100
M 5 x 0.80	3520-5.00DTL	5.20	5.00	0,50	0,42	0,41	7.50	0,42	0,41	0,39	10.00	0,59	0,47	0,44	100
M 6 x 1.00	3520-6.00DTL	6.30	6.00	0,53	0,44	0,41	9.00	0,44	0,41	0,39	12.00	0,65	0,59	0,54	100
M 8 x 1.25	3520-8.00DTL	8.30	8.00	0,53	0,47	0,44	12.00	0,59	0,49	0,46	16.00	0,80	0,65	0,62	100
M 10 x 1.50	3520-10.00DTL	10.40	10.00	0,68	0,59	0,54	15.00	0,80	0,65	0,62	20.00	0,91	0,78	0,71	100
M 12 x 1.75	3520-12.00DTL	12.50	12.00	0,97	0,81	0,76	18.00	1,16	1,01	0,93	24.00	1,35	1,16	1,07	100



Coding example:

	1.0D	1.5D	2.0D
M 3 x 0.50	3520-3.00X1.0DTL	3520-3.00X1.5DTL	3520-3.00X2.0DTL

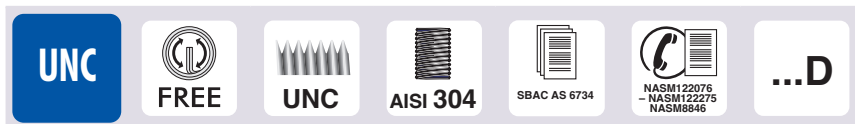
TANGLESS INSERTS INSTALLATION TOOL



TANG FREE

	€
3520-3MITTL	608,98
3520-4MITTL	608,98
3520-5MITTL	608,98
3520-6MITTL	608,98
3520-8MITTL	608,98
3520-10MITTL	608,98
3520-12MITTL	608,98



FREE RUNNING INSERT


		D1 mm		1.0D			1.5D			2.0D			Unit			
				L mm	€			L mm	€			L mm		€		
				<500	500-999	1000-...	<500	500-999	1000-...	<500	500-999	1000-...				
UNC №2-56	3532-2G	2.18	2.40	2.29	0,65	0,60	0,54	3.30	0,76	0,69	0,65	4.32	1,00	0,89	0,83	100
UNC №3-48	3532-3G	2.51	2.70	2.54	0,66	0,62	0,58	3.81	0,71	0,65	0,61	5.08	0,75	0,70	0,66	100
UNC №4-40	3532-4G	2.84	3.00	2.79	0,35	0,30	0,28	4.32	0,36	0,32	0,29	5.59	0,37	0,34	0,30	100
UNC №5-40	3532-5G	3.17	3.40	3.30	0,38	0,34	0,30	4.83	0,39	0,35	0,32	6.35	0,41	0,38	0,36	100
UNC №6-32	3532-6G	3.50	3.70	3.56	0,28	0,26	0,25	5.33	0,30	0,28	0,26	7.11	0,35	0,29	0,27	100
UNC №8-32	3532-8G	4.17	4.40	4.06	0,29	0,27	0,26	6.35	0,34	0,29	0,27	8.38	0,37	0,30	0,28	100
UNC №10-24	3532-10G	4.83	5.10	4.83	0,34	0,29	0,27	7.37	0,37	0,30	0,28	9.65	0,39	0,35	0,32	100
UNC №12-24	3532-12G	5.49	5.70	5.59	0,38	0,34	0,30	8.13	0,41	0,38	0,36	10.92	0,44	0,40	0,38	100
UNC 1/4-20	3532-1/4	6.35	6.70	6.35	0,38	0,34	0,30	9.65	0,41	0,38	0,36	12.70	0,44	0,40	0,38	100
UNC 5/16-18	3532-5/16	7.94	8.30	7.87	0,49	0,42	0,40	11.94	0,61	0,51	0,48	15.75	0,63	0,54	0,50	100
UNC 3/8-16	3532-3/8	9.52	9.90	9.65	0,69	0,63	0,59	14.48	0,75	0,66	0,62	19.30	1,00	0,86	0,80	100
UNC 7/16-14	3532-7/16	11.11	11.60	11.18	0,84	0,74	0,68	16.76	1,01	0,88	0,82	22.35	1,13	1,01	0,91	100
UNC 1/2-13	3532-1/2	12.70	13.00	12.70	0,89	0,79	0,72	19.05	1,01	0,88	0,82	25.40	1,13	1,01	0,91	100
UNC 9/16-12	3532-9/16	14.28	15.00	14.22	1,74	1,53	1,42	21.34	2,03	1,80	1,66	28.45	2,59	2,28	2,11	50
UNC 5/8-11	3532-5/8	15.87	16.50	16.00	1,75	1,54	1,44	24.13	2,04	1,81	1,67	32.00	2,61	2,30	2,13	50
UNC 3/4-10	3532-3/4	19.05	20.00	19.05	1,93	1,71	1,56	28.70	2,40	2,13	1,96	38.10	2,88	2,54	2,34	50
UNC 7/8-9	3532-7/8	22.22	23.00	22.35	2,51	2,22	2,04	33.53	3,13	2,76	2,55	44.70	3,74	3,30	3,03	25
UNC 1-8	3532-1	25.40	26.25	25.40	3,66	3,57	3,30	38.10	5,47	5,34	4,92	50.80	6,95	6,80	6,27	25
UNC 1.1/8-7	3532-1.1/8	28.57	29.50	28.70	5,82	5,13	4,71	42.93	7,70	6,78	6,25	57.15	7,98	7,04	6,47	25
UNC 1.1/4-7	3532-1.1/4	31.75	32.50	31.75	6,35	5,59	5,15	47.75	8,06	7,10	6,53	63.50	9,09	8,00	7,36	10
UNC 1.3/8-6	3532-1.3/8	34.92	36.00	35.05	6,96	6,13	5,65	52.58	8,59	7,56	6,96	69.85	10,19	8,98	8,25	10
UNC 1.1/2-6	3532-1.1/2	38.10	39.50	38.10	8,06	7,10	6,53	57.15	11,08	9,75	8,99	76.20	12,81	11,28	10,37	10

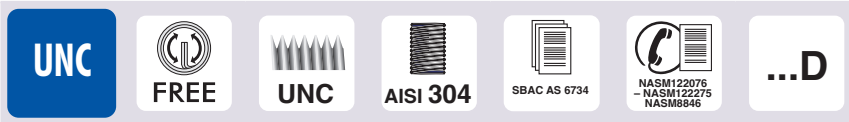
Important note: Theoretical insert length is referred to length after insert installation.



Coding example:

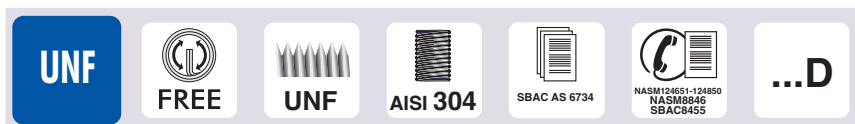
	1.0D	1.5D	2.0D
UNC 1/4-20	3532-1/4x1.0D	3532-1/4x1.5D	3532-1/4x2.0D




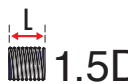
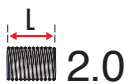
FREE RUNNING INSERT



D	UNC	3532-2G	D1 mm	D2 mm	L mm	2.5D			3.0D			Unit	
						<500	500-999	1000-...	<500	500-999	1000-...		
UNC	Nº2-56	3532-2G	2.18	2.40	5.59	1,11	1,02	0,92	6.60	1,39	1,25	1,16	100
UNC	Nº3-48	3532-3G	2.51	2.70	6.35	0,79	0,72	0,67	7.62	0,87	0,80	0,74	100
UNC	Nº4-40	3532-4G	2.84	3.00	9.65	0,41	0,38	0,36	8.64	0,49	0,42	0,40	100
UNC	Nº5-40	3532-5G	3.17	3.40	7.87	0,49	0,42	0,40	9.65	0,61	0,51	0,48	100
UNC	Nº6-32	3532-6G	3.50	3.70	8.89	0,38	0,34	0,30	10.41	0,44	0,39	0,37	100
UNC	Nº8-32	3532-8G	4.17	4.40	10.41	0,39	0,36	0,34	12.45	0,46	0,41	0,39	100
UNC	Nº10-24	3532-10G	4.83	5.10	12.19	0,47	0,41	0,39	14.48	0,58	0,49	0,46	100
UNC	Nº12-24	3532-12G	5.49	5.70	13.72	0,53	0,48	0,45	16.51	0,66	0,60	0,54	100
UNC	1/4-20	3532-1/4	6.35	6.70	16.00	0,53	0,48	0,45	19.05	0,66	0,60	0,54	100
UNC	5/16-18	3532-5/16	7.94	8.30	19.81	0,75	0,65	0,61	23.62	0,89	0,79	0,72	100
UNC	3/8-16	3532-3/8	9.52	9.90	24.13	1,12	1,00	0,91	28.96	1,34	1,18	1,09	100
UNC	7/16-14	3532-7/16	11.11	11.60	27.94	1,37	1,20	1,11	33.53	1,67	1,47	1,35	100
UNC	1/2-13	3532-1/2	12.70	13.00	31.75	1,37	1,20	1,11	38.10	1,67	1,47	1,35	100
UNC	9/16-12	3532-9/16	14.28	15.00	35.56	3,24	2,86	2,63	42.67	3,50	3,09	2,86	50
UNC	5/8-11	3532-5/8	15.87	16.50	40.13	3,29	2,90	2,67	48.01	3,54	3,12	2,88	50
UNC	3/4-10	3532-3/4	19.05	20.00	47.75	3,75	3,31	3,05	57.15	4,13	3,64	3,35	50
UNC	7/8-9	3532-7/8	22.22	23.00	55.88	4,87	4,28	3,95	67.06	5,36	4,71	4,35	25
UNC	1-8	3532-1	25.40	26.25	63.50	8,21	8,03	7,41	76.20	9,96	9,73	8,97	25
UNC	1.1/8-7	3532-1.1/8	28.57	29.50	71.37	9,95	8,77	8,07	85.85	11,08	9,75	8,99	25
UNC	1.1/4-7	3532-1.1/4	31.75	32.50	79.50	11,40	10,05	9,24	95.25	12,82	11,29	10,38	10
UNC	1.3/8-6	3532-1.3/8	34.92	36.00	87.38	12,87	11,33	10,44	104.90	14,04	12,36	11,37	10
UNC	1.1/2-6	3532-1.1/2	38.10	39.50	95.25	16,75	14,74	13,58	114.30	19,05	16,77	15,44	10

Important note: Theoretical insert length is referred to length after insert installation.

FREE RUNNING INSERT


		D1 mm	L mm	 1.0D			 1.5D			 2.0D			Unit			
				L mm	€	€	L mm	€	€	L mm	€	€				
UNF N°3 - 56	3534-3G	2.51	2.70	2.54	0,50	0,45	0,42	3.81	0,63	0,56	0,51	5.08	0,76	0,67	0,63	100
UNF N°4 - 48	3534-4G	2.84	3.00	2.79	0,50	0,45	0,42	4.32	0,63	0,56	0,51	5.59	0,76	0,67	0,63	100
UNF N°6 - 40	3534-6G	3.50	3.70	3.56	0,50	0,45	0,42	5.33	0,63	0,56	0,51	7.11	0,76	0,67	0,63	100
UNF N°8 - 36	3534-8G	4.17	4.40	4.06	0,50	0,45	0,42	6.35	0,63	0,56	0,51	8.38	0,76	0,67	0,63	100
UNF N°10 - 32	3534-10G	4.83	5.10	4.83	0,37	0,30	0,28	7.37	0,38	0,34	0,30	9.65	0,44	0,39	0,37	100
UNF N°12 - 28	3534-12G	5.49	5.70	5.59	0,60	0,51	0,48	8.13	0,62	0,58	0,51	10.92	0,64	0,61	0,56	100
UNF 1/4 - 28	3534-1/4	6.35	6.60	6.35	0,37	0,30	0,28	9.65	0,38	0,34	0,30	12.70	0,44	0,39	0,37	100
UNF 5/16 - 24	3534-5/16	7.94	8.20	7.87	0,48	0,42	0,40	11.94	0,51	0,45	0,42	15.75	0,63	0,53	0,49	100
UNF 3/8 - 24	3534-3/8	9.52	9.80	9.65	0,72	0,63	0,59	14.48	0,75	0,65	0,61	19.30	0,89	0,79	0,72	100
UNF 7/16 - 20	3534-7/16	11.11	11.50	11.18	0,88	0,78	0,71	16.76	1,01	0,87	0,81	22.35	1,12	1,00	0,91	100
UNF 1/2 - 20	3534-1/2	12.70	13.00	12.70	0,88	0,78	0,71	19.05	1,01	0,87	0,81	25.40	1,12	1,00	0,91	100
UNF 9/16 - 18	3534-9/16	14.29	14.70	14.22	1,98	1,75	1,61	21.34	2,10	1,85	1,71	28.45	2,50	2,22	2,04	50
UNF 5/8 - 18	3534-5/8	15.87	16.30	16.00	2,03	1,80	1,66	24.13	2,21	1,94	1,80	32.00	2,50	2,22	2,04	50
UNF 3/4 - 16	3534-3/4	19.05	19.50	19.05	2,24	1,97	1,83	28.70	2,40	2,13	1,96	38.10	2,74	2,42	2,23	50
UNF 7/8 - 14	3534-7/8	22.22	22.50	22.35	4,66	4,11	3,78	33.53	6,87	6,05	5,58	44.70	8,75	7,70	7,09	25
UNF 1-12	3534-1	25.40	26.00	25.40	4,66	4,11	3,78	38.10	6,87	6,05	5,58	50.80	8,75	7,70	7,09	25
UNF 1-14	3535-1	25.40	26.00	25.40	4,85	4,25	3,92	38.10	7,15	6,30	5,79	50.80	9,09	7,99	7,35	25
UNF 1.1/8 - 12	3534-1.1/8	28.57	29.50	28.70	6,68	5,89	5,42	43.18	8,82	7,77	7,15	57.15	9,16	8,06	7,43	10
UNF 1.1/4 - 12	3534-1.1/4	31.75	32.50	31.75	7,26	6,39	5,89	47.75	9,60	8,44	7,78	63.50	10,42	9,17	8,43	10
UNF 1.3/8 - 12	3534-1.3/8	34.92	35.50	35.05	7,96	7,01	6,45	52.58	9,85	8,66	7,97	69.85	11,67	10,27	9,45	10
UNF 1.1/2 - 12	3534-1.1/2	38.10	38.50	38.10	9,22	8,12	7,48	57.15	11,99	11,64	10,71	76.20	14,67	12,92	11,89	10

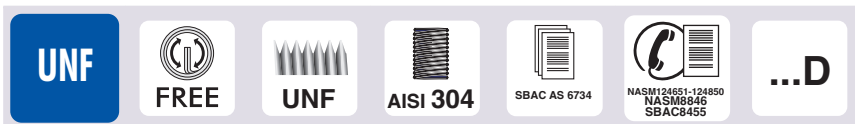
Important note: Theoretical insert length is referred to length after insert installation.







Coding example:

	 1.0D	 1.5D	 2.0D
UNF N°3 - 56	3534-3Gx1.0D	3534-3Gx1.5D	3534-3Gx2.0D

FREE RUNNING INSERT



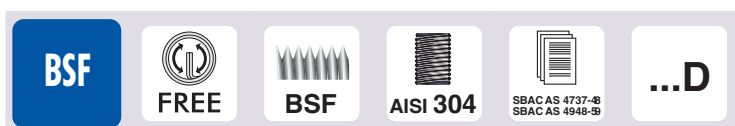
		D1 mm	L mm	 2.5D			 3.0D			Unit	
				€	€	€	€	€	€		
				<500	500-999	1000-...	<500	500-999	1000-...		
UNF N°3 - 56	3534-3G	2.51 2.70	6.35	0,87	0,78	0,71	7.62	1,02	0,89	0,83	100
UNF N°4 - 48	3534-4G	2.84 3.00	7.11	0,87	0,78	0,71	8.64	1,02	0,89	0,83	100
UNF N°6 - 40	3534-6G	3.50 3.70	8.89	0,87	0,78	0,71	10.41	1,02	0,89	0,83	100
UNF N°8 - 36	3534-8G	4.17 4.40	10.41	0,87	0,78	0,71	12.45	1,02	0,89	0,83	100
UNF N°10 - 32	3534-10G	4.83 5.10	12.19	0,58	0,49	0,46	14.48	0,66	0,60	0,54	100
UNF N°12 - 28	3534-12G	5.49 5.70	13.72	0,67	0,63	0,59	16.51	0,75	0,70	0,66	100
UNF 1/4 - 28	3534-1/4	6.35 6.60	16.00	0,58	0,49	0,46	19.05	0,66	0,60	0,54	100
UNF 5/16 - 24	3534-5/16	7.94 8.20	19.81	0,76	0,67	0,63	23.62	0,89	0,79	0,72	100
UNF 3/8 - 24	3534-3/8	9.52 9.80	24.13	1,13	1,01	0,91	28.96	1,34	1,18	1,09	100
UNF 7/16 - 20	3534-7/16	11.11 11.50	27.94	1,40	1,23	1,13	33.53	1,67	1,47	1,35	100
UNF 1/2 - 20	3534-1/2	12.70 13.00	31.75	1,40	1,23	1,13	38.10	1,67	1,47	1,35	100
UNF 9/16 - 18	3534-9/16	14.29 14.70	35.56	3,17	2,79	2,58	42.67	3,56	3,13	2,89	50
UNF 5/8 - 18	3534-5/8	15.87 16.30	40.13	2,98	2,63	2,42	48.01	3,56	3,13	2,89	50
UNF 3/4 - 16	3534-3/4	19.05 19.50	47.75	3,75	3,31	3,05	57.15	4,13	3,64	3,35	50
UNF 7/8 - 14	3534-7/8	22.22 22.50	55.88	10,45	9,20	8,46	67.06	12,17	10,71	9,86	25
UNF 1 - 12	3534-1	25.40 26.00	63.50	10,45	9,20	8,46	76.20	12,17	10,71	9,86	25
UNF 1 - 14	3535-1	25.40 26.00	63.50	10,45	9,20	8,46	76.20	12,53	11,03	10,15	25
UNF 1.1/8 - 12	3534-1.1/8	28.57 29.50	71.37	11,40	10,05	9,24	85.85	12,71	11,18	10,29	10
UNF 1.1/4 - 12	3534-1.1/4	31.75 32.50	79.50	13,03	11,48	10,57	95.25	14,69	12,93	11,89	10
UNF 1.3/8 - 12	3534-1.3/8	34.92 35.50	87.38	14,74	12,98	11,95	104.90	16,07	14,14	13,02	10
UNF 1.1/2 - 12	3534-1.1/2	38.10 38.50	95.25	19,16	16,87	15,52	114.30	21,82	19,20	17,67	10



Other contents available on demand.

FREE RUNNING INSERT


	D1 mm		1.0D		1.5D		2.0D		2.5D		3.0D		Unit	
			L mm	€	L mm	€	L mm	€	L mm	€	L mm	€		
BSW 1/8 - 40	3528-1/8	3.17	3.40	3.30	0,44	5.08	0,48	6.60	0,58	8.38	0,74	9.91	0,96	100
BSW 3/16 - 24	3528-3/16	4.76	5.00	4.83	0,44	7.37	0,48	9.65	0,58	12.19	0,74	14.48	0,96	100
BSW 1/4 - 20	3528-1/4	6.35	6.70	6.35	0,40	9.65	0,44	12.70	0,50	16.00	0,66	19.05	0,71	100
BSW 5/16 - 18	3528-5/16	7.94	8.30	7.87	0,46	11.94	0,53	15.75	0,59	19.81	0,69	23.62	0,85	100
BSW 3/8 - 16	3528-3/8	9.52	10.00	9.65	0,83	14.48	0,88	19.30	1,05	24.13	1,23	28.96	1,47	100
BSW 7/16 - 14	3528-7/16	11.11	11.60	11.18	1,01	16.76	1,10	22.35	1,27	27.94	1,50	33.53	1,84	100
BSW 1/2 - 12	3528-1/2	12.70	13.00	12.70	1,01	19.05	1,10	25.40	1,27	31.75	1,50	38.10	1,84	100
BSW 9/16 - 12	3528-9/16	14.29	14.75	14.22	2,50	21.34	3,50	28.45	4,11	35.56	4,88	42.67	5,97	50
BSW 5/8 - 11	3528-5/8	15.87	16.50	16.00	2,50	24.13	3,50	32.00	4,11	40.13	4,88	48.01	5,97	50
BSW 3/4 - 10	3528-3/4	19.05	20.00	19.05	3,24	28.70	4,16	38.10	5,06	47.75	6,08	57.15	7,28	50
BSW 7/8 - 9	3528-7/8	22.22	23.25	22.35	4,16	33.53	5,80	44.70	7,26	55.88	8,74	67.06	10,48	25
BSW 1 - 8	3528-1	25.40	26.50	25.40	4,48	38.10	6,65	50.80	7,26	63.50	8,74	76.20	10,48	25





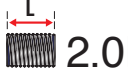



	D1 mm		1.0D		1.5D		2.0D		2.5D		3.0D		Unit	
			L mm	€	L mm	€	L mm	€	L mm	€	L mm	€		
BSF 3/16 - 32	3530-3/16	4.76	5.00	4.83	0,44	7.37	0,48	9.65	0,59	12.19	0,68	14.48	0,81	100
BSF 1/4 - 26	3530-1/4	6.35	6.60	6.35	0,42	9.65	0,44	12.70	0,51	16.00	0,63	19.05	0,72	100
BSF 5/16 - 22	3530-5/16	7.94	8.30	7.87	0,44	11.94	0,54	15.75	0,60	19.81	0,72	23.62	0,87	100
BSF 3/8 - 20	3530-3/8	9.52	9.80	9.65	0,84	14.48	0,90	19.30	1,07	24.13	1,25	28.96	1,50	100
BSF 7/16 - 18	3530-7/16	11.11	11.60	11.18	1,03	16.76	1,12	22.35	1,29	27.94	1,53	33.53	1,88	100
BSF 1/2 - 16	3530-1/2	12.70	13.25	12.70	1,03	19.05	1,12	25.40	1,29	31.75	1,53	38.10	1,88	100
BSF 9/16 - 16	3530-9/16	14.29	14.75	14.22	2,56	21.34	3,39	28.45	4,19	35.56	4,99	42.67	6,78	50
BSF 5/8 - 14	3530-5/8	15.88	16.50	16.00	2,56	24.13	3,39	32.00	4,19	40.13	4,99	48.01	6,11	50
BSF 3/4 - 12	3530-3/4	19.05	19.50	19.05	3,31	28.70	4,24	38.10	5,19	47.75	6,21	57.15	7,46	50
BSF 7/8 - 11	3530-7/8	22.23	22.75	22.35	4,24	33.53	5,94	44.70	7,42	55.88	8,94	67.06	10,70	25
BSF 1 - 10	3530-1	25.40	26.25	25.40	4,24	38.10	5,94	50.80	7,42	63.50	8,94	76.20	10,70	25


FREE RUNNING INSERT

BSP (GAS) **FREE** **BSP** **AISI 304** **SBAC AS 4736 SBAC AS 4947** **...D**



		D1 mm		 1.0D		 1.5D		 2.0D		 Unit
				L mm	€	L mm	€	L mm	€	
BSP 1/8 - 28	3546-1/8	9.73	10.00	3.30	0,62	4.83	0,87	6.35	0,97	100
BSP 1/4 - 19	3546-1/4	13.16	13.75	6.35	0,83	9.65	1,19	12.70	1,34	100
BSP 3/8 - 19	3546-3/8	16.66	17.00	9.65	0,74	14.22	1,35	19.05	1,53	100
BSP 1/2 - 14	3546-1/2	20.95	21.50	12.70	1,92	19.05	1,94	25.40	3,08	50
BSP 5/8 - 14	3546-5/8	22.91	23.50	16.00	2,94	23.88	4,34	31.75	4,53	50
BSP 3/4 - 14	3546-3/4	26.44	27.00	19.05	2,94	28.70	4,34	38.10	4,53	50
BSP 7/8 - 14	3546-7/8	30.20	30.50	22.35	7,55	33.53	13,27	44.45	16,55	25
BSP 1 - 11	3546-1	33.25	33.75	25.40	8,46	38.10	14,86	50.80	17,02	25

NPT **FREE** **NPT** **60°** **AISI 304** **SBACAS 4737-48 SBACAS 4948-59** **...D**

		L mm	€	Unit
NPT 1/8 - 27	3552-1/8	4.78	1,24	100
NPT 1/4 - 18	3552-1/4	9.53	1,79	100
NPT 3/8 - 18	3552-3/8	14.30	2,25	100
NPT 1/2 - 14	3552-1/2	19.05	3,69	50
NPT 3/4 - 14	3552-3/4	28.58	5,29	50
NPT 1 - 11.1/2	3552-1	38.10	7,10	25



Coding example:

	 1.0D	 1.5D
BSP 1/8-28	3546-1/8x1.0D	3546-1/8x1.5D

FREE RUNNING INSERT

UNx8



FREE



8-UN



AISI 304

...D



UN	1.1/8 - 8	3570-1.1/8	D1 mm		1.0D		1.5D		2.0D		Unit
					L mm	€	L mm	€	L mm	€	
UN	1.1/4 - 8	3570-1.1/4	31.75	32.00	31.75	13,35	47.75	16,11	63.50	18,23	10
UN	1.3/8 - 8	3570-1.3/8	34.92	35.00	35.05	15,07	52.32	20,02	69.85	22,04	10
UN	1.1/2 - 8	3570-1.1/2	38.10	38.00	38.10	16,81	57.15	22,31	76.20	26,17	10
UN	1.5/8 - 8	3570-1.5/8	41.27	41.00	41.40	18,42	61.98	23,67	82.55	29,17	10
UN	1.3/4 - 8	3570-1.3/4	44.45	44.50	44.45	19,96	66.80	25,71	88.90	29,57	10
UN	1.7/8 - 8	3570-1.7/8	47.62	47.50	47.75	21,55	71.37	27,58	95.25	34,04	10
UN	2 - 8	3570-2	50.80	51.00	50.80	23,06	76.20	29,62	101.60	36,48	10

BA



FREE



BA



AISI 304

SBAC AS 4736
SBAC AS 4947

...D

BA	0	3544-0	D1 mm		1.0D		1.5D		2.0D		2.5D		3.0D		Unit
					L mm	€	L mm	€	L mm	€	L mm	€	L mm	€	
BA	2	3544-2	4.70	4.90	4.83	1,44	7.11	1,60	9.40	1,76	11.68	2,07	14.22	2,24	100
BA	4	3544-4	3.60	3.80	3.56	1,44	5.33	1,60	7.11	1,76	8.89	2,07	10.92	2,24	100
BA	6	3544-6	2.80	2.90	2.79	1,44	4.32	1,60	5.59	1,76	7.11	2,07	8.38	2,24	100



X.XD

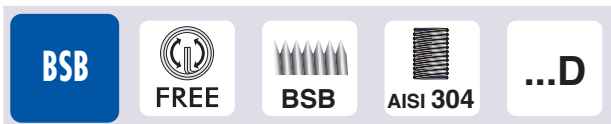
Coding example:

UN 1.1/8 - 8

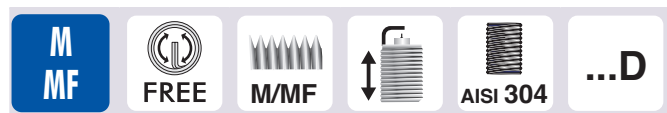
3570-1.1/8x1.0D

3570-1.1/8x1.5D

FREE RUNNING INSERT



		D1 mm		1.0D		1.5D		2.0D			
				L mm	€	L mm	€	L mm	€		Unit
BSB	1/4 - 26	3560-1/4	6,35	6.60	6,35	1,69	9.53	2,33	12.70	2,55	100
BSB	5/16 - 26	3560-5/16	7,94	8.20	7,95	0,76	11.91	0,91	15.88	1,23	100
BSB	3/8 - 26	3560-3/8	9,52	9.80	9,53	0,88	14.30	1,06	19.05	1,44	100
BSB	7/16 - 26	3560-7/16	11,11	11.30	11,13	0,93	16.66	1,44	22.23	1,95	100
BSB	1/2 - 26	3560-1/2	12,70	12.70	12,70	1,91	19.05	2,42	25.40	3,08	50









			8.40mm	12.40mm	16.40mm	
14x1.25	3522-14.00	14.25	1,03	1,03	1,03	50

			1/2"	3/4"	
10x1.00	3522-10.00	10.30	0,51	-	100
12x1.25	3522-12.00	12.30	0,62	0,75	100
14x1.25	3522-14.00	14.25	0,89	1,38	50
18x1.50	3522-18.00	18.50	1,20	-	50



			0.339"	3/8"	7/16"	
10x1.00	3522-10.00	10.30	0,43	-	-	100
14x1.25	3522-14.00	14.25	-	0,97	1,06	50

FREE RUNNING INSERT

		€	D1 mm	L mm		mm	Accessories			
							mm			
M 3 x 0.50	3520-3.00X1.0DP	4,03	1.00	3.00	10	3.20	3520-3.00I	3500-HIT4	3500-TB4	
M 3 x 0.50	3520-3.00X1.5DP	4,21	1.50	4.50	10	3.20	3520-3.00I	3500-HIT4	3500-TB4	
M 3 x 0.50	3520-3.00X2.0DP	4,77	2.00	6.00	10	3.20	3520-3.00I	3500-HIT4	3500-TB4	
M 4 x 0.70	3520-4.00X1.0DP	3,83	1.00	4.00	10	4.20	3520-4.00I	3500-HIT6	3500-TB6	
M 4 x 0.70	3520-4.00X1.5DP	4,03	1.50	6.00	10	4.20	3520-4.00I	3500-HIT6	3500-TB6	
M 4 x 0.70	3520-4.00X2.0DP	4,77	2.00	8.00	10	4.20	3520-4.00I	3500-HIT6	3500-TB6	
M 5 x 0.80	3520-5.00X1.0DP	4,77	1.00	5.00	10	5.20	3520-5.00I	3500-HIT8	3500-TB8	
M 5 x 0.80	3520-5.00X1.5DP	3,83	1.50	7.50	10	5.20	3520-5.00I	3500-HIT8	3500-TB8	
M 5 x 0.80	3520-5.00X2.0DP	5,30	2.00	10.00	10	5.20	3520-5.00I	3500-HIT8	3500-TB8	
M 6 x 1.00	3520-6.00X1.0DP	4,94	1.00	6.00	10	6.30	3520-6.00I	3500-HIT9	3500-TB9	
M 6 x 1.00	3520-6.00X1.5DP	4,03	1.50	9.00	10	6.30	3520-6.00I	3500-HIT9	3500-TB9	
M 6 x 1.00	3520-6.00X2.0DP	6,04	2.00	12.00	10	6.30	3520-6.00I	3500-HIT9	3500-TB9	
M 6 x 1.00	3520-6.00X2.5DP	7,31	2.50	15.00	10	6.30	3520-6.00I	3500-HIT9	3500-TB9	
M 8 x 1.00	3521-8.00X1.0DP	5,67	1.00	8.00	10	8.30	3521-8.00I	3500-HIT11	3500-TB12	
M 8 x 1.00	3521-8.00X1.5DP	6,04	1.50	12.00	10	8.30	3521-8.00I	3500-HIT11	3500-TB12	
M 8 x 1.00	3521-8.00X2.0DP	7,68	2.00	16.00	10	8.30	3521-8.00I	3500-HIT11	3500-TB12	
M 8 x 1.25	3520-8.00X1.0DP	4,94	1.00	8.00	10	8.30	3520-8.00I	3500-HIT11	3500-TB12	
M 8 x 1.25	3520-8.00X1.5DP	5,30	1.50	12.00	10	8.30	3520-8.00I	3500-HIT11	3500-TB12	
M 8 x 1.25	3520-8.00X2.0DP	7,31	2.00	16.00	10	8.30	3520-8.00I	3500-HIT11	3500-TB12	
M 10 x 1.25	3521-10.00X1.5DP	7,07	1.50	15.00	10	10.30	3521-10.00I	3500-HIT13	3500-TB13	
M 10 x 1.50	3520-10.00X1.0DP	6,17	1.00	10.00	10	10.40	3520-10.00I	3500-HIT13	3500-TB13	
M 10 x 1.50	3520-10.00X1.5DP	7,07	1.50	15.00	10	10.40	3520-10.00I	3500-HIT13	3500-TB13	
M 10 x 1.50	3520-10.00X2.0DP	8,12	2.00	20.00	10	10.40	3520-10.00I	3500-HIT13	3500-TB13	
M 12 x 1.50	3521-12.00X1.5DP	10,42	1.50	18.00	10	12.40	3521-12.00I	3500-HIT15	3500-TB15	
M 12 x 1.75	3520-12.00X1.0DP	8,65	1.00	12.00	10	12.50	3520-12.00I	3500-HIT15	3500-TB15	
M 12 x 1.75	3520-12.00X1.5DP	10,42	1.50	18.00	10	12.50	3520-12.00I	3500-HIT15	3500-TB15	
M 12 x 1.75	3520-12.00X2.0DP	12,24	2.00	24.00	10	12.50	3520-12.00I	3500-HIT15	3500-TB15	
M 14 x 1.50	3521-14.00X1.5DP	7,68	1.50	21.00	5	14.40	3521-14.00I	3500-HIT16	-	
M 14 x 2.00	3520-14.00X1.0DP	6,71	1.00	14.00	5	14.50	3520-14.00I	3500-HIT16	-	
M 14 x 2.00	3520-14.00X1.5DP	7,68	1.50	21.00	5	14.50	3520-14.00I	3500-HIT16	-	
M 14 x 2.00	3520-14.00X2.0DP	8,03	2.00	28.00	5	14.50	3520-14.00I	3500-HIT16	-	
M 16 x 1.50	3521-16.00X1.5DP	9,45	1.50	24.00	5	16.50	3521-16.00I	3500-HIT18	-	
M 16 x 2.00	3520-16.00X1.0DP	9,01	1.00	16.00	5	16.50	3520-16.00I	3500-HIT18	-	
M 16 x 2.00	3520-16.00X1.5DP	9,45	1.50	24.00	5	16.50	3520-16.00I	3500-HIT18	-	
M 16 x 2.00	3520-16.00X2.0DP	11,66	2.00	32.00	5	16.50	3520-16.00I	3500-HIT18	-	
M 18 x 2.00	3521-18.00X1.5DP	15,36	1.50	27.00	5	18.50	3521-18.00I	3500-HIT20	-	
M 18 x 2.50	3520-18.00X1.0DP	12,21	1.00	18.00	5	19.00	3520-18.00I	3500-HIT20	-	
M 18 x 2.50	3520-18.00X1.5DP	14,27	1.50	27.00	5	19.00	3520-18.00I	3500-HIT20	-	
M 18 x 2.50	3520-18.00X2.0DP	19,34	2.00	36.00	5	19.00	3520-18.00I	3500-HIT20	-	
M 20 x 2.50	3520-20.00X1.0DP	14,27	1.00	20.00	5	20.75	3520-20.00I	3500-HIT21	-	
M 20 x 2.50	3520-20.00X1.5DP	18,04	1.50	30.00	5	20.75	3520-20.00I	3500-HIT21	-	
M 20 x 2.50	3520-20.00X2.0DP	23,18	2.00	40.00	5	20.75	3520-20.00I	3500-HIT21	-	
M 22 x 2.50	3520-22.00X1.5DP	11,61	1.50	33.00	3	22.75	3520-22.00I	3500-HIT22	-	
M 22 x 2.50	3520-22.00X2.0DP	14,71	2.00	44.00	3	22.75	3520-22.00I	3500-HIT22	-	
M 24 x 3.00	3520-24.00X1.5DP	13,11	1.50	36.00	3	24.50	3520-24.00I	3500-HIT23	-	

Accessories not included in listed price

		€	D1 mm	L		mm	Accessories			
							mm			
M 12 x 1.25	3522-12.00X1/2P	8,46	-	1/2"	10	12.30	3522-12.00PN	3500-HIT15	3500-TB15	
M 12 x 1.25	3522-12.00X3/4P	10,42	-	3/4"	10	12.30	3522-12.00PN	3500-HIT15	3500-TB15	
M 14 x 1.25	3522-14.00X3/8P	13,48	-	3/8"	10	14.30	3522-14.00PN	3500-HIT17	3500-HIT17	
M 14 x 1.25	3522-14.00X1/2P	12,54	-	1/2"	10	14.30	3522-14.00PN	3500-HIT17	3500-HIT17	
M 14 x 1.25	3522-14.00X3/4P	19,09	-	3/4"	10	14.30	3522-14.00PN	3500-HIT17	3500-HIT17	
M 14 x 1.25	3522-14.00X8.4P	7,15	-	8.4 mm	5	14.30	3522-14.00PN	3500-HIT17	3500-HIT17	
M 14 x 1.25	3522-14.00X12.4P	7,15	-	12.4"	5	14.30	3522-14.00PN	3500-HIT17	3500-HIT17	
M 14 x 1.25	3522-14.00X16.4P	7,15	-	16.4"	5	14.30	3522-14.00PN	3500-HIT17	3500-HIT17	

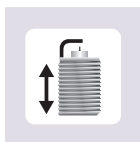
Accessories not included in listed price

M
MF


FREE


M/MF









AISI 304









**BS7752
DIN8140**
...DP


M14x1,25

M12x1,25

FREE RUNNING INSERT

			€	D1 mm	L mm					
							mm	$\le 60^\circ$ 4-5	Accessories	
UNC	Nº6 - 32	3532-6GX1.5DP	4,23	1.50	5.33	10	3.80	3532-6GI	3500-HIT5	3500-TB5
UNC	Nº8 - 32	3532-8GX1.5DP	4,46	1.50	6.35	10	4.40	3532-8GI	3500-HIT6	3500-TB6
UNC	Nº10 - 24	3532-10GX1.5DP	4,95	1.50	7.11	10	5.20	3532-10GI	3500-HIT7	3500-TB8
UNC	1/4 - 20	3532-1/4X1.5DP	5,66	1.50	9.65	10	6.70	3532-1/4I	3500-HIT9	3500-TB9
UNC	5/16 - 18	3532-5/16X1.0DP	6,89	1.00	7.87	10	8.30	3532-5/16I	3500-HIT10	3500-TB12
UNC	5/16 - 18	3532-5/16X1.5DP	8,31	1.50	11.94	10	8.30	3532-5/16I	3500-HIT10	3500-TB12
UNC	3/8 - 16	3532-3/8X1.5DP	10,42	1.50	14.22	10	9.90	3532-3/8I	3500-HIT13	3500-TB12
UNC	3/8 - 16	3532-3/8X2.0DP	13,77	2.00	19.05	10	9.90	3532-3/8I	3500-HIT13	3500-TB12
UNC	7/16 - 14	3532-7/16X1.5DP	13,94	1.50	16.76	10	11.60	3532-7/16I	3500-HIT14	3500-TB14
UNC	1/2 - 13	3532-1/2X1.5DP	13,94	1.50	19.05	10	13.00	3532-1/2I	3500-HIT15	3500-TB15
UNC	5/8 - 11	3532-5/8X1.5DP	14,31	1.50	23.88	5	16.50	3532-5/8I	3500-HIT18	-
UNC	3/4 - 10	3532-3/4X1.5DP	16,85	1.50	28.70	5	20.00	3532-3/4I	3500-HIT20	-
UNC	7/8 - 9	3532-7/8X1.5DP	13,16	1.50	33.27	3	23.00	3532-7/8I	3500-HIT22	-
UNC	1 - 8	3532-1X1.5DP	23,00	1.50	38.10	3	26.25	3532-1I	3500-HIT23	-

			€	D1 mm	L mm					
							mm	$\le 60^\circ$ 4-5	Accessories	
UNF	Nº10 - 32	3534-10GX1.5DP	5,12	1.50	7.11	10	5.10	3534-10GI	3500-HIT8	3500-TB8
UNF	1/4 - 28	3534-1/4X1.5DP	5,12	1.50	9.65	10	6.70	3534-1/4I	3500-HIT9	3500-TB9
UNF	5/16 - 24	3534-5/16X1.5DP	7,25	1.50	11.94	10	8.30	3534-5/16I	3500-HIT11	3500-TB12
UNF	3/8 - 24	3534-3/8X1.5DP	10,42	1.50	14.22	10	9.80	3534-3/8I	3500-HIT13	3500-TB13
UNF	7/16 - 20	3534-7/16X1.5DP	13,94	1.50	16.76	10	11.50	3534-7/16I	3500-HIT14	3500-TB14
UNF	1/2 - 20	3534-1/2X1.5DP	13,94	1.50	19.05	10	13.00	3534-1/2I	3500-HIT15	3500-TB15
UNF	5/8 - 18	3534-5/8X1.5DP	15,42	1.50	24.13	5	16.50	3534-5/8I	3500-HIT18	-
UNF	3/4 - 16	3534-3/4X1.5DP	16,85	1.50	28.70	5	19.50	3534-3/4I	3500-HIT21	-

Accessories not included in listed price

UNC UNF

 **FREE**





 **UNC/UNF**

 **AISI 304**

 **SBAC AS 6734
SBAC AS 8455**

 **SBAC AS 6733
SBAC AS 8455**

...DP

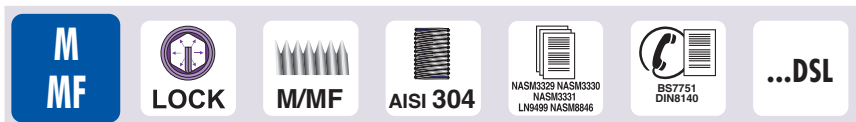
BSP (GAS)  **FREE**  **BSP**  **AISI 304**  **BS84** **...DP**









			€	D1 mm	L mm					
							mm	$\le 55^\circ$ 4-5	Accessories	
BSP	1/8 - 28	3546-1/8X1.5DP	12,16	1.50	4.83	10	10.00	3546-1/8I	3500-HIT14	
BSP	1/4 - 19	3546-1/4X1.5DP	16,66	1.50	9.65	10	13.75	3546-1/4I	3500-HIT16	
BSP	3/8 - 19	3546-3/8X1.5DP	18,90	1.50	14.22	10	17.00	3546-3/8I	3500-HIT20	
BSP	1/2 - 14	3546-1/2X1.5DP	27,13	1.50	19.05	10	21.50	3546-1/2I	3500-HIT23	
BSP	3/4 - 14	3546-3/4X1.5DP	30,30	1.50	28.70	5	27.00	3546-3/4I	3500-HIT24	
BSP	1 - 11	3546-1X1.5DP	55,73	1.50	38.10	3	33.75	3546-1I	3500-HIT27	

Accessories not included in listed price



SCREW LOCKING INSERTS


		L	 1.0D			 1.5D			 2.0D						
			mm	€	Unit	mm	€	Unit	mm	€	Unit				
M 2 x 0.40	3520-2.00	2.10	2.00	0,66	0,60	0,54	3.00	0,86	0,76	0,70	4.00	1,01	0,88	0,82	100
M 2.20 x 0.45	3520-2.20	2.30	2.20	0,63	0,56	0,51	3.30	0,82	0,72	0,67	4.40	0,93	0,84	0,79	100
M 2.50 x 0.45	3520-2.50	2.60	2.50	0,42	0,37	0,35	3.75	0,43	0,40	0,38	5.00	0,44	0,41	0,39	100
M 3 x 0.50	3520-3.00	3.20	3.00	0,32	0,28	0,26	4.50	0,37	0,32	0,29	6.00	0,38	0,35	0,32	100
M 3.50 x 0.60	3520-3.50	3.70	3.50	0,38	0,35	0,32	5.25	0,40	0,38	0,36	7.00	0,42	0,40	0,38	100
M 4 x 0.70	3520-4.00	4.20	4.00	0,32	0,29	0,27	6.00	0,37	0,32	0,29	8.00	0,38	0,34	0,30	100
M 5 x 0.80	3520-5.00	5.20	5.00	0,38	0,34	0,30	7.50	0,39	0,35	0,32	10.00	0,42	0,38	0,36	100
M 6 x 1.00	3520-6.00	6.30	6.00	0,41	0,37	0,35	9.00	0,43	0,38	0,36	12.00	0,48	0,43	0,40	100
M 7 x 1.00	3520-7.00	7.30	7.00	0,48	0,43	0,40	10.50	0,58	0,50	0,47	14.00	0,64	0,58	0,51	100
M 8 x 1.00	3521-8.00	8.30	8.00	0,51	0,46	0,43	12.00	0,56	0,47	0,44	16.00	0,65	0,56	0,51	100
M 8 x 1.25	3520-8.00	8.30	8.00	0,42	0,38	0,36	12.00	0,48	0,43	0,40	16.00	0,58	0,48	0,45	100
M 9 x 1.25	3520-9.00	9.40	9.00	1,04	0,92	0,86	13.50	1,33	1,10	1,03	18.00	1,40	1,17	1,08	100
M 10 x 1.00	3523-10.00	10.30	10.00	0,56	0,48	0,45	15.00	0,68	0,59	0,53	20.00	0,70	0,63	0,58	100
M 10 x 1.25	3521-10.00	10.30	10.00	0,53	0,47	0,44	15.00	0,67	0,62	0,58	20.00	0,69	0,66	0,62	100
M 10 x 1.50	3520-10.00	10.40	10.00	0,56	0,47	0,44	15.00	0,67	0,58	0,51	20.00	0,70	0,63	0,59	100
M 11 x 1.50	3520-11.00	11.40	11.00	1,09	0,91	0,85	16.50	1,10	0,93	0,87	22.00	1,11	1,02	0,92	100
M 12 x 1.25	3523-12.00	12.30	12.00	0,89	0,74	0,68	18.00	0,97	0,81	0,75	24.00	1,05	0,93	0,86	100
M 12 x 1.50	3521-12.00	12.40	12.00	0,90	0,79	0,72	18.00	0,98	0,85	0,79	24.00	1,08	1,01	0,91	100
M 12 x 1.75	3520-12.00	12.50	12.00	0,81	0,68	0,64	18.00	0,97	0,82	0,76	24.00	1,05	0,91	0,85	100
M 14 x 1.50	3521-14.00	14.50	14.00	1,24	1,10	1,03	21.00	1,44	1,17	1,08	28.00	1,58	1,31	1,23	50
M 14 x 2.00	3520-14.00	14.50	14.00	1,13	1,01	0,91	21.00	1,30	1,22	1,12	28.00	1,60	1,52	1,41	50
M 16 x 1.50	3521-16.00	16.50	16.00	1,68	1,50	1,42	24.00	1,81	1,62	1,50	32.00	2,18	2,01	1,85	50
M 16 x 2.00	3520-16.00	16.50	16.00	1,56	1,40	1,29	24.00	1,63	1,51	1,40	32.00	2,02	1,88	1,73	50
M 18 x 1.50	3523-18.00	18.50	18.00	2,72	2,26	2,10	27.00	2,76	2,38	2,21	36.00	4,22	3,47	3,18	50
M 18 x 2.00	3521-18.00	18.50	18.00	2,32	2,07	1,92	27.00	2,59	2,42	2,30	36.00	3,53	3,09	2,86	50
M 18 x 2.50	3520-18.00	19.00	18.00	2,34	2,07	1,92	27.00	2,66	2,35	2,17	36.00	3,62	3,27	3,01	50
M 20 x 1.50	3523-20.00	20.50	20.00	3,08	2,68	2,48	30.00	3,64	3,29	3,02	40.00	4,25	3,70	3,39	25
M 20 x 2.00	3521-20.00	20.50	20.00	2,68	2,32	2,14	30.00	3,29	2,91	2,68	40.00	4,22	3,69	3,39	25
M 20 x 2.50	3520-20.00	20.75	20.00	2,81	2,48	2,28	30.00	3,39	3,02	2,78	40.00	4,38	3,87	3,56	25
M 22 x 1.50	3523-22.00	22.50	22.00	3,12	2,96	2,65	33.00	3,50	3,33	2,90	44.00	4,66	4,50	3,51	25
M 22 x 2.00	3521-22.00	22.50	22.00	2,82	2,57	2,36	33.00	3,53	3,18	2,90	44.00	4,47	4,14	3,90	25
M 22 x 2.50	3520-22.00	22.75	22.00	2,93	2,71	2,50	33.00	3,66	3,33	3,07	44.00	4,63	4,23	3,91	25
M 24 x 1.50	3523-24.00	24.50	24.00	3,58	3,39	2,86	36.00	4,10	3,58	3,43	48.00	4,87	4,23	3,99	25
M 24 x 2.00	3521-24.00	24.50	24.00	3,53	3,26	3,05	36.00	4,24	3,90	3,62	48.00	4,69	4,43	4,27	25
M 24 x 3.00	3520-24.00	25.00	24.00	3,70	3,45	3,17	36.00	4,43	4,14	3,80	48.00	4,90	4,60	4,23	25



Coding example:

M 14 x 2.00






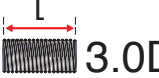
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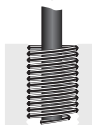
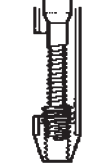
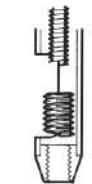


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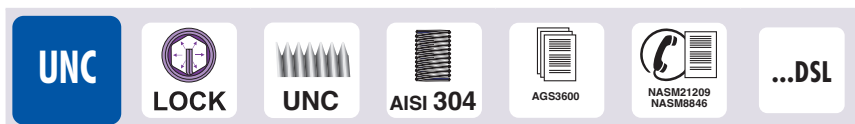
SCREW LOCKING INSERTS












		 2.5D	 3.0D	€			€			Unit	
				L mm	<500	500-999	1000-...	L mm	<500		500-999
M 2 x 0.40	3520-2.00	2.10	5.00	1,13	1,01	0,91	6.00	1,42	1,25	1,16	100
M 2.20 x 0.45	3520-2.20	2.30	5.50	1,07	0,93	0,87	6.60	1,34	1,18	1,09	100
M 2.50 x 0.45	3520-2.50	2.60	6.25	0,46	0,43	0,40	9.00	0,56	0,53	0,49	100
M 3 x 0.50	3520-3.00	3.20	7.50	0,43	0,41	0,39	9.00	0,51	0,47	0,44	100
M 3.50 x 0.60	3520-3.50	3.70	8.75	0,48	0,46	0,43	10.50	0,60	0,54	0,50	100
M 4 x 0.70	3520-4.00	4.20	10.00	0,43	0,41	0,39	12.00	0,48	0,44	0,41	100
M 5 x 0.80	3520-5.00	5.20	12.50	0,50	0,47	0,44	15.00	0,62	0,56	0,51	100
M 6 x 1.00	3520-6.00	6.30	15.00	0,60	0,54	0,50	18.00	0,70	0,64	0,60	100
M 7 x 1.00	3520-7.00	7.30	17.50	0,69	0,66	0,62	21.00	0,83	0,79	0,72	100
M 8 x 1.00	3521-8.00	8.30	20.00	0,75	0,67	0,63	24.00	0,91	0,86	0,82	100
M 8 x 1.25	3520-8.00	8.30	20.00	0,69	0,64	0,60	24.00	0,83	0,75	0,69	100
M 9 x 1.25	3520-9.00	9.40	22.50	1,55	1,38	1,27	27.00	2,02	1,85	1,71	100
M 10 x 1.00	3523-10.00	10.30	25.00	0,83	0,71	0,66	30.00	1,13	1,02	0,92	100
M 10 x 1.25	3521-10.00	10.30	25.00	0,84	0,80	0,74	30.00	1,16	1,11	1,04	100
M 10 x 1.50	3520-10.00	10.40	25.00	0,83	0,74	0,68	30.00	1,13	1,04	0,96	100
M 11 x 1.50	3520-11.00	11.40	27.50	1,38	1,26	1,17	33.00	1,69	1,62	1,50	100
M 12 x 1.25	3523-12.00	12.30	30.00	1,35	1,30	1,20	36.00	1,69	1,61	1,58	100
M 12 x 1.50	3521-12.00	12.40	30.00	1,35	1,14	1,06	36.00	1,74	1,72	1,58	100
M 12 x 1.75	3520-12.00	12.50	30.00	1,35	1,29	1,19	36.00	1,69	1,66	1,53	100
M 14 x 1.50	3521-14.00	14.50	35.00	1,93	1,53	1,42	42.00	3,21	3,16	2,92	50
M 14 x 2.00	3520-14.00	14.50	35.00	1,93	1,83	1,69	42.00	2,32	2,25	2,07	50
M 16 x 1.50	3521-16.00	16.50	40.00	2,39	2,24	2,06	48.00	3,09	3,00	2,76	50
M 16 x 2.00	3520-16.00	16.50	40.00	2,43	2,34	2,16	48.00	3,01	2,95	2,72	50
M 18 x 1.50	3523-18.00	18.50	45.00	4,50	3,81	3,52	54.00	5,04	4,43	4,08	50
M 18 x 2.00	3521-18.00	18.50	45.00	4,01	3,54	3,28	54.00	4,69	4,43	4,08	50
M 18 x 2.50	3520-18.00	19.00	45.00	4,12	3,74	3,44	54.00	4,83	4,66	4,18	50
M 20 x 1.50	3523-20.00	20.50	50.00	4,68	4,31	3,96	60.00	5,97	5,46	5,03	25
M 20 x 2.00	3521-20.00	20.50	50.00	4,69	4,33	4,04	60.00	5,97	5,66	5,51	25
M 20 x 2.50	3520-20.00	20.75	50.00	4,86	4,56	4,19	60.00	6,08	5,89	5,42	25
M 22 x 1.50	3523-22.00	22.50	55.00	5,45	4,79	4,41	66.00	6,92	6,64	6,03	25
M 22 x 2.00	3521-22.00	22.50	55.00	5,47	5,20	5,05	66.00	7,86	7,32	7,01	25
M 22 x 2.50	3520-22.00	22.75	55.00	5,67	5,30	4,88	66.00	7,67	7,11	6,54	25
M 24 x 1.50	3523-24.00	24.50	60.00	6,70	5,63	5,19	72.00	8,45	7,15	6,58	25
M 24 x 2.00	3521-24.00	24.50	60.00	6,81	6,16	5,60	72.00	8,13	7,77	7,67	25
M 24 x 3.00	3520-24.00	25.00	60.00	7,11	6,39	5,89	72.00	7,69	7,48	6,88	25



Important note: Theoretical insert length is referred to length after insert installation.

SCREW LOCKING INSERTS


					 1.0D			 1.5D			 2.0D						
					L mm	€	Unit	L mm	€	Unit	L mm	€	Unit				
UNC	Nº2 - 56	3532-2G	2.18	2.40	2.29	0,82	0,71	0,66	3.30	0,96	0,83	0,78	4.32	1,24	1,07	1,00	100
UNC	Nº4 - 40	3532-4G	2.84	3.00	2.79	0,37	0,32	0,29	4.32	0,40	0,35	0,32	5.59	0,42	0,37	0,35	100
UNC	Nº5 - 40	3532-5G	3.17	3.40	3.30	0,49	0,43	0,40	4.83	0,51	0,46	0,43	6.35	0,54	0,48	0,45	100
UNC	Nº6 - 32	3532-6G	3.50	3.70	3.56	0,32	0,28	0,26	5.33	0,38	0,34	0,30	7.11	0,40	0,36	0,34	100
UNC	Nº8 - 32	3532-8G	4.17	4.40	4.06	0,32	0,28	0,26	6.35	0,38	0,34	0,30	8.38	0,40	0,36	0,34	100
UNC	Nº10 - 24	3532-10G	4.83	5.10	4.83	0,39	0,35	0,32	7.37	0,42	0,37	0,35	9.65	0,46	0,40	0,38	100
UNC	Nº12 - 24	3532-12G	5.49	5.70	5.59	0,43	0,38	0,36	8.13	0,48	0,42	0,40	10.92	0,51	0,44	0,41	100
UNC	1/4 - 20	3532-1/4	6.35	6.70	6.35	0,43	0,38	0,36	9.65	0,48	0,42	0,40	12.70	0,51	0,44	0,41	100
UNC	5/16 - 18	3532-5/16	7.94	8.30	7.87	0,60	0,49	0,46	11.94	0,69	0,60	0,54	15.75	0,72	0,64	0,60	100
UNC	3/8 - 16	3532-3/8	9.52	9.90	9.65	0,84	0,72	0,67	14.48	0,88	0,78	0,71	19.05	1,16	1,02	0,92	100
UNC	7/16 - 14	3532-7/16	11.11	11.60	11.18	0,98	0,85	0,79	16.76	1,18	1,03	0,93	22.35	1,34	1,16	1,07	100
UNC	1/2 - 13	3532-1/2	12.70	13.00	12.70	1,06	0,91	0,85	19.05	1,18	1,03	0,93	25.40	1,34	1,16	1,07	100
UNC	9/16 - 12	3532-9/16	14.28	15.00	14.22	2,61	2,26	2,10	21.34	3,48	3,00	2,76	28.45	4,46	3,86	3,55	50
UNC	5/8 - 11	3532-5/8	15.87	16.50	16.00	2,37	2,04	1,89	23.88	3,16	2,73	2,52	31.75	3,93	3,40	3,13	50
UNC	3/4 - 10	3532-3/4	19.05	19.80	19.05	2,74	2,38	2,21	28.70	3,73	3,23	2,98	38.10	4,65	4,03	3,72	50
UNC	7/8 - 9	3532-7/8	22.22	23.00	22.35	3,81	3,31	3,05	33.53	5,71	4,92	4,55	44.45	7,25	6,27	5,76	25
UNC	1 - 8	3532-1	25.40	26.20	25.40	5,17	4,46	4,12	38.10	7,73	6,68	6,14	50.80	9,82	8,46	7,80	25

Important note: Theoretical insert length is referred to length after insert installation.



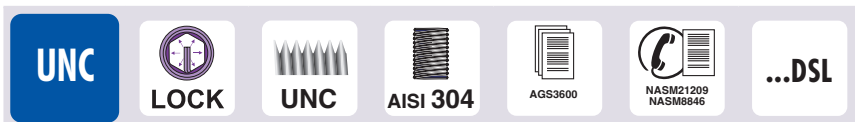
Coding example:






UNC 1/4 - 20

3532-1/4x1.0DSL

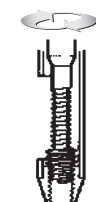
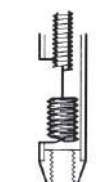
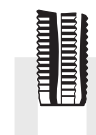
3532-1/4x1.5DSL

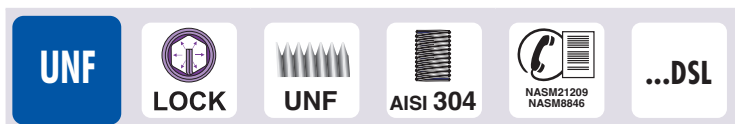
SCREW LOCKING INSERTS










		3532-2G	D1 mm		L mm	 2.5D			L mm	 3.0D			Unit
						€	€	€		€	€	€	
						<500	500-999	1000-...		<500	500-999	1000-...	
UNC	Nº2 - 56	3532-2G	2.18	2.40	5.59	1,40	1,20	1,11	6.60	1,50	1,29	1,19	100
UNC	Nº4 - 40	3532-4G	2.84	3.00	7.11	0,48	0,42	0,40	8.64	0,60	0,49	0,46	100
UNC	Nº5 - 40	3532-5G	3.17	3.40	7.87	0,60	0,49	0,46	9.65	0,82	0,70	0,66	100
UNC	Nº6 - 32	3532-6G	3.50	3.70	8.89	0,43	0,38	0,36	10.41	0,50	0,44	0,41	100
UNC	Nº8 - 32	3532-8G	4.17	4.40	10.41	0,43	0,38	0,36	12.45	0,50	0,44	0,41	100
UNC	Nº10 - 24	3532-10G	4.83	5.10	12.19	0,54	0,47	0,44	14.48	0,66	0,59	0,53	100
UNC	Nº12 - 24	3532-12G	5.49	5.70	13.72	0,64	0,56	0,51	16.51	0,78	0,67	0,63	100
UNC	1/4 - 20	3532-1/4	6.35	6.70	16.00	0,64	0,56	0,51	19.05	0,78	0,67	0,63	100
UNC	5/16 - 18	3532-5/16	7.94	8.30	19.81	0,87	0,75	0,69	23.62	1,06	0,91	0,85	100
UNC	3/8 - 16	3532-3/8	9.52	9.90	23.88	1,33	1,14	1,06	28.70	1,56	1,35	1,25	100
UNC	7/16 - 14	3532-7/16	11.11	11.60	27.94	1,60	1,39	1,28	33.53	1,95	1,69	1,56	100
UNC	1/2 - 13	3532-1/2	12.70	13.00	31.75	1,60	1,39	1,28	38.10	1,95	1,69	1,56	100
UNC	9/16 - 12	3532-9/16	14.28	15.00	35.56	5,11	4,42	4,06	42.93	6,16	5,32	4,90	50
UNC	5/8 - 11	3532-5/8	15.87	16.50	39.62	4,69	4,06	3,75	47.75	5,61	4,85	4,46	50
UNC	3/4 - 10	3532-3/4	19.05	19.80	47.75	5,53	4,78	4,40	57.15	6,62	5,72	5,27	50
UNC	7/8 - 9	3532-7/8	22.22	23.00	55.63	8,59	7,41	6,81	66.80	10,42	9,00	8,28	25
UNC	1 - 8	3532-1	25.40	26.20	63.50	11,62	10,02	9,23	76.20	14,09	12,17	11,21	25

Important note: Theoretical insert length is referred to length after insert installation.



SCREW LOCKING INSERTS


 D1	 L	 D1 mm	 L mm	 1.0D			 1.5D			 2.0D			Unit			
				€	€	€	€	€	€							
UNF N°4 - 48	3534-4G	2.84	3.00	2.79	0,74	0,66	0,62	4.32	0,85	0,75	0,69	5.59	1,00	0,87	0,81	100
UNF N°6 - 40	3534-6G	3.50	3.70	3.56	0,74	0,66	0,62	5.33	0,85	0,75	0,69	7.11	1,00	0,87	0,81	100
UNF N°8 - 36	3534-8G	4.17	4.40	4.06	0,74	0,66	0,62	6.35	0,85	0,75	0,69	8.38	1,00	0,87	0,81	100
UNF N°10 - 32	3534-10G	4.83	5.10	4.83	0,42	0,37	0,35	7.37	0,43	0,38	0,36	9.65	0,51	0,44	0,41	100
UNF 1/4 - 28	3534-1/4	6.35	6.60	6.35	0,42	0,37	0,35	9.65	0,43	0,38	0,36	12.70	0,51	0,44	0,41	100
UNF 5/16 - 24	3534-5/16	7.94	8.20	7.87	0,60	0,49	0,46	11.94	0,63	0,51	0,48	16.00	0,72	0,64	0,60	100
UNF 3/8 - 24	3534-3/8	9.52	9.80	9.65	0,85	0,72	0,67	14.48	0,88	0,78	0,71	19.05	1,06	0,91	0,85	100
UNF 7/16 - 20	3534-7/16	11.11	11.50	11.18	1,06	0,91	0,85	16.76	1,18	1,03	0,93	22.35	1,34	1,16	1,07	100
UNF 1/2 - 20	3534-1/2	12.70	13.00	12.70	1,06	0,91	0,85	19.05	1,18	1,03	0,93	25.40	1,34	1,16	1,07	100
UNF 9/16 - 18	3534-9/16	14.29	14.75	14.22	2,33	2,00	1,84	21.34	2,48	2,06	1,91	28.70	2,98	2,56	2,35	50
UNF 5/8 - 18	3534-5/8	15.87	16.50	16.00	2,37	2,01	1,85	23.88	2,48	2,14	1,96	31.75	2,98	2,56	2,35	50
UNF 3/4 - 16	3534-3/4	19.05	19.50	19.05	3,12	2,69	2,49	28.70	4,35	3,75	3,45	38.10	5,26	4,53	4,17	50
UNF 7/8 - 14	3534-7/8	22.22	22.50	22.35	5,31	4,58	4,21	33.27	7,84	6,76	6,22	44.45	9,96	8,59	7,91	25
UNF 1 - 12	3534-1	25.40	26.00	25.40	5,31	4,58	4,21	38.10	7,84	6,76	6,22	50.80	9,96	8,59	7,91	25
UNS 1 - 14	3535-1	25.40	26.00	25.40	5,31	4,63	4,26	38.10	7,84	6,84	6,30	50.80	9,96	8,69	8,00	25

Important note: Theoretical insert length is referred to length after insert installation.




Coding example:

UNF N°4 - 48







 1.0D
 3534-4Gx1.0DSL



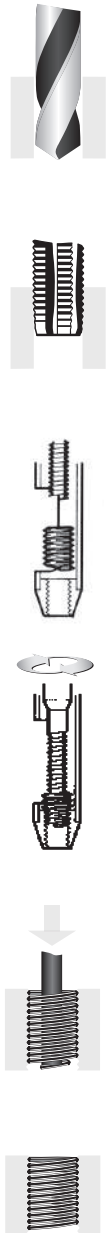
 1.5D
 3534-4Gx1.5DSL

SCREW LOCKING INSERTS



	D1 mm		 2.5D				 3.0D				Unit	
			L mm	€			L mm	€				
				<500	500-999	1000-...		<500	500-999	1000-...		
UNF N°4 - 48	3534-4G	2.84	3.00	7.11	1,12	1,01	0,91	8.64	1,58	1,40	1,29	100
UNF N°6 - 40	3534-6G	3.50	3.70	8.89	1,12	1,01	0,91	10.41	1,58	1,40	1,29	100
UNF N°8 - 36	3534-8G	4.17	4.40	10.41	1,12	1,01	0,91	12.45	1,58	1,40	1,29	100
UNF N°10 - 32	3534-10G	4.83	5.10	12.19	0,64	0,56	0,51	14.48	0,78	0,67	0,63	100
UNF 1/4 - 28	3534-1/4	6.35	6.60	16.00	0,64	0,56	0,51	19.05	0,78	0,67	0,63	100
UNF 5/16 - 24	3534-5/16	7.94	8.20	19.81	0,87	0,78	0,71	23.88	1,06	0,91	0,85	100
UNF 3/8 - 24	3534-3/8	9.52	9.80	23.88	1,30	1,14	1,06	28.70	1,56	1,35	1,25	100
UNF 7/16 - 20	3534-7/16	11.11	11.50	27.69	1,60	1,40	1,29	33.27	1,95	1,69	1,56	100
UNF 1/2 - 20	3534-1/2	12.70	13.00	31.75	1,60	1,40	1,29	38.10	1,95	1,69	1,56	100
UNF 9/16 - 18	3534-9/16	14.29	14.75	35.81	3,62	3,16	2,92	42.93	4,18	3,61	3,33	50
UNF 5/8 - 18	3534-5/8	15.87	16.50	39.62	3,80	3,35	3,09	47.75	4,18	3,61	3,33	50
UNF 3/4 - 16	3534-3/4	19.05	19.50	47.75	6,36	5,55	5,11	57.15	7,62	6,58	6,07	50
UNF 7/8 - 14	3534-7/8	22.22	22.50	55.63	11,46	9,98	9,19	66.80	13,72	11,85	10,92	25
UNF 1 - 12	3534-1	25.40	26.00	63.50	13,66	11,91	10,97	76.20	16,44	14,21	13,07	25
UNS 1 - 14	3535-1	25.40	26.00	63.50	13,66	11,91	10,97	76.20	16,44	14,34	13,20	25

Important note: Theoretical insert length is referred to length after insert installation.



FREE RUNNING INSERT KITS

M
MF

FREE

M/MF

1.5D

AISI 304

HSS

HSS

...K

D	L	mm	D	L	mm	Content			
						mm	mm	mm	mm
M 2 x 0.40	3520-2.00K	55,03	1.50	3.00	20	2.10	3520-2.00I	3500-HIT2	3500-TB2
M 2.20 x 0.45	3520-2.20K	73,67	1.50	3.30	20	2.30	3520-2.20I	3500-HIT2	3500-TB2
M 2.50 x 0.45	3520-2.50K	50,87	1.50	3.75	20	2.60	3520-2.50I	3500-HIT3	3500-TB3
M 3 x 0.50	3520-3.00K	50,87	1.50	4.50	20	3.20	3520-3.00I	3500-HIT4	3500-TB4
M 3.50 x 0.60	3520-3.50K	50,87	1.50	5.25	20	3.70	3520-3.50I	3500-HIT5	3500-TB5
M 4 x 0.70	3520-4.00K	50,87	1.50	6.00	20	4.20	3520-4.00I	3500-HIT6	3500-TB6
M 5 x 0.80	3520-5.00K	50,62	1.50	7.50	20	5.20	3520-5.00I	3500-HIT8	3500-TB8
M 6 x 1.00	3520-6.00K	54,52	1.50	9.00	20	6.30	3520-6.00I	3500-HIT9	3500-TB9
M 8 x 1.00	3521-8.00K	69,32	1.50	12.00	20	7.30	3520-7.00I	3500-HIT10	3500-TB11
M 8 x 1.25	3520-8.00K	69,32	1.50	12.00	20	8.30	3521-8.00I	3500-HIT11	3500-TB12
M 9 x 1.25	3520-9.00K	76,89	1.50	13.50	20	8.30	3520-8.00I	3500-HIT11	3500-TB12
M 10 x 1.00	3523-10.00K	74,24	1.50	15.00	15	9.40	3520-9.00I	3500-HIT13	3500-TB12
M 10 x 1.25	3521-10.00K	74,24	1.50	15.00	15	10.30	3523-10.00I	3500-HIT13	3500-TB13
M 10 x 1.50	3520-10.00K	74,24	1.50	15.00	15	10.30	3521-10.00I	3500-HIT13	3500-TB13
M 11 x 1.00	3523-11.00K	102,89	1.50	16.50	15	10.40	3520-10.00I	3500-HIT13	3500-TB13
M 11 x 1.25	3521-11.00K	102,89	1.50	16.50	10	11.30	3523-11.00I	3500-HIT14	3500-TB14
M 11 x 1.50	3520-11.00K	85,11	1.50	16.50	10	11.30	3521-11.00I	3500-HIT14	3500-TB14
M 12 x 1.00	3524-12.00K	85,11	1.50	18.00	10	11.40	3520-11.00I	3500-HIT14	3500-TB14
M 12 x 1.25	3523-12.00K	85,11	1.50	18.00	10	12.30	3524-12.00I	3500-HIT15	3500-TB15
M 12 x 1.50	3521-12.00K	85,11	1.50	18.00	10	12.30	3523-12.00I	3500-HIT15	3500-TB15
M 12 x 1.75	3520-12.00K	85,11	1.50	18.00	10	12.40	3520-12.00I	3500-HIT15	3500-TB15
M 13 x 1.25	3523-13.00K	122,49	1.50	19.50	10	12.50	3521-12.00I	3500-HIT15	3500-TB15
M 13 x 1.50	3521-13.00K	122,49	1.50	19.50	10	–	3523-13.00I	3500-HIT15	–
M 13 x 1.75	3520-13.00K	122,49	1.50	19.50	10	–	3521-13.00I	3500-HIT15	–
M 14 x 1.00	3524-14.00K	97,84	1.50	21.00	10	–	3520-13.00I	3500-HIT15	–
M 14 x 1.25	3523-14.00K	97,84	1.50	21.00	10	–	3524-14.00I	3500-HIT16	–
M 14 x 1.50	3521-14.00K	97,84	1.50	21.00	10	–	3523-14.00I	3500-HIT16	–
M 14 x 2.00	3520-14.00K	97,84	1.50	21.00	10	–	3521-14.00I	3500-HIT16	–
M 15 x 1.50	3521-15.00K	146,40	1.50	22.50	10	–	3520-14.00I	3500-HIT16	–
M 15 x 2.00	3520-15.00K	146,40	1.50	22.50	10	–	3521-15.00I	3500-HIT16	–
M 16 x 1.50	3521-16.00K	115,24	1.50	24.00	10	–	3520-15.00I	3500-HIT16	–
M 16 x 2.00	3520-16.00K	115,24	1.50	24.00	10	–	3521-16.00I	3500-HIT18	–
M 18 x 1.50	3523-18.00K	136,89	1.50	27.00	10	–	3520-16.00I	3500-HIT18	–
					5	–	3523-18.00I	3500-HIT20	–

FREE RUNNING INSERT KITS



		€	D	L mm
M 18 x 2.00	3521-18.00K	136,89	1.50	27.00
M 18 x 2.50	3520-18.00K	139,55	1.50	27.00
M 20 x 1.50	3523-20.00K	149,23	1.50	30.00
M 20 x 2.00	3521-20.00K	149,23	1.50	30.00
M 20 x 2.50	3520-20.00K	149,23	1.50	30.00
M 22 x 1.50	3523-22.00K	171,38	1.50	33.00
M 22 x 2.00	3521-22.00K	171,38	1.50	33.00
M 22 x 2.50	3520-22.00K	171,38	1.50	33.00
M 24 x 1.50	3523-24.00K	196,60	1.50	36.00
M 24 x 2.00	3521-24.00K	196,60	1.50	36.00
M 24 x 3.00	3520-24.00K	196,60	1.50	36.00

Content		
5	3521-18.00I	3500-HIT20
5	3520-18.00I	3500-HIT20
5	3523-20.00I	3500-HIT21
5	3521-20.00I	3500-HIT21
5	3520-20.00I	3500-HIT21
5	3523-22.00I	3500-HIT22
5	3521-22.00I	3500-HIT22
5	3520-22.00I	3500-HIT22
5	3523-24.00I	3500-HIT23
5	3521-24.00I	3500-HIT23
5	3520-24.00I	3500-HIT23

		€	D	L mm
M 26 x 1.50	3523-26.00K	397,85	1.50	39.00
M 27 x 1.50	3523-27.00K	397,85	1.50	40.50
M 27 x 2.00	3521-27.00K	397,85	1.50	40.50
M 27 x 3.00	3520-27.00K	397,85	1.50	40.50
M 28 x 1.50	3523-28.00K	461,01	1.50	42.00
M 30 x 1.50	3523-30.00K	482,33	1.50	45.00
M 30 x 2.00	3521-30.00K	507,60	1.50	45.00
M 30 x 3.50	3520-30.00K	482,33	1.50	45.00
M 33 x 2.00	3521-33.00K	503,66	1.50	49.50
M 33 x 3.50	3520-33.00K	503,66	1.50	49.50
M 36 x 1.50	3524-36.00K	558,94	1.50	54.00
M 36 x 2.00	3523-36.00K	558,94	1.50	54.00
M 36 x 3.00	3521-36.00K	558,94	1.50	54.00
M 36 x 4.00	3520-36.00K	558,94	1.50	54.00
M 39 x 3.00	3521-39.00K	563,25	1.50	58.50
M 39 x 4.00	3520-39.00K	572,24	1.50	58.50
M 40 x 3.00	3523-40.00K	607,94	1.50	60.00
M 42 x 3.00	3523-42.00K	629,81	1.50	63.00
M 42 x 4.50	3520-42.00K	629,81	1.50	63.00
M 45 x 3.00	3523-45.00K	812,23	1.50	67.50
M 45 x 4.50	3520-45.00K	702,39	1.50	67.50
M 48 x 3.00	3523-48.00K	799,71	1.50	72.00
M 48 x 5.00	3520-48.00K	842,29	1.50	72.00
M 50 x 3.00	3523-50.00K	891,84	1.50	75.00
M 52 x 3.00	3523-52.00K	934,44	1.50	78.00
M 52 x 5.00	3520-52.00K	934,44	1.50	78.00

Content		
5	3523-26.00I	3500-HIT24
5	3523-27.00I	3500-HIT24
5	3521-27.00I	3500-HIT24
5	3520-27.00I	3500-HIT24
5	3523-28.00I	3500-HIT24
5	3523-30.00I	3500-HIT26
5	3521-30.00I	3500-HIT26
5	3520-30.00I	3500-HIT25
5	3521-33.00I	3500-HIT26
5	3520-33.00I	3500-HIT26
3	3524-36.00I	3500-HIT28
3	3523-36.00I	3500-HIT28
3	3521-36.00I	3500-HIT28
5	3520-36.00I	3500-HIT28
3	3521-39.00I	3521-39.00HIM
3	3520-39.00I	3520-39.00HIM
3	3523-40.00I	3523-40.00HIM
3	3523-42.00I	3523-42.00HIM
3	3520-42.00I	3520-42.00HIM
3	3523-45.00I	3523-45.00HIM
3	3520-45.00I	3520-45.00HIM
3	3523-48.00I	3523-48.00HIM
3	3520-48.00I	3520-48.00HIM
3	3523-50.00I	3523-50.00HIM
3	3523-52.00I	3523-52.00HIM
3	3520-52.00I	3520-52.00HIM

M MF

FREE

M/MF

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AISI 304

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FREE RUNNING INSERT KITS

 powercoil
 by CELESA

Pink

UNC

FREE




UNC






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
AISI 304






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		€		
			D	L mm
UNC N°2 - 56	3532-2GK	72,18	1.50	3.30
UNC N°3 - 48	3532-3GK	69,13	1.50	3.81
UNC N°4 - 40	3532-4GK	65,47	1.50	4.32
UNC N°5 - 40	3532-5GK	65,47	1.50	4.83
UNC N°6 - 32	3532-6GK	65,47	1.50	5.33
UNC N°8 - 32	3532-8GK	65,47	1.50	6.35
UNC N°10 - 24	3532-10GK	65,47	1.50	7.11
UNC N°12 - 24	3532-12GK	65,47	1.50	8.38
UNC 1/4 - 20	3532-1/4K	58,99	1.50	9.65
UNC 5/16 - 18	3532-5/16K	72,18	1.50	11.94
UNC 3/8 - 16	3532-3/8K	77,15	1.50	14.22
UNC 7/16 - 14	3532-7/16K	86,63	1.50	16.76
UNC 1/2 - 13	3532-1/2K	95,07	1.50	19.05
UNC 9/16 - 12	3532-9/16K	126,92	1.50	21.34
UNC 5/8 - 11	3532-5/8K	126,92	1.50	23.88
UNC 3/4 - 10	3532-3/4K	161,77	1.50	28.70
UNC 7/8 - 9	3532-7/8K	196,60	1.50	33.27
UNC 1 - 8	3532-1K	195,33	1.50	38.10

    				
Content				
20	2.40	3532-2GI	3500-HIT2	3500-TB2
20	2.70	3532-3GI	3500-HIT3	3500-TB3
20	3.10	3532-4GI	3500-HIT4	3500-TB4
20	3.40	3532-5GI	3500-HIT4	3500-TB4
20	3.80	3532-6GI	3500-HIT5	3500-TB5
20	4.40	3532-8GI	3500-HIT6	3500-TB6
20	5.20	3532-10GI	3500-HIT7	3500-TB8
20	5.80	3532-12GI	3500-HIT8	3500-TB8
20	6.70	3532-1/4I	3500-HIT9	3500-TB9
20	8.30	3532-5/16I	3500-HIT10	3500-TB12
15	9.90	3532-3/8I	3500-HIT13	3500-TB12
10	11.60	3532-7/16I	3500-HIT14	3500-TB14
10	13.00	3532-1/2I	3500-HIT15	3500-TB15
10	—	3532-9/16I	3500-HIT16	—
10	—	3532-5/8I	3500-HIT18	—
5	—	3532-3/4I	3500-HIT20	—
5	—	3532-7/8I	3500-HIT22	—
5	—	3532-1I	3500-HIT23	—

		€		
			D	L mm
UNC 1.1/8 - 7	3532-1.1/8K	393,75	1.50	42.93
UNC 1.1/4 - 7	3532-1.1/4K	438,04	1.50	47.75
UNC 1.3/8 - 6	3532-1.3/8K	526,62	1.50	52.32
UNC 1.1/2 - 6	3532-1.1/2K	613,58	1.50	57.15

    				
Content				
3	—	3532-1.1/8I	3500-HIT25	—
3	—	3532-1.1/4I	3500-HIT26	—
3	—	3532-1.3/8I	3500-HIT27	—
3	—	3532-1.1/2I	3500-HIT28	—

FREE RUNNING INSERT KITS



UNF

FREE

UNF



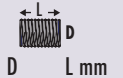



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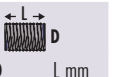



AISI 304

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		€				 mm	 $\le 60^\circ$ 4-5	Content		
			D	L mm						
UNF N°3 - 56	3534-3GK	72,05	1.50	3.30	20	2.70	3534-3GI	3500-HIT3	3500-TB3	
UNF N°4 - 48	3534-4GK	65,47	1.50	3.81	20	3.00	3534-4GI	3500-HIT4	3500-TB4	
UNF N°6 - 40	3534-6GK	65,47	1.50	4.32	20	3.80	3534-6GI	3500-HIT5	3500-TB5	
UNF N°8 - 36	3534-8GK	65,47	1.50	4.83	20	4.40	3534-8GI	3500-HIT6	3500-TB6	
UNF N°10 - 32	3534-10GK	65,47	1.50	5.33	20	5.10	3534-10GI	3500-HIT8	3500-TB8	
UNF N°12 - 28	3534-12GK	71,72	1.50	6.35	20	5.60	3534-12GI	3500-HIT8	3500-TB8	
UNF 1/4 - 28	3534-1/4K	58,99	1.50	7.11	20	6.70	3534-1/4I	3500-HIT9	3500-TB9	
UNF 5/16 - 24	3534-5/16K	72,18	1.50	8.38	20	8.30	3534-5/16I	3500-HIT11	3500-TB12	
UNF 3/8 - 24	3534-3/8K	77,15	1.50	9.65	15	9.80	3534-3/8I	3500-HIT13	3500-TB13	
UNF 7/16 - 16	3534-7/16-16K	104,96	1.50	11.94	10	11.50	3534-7/16-16I	3500-HIT14	3500-TB14	
UNF 7/16 - 20	3534-7/16K	86,63	1.50	14.22	10	11.50	3534-7/16I	3500-HIT14	3500-TB14	
UNF 1/2 - 20	3534-1/2K	95,07	1.50	16.76	10	13.00	3534-1/2I	3500-HIT15	3500-TB15	
UNF 9/16 - 18	3534-9/16K	126,92	1.50	19.05	10	—	3534-9/16I	3500-HIT16	—	
UNF 5/8 - 18	3534-5/8K	126,92	1.50	21.34	10	—	3534-5/8I	3500-HIT18	—	
UNF 3/4 - 16	3534-3/4K	161,77	1.50	23.88	5	—	3534-3/4I	3500-HIT21	—	
UNF 7/8 - 14	3534-7/8K	196,60	1.50	28.70	5	—	3534-7/8I	3500-HIT22	—	
UNF 1 - 12	3534-1K	192,65	1.50	33.27	5	—	3534-1I	3500-HIT23	—	
UNF 1 - 14	3535-1K	215,66	1.50	38.10	5	—	3535-1I	3500-HIT23	—	

		€				 mm	 $\le 60^\circ$ 4-5	Content		
			D	L mm						
UNF 1.1/8 - 12	3534-1.1/8K	393,75	1.50	42.93	3	—	3534-1.1/8I	3500-HIT25	—	
UNF 1.1/4 - 12	3534-1.1/4K	438,04	1.50	47.75	3	—	3534-1.1/4I	3500-HIT26	—	
UNF 1.3/8 - 12	3534-1.3/8K	526,62	1.50	52.32	3	—	3534-1.3/8I	3500-HIT27	—	
UNF 1.1/2 - 12	3534-1.1/2K	613,58	1.50	57.15	3	—	3534-1.1/2I	3500-HIT28	—	


FREE RUNNING INSERT KITS
BSW



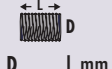




FREE

BSW

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AISI 304

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			€				mm				Content		
				D	L mm								
BSW 1/8 - 40		3528-1/8K	67,22	1.50	4.83	20	3.40	3528-1/8I	3500-HIT4	3500-TB4			
BSW 3/16 - 24		3528-3/16K	65,47	1.50	7.11	20	5.00	3528-3/16I	3500-HIT7	3500-TB8			
BSW 1/4 - 20		3528-1/4K	60,56	1.50	9.65	20	6.70	3528-1/4I	3500-HIT9	3500-TB9			
BSW 5/16 - 18		3528-5/16K	72,18	1.50	11.94	20	8.30	3528-5/16I	3500-HIT10	3500-TB11			
BSW 3/8 - 16		3528-3/8K	77,15	1.50	14.22	15	9.90	3528-3/8I	3500-HIT11	3500-TB12			
BSW 7/16 - 14		3528-7/16K	86,63	1.50	16.76	10	11.50	3528-7/16I	3500-HIT14	3500-TB14			
BSW 1/2 - 12		3528-1/2K	95,07	1.50	19.05	10	13.00	3528-1/2I	3500-HIT15	3500-TB15			
BSW 9/16 - 12		3528-9/16K	126,92	1.50	21.34	10	–	3528-9/16I	3500-HIT16	–			
BSW 5/8 - 11		3528-5/8K	126,92	1.50	23.88	10	–	3528-5/8I	3500-HIT18	–			
BSW 3/4 - 10		3528-3/4K	161,77	1.50	28.70	5	–	3528-3/4I	3500-HIT20	–			
BSW 7/8 - 9		3528-7/8K	196,60	1.50	33.27	5	–	3528-7/8I	3500-HIT22	–			
BSW 1 - 8		3528-1K	195,33	1.50	38.10	5	–	3528-1I	3500-HIT23	–			

BSF

FREE



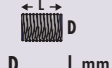




BSF

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			€				mm				Content		
				D	L mm								
BSF 3/16 - 32		3530-3/16K	65,47	1.50	7.11	20	5.0	3530-3/16I	3500-HIT8	3500-TB6			
BSF 1/4 - 26		3530-1/4K	58,99	1.50	9.65	20	6.6	3530-1/4I	3500-HIT9	3500-TB9			
BSF 5/16 - 22		3530-5/16K	72,18	1.50	11.94	20	8.3	3530-5/16I	3500-HIT11	3500-TB11			
BSF 3/8 - 20		3530-3/8K	77,15	1.50	14.22	15	9.9	3530-3/8I	3500-HIT13	3500-TB12			
BSF 7/16 - 18		3530-7/16K	86,63	1.50	16.76	10	11.5	3530-7/16I	3500-HIT14	3500-TB14			
BSF 1/2 - 16		3530-1/2K	95,07	1.50	19.05	10	13.0	3530-1/2I	3500-HIT15	3500-TB15			
BSF 9/16 - 16		3530-9/16K	126,92	1.50	21.34	10	–	3530-9/16I	3500-HIT16	–			
BSF 5/8 - 14		3530-5/8K	126,92	1.50	23.88	10	–	3530-5/8I	3500-HIT18	–			
BSF 3/4 - 12		3530-3/4K	161,77	1.50	28.70	5	–	3530-3/4I	3500-HIT20	–			
BSF 7/8 - 11		3530-7/8K	196,60	1.50	33.27	5	–	3530-7/8I	3500-HIT22	–			
BSF 1 - 10		3530-1K	198,40	1.50	38.10	5	–	3530-1I	3500-HIT23	–			

FREE RUNNING INSERT KITS



**BSP
(GAS)**

FREE

BSP

1.5D

AISI 304

HSS

HSS

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		€		D	L mm
BSP 1/8 - 28	3546-1/8K	105,01		1.50	4.83
BSP 1/4 - 19	3546-1/4K	110,89		1.50	9.65
BSP 3/8 - 19	3546-3/8K	127,45		1.50	14.22
BSP 1/2 - 14	3546-1/2K	167,53		1.50	19.05
BSP 5/8 - 14	3546-5/8K	343,92		1.50	23.88
BSP 3/4 - 14	3546-3/4K	360,35		1.50	28.70
BSP 7/8 - 14	3546-7/8K	482,33		1.50	33.27
BSP 1 - 11	3546-1K	482,33		1.50	38.10

Content		
10	3546-1/8I	3500-HIT14
10	3546-1/4I	3500-HIT16
10	3546-3/8I	3500-HIT20
10	3546-1/2I	3500-HIT23
10	3546-5/8I	3500-HIT23
10	3546-3/4I	3500-HIT24
5	3546-7/8I	3500-HIT27
5	3546-1I	3500-HIT27

		€		D	L mm
NPT 1/8 - 27	3552-1/8K	255,34		1.50	4,78
NPT 1/4 - 18	3552-1/4K	288,63		1.50	9,53
NPT 3/8 - 18	3552-3/8K	366,37		1.50	14,30
NPT 1/2 - 14	3552-1/2K	478,93		1.50	19,05
NPT 3/4 - 14	3552-3/4K	585,35		1.50	28,58
NPT 1 - 11.1/2	3552-1K	776,90		1.50	38,10

Content		
10	3552-1/8I	3500-HIT13
10	3552-1/4I	3500-HIT16
10	3552-3/8I	3500-HIT18
10	3552-1/2I	3500-HIT22
10	3552-3/4I	3500-HIT24
10	3552-1I	3500-HIT27

FREE RUNNING INSERT KITS

UNx8



FREE



8-UN



1.5D



AISI 304



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	D	L mm	€	D L mm	
				D	L mm
UN 1.1/8 - 8	3570-1.1/8K	585,35	1.50	42.88	
UN 1.1/4 - 8	3570-1.1/4K	713,07	1.50	47.63	
UN 1.3/8 - 8	3570-1.3/8K	883,34	1.50	52.37	
UN 1.1/2 - 8	3570-1.1/2K	776,90	1.50	57.15	
UN 1.5/8 - 8	3570-1.5/8K	1.096,19	1.50	61.93	
UN 1.3/4 - 8	3570-1.3/4K	1.138,76	1.50	66.68	
UN 1.7/8 - 8	3570-1.7/8K	1.287,75	1.50	71.42	
UN 2 - 8	3570-2K	1.436,77	1.50	76.20	

Content		
3	3570-1.1/8I	3500-HIT25
3	3570-1.1/4I	3500-HIT26
3	3570-1.3/8I	3500-HIT27
3	3570-1.1/2I	3500-HIT28
3	3570-1.5/8I	3500-HIT28
3	3570-1.3/4I	3500-HIT28
3	3570-1.7/8I	3500-HIT30
3	3570-2I	3500-HIT30



BA



FREE



BA



1.5D



AISI 304



HSS





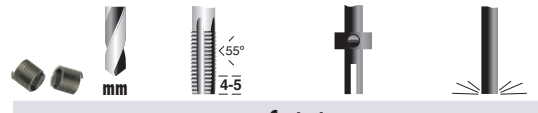
HSS

...K


	D	L mm	€	D L mm		Content			
				D	L mm	mm			
BA 0	3544-0K	124,99	1.50	8.99	20	6.20	3544-0I	3500-HIT9	3500-TB11
BA 2	3544-2K	124,99	1.50	7.06	20	4.90	3544-2I	3500-HIT7	3500-TB8
BA 4	3544-4K	124,99	1.50	5.41	20	3.80	3544-4I	3500-HIT5	3500-TB5
BA 6	3544-6K	137,34	1.50	4.19	20	2.90	3544-6I	3500-HIT3	3500-TB3


FREE RUNNING INSERT KITS




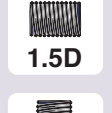
		€							
			D	L mm	Content				
BSB 1/4/26	3560-1/4K	152,97	1.50	9,53	20	6.6	3560-1/4I	3500-HIT10	3500-TB9
BSB 5/16 - 26	3560-5/16K	121,56	1.50	11,91	20	8.0	3560-5/16I	3500-HIT11	3500-TB12
BSB 3/8/26	3560-3/8K	131,69	1.50	14,30	15	9.8	3560-3/8I	3500-HIT13	3500-TB13
BSB 7/16 - 26	3560-7/16K	141,83	1.50	16,66	10	11.1	3560-7/16I	3500-HIT14	3500-TB14
BSB 1/2/26	3560-1/2K	151,97	1.50	19,05	10	12.7	3560-1/2I	3500-HIT15	3500-TB15


BSB

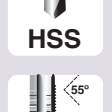
 **FREE**

 **BSB**

 **1.5D**

 **AISI 304**

 **HSS**

 **HSS**

...K

M MF

 **FREE**



 **M/MF**

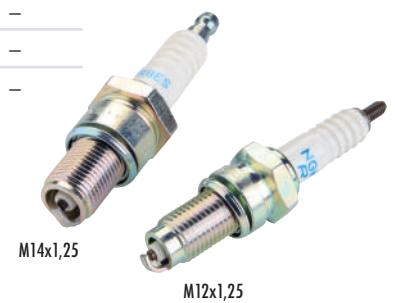
 **AISI 304**

 **HSS**

 **HSS**

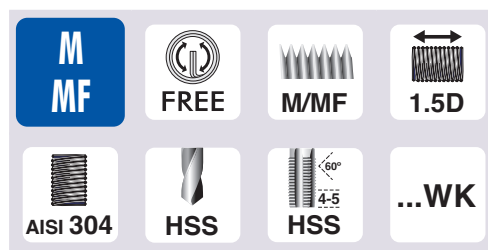
...K



		€						
			D	L mm	Content			
M 10 x 1.00	3522-10.00K	110,95	-	1/2"	5	3520-10.00PN	3500-HIT13	3500-TB13
			-	0.339 mm	5	-	-	-
M 12 x 1.25	3522-12.00K	135,23	-	1/2"	5	3522-12.00PN	3500-HIT15	3500-TB15
			-	3/4"	5	-	-	-
M 14 x 1.25	3522-14.00K	121,25	-	3/8"	5	3522-14.00PN	3500-HIT17	-
			-	1/2"	5	-	-	-
			-	3/4"	5	-	-	-
M 18 x 1.50	3522-18.00K	219,53	-	1/2"	5	3522-18.00PN	3500-HIT20	-
M 14 x 1.25	3522-14.00K1	116,98	8.40	-	5	3522-14.00PN	3500-HIT17	-
			12.40	-	5	-	-	-
			16.40	-	5	-	-	-



M14x1,25

M12x1,25

FREE RUNNING INSERT KITS


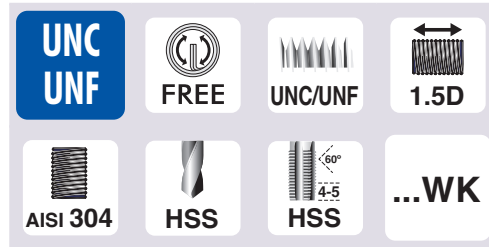
								
		D	L mm	SET M5 - M12				
	M 5 x 0.80	1.50	7.50	25	5.20	3520-5.00I	3500-HIT8	3500-TB8
	M 6 x 1.00	1.50	9.00	25	6.30	3520-6.00I	3500-HIT9	3500-TB9
	M 8 x 1.25	1.50	12.00	25	8.30	3520-8.00I	3500-HIT11	3500-TB12
3520-WK1	M 10 x 1.50	1.50	15.00	25	10.40	3520-10.00I	3500-HIT13	3500-TB13
358,47 €	M 12 x 1.75	1.50	18.00	10	12.50	3520-12.00I	3500-HIT15	3500-TB15



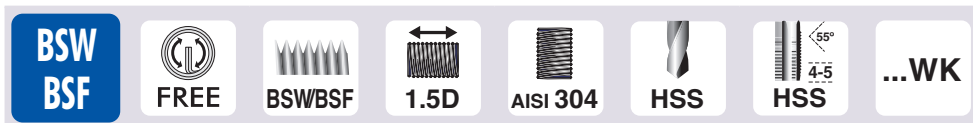
M14x1,25

									
		D	L mm	SPARK PLUG M6 - M12 + M14 X 1.25					
	M 6 x 1.00	1.50	9.00	25	6.30	3520-6.00I	-	3500-HIT9	3500-TB9
	M 8 x 1.25	1.50	12.00	25	8.30	3520-8.00I	-	3500-HIT11	3500-TB12
	M 10 x 1.50	1.50	15.00	25	10.40	3520-10.00I	-	3500-HIT13	3500-TB13
	M 12 x 1.75	1.50	18.00	10	12.50	3520-12.00I	-	3500-HIT15	3500-TB15
	M 14 x 1.25	-	8.40	5	14.25	-	3522-14.00PN	3500-HIT17	-
3522-WK4		-	12.40	5	-	-	-	-	-
413,08 €		-	16.40	5	-	-	-	-	-

FREE RUNNING INSERT KITS



		D	L mm	SET UNC 1/4" - 1/2"					
	UNC	1/4 - 20	1.50	9.65	25	6.70	3532-1/4I	3500-HIT9	3500-TB9
	UNC	5/16 - 18	1.50	11.94	25	8.30	3532-5/16I	3500-HIT10	3500-TB12
	UNC	3/8 - 16	1.50	14.48	25	9.90	3532-3/8I	3500-HIT13	3500-TB12
3532-WK1	UNC	7/16 - 14	1.50	16.76	10	11.60	3532-7/16I	3500-HIT14	3500-TB14
447,97 €	UNC	1/2 - 13	1.50	19.05	10	13.00	3532-1/2I	3500-HIT15	3500-TB15
		D	L mm	SET UNF 1/4" - 1/2"					
	UNF	1/4 - 28	1.50	9.65	25	6.70	3534-1/4I	3500-HIT9	3500-TB9
	UNF	5/16 - 24	1.50	11.94	25	8.30	3534-5/16I	3500-HIT11	3500-TB12
	UNF	3/8 - 24	1.50	14.48	25	9.80	3534-3/8I	3500-HIT13	3500-TB12
3534-WK1	UNF	7/16 - 20	1.50	16.76	10	11.50	3534-7/16I	3500-HIT14	3500-TB14
447,97 €	UNF	1/2 - 20	1.50	19.05	10	13.00	3534-1/2I	3500-HIT15	3500-TB15



		D	L mm	SET BSW 1/4" - 1/2"					
	BSW	1/4 - 20	1.50	9.65	25	6.70	3528-1/4I	3500-HIT9	3500-TB9
	BSW	5/16 - 18	1.50	11.94	25	8.30	3528-5/16I	3500-HIT10	3500-TB11
	BSW	3/8 - 16	1.50	14.48	25	10.00	3528-3/8I	3500-HIT11	3500-TB12
3528-WK1	BSW	7/16 - 14	1.50	16.76	10	11.60	3528-7/16I	3500-HIT14	3500-TB14
447,97 €	BSW	1/2 - 12	1.50	19.05	10	13.00	3528-1/2I	3500-HIT15	3500-TB15
		D	L mm	SET BSF 1/4" - 1/2"					
	BSF	1/4 - 26	1.50	9.65	25	6.60	3530-1/4I	3500-HIT9	3500-TB9
	BSF	5/16 - 22	1.50	11.94	25	8.30	3530-5/16I	3500-HIT11	3500-TB11
	BSF	3/8 - 20	1.50	14.48	25	9.80	3530-3/8I	3500-HIT13	3500-TB12
3530-WK1	BSF	7/16 - 18	1.50	16.76	10	11.60	3530-7/16I	3500-HIT14	3500-TB14
447,97 €	BSF	1/2 - 16	1.50	19.05	10	13.25	3530-1/2I	3500-HIT15	3500-TB15

FREE RUNNING INSERT DISPLAYS


330 x 360 x 515 mm

DISPLAY CONTENT
SETS

4	M 3x0.5		3520-3.00K
4	M 4x0.7		3520-4.00K
4	M 5x0.8		3520-5.00K
3	M 6x1.0		3520-6.00K
3	M 8x1.25		3520-8.00K
3	M 10x1.5		3520-10.00K
2	M 12x1.75		3520-12.00K
2	M 14x2.0		3520-14.00K
SPARK PLUG			
2	M 14x1.25		3522-14.00K

1-87

1.859,70 €

DISPLAY CONTENT
SETS
BLISTERS

4	M 3x0.5	3520-3.00K	5	M 4x0.7-1.5D	3520-4.00x1.5DP
4	M 4x0.7	3520-4.00K	5	M 5x0.8-1.5D	3520-5.00x1.5DP
4	M 5x0.8	3520-5.00K	5	M 6x1.0-1.5D	3520-6.00x1.5DP
4	M 6x1.0	3520-6.00K	5	M 8x1.25-1.5D	3520-8.00x1.5DP
3	M 8x1.25	3520-8.00K	5	M 10x1.50-1.5D	3521-10.00x1.5DP
3	M 10x1.5	3520-10.00K	5	M 12x1.75-1.5D	3520-12.00x1.5DP

1-88

1.431,60 €



330 x 360 x 515 mm

FREE RUNNING INSERT DISPLAYS






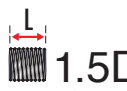
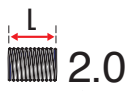
330 x 360 x 515 mm

DISPLAY CONTENT					
SETS			BLISTERS		
			5	M 3x0.5-1.5D	3520-3.00x1.5DP
			5	M 4x0.7-1.5D	3520-4.00x1.5DP
4	M5x0.8	3520-5.00K	5	M 5x0.8-1.5D	3520-5.00x1.5DP
			5	M 6x1.0-1.0D	3520-6.00x1.0DP
4	M6x1.0	3520-6.00K	5	M 6x1.0-1.5D	3520-6.00x1.5DP
3	M8x1.25	3520-8.00K	3	M 8x1.25-1.0D	3520-8.00x1.0DP
			5	M 8x1.25-2.0D	3520-8.00x2.0DP
			5	M 10x1.5-1.5D	3520-10.00x1.5DP
			5	M 10x1.5-2.0D	3521-10.00x2.0DP
			5	M 12x1.75-1.5D	3520-12.00x1.5DP
			3	M 16x2.0-1.5D	3520-16.00x1.5DP
SPARK PLUG					
5	M 14x1.25-1/2"	M14x1.25-1/2P			

1-89
1.014,07 €

FREE RUNNING INSERTS IN REEL



		 1.0D		 1.5D		 2.0D		
		L mm	€	L mm	€	L mm	€	
M 2.20 x 0.45	3520-2.20	1000	2.20	433,63	3.30	439,91	4.40	474,47
M 2.50 x 0.45	3520-2.50	1000	2.50	207,70	3.75	223,10	5.00	251,38
M 3 x 0.50	3520-3.00	1000	3.00	194,83	4.50	223,10	6.00	241,94
M 4 x 0.70	3520-4.00	1000	4.00	191,68	6.00	204,24	8.00	226,23
M 5 x 0.80	3520-5.00	1000	5.00	191,68	7.50	226,55	10.00	245,57
M 6 x 1.00	3520-6.00	500	6.00	118,68	9.00	127,41	12.00	165,60
M 8 x 1.00	3521-8.00	250	8.00	89,17	12.00	95,17	16.00	120,89
M 8 x 1.25	3520-8.00	250	8.00	75,01	12.00	82,31	16.00	113,17
M 10 x 1.50	3520-10.00	250	10.00	99,78	15.00	113,17	20.00	131,19
M 12 x 1.75	3520-12.00	125	12.00	70,77	18.00	83,86	24.00	99,02




Coding example:

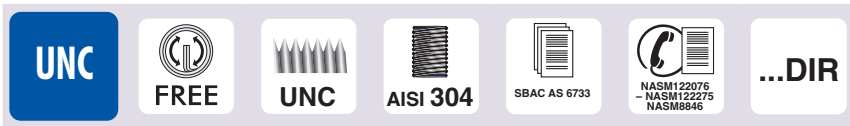
M 6 x 1.00

 1.0D
3520-6.00x1.0DIR

 1.5D
3520-6.00x1.5DIR

 2.0D
3520-6.00x2.0DIR

FREE RUNNING INSERTS IN REEL



				1.0D		1.5D		2.0D	
			L mm	€	L mm	€	L mm	€	
UNC	Nº2 - 56	3532-2G	1000	2.29	574,14	3.30	672,16	4.32	868,19
UNC	Nº4 - 40	3532-4G	1000	2.79	210,09	4.32	219,26	5.59	224,05
UNC	Nº5 - 40	3532-5G	1000	3.30	231,05	4.83	245,05	6.35	259,07
UNC	Nº6 - 32	3532-6G	1000	3.56	208,18	5.33	233,15	7.11	249,82
UNC	Nº8 - 32	3532-8G	1000	4.06	208,18	6.35	233,15	8.38	249,82
UNC	Nº10 - 24	3532-10G	1000	4.83	224,05	7.37	235,20	9.65	245,05
UNC	1/4 - 20	3532-1/4	500	6.35	145,25	9.65	162,84	12.70	176,04
UNC	5/16 - 18	3532-5/16	250	7.87	110,03	11.94	132,53	15.75	140,03
UNC	3/8 - 16	3532-3/8	250	9.65	170,04	14.48	194,65	19.30	222,56



				1.0D		1.5D		2.0D	
			L mm	€	L mm	€	L mm	€	
UNF	Nº4 - 48	3534-4G	1000	2.79	512,69	4.32	581,97	5.59	775,97
UNF	Nº6 - 40	3534-6G	1000	3.56	512,69	5.33	581,97	7.11	775,97
UNF	Nº8 - 36	3534-8G	1000	4.06	512,69	6.35	581,97	8.38	775,97
UNF	Nº10 - 32	3534-10G	1000	4.83	221,70	7.37	228,64	9.65	277,14
UNF	1/4 - 28	3534-1/4	500	6.35	143,69	9.65	154,57	12.70	174,20
UNF	5/16 - 24	3534-5/16	250	7.87	108,87	11.94	116,29	15.75	138,56
UNF	3/8 - 24	3534-3/8	250	9.65	160,84	14.48	168,26	19.30	202,90



Coding example:

	1.0D	1.5D	2.0D
UNC 1/4 - 20	3532-1/4x1.0DIR	3532-1/4x1.5DIR	3532-1/4x2.0DIR

SCREW LOCKING INSERTS IN REEL


1.0D
 1.5D
 2.0D

		1.0D		1.5D		2.0D		
		L mm	€	L mm	€	L mm	€	
M 2.20 x 0.45	3520-2.20	1000	2.20	537,35	3.30	628,43	4.40	659,86
M 2.50 x 0.45	3520-2.50	1000	2.50	277,35	3.75	284,31	5.00	377,07
M 3 x 0.50	3520-3.00	1000	3.00	238,83	4.50	274,56	6.00	314,21
M 4 x 0.70	3520-4.00	1000	4.00	268,70	6.00	282,80	8.00	289,11
M 5 x 0.80	3520-5.00	1000	5.00	268,70	7.50	298,52	10.00	345,64
M 6 x 1.00	3520-6.00	500	6.00	159,38	9.00	166,34	12.00	202,31
M 8 x 1.00	3521-8.00	250	8.00	114,30	12.00	127,39	16.00	145,07
M 8 x 1.25	3520-8.00	250	8.00	95,30	12.00	113,17	16.00	132,33
M 10 x 1.50	3520-10.00	250	10.00	119,74	15.00	155,68	20.00	157,41
M 12 x 1.75	3520-12.00	125	12.00	87,98	18.00	109,68	24.00	119,60



Coding example:

M 3 x 0.50




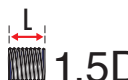
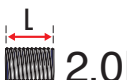
 1.0D
 3520-3.00x1.0DIRSL

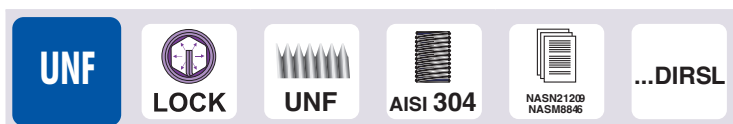
 1.5D
 3520-3.00x1.5DIRSL




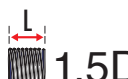
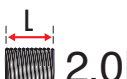
 2.0D
 3520-3.00x2.0DIRSL

SCREW LOCKING INSERTS IN REEL



			 1.0D		 1.5D		 2.0D	
			L mm	€	L mm	€	L mm	€
UNC N°2 - 56	3532-2G	1000	2.29	688,97	3.30	806,59	4.32	1.041,85
UNC N°4 - 40	3532-4G	1000	2.79	268,85	4.32	282,85	5.59	307,11
UNC N°5 - 40	3532-5G	1000	3.30	310,88	4.83	328,05	6.35	339,94
UNC N°6 - 32	3532-6G	1000	3.56	249,82	5.33	279,78	7.11	299,79
UNC N°8 - 32	3532-8G	1000	4.06	249,82	6.35	279,78	8.38	299,79
UNC N°10 - 24	3532-10G	1000	4.83	268,85	7.37	278,21	9.65	294,07
UNC 1/4 - 20	3532-1/4	500	6.35	176,02	9.65	197,35	12.70	213,35
UNC 5/16 - 18	3532-5/16	250	7.87	135,81	11.94	163,59	15.75	172,84
UNC 3/8 - 16	3532-3/8	250	9.65	209,88	14.48	217,81	19.30	274,70



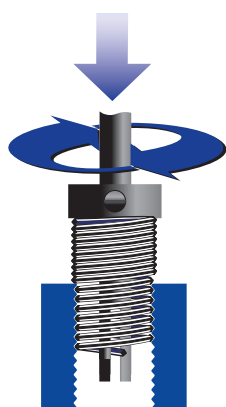
			 1.0D		 1.5D		 2.0D	
			L mm	€	L mm	€	L mm	€
UNF N°4 - 48	3534-4G	1000	2.79	615,24	4.32	698,38	5.59	931,17
UNF N°6 - 40	3534-6G	1000	3.56	615,24	5.33	698,38	7.11	931,17
UNF N°8 - 36	3534-8G	1000	4.06	615,24	6.35	698,38	8.38	931,17
UNF N°10 - 32	3534-10G	1000	4.83	266,05	7.37	274,37	9.65	332,56
UNF 1/4 - 28	3534-1/4	500	6.35	176,15	9.65	188,91	12.70	212,60
UNF 5/16 - 24	3534-5/16	250	7.87	135,81	11.94	145,07	15.75	172,84
UNF 3/8 - 24	3534-3/8	250	9.65	200,62	14.48	209,88	19.30	253,09




Coding example:

	 1.0D	 1.5D	 2.0D
UNF 1/4 - 28	3534-1/4x1.0DIRSL	3534-1/4x1.5DIRSL	3534-1/4x2.0DIRSL

PNEUMATIC TOOL



		€		€		€		€		€
M 2.20 x 0.45	3520-2.20MIP	453,58	3520-2.20MIPM	165,55	3520-2.20MIPN	289,15	3500-MIP1	1.778,53	-	
M 2.50 x 0.45	3520-2.50MIP	289,15	3520-2.50MIPM	104,33	3520-2.50MIPN	185,96	3500-MIP1	1.778,53	-	
M 3 x 0.50	3520-3.00MIP	289,15	3520-3.00MIPM	104,33	3520-3.00MIPN	185,96	3500-MIP1	1.778,53	-	
M 3.50 x 0.60	3520-3.50MIP	453,58	3520-3.50MIPM	165,55	3520-3.50MIPN	289,15	3500-MIP1	1.778,53	-	
M 4 x 0.70	3520-4.00MIP	289,15	3520-4.00MIPM	104,33	3520-4.00MIPN	185,96	3500-MIP1	1.778,53	-	
M 5 x 0.80	3520-5.00MIP	289,15	3520-5.00MIPM	104,33	3520-5.00MIPN	185,96	3500-MIP1	1.778,53	-	
M 6 x 1.00	3520-6.00MIP	289,15	3520-6.00MIPM	104,33	3520-6.00MIPN	185,96	3500-MIP1	1.778,53	-	
M 8 x 1.00	3521-8.00MIP	617,99	3521-8.00MIPM	226,79	3521-8.00MIPN	392,34	-		3500-MIP2	2.122,25
M 8 x 1.25	3520-8.00MIP	617,99	3520-8.00MIPM	226,79	3520-8.00MIPN	392,34	-		3500-MIP2	2.122,25
M 10 x 1.00	3523-10.00MIP	617,99	3523-10.00MIPM	226,79	3523-10.00MIPN	392,34	-		3500-MIP2	2.122,25
M 10 x 1.25	3521-10.00MIP	617,99	3521-10.00MIPM	226,79	3521-10.00MIPN	392,34	-		3500-MIP2	2.122,25
M 10 x 1.50	3520-10.00MIP	617,99	3520-10.00MIPM	226,79	3520-10.00MIPN	392,34	-		3500-MIP2	2.122,25
M 12 x 1.25	3523-12.00MIP	700,77	3523-12.00MIPM	268,75	3523-12.00MIPN	433,16	-		3500-MIP2	2.122,25
M 12 x 1.50	3521-12.00MIP	700,77	3521-12.00MIPM	268,75	3521-12.00MIPN	433,16	-		3500-MIP2	2.122,25
M 12 x 1.75	3520-12.00MIP	700,77	3520-12.00MIPM	268,75	3520-12.00MIPN	433,16	-		3500-MIP2	2.122,25

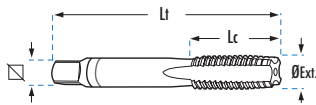
PNEUMATIC TOOL



		€		€		€		€		€
UNC N°2 - 56	3532-2GMIP	426,36	3532-2GMIPM	165,55	3532-2GMIPN	261,93	3500-MIP1	1.778,53	-	-
UNC N°4 - 40	3532-4GMIP	289,15	3532-4GMIPM	104,33	3532-4GMIPN	185,96	3500-MIP1	1.778,53	-	-
UNC N°5 - 40	3532-5GMIP	453,58	3532-5GMIPM	165,55	3532-5GMIPN	289,15	3500-MIP1	1.778,53	-	-
UNC N°6 - 32	3532-6GMIP	289,15	3532-6GMIPM	104,33	3532-6GMIPN	185,96	3500-MIP1	1.778,53	-	-
UNC N°8 - 32	3532-8GMIP	289,15	3532-8GMIPM	104,33	3532-8GMIPN	185,96	3500-MIP1	1.778,53	-	-
UNC N°10 - 24	3532-10GMIP	289,15	3532-10GMIPM	104,33	3532-10GMIPN	185,96	3500-MIP1	1.778,53	-	-
UNC N°12 - 24	3532-12GMIP	289,15	3532-12GMIPM	104,33	3532-12GMIPN	185,96	3500-MIP1	1.778,53	-	-
UNC 1/4 - 20	3532-1/4MIP	289,15	3532-1/4MIPM	104,33	3532-1/4MIPN	185,96	3500-MIP1	1.778,53	-	-
UNC 5/16 - 18	3532-5/16MIP	617,99	3532-5/16MIPM	226,79	3532-5/16MIPN	392,34	-	-	3500-MIP2	2.122,25
UNC 3/8 - 16	3532-3/8MIP	617,99	3532-3/8MIPM	226,79	3532-3/8MIPN	392,34	-	-	3500-MIP2	2.122,25
UNC 7/16 - 14	3532-7/16MIP	700,77	3532-7/16MIPM	268,75	3532-7/16MIPN	433,16	-	-	3500-MIP2	2.122,25
UNC 1/2 - 13	3532-1/2MIP	700,77	3532-1/2MIPM	268,75	3532-1/2MIPN	433,16	-	-	3500-MIP2	2.122,25



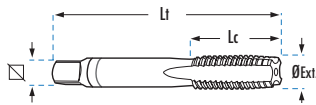
		€		€		€		€		€
UNF N°6 - 40	3534-6GMIPM	453,58	3534-6GMIPM	165,55	3534-6GMIPN	289,15	3500-MIP1	1.778,53	-	-
UNF N°8 - 36	3534-8GMIPM	453,58	3534-8GMIPM	165,55	3534-8GMIPN	289,15	3500-MIP1	1.778,53	-	-
UNF N°10 - 32	3534-10GMIPM	289,15	3534-10GMIPM	104,33	3534-10GMIPN	185,96	3500-MIP1	1.778,53	-	-
UNF 1/4 - 28	3534-1/4MIPM	289,15	3534-1/4MIPM	104,33	3534-1/4MIPN	185,96	3500-MIP1	1.778,53	-	-
UNF 5/16 - 24	3534-5/16MIPM	617,99	3534-5/16MIPM	226,79	3534-5/16MIPN	392,34	-	-	3500-MIP2	2.122,25
UNF 3/8 - 24	3534-3/8MIPM	617,99	3534-3/8MIPM	226,79	3534-3/8MIPN	392,34	-	-	3500-MIP2	2.122,25
UNF 7/16 - 20	3534-7/16MIPM	700,77	3534-7/16MIPM	268,75	3534-7/16MIPN	433,16	-	-	3500-MIP2	2.122,25
UNF 1/2 - 20	3534-1/2MIPM	700,77	3534-1/2MIPM	268,75	3534-1/2MIPN	433,16	-	-	3500-MIP2	2.122,25

STI HAND & MACHINE TAPS & GAUGES


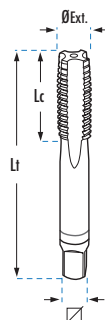
TOLERANCE				TOL 5H-6H		TOL 5H-6H		TOL 5H-6H		TOL 5H-6H	
MATERIAL				HSS		HSS-V3		HSS-V3		Gauge	
FORM				Hand		B FORM		35°		Gauge	
Ø	Ø Ext.	Lt x Lc x \varnothing		€	€	€	€	€	€	€	
M 2 x 0.40	2.10	2.52	44x9.5x2.2	3520-2.00I	15,23	3520-2.00SP	20,09	3520-2.00SF	20,09	3520-2.00GC	223,97
M 2.20 x 0.45	2.30	2.78	48x11x2.5	3520-2.20I	18,08	3520-2.20SP	20,09	3520-2.20SF	20,09	3520-2.20GC	250,40
M 2.50 x 0.45	2.60	3.08	48x11x2.5	3520-2.50I	15,23	3520-2.50SP	20,09	3520-2.50SF	20,09	3520-2.50GC	250,40
M 3 x 0.50	3.20	3.65	53x13x3.15	3520-3.00I	13,28	3520-3.00SP	15,23	3520-3.00SF	15,23	3520-3.00GC	181,30
M 3.50 x 0.60	3.70	4.27	53x13x3.55	3520-3.50I	13,28	3520-3.50SP	15,23	3520-3.50SF	15,23	3520-3.50GC	175,96
M 4 x 0.70	4.20	4.90	58x16x4	3520-4.00I	13,28	3520-4.00SP	15,23	3520-4.00SF	15,23	3520-4.00GC	170,65
M 5 x 0.80	5.20	6.03	66x19x5	3520-5.00I	13,28	3520-5.00SP	15,23	3520-5.00SF	15,23	3520-5.00GC	165,32
M 6 x 1.00	6.30	7.29	72x22x6.3	3520-6.00I	13,28	3520-6.00SP	15,23	3520-6.00SF	15,23	3520-6.00GC	159,98
M 7 x 1.00	7.30	8.29	72x22x7.1	3520-7.00I	16,56	3520-7.00SP	19,09	3520-7.00SF	19,09	3520-7.00GC	183,96
M 8 x 1.00	8.30	9.29	80x24x8	3521-8.00I	16,56	3521-8.00SP	19,09	3521-8.00SF	19,09	3521-8.00GC	196,90
M 8 x 1.25	8.30	9.62	80x24x8	3520-8.00I	16,56	3520-8.00SP	19,09	3520-8.00SF	19,09	3520-8.00GC	165,32
M 9 x 1.25	9.40	10.62	85x25x6.3	3520-9.00I	20,29	3520-9.00SP	29,42	3520-9.00SF	29,42	3520-9.00GC	170,65
M 10 x 1.00	10.30	11.29	85x25x6.3	3523-10.00I	20,29	3523-10.00SP	22,96	3523-10.00SF	22,96	3523-10.00GC	223,97
M 10 x 1.25	10.30	11.62	85x25x6.3	3521-10.00I	20,29	3521-10.00SP	28,36	3521-10.00SF	28,36	3521-10.00GC	229,30
M 10 x 1.50	10.40	11.94	89x29x7.1	3520-10.00I	20,29	3520-10.00SP	22,96	3520-10.00SF	22,96	3520-10.00GC	175,96
M 11 x 1.00	11.30	12.29	89x29x7.1	3523-11.00I	27,48	3523-11.00SP	30,59	3523-11.00SF	30,59	3523-11.00GC	234,62
M 11 x 1.25	11.30	12.62	89x29x7.1	3521-11.00I	27,58	3521-11.00SP	30,59	3521-11.00SF	30,59	3521-11.00GC	228,68
M 11 x 1.50	11.40	12.94	89x29x7.1	3520-11.00I	22,96	3520-11.00SP	30,59	3520-11.00SF	30,59	3520-11.00GC	181,30
M 12 x 1.00	12.30	13.29	95x30x9	3524-12.00I	28,04	3524-12.00SP	34,88	3524-12.00SF	34,88	3524-12.00GC	238,37
M 12 x 1.25	12.30	13.62	95x30x9	3523-12.00I	28,04	3523-12.00SP	30,44	3523-12.00SF	30,44	3523-12.00GC	238,37
M 12 x 1.50	12.40	14.13	95x30x9	3521-12.00I	28,04	3521-12.00SP	34,29	3521-12.00SF	34,29	3521-12.00GC	213,29
M 12 x 1.75	12.50	14.27	95x30x9	3520-12.00I	22,96	3520-12.00SP	30,06	3520-12.00SF	30,06	3520-12.00GC	186,64
M 13 x 1.25	13.25	14.62	95x30x9	3521-13.00I	32,16	3521-13.00SP	43,46	3521-13.00SF	43,46	3521-13.00GC	229,30
M 13 x 1.75	13.50	15.27	102x32x10	3520-13.00I	32,16	3520-13.00SP	43,46	3520-13.00SF	43,46	3520-13.00GC	213,53
M 14 x 1.00	14.25	15.29	102x32x10	3524-14.00I	31,89	3524-14.00SP	53,46	3524-14.00SF	53,46	3524-14.00GC	255,97
M 14 x 1.25	14.25	15.62	102x32x10	3523-14.00I	31,89	3523-14.00SP	42,05	3523-14.00SF	42,05	3523-14.00GC	255,97
M 14 x 1.50	14.50	15.94	102x32x10	3521-14.00I	31,89	3521-14.00SP	42,05	3521-14.00SF	42,05	3521-14.00GC	234,62
M 14 x 2.00	14.50	16.59	102x32x10	3520-14.00I	31,89	3520-14.00SP	42,05	3520-14.00SF	42,05	3520-14.00GC	197,32
M 15 x 1.50	15.25	16.94	102x32x10	3521-15.00I	38,08	3521-15.00SP	59,96	3521-15.00SF	59,96	3521-15.00GC	245,31
M 15 x 2.00	15.50	17.59	112x37x11.2	3520-15.00I	38,08	3520-15.00SP	59,96	3520-15.00SF	59,96	3520-15.00GC	230,39
M 16 x 1.50	16.50	17.94	112x37x11.2	3521-16.00I	38,18	3521-16.00SP	53,08	3521-16.00SF	53,08	3521-16.00GC	250,64
M 16 x 2.00	16.50	18.59	112x37x11.2	3520-16.00I	38,18	3520-16.00SP	44,46	3520-16.00SF	44,46	3520-16.00GC	218,64

Overall dimensions for hand and machine taps are the same. Taps produced with further chamfers (2-3h and 6-8) or other special sizes are available upon request.

STI HAND & MACHINE TAPS & GAUGES

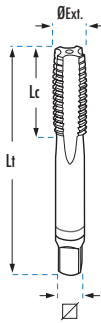


TOLERANCE				TOL 5H-6H		TOL 5H-6H		TOL 5H-6H		TOL 5H-6H	
MATERIAL				HSS		HSS-V3		HSS-V3		Gauge	
FORM				Hand		B FORM		35°		Gauge	
Ø	Ø Ext.	Lt	Lc	€	€	€	€	€	€	€	€
M 18 x 1.50	18.50	19.94	112x37x11.2	3523-18.00I	48,33	3523-18.00SP	66,96	3523-18.00SF	66,96	3523-18.00GC	254,96
M 18 x 2.00	18.50	20.59	112x37x11.2	3521-18.00I	48,33	3521-18.00SP	66,96	3521-18.00SF	66,96	3521-18.00GC	261,28
M 18 x 2.50	19.00	21.24	118x38x12.5	3520-18.00I	48,33	3520-18.00SP	66,96	3520-18.00SF	66,96	3520-18.00GC	234,62
M 20 x 1.50	20.50	21.94	118x38x12.5	3523-20.00I	53,15	3523-20.00SP	78,88	3523-20.00SF	78,88	3523-20.00GC	303,98
M 20 x 2.00	20.50	22.59	118x38x12.5	3521-20.00I	53,15	3521-20.00SP	78,88	3521-20.00SF	78,88	3521-20.00GC	277,31
M 20 x 2.50	20.75	23.24	118x38x12.5	3520-20.00I	53,15	3520-20.00SP	78,88	3520-20.00SF	78,88	3520-20.00GC	250,64
M 22 x 1.50	22.50	23.94	130x45x14	3523-22.00I	61,14	3523-22.00SP	111,56	3523-22.00SF	111,56	3523-22.00GC	325,03
M 22 x 2.00	22.50	24.59	130x45x14	3521-22.00I	61,14	3521-22.00SP	111,56	3521-22.00SF	111,56	3521-22.00GC	314,61
M 22 x 2.50	22.75	25.24	130x45x14	3520-22.00I	61,14	3520-22.00SP	111,56	3520-22.00SF	111,56	3520-22.00GC	266,61
M 24 x 1.50	24.50	25.94	130x45x14	3523-24.00I	77,31	3523-24.00SP	133,88	3523-24.00SF	133,88	3523-24.00GC	346,02
M 24 x 2.00	24.50	26.59	127x37x16	3521-24.00I	77,31	3521-24.00SP	133,88	3521-24.00SF	133,88	3521-24.00GC	314,87
M 24 x 3.00	25.00	27.89	135x45x16	3520-24.00I	77,31	3520-24.00SP	133,88	3520-24.00SF	133,88	3520-24.00GC	298,62
M 26 x 1.50	26.50	27.94	127x37x16	3523-26.00I	145,26	-	-	-	-	-	-
M 27 x 1.50	27.50	28.97	127x37x16	3523-27.00I	171,27	-	-	-	-	-	-
M 27 x 2.00	27.50	29.59	127x37x16	3521-27.00I	171,27	-	-	-	-	-	-
M 27 x 3.00	28.00	30.89	151x51x18	3520-27.00I	171,27	-	-	-	-	-	-
M 28 x 1.50	28.50	29.99	137x37x18	3523-28.00I	190,92	-	-	-	-	-	-
M 30 x 1.50	30.50	31.96	137x37x18	3523-30.00I	203,73	-	-	-	-	-	-
M 30 x 2.00	30.50	32.59	137x37x18	3521-30.00I	203,73	-	-	-	-	-	-
M 30 x 3.50	31.00	34.54	162x57x20	3520-30.00I	203,73	-	-	-	-	-	-
M 33 x 2.00	33.50	35.59	144x39x20	3521-33.00I	247,38	-	-	-	-	-	-
M 33 x 3.50	34.00	37.54	170x60x22.4	3520-33.00I	247,38	-	-	-	-	-	-
M 36 x 1.50	36.50	37.92	149x39x22.4	3524-36.00I	284,42	-	-	-	-	-	-
M 36 x 2.00	36.50	38.55	149x39x22.4	3523-36.00I	284,42	-	-	-	-	-	-
M 36 x 3.00	37.00	39.89	170x60x22.4	3521-36.00I	284,42	-	-	-	-	-	-
M 36 x 4.00	37.00	41.19	170x60x22.4	3520-36.00I	284,42	-	-	-	-	-	-
M 39x3,00	40.00	42.90	149x39x26	3521-39.00I	392,06	-	-	-	-	-	-
M 39x4,00	40.25	44.20	187x67x28	3520-39.00I	392,06	-	-	-	-	-	-
M 40x3,00	41.00	43.90	149x39x26	3523-40.00I	414,77	-	-	-	-	-	-
M 42x3,00	43.00	45.90	165x45x28	3523-42.00I	426,25	-	-	-	-	-	-
M 42x4,50	43.50	47.90	187x67x28	3520-42.00I	426,25	-	-	-	-	-	-
M 45x3,00	46.00	48.90	175x45x31	3523-45.00I	453,84	-	-	-	-	-	-
M 45x4,50	46.50	50.90	200x70x31	3520-45.00I	453,84	-	-	-	-	-	-
M 48x3,00	49.00	51.90	175x45x31	3523-48.00I	551,17	-	-	-	-	-	-
M 48x5,00	49.50	54.50	200x70x31	3520-48.00I	551,17	-	-	-	-	-	-
M 50x3,00	51.00	53.90	175x45x31	3523-50.00I	596,35	-	-	-	-	-	-
M 52x3,00	53.00	55.90	193x48x34	3523-52.00I	630,54	-	-	-	-	-	-
M 52x5,00	53.50	58.50	221x76x34	3520-52.00I	630,54	-	-	-	-	-	-

STI HAND & MACHINE TAPS & GAUGES


TOLERANCE					TOL 2B-3B		TOL 2B-3B		TOL 2B-3B		TOL 2B-3B	
MATERIAL					HSS		HSS-V3		HSS-V3		Gauge	
FORM					Hand		B FORM		35°		Gauge	
		Ø Ext.	Lt	Lc x \varnothing	€	€	€	€	€	€	€	
UNC	Nº2 - 56	2.40	2.77	44x9.5x2.2	3532-2GI	20,29	3532-2GSP	27,70	3532-2GSF	27,70	3532-2GGC	318,54
UNC	Nº3 - 48	2.70	3.02	44x9.5x2.2	3532-3GI	20,29	3532-3GSP	29,31	3532-3GSF	29,31	3532-3GGC	318,54
UNC	Nº4 - 40	3.00	3.67	53x13x3.15	3532-4GI	20,29	3532-4GSP	27,70	3532-4GSF	27,70	3532-4GGC	319,95
UNC	Nº5 - 40	3.40	4.00	53x13x3.15	3532-5GI	20,29	3532-5GSP	27,70	3532-5GSF	27,70	3532-5GGC	318,57
UNC	Nº6 - 32	3.70	4.53	58x16x4	3532-6GI	20,29	3532-6GSP	27,70	3532-6GSF	27,70	3532-6GGC	193,90
UNC	Nº8 - 32	4.40	5.19	62x17x4.5	3532-8GI	20,29	3532-8GSP	27,70	3532-8GSF	27,70	3532-8GGC	189,05
UNC	Nº10 - 24	5.10	6.20	66x19x5	3532-10GI	20,29	3532-10GSP	25,39	3532-10GSF	25,39	3532-10GGC	184,20
UNC	Nº12 - 24	5.70	6.86	66x19x5.6	3532-12GI	20,29	3532-12GSP	25,39	3532-12GSF	25,39	3532-12GGC	184,20
UNC	1/4 - 20	6.70	8.00	72x22x6.3	3532-1/4I	13,28	3532-1/4SP	18,48	3532-1/4SF	18,48	3532-1/4GC	174,53
UNC	5/16 - 18	8.30	9.77	80x24x8	3532-5/16I	16,47	3532-5/16SP	21,92	3532-5/16SF	21,92	3532-5/16GC	184,20
UNC	3/8 - 16	9.90	11.58	85x25x6.3	3532-3/8I	15,23	3532-3/8SP	27,70	3532-3/8SF	27,70	3532-3/8GC	184,20
UNC	7/16 - 14	11.60	13.47	95x30x9	3532-7/16I	20,29	3532-7/16SP	31,50	3532-7/16SF	31,50	3532-7/16GC	193,90
UNC	1/2 - 13	13.00	15.23	102x32x10	3532-1/2I	22,96	3532-1/2SP	34,62	3532-1/2SF	34,62	3532-1/2GC	208,45
UNC	9/16 - 12	15.00	17.03	112x37x11.2	3532-9/16I	38,18	3532-9/16SP	57,70	3532-9/16SF	57,70	3532-9/16GC	222,99
UNC	5/8 - 11	16.50	18.87	112x37x11.2	3532-5/8I	47,13	3532-5/8SP	80,42	3532-5/8SF	80,42	3532-5/8GC	232,70
UNC	3/4 - 10	20.00	22.34	118x38x12.5	3532-3/4I	57,27	3532-3/4SP	81,56	3532-3/4SF	81,56	3532-3/4GC	266,61
UNC	7/8 - 9	23.00	25.89	130x45x14	3532-7/8I	66,83	3532-7/8SP	118,27	3532-7/8SF	118,27	3532-7/8GC	300,56
UNC	1 - 8	26.25	29.52	138x48x16	3532-1I	66,83	3532-1SP	138,47	3532-1SF	138,47	3532-1GC	339,34
UNC	1.1/8 - 7	29.50	33.28	151x51x18	3532-1.1/8I	202,36	-	-	-	-	-	-
UNC	1.1/4 - 7	32.50	36.46	162x57x20	3532-1.1/4I	242,78	-	-	-	-	-	-
UNC	1.3/8 - 6	36.00	40.42	170x60x22.4	3532-1.3/8I	303,50	-	-	-	-	-	-
UNC	1.1/2 - 6	39.50	43.59	187x67x25	3532-1.1/2I	393,36	-	-	-	-	-	-

STI HAND & MACHINE TAPS & GAUGES



TOLERANCE				TOL 2B-3B		TOL 2B-3B		TOL 2B-3B		TOL 2B-3B		
MATERIAL				HSS		HSS-V3		HSS-V3		Gauge		
FORM												
					€		€		€		€	
UNF	Nº3 - 56	2.70	3.09	44x9.5x2.2	3534-3GI	21,23	3534-3GSP	29,31	3534-3GSF	29,31	3534-3GGC	319,95
UNF	Nº4 - 48	3.00	3.53	50x13x2.80	3534-4GI	20,29	3534-4GSP	27,70	3534-4GSF	27,70	3534-4GGC	319,95
UNF	Nº6 - 40	3.70	4.33	53x13x3.55	3534-6GI	20,29	3534-6GSP	27,70	3534-6GSF	27,70	3534-6GGC	193,90
UNF	Nº8 - 36	4.40	5.08	62x17x4.50	3534-8GI	20,29	3534-8GSP	27,70	3534-8GSF	27,70	3534-8GGC	189,05
UNF	Nº10 - 32	5.10	5.85	66x19x5.00	3534-10GI	20,29	3534-10GSP	25,39	3534-10GSF	25,39	3534-10GGC	184,20
UNF	Nº12 - 28	5.80	6.75	66x19x5.60	3534-12GI	23,25	3534-12GSP	25,42	3534-12GSF	25,42	3534-12GGC	310,24
UNF	1/4 - 28	6.60	7.52	72x22x6.30	3534-1/4I	13,28	3534-1/4SP	18,48	3534-1/4SF	18,48	3534-1/4GC	174,53
UNF	5/16 - 24	8.20	9.31	80x24x8.00	3534-5/16I	14,63	3534-5/16SP	21,92	3534-5/16SF	21,92	3534-5/16GC	184,20
UNF	3/8 - 24	9.80	10.89	85x25x6.30	3534-3/8I	15,23	3534-3/8SP	27,70	3534-3/8SF	27,70	3534-3/8GC	184,20
UNF	7/16 - 20	11.50	12.76	89x29x7.10	3534-7/16I	20,29	3534-7/16SP	31,50	3534-7/16SF	31,50	3534-7/16GC	193,90
UNF	1/2 - 20	13.00	14.35	95x30x9.00	3534-1/2I	20,87	3534-1/2SP	34,62	3534-1/2SF	34,62	3534-1/2GC	208,45
UNF	9/16 - 18	14.75	16.12	102x32x10	3534-9/16I	38,18	3534-9/16SP	57,70	3534-9/16SF	57,70	3534-9/16GC	222,99
UNF	5/8 - 18	16.50	17.00	112x37x11.2	3534-5/8I	47,13	3534-5/8SP	80,42	3534-5/8SF	80,42	3534-5/8GC	227,84
UNF	3/4 - 16	19.50	21.11	112x37x11.2	3534-3/4I	57,27	3534-3/4SP	81,56	3534-3/4SF	81,56	3534-3/4GC	184,20
UNF	7/8 - 14	22.50	24.58	130x45x14	3534-7/8I	74,83	3534-7/8SP	118,27	3534-7/8SF	118,27	3534-7/8GC	276,34
UNF	1 - 12	26.00	28.15	127x37x16	3534-1I	66,45	3534-1SP	138,47	3534-1SF	138,47	3534-1GC	252,08
UNS	1 - 14	26.00	27.76	127x37x16	3535-1I	66,45	3535-1SP	138,47	3535-1SF	138,47	3535-1GC	252,08
UNF	1.1/8 - 12	29.50	31.32	137x37x18	3534-1.1/8I	202,36	-	-	-	-	-	-
UNF	1.1/4 - 12	32.50	34.50	144x39x20	3534-1.1/4I	242,78	-	-	-	-	-	-
UNF	1.3/8 - 12	35.50	37.67	149x39x22.4	3534-1.3/8I	303,50	-	-	-	-	-	-
UNF	1.1/2 - 12	38.50	40.85	149x39x22.4	3534-1.1/2I	393,36	-	-	-	-	-	-

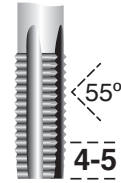
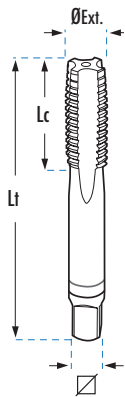
STI HAND TAP
BSW

BSW

TOL (3B)

HSS


STI-HS0529



			Ø Ext.	Lt x Lc x ∅		€	
BSW 1/8 - 40			3.40	3.93	53x13x3.15	3528-1/8I	13,28
BSW 3/16 - 24			5.00	6.00	66x19x5	3528-3/16I	13,28
BSW 1/4 - 20			6.70	7.84	72x22x6.3	3528-1/4I	13,28
BSW 5/16 - 18			8.30	9.59	80x24x8	3528-5/16I	14,63
BSW 3/8 - 16			10.00	11.38	85x25x6.3	3528-3/8I	15,23
BSW 7/16 - 14			11.60	13.23	95x30x9	3528-7/16I	20,29
BSW 1/2 - 12			13.00	15.17	102x32x10	3528-1/2I	23,53
BSW 9/16 - 12			14.75	16.76	102x32x10	3528-9/16I	38,18
BSW 5/8 - 11			16.50	18.57	112x37x11.2	3528-5/8I	47,13
BSW 11/16 - 11			17.50	19.60	112x37x11.2	3528-11/16I	57,27
BSW 3/4 - 10			20.00	22.01	118x38x12.5	3528-3/4I	57,27
BSW 7/8 - 9			23.25	25.52	130x45x14	3528-7/8I	66,45
BSW 1 - 8			26.50	29.10	138x48x16	3528-1I	66,45

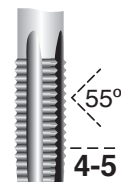
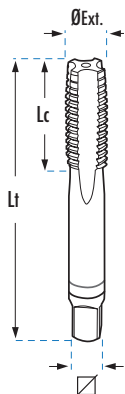
BSF

BSF

TOL (3B)

HSS

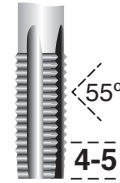
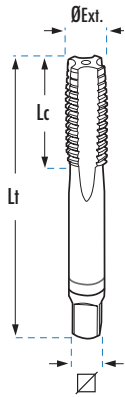

STI-HS0529



			Ø Ext.	Lt x Lc x ∅		€	
BSF 3/16 - 32			5.00	5.70	66x19x5	3530-3/16I	13,28
BSF 1/4 - 26			6.60	7.51	72x22x6.3	3530-1/4I	13,28
BSF 5/16 - 22			8.30	9.30	80x24x8	3530-5/16I	14,63
BSF 3/8 - 20			9.80	11.02	85x25x6.3	3530-3/8I	15,23
BSF 7/16 - 18			11.60	12.77	89x29x7.1	3530-7/16I	20,29
BSF 1/2 - 16			13.25	14.56	95x30x9	3530-1/2I	23,53
BSF 9/16 - 16			14.75	16.15	102x32x10	3530-9/16I	38,18
BSF 5/8 - 14			16.50	18.01	112x37x11.2	3530-5/8I	47,13
BSF 11/16 - 14			17.50	19.60	112x37x11.2	3530-11/16I	57,27
BSF 3/4 - 12			19.50	21.53	118x38x12.5	3530-3/4I	57,27
BSF 7/8 - 11			22.75	24.93	130x45x14	3530-7/8I	66,45
BSF 1 - 10			26.25	28.37	138x48x16	3530-1I	66,45

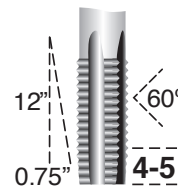
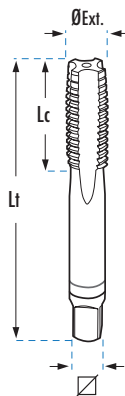
STI HAND TAP

BSP (GAS) **BSP** **TOL (3B)** **HSS** **STI-HS0529**



			Ø Ext.	Lt x Lc x ∅		€
BSP	1/8 - 28	10.00	10.81	85x25x6.3	3546-1/8I	20,13
BSP	1/4 - 19	13.75	14.73	95x30x9	3546-1/4I	22,85
BSP	3/8 - 19	17.00	18.24	112x37x11.2	3546-3/8I	30,06
BSP	1/2 - 14	21.50	23.09	118x38x12.5	3546-1/2I	48,71
BSP	5/8 - 14	23.50	25.05	130x45x14	3546-5/8I	71,58
BSP	3/4 - 14	27.00	28.58	127x37x16	3546-3/4I	71,58
BSP	1 - 11	33.75	35.96	162x57x20	3546-1I	111,84

NPT **NPT** **TOL (3B)** **HSS** **ANSI 949**

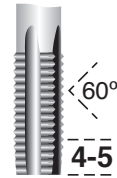
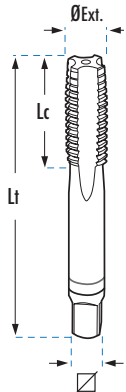





		Ø Ext.	Lt x Lc x ∅		€
NPT	1/8 - 27	10.43	54x19x8.3	3552-1/8I	97,64
NPT	1/4 - 18	13.95	62x27x10.7	3552-1/4I	109,84
NPT	3/8 - 18	17.37	65x27x13.5	3552-3/8I	146,45
NPT	1/2 - 14	21.65	80x35x13.1	3552-1/2I	176,98
NPT	3/4 - 14	26.96	83x35x17.2	3552-3/4I	231,89
NPT	1 - 11.1/2	33.75	95x44x22.7	3552-1I	317,30

STI HAND TAPS
UNx8

8-UN

TOL (3B)

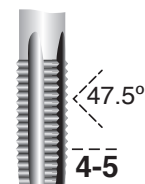
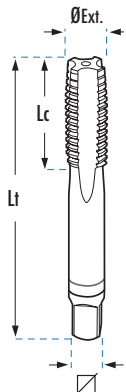
HSS





			Ø Ext.	Lt x Lc x \varnothing		€	
UN 1.1/8 - 8			28.50	1.26	5.9x2.0x0.7	3570-1.1/8I	347,93
UN 1.1/4 - 8			32.00	1.38	6.3x2.2x0.7	3570-1.1/4I	400,79
UN 1.3/8 - 8			35.00	1.51	6.6x2.3x0.8	3570-1.3/8I	454,85
UN 1.1/2 - 8			38.00	1.63	6.6x2.3x0.8	3570-1.1/2I	499,63
UN 1.5/8 - 8			41.00	1.76	7.3x2.6x0.9	3570-1.5/8I	584,46
UN 1.3/4 - 8			44.50	1.88	7.3x2.6x0.9	3570-1.3/4I	633,01
UN 1.7/8 - 8			47.50	2.01	7.8x2.7x1.1	3570-1.7/8I	735,90
UN 2 - 8			51.00	2.13	7.8x2.7x1.1	3570-2I	764,43

BA

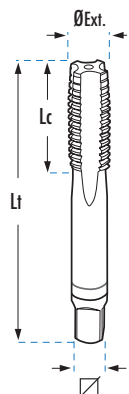
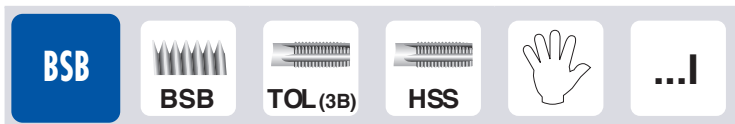
BA

TOL (3B)

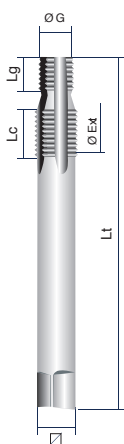
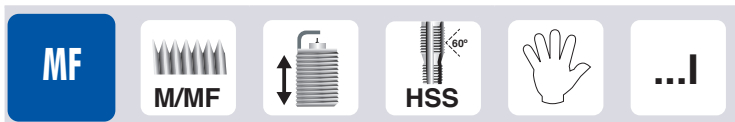
HSS


			Ø Ext.	Lt x Lc x \varnothing		€	
BA 0			6.20	7.12	66x19x5.6	3544-0I	13,51
BA 2			4.90	5.60	62x17x4.5	3544-2I	13,51
BA 4			3.80	4.34	53x13x3.5	3544-4I	13,51
BA 6			2.90	3.40	50x13x2.8	3544-6I	13,51

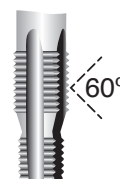
STI HAND TAPS

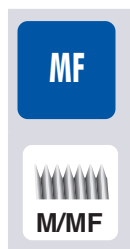


				Ø Ext.	Lt x Lc x ∅		€	
BSB	1/4	- 26		6.60	7.72	72x22x6.3	3560-1/4I	14,97
BSB	5/16	- 26		8.00	9.30	72x22x7.1	3560-5/16I	16,47
BSB	3/8	- 26		9.80	10.89	85x25x6.3	3560-3/8I	17,15
BSB	7/16	- 26		11.10	12.48	89x29x7.1	3560-7/16I	22,85
BSB	1/2	- 26		12.70	14.07	95x30x9	3560-1/2I	25,85



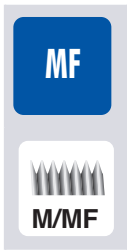
				Ø Ext.	Lg	Ø G	Lt x Lc x ∅		€	
M	6	x 1.00		6.30	7.29	7	6	70x28x6.3	3520-6.00PN	25,83
M	8	x 1.25		8.30	9.62	9	8	75x32x6.3	3520-8.00PN	25,83
M	10	x 1.00		10.30	11.29	8	10	74x30x6.3	3522-10.00PN	32,31
M	10	x 1.50		10.40	11.94	9	10	89x29x7.1	3520-10.00PN	32,31
M	12	x 1.25		12.30	13.62	9	12	75x32x7.1	3522-12.00PN	45,90
M	14	x 1.25		14.25	15.62	10	14	90x45x9.2	3522-14.00PN	53,41
M	18	x 1.50		18.50	19.94	10	18	116x47x12.5	3522-18.00PN	76,37



INSTALLATION TOOLS


	FREE		FREE LOCK		FREE LOCK		FREE LOCK	
		€		€		€		€
M 2 x 0.40	3500-HIT2	13,28	3520-2.00HIP	128,17	3520-2.00MIT	127,25	-	-
M 2.20 x 0.45	3500-HIT2	13,28	3520-2.20HIP	128,17	3520-2.20MIT	127,25	-	-
M 2.50 x 0.45	3500-HIT3	13,28	3520-2.50HIP	128,17	3520-2.50MIT	127,25	-	-
M 3 x 0.50	3500-HIT4	13,28	3520-3.00HIP	95,55	3520-3.00MIT	117,08	-	-
M 3.50 x 0.60	3500-HIT5	13,28	3520-3.50HIP	95,55	3520-3.50MIT	117,08	-	-
M 4 x 0.70	3500-HIT6	13,28	3520-4.00HIP	95,55	3520-4.00MIT	117,08	-	-
M 5 x 0.80	3500-HIT8	13,28	3520-5.00HIP	95,55	3520-5.00MIT	117,08	-	-
M 6 x 1.00	3500-HIT9	13,28	3520-6.00HIP	99,37	3520-6.00MIT	117,08	-	-
M 7 x 1.00	3500-HIT10	15,23	3520-7.00HIP	99,37	3520-7.00MIT	117,08	-	-
M 8 x 1.00	3500-HIT11	15,23	3521-8.00HIP	95,09	3521-8.00MIT	117,08	-	-
M 8 x 1.25	3500-HIT11	15,23	3520-8.00HIP	80,88	3520-8.00MIT	117,08	-	-
M 9 x 1.25	3500-HIT13	15,23	3520-9.00HIP	80,29	3520-9.00MIT	117,07	-	-
M 10 x 1.00	3500-HIT13	15,23	3523-10.00HIP	108,60	3523-10.00MIT	127,25	-	-
M 10 x 1.25	3500-HIT13	15,23	3521-10.00HIP	118,64	3521-10.00MIT	127,25	-	-
M 10 x 1.50	3500-HIT13	15,23	3520-10.00HIP	107,76	3520-10.00MIT	127,25	-	-
M 11 x 1.00	3500-HIT14	19,09	-	-	-	-	-	-
M 11 x 1.25	3500-HIT14	19,09	-	-	-	-	-	-
M 11 x 1.50	3500-HIT14	19,09	3520-11.00HIP	120,57	3520-11.00MIT	135,75	-	-
M 12 x 1.00	3500-HIT15	19,09	-	-	-	-	-	-
M 12 x 1.25	3500-HIT15	19,09	3523-12.00HIP	112,37	3523-12.00MIT	135,75	-	-
M 12 x 1.50	3500-HIT15	19,09	3521-12.00HIP	105,46	3521-12.00MIT	135,75	-	-
M 12 x 1.75	3500-HIT15	19,09	3520-12.00HIP	103,73	3520-12.00MIT	135,75	-	-
M 13 x 1.25	3500-HIT16	22,96	-	-	-	-	-	-
M 13 x 1.50	3500-HIT15	19,09	-	-	-	-	-	-
M 13 x 1.75	3500-HIT15	19,09	-	-	3520-13.00MIT	135,73	-	-
M 14 x 1.00	3500-HIT16	22,96	-	-	-	-	-	-
M 14 x 1.25	3500-HIT16	22,96	3523-14.00HIP	218,95	3523-14.00MIT	144,21	-	-
M 14 x 1.50	3500-HIT16	22,96	3521-14.00HIP	120,52	3521-14.00MIT	144,21	-	-
M 14 x 2.00	3500-HIT16	22,96	3520-14.00HIP	92,28	3520-14.00MIT	144,21	-	-
M 15 x 1.50	3500-HIT16	22,96	-	-	-	-	-	-
M 15 x 2.00	3500-HIT16	22,96	-	-	-	-	-	-
M 16 x 1.50	3500-HIT18	25,37	3521-16.00HIP	112,37	3521-16.00MIT	144,21	-	-
M 16 x 2.00	3500-HIT18	25,37	-	-	3520-16.00MIT	144,21	-	-
M 18 x 1.50	3500-HIT20	25,37	-	-	-	-	3523-18.00HIP	210,99
M 18 x 2.00	3500-HIT20	25,37	-	-	-	-	3521-18.00HIP	210,99
M 18 x 2.50	3500-HIT20	25,37	-	-	-	-	3520-18.00HIP	101,56

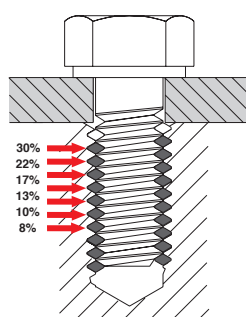
INSTALLATION TOOLS



		€		€		€
M 20 x 1.50	3500-HIT21	25,37	-	-	3523-20.00HIP	262,91
M 20 x 2.00	3500-HIT21	25,37	-	-	3521-20.00HIP	262,91
M 20 x 2.50	3500-HIT21	25,37	-	-	3520-20.00HIP	119,01
M 22 x 1.50	3500-HIT22	31,89	-	-	3523-22.00HIP	321,57
M 22 x 2.00	3500-HIT22	31,89	-	-	3521-22.00HIP	321,57
M 22 x 2.50	3500-HIT22	31,89	-	-	3520-22.00HIP	125,05
M 24 x 1.50	3500-HIT23	31,89	-	-	3523-24.00HIP	375,15
M 24 x 2.00	3500-HIT23	31,89	-	-	3521-24.00HIP	375,15
M 24 x 3.00	3500-HIT23	31,89	-	-	3520-24.00HIP	132,65
M 26 x 1.50	3500-HIT24	57,26	3523-26.00HIM	31,94	-	-
M 27 x 1.50	3500-HIT24	57,26	3523-27.00HIM	31,94	-	-
M 27 x 2.00	3500-HIT24	57,26	3521-27.00HIM	31,94	-	-
M 27 x 3.00	3500-HIT24	57,26	3520-27.00HIM	31,94	-	-
M 28 x 1.50	3500-HIT24	57,26	3523-28.00HIM	31,94	-	-
M 30 x 1.50	3500-HIT26	90,15	3523-30.00HIM	38,34	-	-
M 30 x 2.00	3500-HIT26	90,15	3521-30.00HIM	38,34	-	-
M 30 x 3.50	3500-HIT25	57,26	3520-30.00HIM	38,34	-	-
M 33 x 2.00	3500-HIT26	90,15	3521-33.00HIM	44,73	-	-
M 33 x 3.50	3500-HIT26	90,15	3520-33.00HIM	44,73	-	-
M 36 x 1.50	3500-HIT28	90,30	3524-36.00HIM	44,73	-	-
M 36 x 2.00	3500-HIT28	90,30	3523-36.00HIM	44,73	-	-
M 36 x 3.00	3500-HIT28	90,30	3521-36.00HIM	44,73	-	-
M 36 x 4.00	3500-HIT28	90,30	3520-36.00HIM	44,73	-	-
M 39x3,00	3500-HIT28	90,30	3521-39.00HIM	83,48	-	-
M 39x4,00	3500-HIT28	90,30	3520-39.00HIM	83,48	-	-
M 40 x 3,00	3500-HIT28	90,30	3523-40.00HIM	83,48	-	-
M 42 x 3,00	3500-HIT28	90,30	3523-42.00HIM	97,50	-	-
M 42 x 4,50	3500-HIT28	90,30	3520-42.00HIM	97,50	-	-
M 45 x 3,00	3500-HIT30	112,28	3523-45.00HIM	97,50	-	-
M 45 x 4,50	3500-HIT30	112,28	3520-45.00HIM	97,50	-	-
M 48 x 3,00	3500-HIT30	112,28	3523-48.00HIM	103,34	-	-
M 48 x 5,00	3500-HIT30	112,28	3520-48.00HIM	103,34	-	-
M 50 x 3,00	3500-HIT30	112,28	3523-50.00HIM	117,92	-	-
M 52 x 3,00	3500-HIT30	112,28	3523-52.00HIM	117,92	-	-
M 52 x 5,00	3500-HIT30	112,28	3520-52.00HIM	117,92	-	-

INSTALLATION TOOLS

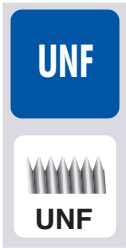

		€		€		€		€		€
UNC №2 - 56	3500-HIT2	13,28	3532-2GHIP	133,64	-	-	3532-2GMIT	127,25	-	-
UNC №3 - 48	3500-HIT3	13,28	-	-	-	-	3532-3GMIT	127,25	-	-
UNC №4 - 40	3500-HIT4	13,28	3532-4GHIP	133,64	-	-	3532-4GMIT	127,25	-	-
UNC №5 - 40	3500-HIT4	13,28	3532-5GHIP	133,64	-	-	3532-5GMIT	127,25	-	-
UNC №6 - 32	3500-HIT5	13,28	3532-6GHIP	130,00	-	-	3532-6GMIT	117,08	-	-
UNC №8 - 32	3500-HIT6	13,28	3532-8GHIP	130,00	-	-	3532-8GMIT	117,08	-	-
UNC №10 - 24	3500-HIT7	13,28	3532-10GHIP	130,00	-	-	3532-10GMIT	117,08	-	-
UNC №12 - 24	3500-HIT8	13,28	3532-12GHIP	130,00	-	-	3532-12GMIT	117,07	-	-
UNC 1/4 - 20	3500-HIT9	13,28	3532-1/4HIP	88,37	-	-	3532-1/4MIT	117,08	-	-
UNC 5/16 - 18	3500-HIT10	15,23	3532-5/16HIP	88,43	-	-	3532-5/16MIT	117,08	-	-
UNC 3/8 - 16	3500-HIT13	15,23	3532-3/8HIP	102,67	-	-	3532-3/8MIT	127,25	-	-
UNC 7/16 - 14	3500-HIT14	19,09	3532-7/16HIP	102,67	-	-	3532-7/16MIT	127,25	-	-
UNC 1/2 - 13	3500-HIT15	19,09	3532-1/2HIP	118,70	-	-	3532-1/2MIT	135,75	-	-
UNC 9/16 - 12	3500-HIT16	22,96	-	-	-	-	-	-	3532-9/16HIP	107,30
UNC 5/8 - 11	3500-HIT18	25,37	-	-	-	-	-	-	3532-5/8HIP	112,74
UNC 3/4 - 10	3500-HIT20	25,37	-	-	-	-	-	-	3532-3/4HIP	126,80
UNC 7/8 - 9	3500-HIT22	31,89	-	-	-	-	-	-	3532-7/8HIP	136,55
UNC 1 - 8	3500-HIT23	31,89	-	-	-	-	-	-	3532-1HIP	156,06
UNC 1.1/8 - 7	3500-HIT24	57,26	-	-	3532-1.1/8HIM	38,34	-	-	3532-1.1/8HIP	178,19
UNC 1.1/4 - 7	3500-HIT25	57,26	-	-	3532-1.1/4HIM	38,34	-	-	3532-1.1/4HIP	186,67
UNC 1.3/8 - 6	3500-HIT26	90,15	-	-	3532-1.3/8HIM	44,73	-	-	3532-1.3/8HIP	189,98
UNC 1.1/2 - 6	3500-HIT27	90,30	-	-	3532-1.1/2HIM	44,73	-	-	3532-1.1/2HIP	192,62


TECHNICAL RECOMMENDATION:

Install the insert pitch and half deep at the workpiece.

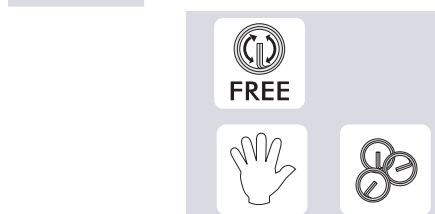



INSTALLATION TOOLS

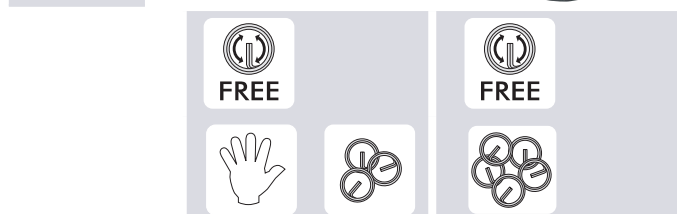



		€		€		€		€		€
UNF №3 - 56	3500-HIT3	13,28	3534-3GHIP	118,98	-	-	-	-	-	-
UNF №4 - 48	3500-HIT4	13,28	3534-4GHIP	121,40	-	-	3534-4GMIT	127,25	-	-
UNF №6 - 40	3500-HIT5	13,28	3534-6GHIP	106,37	-	-	3534-6GMIT	117,08	-	-
UNF №8 - 36	3500-HIT6	13,28	3534-8GHIP	106,37	-	-	3534-8GMIT	117,08	-	-
UNF №10 - 32	3500-HIT8	13,28	3534-10GHIP	106,37	-	-	3534-10GMIT	117,08	-	-
UNF №12 - 28	3500-HIT8	13,28	3534-12GHIP	106,37	-	-	3534-12GMIT	117,07	-	-
UNF 1/4 - 28	3500-HIT9	13,28	3534-1/4HIP	72,30	-	-	3534-1/4MIT	117,08	-	-
UNF 5/16 - 24	3500-HIT11	15,23	3534-5/16HIP	72,36	-	-	3534-5/16MIT	117,08	-	-
UNF 3/8 - 24	3500-HIT13	15,23	3534-3/8HIP	84,01	-	-	3534-3/8MIT	127,25	-	-
UNF 7/16 - 20	3500-HIT14	19,09	3534-7/16HIP	84,01	-	-	3534-7/16MIT	127,25	-	-
UNF 1/2 - 20	3500-HIT15	19,09	3534-1/2HIP	97,14	-	-	3534-1/2MIT	135,75	-	-
UNF 9/16 - 18	3500-HIT16	22,96	-	-	-	-	-	-	3534-9/16HIP	87,79
UNF 5/8 - 8	3500-HIT18	25,37	-	-	-	-	-	-	3534-5/8HIP	92,23
UNF 3/4 - 16	3500-HIT21	25,37	-	-	-	-	-	-	3534-3/4HIP	103,76
UNF 7/8 - 14	3500-HIT22	31,89	-	-	-	-	-	-	3534-7/8HIP	111,74
UNF 1-12	3500-HIT23	31,89	-	-	-	-	-	-	3534-1HIP	127,68
UNS 1-14	3500-HIT23	31,89	-	-	-	-	-	-	3535-1HIP	127,68
UNF 1.1/8 - 12	3500-HIT25	57,26	-	-	3534-1.1/8HIM	38,34	-	-	3534-1.1/8HIP	478,82
UNF 1.1/4 - 12	3500-HIT26	90,15	-	-	3534-1.1/4HIM	38,34	-	-	3534-1.1/4HIP	558,62
UNF 1.3/8 - 12	3500-HIT27	90,30	-	-	3534-1.3/8HIM	44,73	-	-	3534-1.3/8HIP	638,43
UNF 1.1/2 - 12	3500-HIT28	90,30	-	-	3534-1.1/2HIM	44,73	-	-	3534-1.1/2HIP	718,22




INSTALLATION TOOLS


		€
BSW 1/8 - 40	3500-HIT4	13,28
BSW 3/16 - 24	3500-HIT7	13,28
BSW 1/4 - 20	3500-HIT9	13,28
BSW 5/16 - 18	3500-HIT10	15,23
BSW 3/8 - 16	3500-HIT11	15,23
BSW 7/16 - 14	3500-HIT14	19,09
BSW 1/2 - 12	3500-HIT15	19,09
BSW 9/16 - 12	3500-HIT16	22,96
BSW 5/8 - 11	3500-HIT18	25,37
BSW 3/4 - 10	3500-HIT20	25,37
BSW 7/8 - 9	3500-HIT22	31,89
BSW 1 - 8	3500-HIT23	31,89




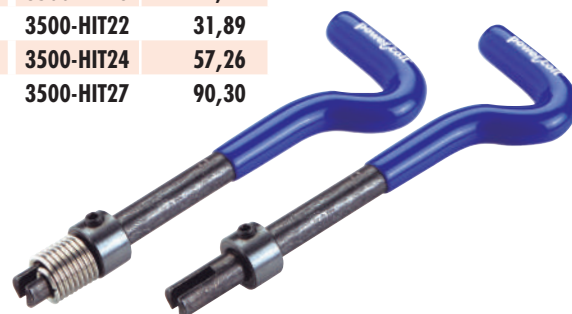
		€		€
BSP 1/8 - 28	3500-HIT14	19,09	3546-1/8HIM	19,17
BSP 1/4 - 19	3500-HIT16	22,96	3546-1/4HIM	19,17
BSP 3/8 - 19	3500-HIT20	25,37	3546-3/8HIM	22,37
BSP 1/2 - 14	3500-HIT23	31,89	3546-1/2HIM	25,58
BSP 5/8 - 14	3500-HIT23	31,89	3546-5/8HIM	31,94
BSP 3/4 - 14	3500-HIT24	57,26	3546-3/4HIM	31,94
BSP 7/8 - 14	3500-HIT27	90,30	3546-7/8HIM	44,73
BSP 1 - 11	3500-HIT27	90,30	3546-1HIM	44,73



		€
BSF 3/16 - 32	3500-HIT8	13,28
BSF 1/4 - 26	3500-HIT9	13,28
BSF 5/16 - 22	3500-HIT11	15,23
BSF 3/8 - 20	3500-HIT13	15,23
BSF 7/16 - 18	3500-HIT14	19,09
BSF 1/2 - 16	3500-HIT15	19,09
BSF 9/16 - 16	3500-HIT16	22,96
BSF 5/8 - 14	3500-HIT18	25,37
BSF 3/4 - 12	3500-HIT20	25,37
BSF 7/8 - 11	3500-HIT22	31,89
BSF 1 - 10	3500-HIT23	31,89




		€
NPT 1/8 - 27	3500-HIT13	15,23
NPT 1/4 - 18	3500-HIT16	22,96
NPT 3/8 - 18	3500-HIT18	25,37
NPT 1/2 - 14	3500-HIT22	31,89
NPT 3/4 - 14	3500-HIT24	57,26
NPT 1 - 11.1/2	3500-HIT27	90,30





INSTALLATION TOOLS



UNx8





8-UN

FREE





FREE





D		€		€
UN 1.1/8 - 8	3500-HIT24	57,26	3570-1.1/8HIM	74,59
UN 1.1/4 - 8	3500-HIT25	57,26	3570-1.1/4HIM	74,59
UN 1.3/8 - 8	3500-HIT26	90,15	3570-1.3/8HIM	86,56
UN 1.1/2 - 8	3500-HIT27	90,30	3570-1.1/2HIM	86,56
UN 1.5/8 - 8	3500-HIT27	90,30	3570-1.5/8HIM	89,53
UN 1.3/4 - 8	3500-HIT28	90,30	3570-1.3/4HIM	95,50
UN 1.7/8 - 8	3500-HIT30	112,28	3570-1.7/8HIM	110,42
UN 2 - 8	3500-HIT30	112,28	3570-2HIM	110,42



BSB




BSB



FREE

FREE



D		€
BSB 1/4 - 26	3500-HIT9	13,28
BSB 5/16 - 26	3500-HIT11	15,23
BSB 3/8 - 26	3500-HIT13	15,23
BSB 7/16 - 26	3500-HIT14	19,09
BSB 1/2 - 26	3500-HIT15	19,09

BA



BA



FREE




D		€
BA 0	3500-HIT9	13,28
BA 2	3500-HIT7	13,28
BA 4	3500-HIT5	13,28
BA 6	3500-HIT3	13,28

MF





FREE




D		€
10x1.00	3500-HIT13	15,23
12x1.25	3500-HIT15	19,09
14x1.25	3500-HIT17	22,96
18x1.50	3500-HIT20	25,37



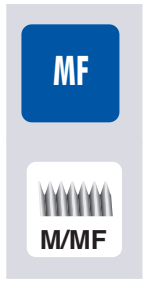
M14x1,25


M12x1,25

INSTALLATION TOOL AND EXTRACTOR

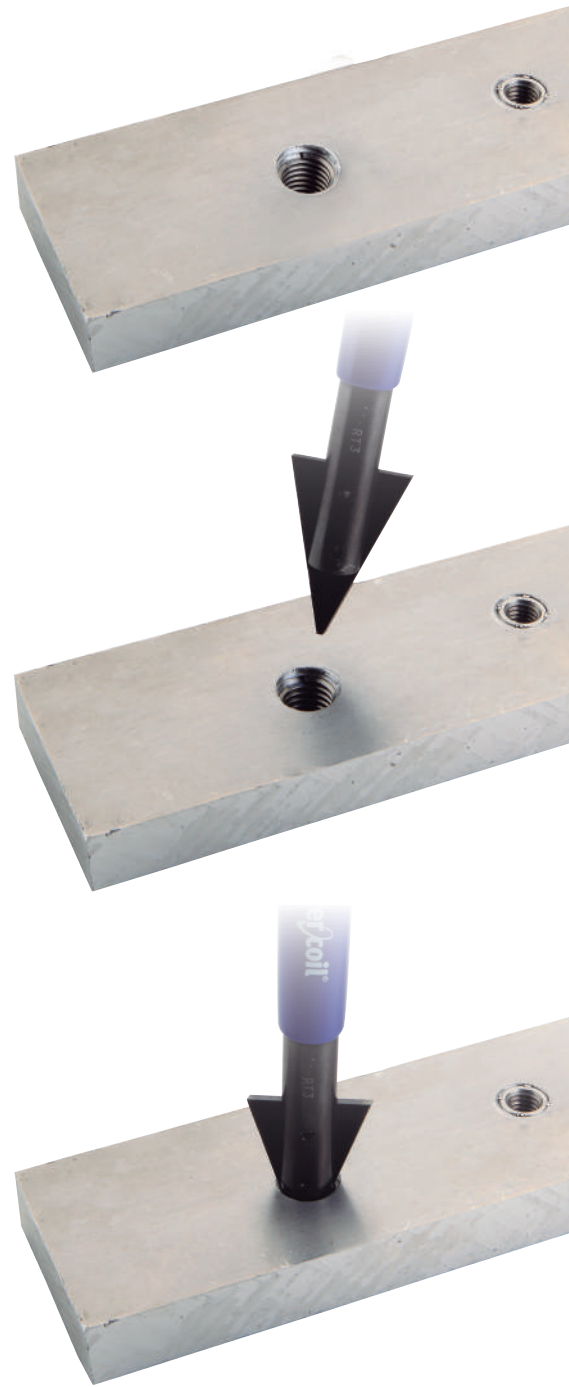


HIT

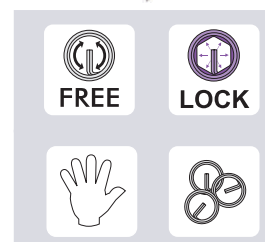
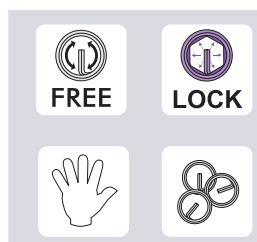



			€
M 15 x 1.50	3500-HIT16		22,96
M 15 x 2.00	3500-HIT16		22,96
M 16 x 1.50	3500-HIT18		25,37
M 16 x 2.00	3500-HIT18		25,37
M 18 x 1.50	3500-HIT20		25,37
M 18 x 2.00	3500-HIT20		25,37
M 18 x 2.50	3500-HIT20		25,37
M 20 x 1.50	3500-HIT21		25,37
M 20 x 2.00	3500-HIT21		25,37
M 20 x 2.50	3500-HIT21		25,37
M 22 x 1.50	3500-HIT22		31,89
M 22 x 2.00	3500-HIT22		31,89
M 22 x 2.50	3500-HIT22		31,89
M 24 x 1.50	3500-HIT23		31,89
M 24 x 2.00	3500-HIT23		31,89
M 24 x 3.00	3500-HIT23		31,89
M 26 x 1.50	-	-	-
M 27 x 1.50	-	-	-
M 27 x 2.00	-	-	-
M 27 x 3.00	-	-	-
M 28 x 1.50	-	-	-
M 30 x 1.50	-	-	-
M 30 x 2.00	-	-	-
M 30 x 3.50	-	-	-
M 33 x 2.00	-	-	-
M 33 x 3.50	-	-	-
M 36 x 1.50	-	-	-
M 36 x 2.00	-	-	-
M 36 x 3.00	-	-	-
M 36 x 4.00	-	-	-

		€
3500-RT3		34,45
3500-RT3		34,45
3500-RT3		34,45
3500-RT3		34,45
3500-RT3		34,45
3500-RT3		34,45
3500-RT3		34,45
3500-RT3		34,45
3500-RT3		34,45
3500-RT3		34,45
3500-RT3		34,45
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3500-RT3		34,45
3500-RT3		34,45
3500-RT3		34,45
3500-RT3		34,45
3500-RT3		34,45
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3500-RT4		63,05



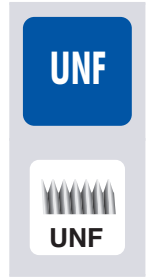
INSTALLATION TOOL, TANG BREAKER, EXTRACTOR




		€
UNC N°2 - 56	3500-TB2	5,70
UNC N°3 - 48	3500-TB3	5,70
UNC N°4 - 40	3500-TB4	5,70
UNC N°5 - 40	3500-TB4	5,70
UNC N°6 - 32	3500-TB5	5,70
UNC N°8 - 32	3500-TB6	5,70
UNC N°10 - 24	3500-TB8	5,70
UNC N°12 - 24	3500-TB8	5,70
UNC 1/4 - 20	3500-TB9	5,70
UNC 5/16 - 18	3500-TB12	6,31
UNC 3/8 - 16	3500-TB12	6,31
UNC 7/16 - 14	3500-TB14	7,64
UNC 1/2 - 13	3500-TB15	7,64
UNC 9/16 - 12	3500-HIT16	22,96
UNC 5/8 - 11	3500-HIT18	25,37
UNC 3/4 - 10	3500-HIT20	25,37
UNC 7/8 - 9	3500-HIT22	31,89
UNC 1 - 8	3500-HIT23	31,89
UNC 1.1/8 - 7	-	-
UNC 1.1/4 - 7	-	-
UNC 1.3/8 - 6	-	-
UNC 1.1/2 - 6	-	-

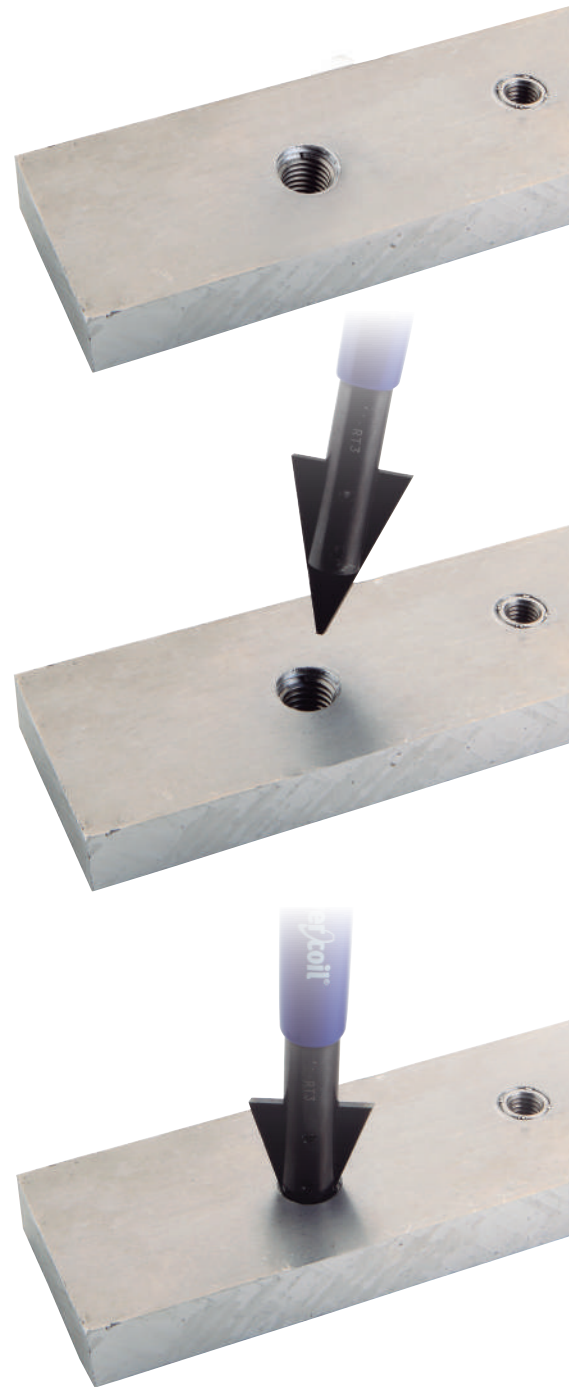
	€
3500-RT1	26,07
3500-RT1	26,07
3500-RT1	26,07
3500-RT1	26,07
3500-RT1	26,07
3500-RT1	26,07
3500-RT2	28,15
3500-RT2	28,15
3500-RT2	28,15
3500-RT3	34,45
3500-RT3	34,45
3500-RT3	34,45
3500-RT3	34,45
3500-RT3	34,45
3500-RT3	34,45
3500-RT3	34,45
3500-RT4	63,05
3500-RT4	63,05
3500-RT4	63,05
3500-RT4	63,05

INSTALLATION TOOL, TANG BREAKER, EXTRACTOR



		€
UNF N°3 - 56	3500-TB3	5,70
UNF N°4 - 48	3500-TB4	5,70
UNF N°6 - 40	3500-TB5	5,70
UNF N°8 - 36	3500-TB6	5,70
UNF N°10 - 32	3500-TB8	5,70
UNF N°12 - 28	3500-TB8	5,70
UNF 1/4 - 28	3500-TB9	5,70
UNF 5/16 - 24	3500-TB12	6,31
UNF 3/8 - 24	3500-TB13	6,31
UNF 7/16 - 20	3500-TB14	7,64
UNF 1/2 - 20	3500-TB15	7,64
UNF 9/16 - 18	3500-HIT16	22,96
UNF 5/8 - 18	3500-HIT18	25,37
UNF 3/4 - 16	3500-HIT21	25,37
UNF 7/8 - 14	3500-HIT22	31,89
UNF 1 - 12	3500-HIT23	31,89
UNF 1 - 14	3500-HIT23	31,89
UNF 1.1/8 - 12	-	-
UNF 1.1/4 - 12	-	-
UNF 1.3/8 - 12	-	-
UNF 1.1/2 - 12	-	-

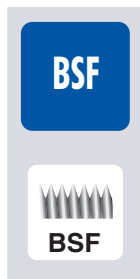
	€
3500-RT1	26,07
3500-RT1	26,07
3500-RT1	26,07
3500-RT1	26,07
3500-RT2	28,15
3500-RT2	28,15
3500-RT2	28,15
3500-RT2	28,15
3500-RT3	34,45
3500-RT3	34,45
3500-RT3	34,45
3500-RT3	34,45
3500-RT3	34,45
3500-RT3	34,45
3500-RT3	34,45
3500-RT3	34,45
3500-RT3	34,45
3500-RT4	63,05
3500-RT4	63,05
3500-RT4	63,05
3500-RT4	63,05



INSTALLATION TOOL, TANG BREAKER, EXTRACTOR

powercoil
by CELESA

Pink



FREE	LOCK

FREE	LOCK

FREE	LOCK

FREE	LOCK

	€
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€

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€

BSW 1/8 - 40	3500-TB4	5,70
BSW 3/16 - 24	3500-TB8	5,70
BSW 1/4 - 20	3500-TB9	5,70
BSW 5/16 - 18	3500-TB11	6,31
BSW 3/8 - 16	3500-TB12	6,31
BSW 7/16 - 14	3500-TB14	7,64
BSW 1/2 - 12	3500-TB15	7,64
BSW 9/16 - 12	3500-HIT16	22,96
BSW 5/8 - 11	3500-HIT18	25,37
BSW 3/4 - 10	3500-HIT20	25,37
BSW 7/8 - 9	3500-HIT22	31,89
BSW 1 - 8	3500-HIT23	31,89

3500-RT1	26,07
3500-RT2	28,15
3500-RT2	28,15
3500-RT2	28,15
3500-RT2	28,15
3500-RT3	34,45
3500-RT3	34,45
3500-RT3	34,45
3500-RT3	34,45
3500-RT3	34,45
3500-RT3	34,45
3500-RT3	34,45

BSF 3/16 - 32	3500-TB6	5,70
BSF 1/4 - 26	3500-TB9	5,70
BSF 5/16 - 22	3500-TB11	6,31
BSF 3/8 - 20	3500-TB12	6,31
BSF 7/16 - 18	3500-TB14	7,64
BSF 1/2 - 16	3500-TB15	7,64
BSF 9/16 - 16	3500-HIT16	22,96
BSF 5/8 - 14	3500-HIT18	25,37
BSF 3/4 - 12	3500-HIT20	25,37
BSF 7/8 - 11	3500-HIT22	31,89
BSF 1 - 10	3500-HIT23	31,89

3500-RT2	28,15
3500-RT2	28,15
3500-RT2	28,15
3500-RT3	34,45
3500-RT3	34,45
3500-RT3	34,45
3500-RT3	34,45
3500-RT3	34,45
3500-RT3	34,45
3500-RT3	34,45
3500-RT3	34,45



FREE	LOCK

FREE	LOCK

FREE	LOCK

FREE	LOCK

	€
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€

	€
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€

BA 0	3500-TB11	6,31
BA 2	3500-TB8	5,70
BA 4	3500-TB5	5,70
BA 6	3500-TB3	5,70

3500-RT2	28,15
3500-RT2	28,15
3500-RT1	26,07
3500-RT1	26,07

BSB 1/4 - 26	3500-TB9	5,70
BSB 5/16 - 26	3500-TB12	6,31
BSB 3/8 - 26	3500-TB13	6,31
BSB 7/16 - 26	3500-TB14	7,64
BSB 1/2 - 26	3500-TB15	7,64

3500-RT2	28,15
3500-RT2	28,15
3500-RT3	34,45
3500-RT3	34,45
3500-RT3	34,45

SOLID CARBIDE DRILLS FOR HARDENED AND HIGH RESISTANCE STEEL

Ref. BC85

**70
HRC**

**SOLID
CARBIDE**

**TOL D1
h7**

**TOL D2
h6**

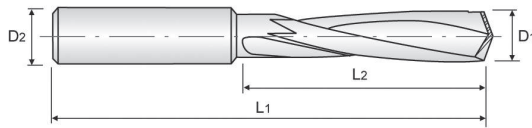



TiAIN

**HARDOX
600**



Recommended for HARDOX 600



BC85						
	D1 mm	D2 mm	L1 mm	L2 mm		
BC850300	3,0	3	46	16		49,79
BC850330	3,3	4	48	18	M4	57,14
BC850340	3,4	4	50	20		57,14
BC850350	3,5	4	50	20		57,14
BC850400	4,0	4	52	22		58,30
BC850420	4,2	6	65	25	M5	82,78
BC850430	4,3	6	68	28		82,78
BC850440	4,4	6	68	28		82,78
BC850450	4,5	6	68	28		82,78
BC850500	5,0	6	72	32	M6	82,78
BC850510	5,1	6	72	32		82,78
BC850520	5,2	6	72	32		82,78
BC850550	5,5	6	75	35		82,78
BC850600	6,0	6	75	35		82,78
BC850650	6,5	8	80	40		102,69
BC850680	6,8	8	85	45	M8	102,69
BC850690	6,9	8	85	45		102,69
BC850700	7,0	8	85	45		102,69
BC850750	7,5	8	85	45		102,69
BC850800	8,0	8	98	50		102,69
BC850850	8,5	10	98	50	M10	156,94
BC850860	8,6	10	105	57		156,94
BC850880	8,8	10	105	57		156,94
BC850900	9,0	10	105	57		156,94
BC850950	9,5	10	105	57		156,94
BC851000	10,0	10	111	63		156,94
BC851020	10,2	12	111	63	M12	203,26
BC851030	10,3	12	111	63		238,49
BC851050	10,5	12	111	63		238,49
BC851080	10,8	12	119	71		238,49
BC851100	11,0	12	119	71		238,49
BC851150	11,5	12	119	71		238,49
BC851200	12,0	12	119	71	M14	238,49
BC851400	14,0	14	125	77	M16	271,01

DRILLING THROUGH BROKEN SCREWS

Broken screw

1st. Step
Clean up the surface

2nd. Step
Drilling with BC85 drill

3rd. Step
Remove the chip

4th. Step (Optional)
Repair the thread
with inserts

powercoil
by CELESA

HRC	50-55		55-60		60-70	
	VC		VC		VC	
	14-22 m/min		10-16 m/min		8-13 m/min	
Ø	(R.P.M.)	(mm/min)	(R.P.M.)	(mm/min)	(R.P.M.)	(mm/min)
3	1900	0.04	1330	0.04	1000	0.04
4	1430	0.04	1000	0.04	750	0.04
5	1150	0.04	800	0.04	600	0.04
6	960	0.04	670	0.04	500	0.04
8	720	0.04	500	0.04	370	0.04
10	570	0.04	400	0.04	300	0.04
12	480	0.04	330	0.04	250	0.04
14	438	0.04	282	0.04	210	0.04

VC: Cutting Speed

FULLY GROUND TWIST DRILLS
HSSCo
5%
DIN
338

135°

30°
"N"
GOLD

120
Kg/mm²


	Ø mm.	Ø "	L1 x L2 mm	€
3520-0210	2.10	-	49x24	2,80
3520-0230	2.30	3/32	53x27	2,80
3520-0240	2.40	-	57x30	2,80
3520-0260	2.60	-	57x30	2,69
3520-0270	2.70	-	61x33	2,69
3520-0290	2.90	-	61x33	2,69
3520-0300	3.00	-	61x33	2,14
3520-0320	3.20	1/8	65x36	2,58
3520-0340	3.40	-	70x39	2,69
3520-0370	3.70	-	70x39	3,24
3520-0380	3.80	-	75x43	3,24
3520-0420	4.20	-	75x43	3,06
3520-0430	4.30	-	80x47	3,24
3520-0440	4.40	11/64	80x47	3,24
3520-0480	4.80	-	86x52	3,60
3520-0490	4.90	-	86x52	3,60
3520-0500	5.00	-	86x52	3,28
3520-0510	5.10	-	86x52	3,94
3520-0520	5.20	13/64	86x52	3,94
3520-0550	5.50	7/32	93x57	4,16
3520-0570	5.70	15/64	93x57	4,92
3520-0620	6.20	-	101x63	5,48
3520-0630	6.30	1/4	101x63	5,48
3520-0660	6.60	-	101x63	6,58
3520-0670	6.70	17/64	101x63	6,58
3520-0690	6.90	-	109x69	6,58
3520-0730	7.30	9/32	109x69	8,38
3520-0760	7.60	-	117x75	10,08
3520-0800	8.00	5/16	117x75	7,25
3520-0820	8.20	-	117x75	9,67
3520-0830	8.30	21/64	117x75	9,67

	Ø mm.	Ø "	L1 x L2 mm	€
3520-0840	8.40	-	117x75	9,67
3520-0880	8.80	-	125x81	12,29
3520-0930	9.30	23/64	125x81	13,61
3520-0940	9.40	3/8	125x81	13,57
3520-0980	9.80	-	133x87	15,95
3520-0990	9.90	25/64	133x87	15,95
3520-1000	10.00	-	133x87	10,96
3520-1010	10.10	-	133x87	18,34
3520-1030	10.30	13/32	133x87	18,38
3520-1040	10.40	-	133x87	18,34
3520-1080	10.80	-	142x94	21,33
3520-1110	11.10	7/16	142x94	24,33
3520-1130	11.30	-	142x94	24,33
3520-1140	11.40	-	142x94	24,33
3520-1150	11.50	29/64	142x94	20,48
3520-1160	11.60	-	142x94	25,14
3520-1230	12.30	-	151x101	29,18
3520-1240	12.40	31/64	151x101	29,18
3520-1250	12.50	-	151x101	26,65
3520-1270	12.70	1/2	151x101	30,37
3520-1280	12.80	-	151x101	30,37
3520-1300	13.00	33/64	151x101	27,24
3520-1325	13.25	-	160x108	37,71
3520-1350	13.50	-	160x108	30,03
3520-1375	13.75	-	160x108	37,71
3520-1425	14.25	9/16	169x114	49,55
3520-1450	14.50	-	169x114	42,12
3520-1475	14.75	-	169x114	49,55
3520-1500	15.00	19/32	169x114	42,75
3520-1525	15.25	-	178x120	68,36

FULLY GROUND REDUCED SHANK TWIST DRILLS

MORSE TAPER SHANK DRILLS

HSSCo
5%

DIN
338



GOLD



	Ø mm.	Ø "	L1 x L2 mm	€
3520-1550	15.50	39/64	178x120	63,88
3520-1650	16.50	-	184x125	75,04
3520-1675	16.75	-	184x125	100,58
3520-1700	17.00	-	184x125	75,53
3520-1750	17.50	-	191x130	83,13
3520-1850	18.50	23/32	198x135	101,65
3520-1875	18.75	-	198x135	127,45
3520-1900	19.00	3/4	198x135	100,77
3520-1950	19.50	49/64	205x140	111,65
3520-2000	20.00	-	205x240	119,63
3520-2050	20.50	13/16	205x140	142,41

HSS

DIN
345



OX

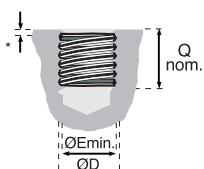
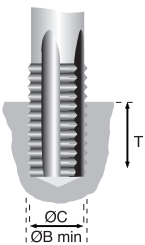
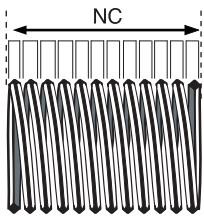
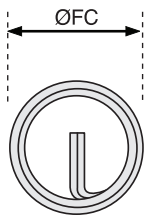


	Ø mm.	Ø "	L1 x L2 mm	€
3520-2075	20.75	-	243x145	77,14
3520-2100	21.00	-	243x145	73,72
3520-2150	21.50	27/32	248x150	73,72
3520-2250	22.50	57/64	253x155	80,82
3520-2275	22.75	-	253x155	93,17
3520-2300	23.00	29/32	253x155	80,64
3520-2325	23.25	-	276x155	102,72
3520-2350	23.50	-	276x155	89,49
3520-2450	24.50	31/32	281x160	97,46
3520-2500	25.00	-	281x160	97,06
3520-2575	25.75	1.1/64	286x165	121,91
3520-2600	26.00	-	286x165	105,62
3520-2625	26.25	-	286x165	132,02
3520-2650	26.50	-	286x165	114,33
3520-2700	27.00	1.1/16	291x170	114,44
3520-2750	27.50	1.5/64	291x170	122,42
3520-2800	28.00	1.3/32	291x170	122,79
3520-2850	28.50	1.1/8	296x175	131,24
3520-2950	29.50	1.5/32	296x175	144,50
3520-3000	30.00	1.11/64	296x175	144,62
3520-3050	30.50	1.3/16	301x180	161,34
3520-3100	31.00	1.7/32	301x180	161,48
3520-3200	32.00	1.1/4	334x185	170,12
3520-3250	32.50	1.9/32	334x185	195,41
3520-3300	33.00	1.19/64	334x185	194,23
3520-3325	33.25	-	334x185	239,58
3520-3350	33.50	1.5/16	334x185	211,90
3520-3375	33.75	-	339x190	240,86
3520-3400	34.00	1.21/64	339x190	211,24
3520-3500	35.00	1.3/8	339x190	231,86
3520-3550	35.50	1.13/32	339x190	247,52
3520-3600	36.00	-	344x195	248,14
3520-3650	36.50	-	344x195	262,44
3520-3700	37.00	1.29/64	344x195	262,07
3520-3800	38.00	1.1/2	349x200	275,26
3520-3850	38.50	-	349x200	292,90
3520-3900	39.00	1.17/32	349x200	293,16
3520-3950	39.50	1.35/64	349x200	310,46
3520-3975	39.75	-	349x200	344,90
3520-4000	40.00	1.9/16	349x200	310,07
3520-4100	41.00	1.5/8	354x205	325,43
3520-4250	42.50	1.43/64	354x205	362,76
3520-4300	43.00	1.11/16	359x210	362,80
3520-4450	44.50	1.3/8	359x210	397,50
3520-4600	46.00	-	364x215	411,61
3520-4750	47.50	1.7/8	364x215	444,64
3520-4850	48.50	1.29/32	369x220	462,28
3520-5100	51.00	2	412x225	562,76




TECHNICAL INFORMATION FOR FREE RUNNING INSERTS

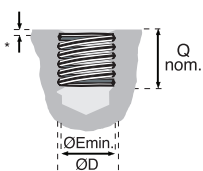
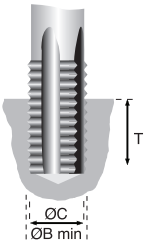
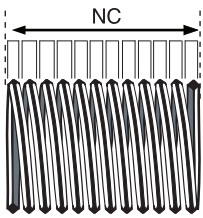
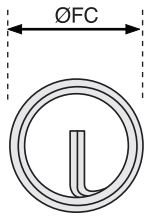
M/MF	
A	Minor Diameter
B	Major Diameter
C	Pitch Diameter of Tapped Hole (Class 5H)
D	Pitch Diameter of Installed Insert (Class 4H)
E	Installed Insert Internal Diameter - min.
FC	Free Coil Diameter of Uninstalled Insert
S	Drilling Length - minimum
T	Tapping Length - minimum
Q	Nominal Length
NC	Number of Coils in Uninstalled Insert counted 90° from tang.



SIZE M/MF	Drill		A max/min mm	FC min/max mm	NC max/min				
	mm	"			1.0D	1.5D	2.0D	2.5D	3.0D
M2 X 0.40	2.10	#45	2.177/2.087	2.49/2.70	3.30/3.00	5.70/5.20	8.10/7.40	10.50/9.60	13.00/11.80
M2.2 X 0.45	2.30	3/32	2.397/2.297	2.76/3.00	3.20/2.90	5.50/5.00	7.90/7.10	10.30/9.30	12.60/11.40
M2.5 X 0.45	2.60	#37	2.697/2.597	3.05/3.70	3.80/3.10	6.50/5.20	9.20/7.40	11.90/9.50	14.60/11.70
M3 X 0.50	3.20	1/8	3.220/3.108	3.61/4.35	4.30/3.40	7.20/5.80	10.10/8.20	13.10/10.50	16.00/12.90
M3.5 X 0.60	3.70	#27	3.755/3.630	4.24/4.95	4.10/3.40	7.00/5.80	9.80/8.20	12.60/10.50	15.50/12.90
M4 x 0.70	4.20	-	4.292/4.152	4.86/5.60	4.00/3.40	6.80/5.70	9.60/8.10	12.30/10.50	15.10/12.80
M5 X 0.80	5.20	13/64	5.333/5.173	5.98/6.80	4.50/3.90	7.60/6.50	10.60/9.20	13.70/11.80	16.70/14.40
M6 X 1.00	6.30	1/4	6.406/6.216	7.23/7.95	4.30/3.80	7.20/6.40	10.10/9.10	13.10/11.70	16.00/14.30
M7 X 1.00	7.30	9/32	7.406/7.216	8.22/9.20	5.30/4.60	8.70/7.70	12.10/10.70	15.60/13.70	19.00/16.70
M8 X 1.25	8.30	21/64	8.483/8.271	9.53/10.35	4.70/4.20	7.80/7.10	10.90/9.90	14.10/12.80	17.20/15.60
M8 X 1.00	8.30	21/64	8.406/8.216	9.39/10.25	6.10/5.60	10.00/9.10	13.80/12.50	17.70/16.00	21.50/19.50
M9 X 1.25	9.40	3/8	9.483/9.271	10.52/11.16	5.50/5.10	9.00/8.40	12.50/11.70	16.10/15.00	19.60/18.30
M9 x 1.00	9.30	23/64	9.406/9.216	10.40/11.23	7.10/6.50	11.50/10.50	15.80/14.50	20.20/18.50	24.50/22.50
M10 X 1.50	10.40	-	10.561/10.325	11.83/12.50	4.90/4.60	8.20/7.70	11.50/10.80	14.70/13.80	18.00/16.90
M10 X 1.25	10.30	13/32	10.483/10.271	11.74/12.65	6.10/5.60	10.00/9.20	13.80/12.70	17.70/16.30	21.50/19.80
M10 x 1.00	10.30	13/32	10.406/10.216	11.41/12.50	8.10/7.30	12.90/11.70	17.80/16.10	22.60/20.50	27.50/24.90
M11 X 1.50	11.40	-	11.561/11.325	12.82/13.59	5.60/5.20	9.20/8.60	12.80/12.00	16.40/15.40	20.00/18.70
M11 X 1.25	11.30	-	11.483/11.271	12.75/13.76	6.90/6.40	11.20/10.30	15.40/14.20	19.70/18.10	23.90/22.00
M11 X 1.00	11.30	-	11.406/11.216	12.42/13.41	9.10/8.40	14.40/13.30	19.80/18.20	25.10/23.10	30.40/28.00
M12 X 1.75	12.50	-	12.644/12.379	14.13/15.00	5.10/4.80	8.50/7.90	11.90/11.10	15.20/14.20	18.60/17.30
M12 X 1.50	12.40	31/64	12.561/12.325	14.09/15.20	6.10/5.60	10.00/9.20	13.80/12.70	17.70/16.20	21.50/19.80
M12 X 1.25	12.30	-	12.483/12.271	13.76/15.00	7.70/7.00	12.40/11.20	17.00/15.50	21.60/19.70	26.30/23.90
M12 X 1.00	12.30	-	12.406/12.216	13.43/14.49	10.10/9.30	15.90/14.70	21.70/20.00	27.60/25.40	33.40/30.80
M13 X 1.75	13.50	-	13.644/13.379	15.12/16.04	5.70/5.30	9.40/8.70	13.00/12.20	16.70/15.60	20.30/19.00
M13 X 1.50	13.25	-	13.561/13.325	15.10/16.29	6.80/6.20	11.00/10.10	15.20/13.90	19.30/17.80	23.50/21.60
M13 X 1.25	13.25	-	13.483/13.271	14.77/15.94	8.50/7.80	13.50/12.50	18.60/17.10	23.60/21.70	28.70/26.40
M14 X 2.00	14.50	-	14.733/14.433	16.43/17.35	5.30/5.00	8.70/8.20	12.10/11.40	15.60/14.60	19.00/17.90
M14 X 1.50	14.50	-	14.561/14.325	16.11/17.25	7.50/6.90	12.00/11.10	16.50/15.30	21.00/19.40	25.50/23.60
M14 X 1.25	14.25	9/16	14.483/14.271	15.78/17.03	9.30/8.60	14.70/13.60	20.20/18.60	25.60/23.60	31.00/28.60
M14 X 1.00	14.25	9/16	14.406/14.216	15.45/16.68	12.10/11.10	18.90/17.40	25.70/23.70	32.50/30.00	39.30/36.20
M15 X 2.00	15.50	39/64	15.733/15.433	17.42/18.48	5.80/5.40	9.50/8.80	13.10/12.30	16.80/15.70	20.50/19.20
M15 X 1.50	15.25	-	15.561/15.325	17.12/18.47	8.10/7.50	12.90/11.90	17.80/16.40	22.60/20.80	27.50/25.30
M16 X 2.00	16.50	-	16.733/16.433	18.41/19.60	6.30/5.90	10.20/9.50	14.20/13.20	18.10/16.90	22.00/20.50
M16 X 1.50	16.50	-	16.561/16.325	18.13/19.60	8.80/8.00	13.90/12.80	19.10/17.50	24.30/22.30	29.40/27.00
M18 X 2.50	19.00	3/4	18.896/18.541	21.04/22.00	5.50/5.20	9.00/8.60	12.50/11.90	16.10/15.30	19.60/18.60
M18 X 2.00	18.50	23/32	18.733/18.433	20.80/21.85	7.10/6.70	11.50/10.90	15.80/15.00	20.20/19.10	24.50/23.20
M18 X 1.50	18.50	23/32	18.561/18.325	20.15/21.75	10.10/9.30	15.90/14.60	21.70/20.00	27.60/25.40	33.40/30.70
M20 X 2.50	20.75	-	20.896/20.541	23.02/24.40	6.30/5.90	10.20/9.60	14.20/13.30	18.10/16.90	22.00/20.60
M20 X 2.00	20.50	13/16	20.733/20.433	22.82/24.05	8.10/7.70	12.90/12.20	17.80/16.80	22.60/21.40	27.50/25.90
M20 X 1.50	20.50	13/16	20.561/20.325	22.17/24.00	11.40/10.50	17.90/16.40	24.40/22.40	30.90/28.30	37.40/34.30
M22 X 2.50	22.75	-	22.896/22.541	25.00/26.90	7.10/6.50	11.40/10.50	15.80/14.50	20.10/18.50	24.50/22.50
M22 X 2.00	22.50	57/64	22.733/22.433	24.84/26.50	9.10/8.50	14.40/13.40	19.80/18.40	25.10/23.40	30.40/28.40
M22 X 1.50	22.50	57/64	22.561/22.325	24.19/26.45	12.70/11.60	19.90/18.10	27.00/24.60	34.20/31.10	41.30/37.60
M24 X 3.00	25.00	-	25.050/24.650	27.62/29.00	6.30/5.90	10.20/9.70	14.20/13.40	18.10/17.10	22.00/20.90
M24 X 2.00	24.50	31/32	24.733/24.433	26.86/29.10	10.10/9.20	15.90/14.60	21.70/19.90	27.60/25.30	33.40/30.60
M24 X 1.50	24.50	31/32	24.561/24.325	26.21/28.28	14.00/12.90	21.80/20.10	29.70/27.30	37.50/34.50	45.30/41.70
M26 X 1.50	26.50	-	26.561/26.325	28.23/30.46	15.40/14.20	23.80/22.00	32.30/29.80	40.80/37.60	49.20/45.40
M27 X 3.00	28.00	1.3/32	28.050/27.650	30.59/32.40	7.30/6.80	11.70/11.00	16.20/15.20	20.60/19.30	25.10/23.50
M27 X 2.00	27.50	1.5/64	27.733/27.433	29.89/32.30	11.60/10.60	18.10/16.70	24.70/22.70	31.30/28.80	37.90/34.80
M30 X 3.50	31.00	1.7/32	31.208/30.758	34.20/35.81	6.90/6.50	11.10/10.50	15.30/14.50	19.50/18.60	23.80/22.60
M30 X 3.00	31.00	1.7/32	31.050/30.650	34.24/36.10	8.10/7.60	12.90/12.20	17.80/16.80	22.60/21.30	27.50/25.90
M30 X 2.00	30.50	1.3/16	30.733/30.433	32.92/35.70	13.00/12.00	20.40/18.70	27.70/25.40	35.00/32.10	42.30/38.80
M33 X 3.50	34.00	1.21/64	34.208/33.758	37.17/38.80	7.70/7.40	12.40/11.80	17.00/16.20	21.70/20.70	26.40/25.10
M33 X 3.00	33.50	1.5/16	34.050/33.650	37.27/39.50	9.10/8.50	14.40/13.50	19.80/18.50	25.10/23.60	30.40/28.60
M33 X 2.00	33.50	1.5/16	33.733/33.433	35.95/39.20	14.50/13.30	22.60/20.60	30.60/28.00	38.70/35.30	46.80/42.70
M36 X 4.00	37.00	1.29/64	37.341/36.866	40.78/42.67	7.30/6.90	11.70/11.20	16.20/15.40	20.60/19.60	25.10/23.80
M36 X 3.00	37.00	1.29/64	37.050/36.650	40.30/42.70	10.10/9.50	15.90/14.90	21.70/20.40	27.60/25.90	33.40/31.40
M39 X 4.00	40.00	1.9/16	40.341/39.866	43.75/45.75	8.00/7.70	12.90/12.20	17.70/16.80	22.50/21.40	27.30/26.00
M42 X 4.50	43.00	1.11/16	43.505/42.975	47.37/49.00	7.60/7.30	12.20/11.80	16.80/16.20	21.50/20.70	26.10/25.10
M42 X 3.00	42.50	1.43/64	43.050/42.650	46.36/49.00	12.10/11.40	18.90/17.80	25.70/24.20	32.50/30.60	39.30/37.10


TECHNICAL INFORMATION FOR FREE RUNNING INSERTS

UNF/UNC	BSF
A	Minor Diameter
B	Major Diameter
C	Pitch Diameter of Tapped Hole (Class 5H)
D	Pitch Diameter of Installed Insert (Class 4H)
E	Installed Insert Internal Diameter - min.
FC	Free Coil Diameter of Uninstalled Insert
S	Drilling Length - minimum
T	Tapping Length - minimum
Q	Nominal Length
NC	Number of Coils in Uninstalled Insert counted 90° from tang.

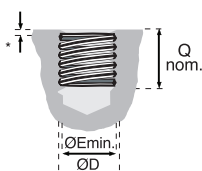
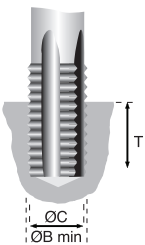
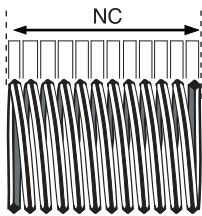
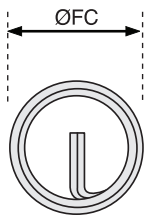


SIZE UNF	Drill		A max/min mm	FC min/max mm	NC max/min					
	mm	"			1.0D	1.5D	2.0D	2.5D	3.0D	
No 2 - 64	2.30	3/32	2.36/2.27	2.79/3.05	3.70/3.40	6.30/5.80	8.90/8.20	11.60/10.50	14.20/12.90	
No 3 - 56	2.70	#37	2.71/2.61	3.05/3.81	3.70/3.10	6.40/5.20	9.00/7.40	11.60/9.60	14.30/11.80	
No 4 - 48	3.00	#31	3.07/2.96	3.56/4.06	3.70/3.20	6.40/5.40	9.00/7.60	11.60/9.80	14.20/12.10	
No 5 - 44	3.40	#30	3.41/3.3	4.06/4.32	3.70/3.40	6.30/5.80	8.90/8.20	11.50/10.60	14.20/13.00	
No 6 - 40	3.70	#27	3.75/3.64	4.32/4.83	3.70/3.20	6.30/5.50	9.00/7.80	11.60/10.10	14.20/12.40	
No 8 - 36	4.40	11/64	4.43/4.32	5.08/5.59	4.10/3.60	6.90/6.10	9.70/8.60	12.50/11.10	15.30/13.60	
No 10 - 32	5.10	-	5.12/5	5.84/6.6	4.30/3.80	7.20/6.40	10.10/9.00	13.00/11.60	15.90/14.20	
1/4 X 28	6.60	-	6.72/6.55	7.62/8.38	5.20/4.70	8.50/7.70	11.90/10.80	15.20/13.80	18.60/16.90	
5/16 X 24	8.20	-	8.35/8.17	9.4/10.16	5.60/5.10	9.20/8.50	12.80/11.70	16.40/15.00	20.00/18.30	
3/8 X 24	9.80	-	9.93/9.75	10.92/11.94	7.10/6.50	11.40/10.50	15.80/14.50	20.10/18.50	24.50/22.50	
7/16 X 20	11.50	29/64	11.58/11.39	12.95/13.97	6.90/6.30	11.10/10.20	15.30/14.00	19.50/17.90	23.70/21.70	
1/2 X 20	13.00	33/64	13.16/12.97	14.48/15.75	8.10/7.40	12.90/11.90	17.80/16.30	22.60/20.80	27.50/25.20	
9/16 X 18	14.75	-	14.79/14.59	16.26/17.53	8.30/7.60	13.30/12.20	18.20/16.80	23.10/21.30	28.10/25.90	
5/8 X 18	16.50	-	16.38/16.18	17.78/19.3	9.40/8.70	14.90/13.80	20.50/18.90	26.00/24.00	31.50/29.10	
3/4 X 16	19.50	49/64	19.6/19.39	21.34/22.86	10.10/9.30	15.90/14.70	21.70/20.10	27.60/25.50	33.40/30.90	
7/8 X 14	22.50	57/64	22.84/22.62	24.89/26.67	10.30/9.60	16.30/15.10	22.20/20.60	28.20/26.10	34.20/31.60	
1 X 12	26.00	-	26.11/25.86	28.45/30.48	10.10/9.40	16.00/14.80	21.80/20.30	27.70/25.70	33.50/31.10	
1 X 14	26.00	-	26.02/25.79	27.94/30.23	12.10/11.20	18.90/17.50	25.70/23.80	32.50/30.10	39.40/36.40	
1-1/8 X 12	29.50	1.5/32	29.32/29.03	31.75/33.78	11.60/10.80	18.20/16.90	24.80/23.00	31.40/29.20	38.00/35.30	
1-1/4 X 12	32.50	1.9/32	32.49/32.21	34.8/37.34	13.10/12.20	20.40/19.00	27.80/25.80	35.10/32.70	42.50/39.50	
1-3/8 X 12	35.50	1.13/32	35.67/35.38	38.1/40.89	14.60/13.50	22.70/21.00	30.80/28.50	38.80/36.00	46.90/43.50	
1-1/2 X 12	38.50	-	38.84/38.56	41.15/44.45	16.10/14.90	24.90/23.10	33.70/31.30	42.60/39.50	51.40/47.70	
UNC										
No 2 - 56	2.40	#41	2.39/2.28	2.79/3.05	3.10/2.80	5.40/4.80	7.80/6.90	10.10/9.00	12.50/11.10	
No 3 - 48	2.70	#37	2.74/2.63	3.05/3.56	3.20/2.80	5.50/4.90	7.90/7.00	10.30/9.00	12.70/11.20	
No 4 - 40	3.00	#31	3.11/2.98	3.56/4.06	2.80/2.40	4.90/4.30	7.10/6.20	9.20/8.10	11.40/10.00	
No 5 - 40	3.40	#30	3.44/3.31	4.06/4.32	3.30/2.90	5.70/5.00	8.10/7.20	10.50/9.30	13.00/11.50	
No 6 - 32	3.70	#27	3.82/3.68	4.57/4.83	2.70/2.40	4.80/4.30	7.00/6.20	9.10/8.20	11.20/10.10	
No 8 - 32	4.40	11/64	4.47/4.34	5.08/5.59	3.50/3.20	6.10/5.50	8.60/7.80	11.20/10.10	13.70/12.40	
No 10 - 24	5.10	-	5.21/5.05	6.1/6.6	2.80/2.60	5.00/4.60	7.20/6.70	9.40/8.70	11.60/10.70	
No 12 - 24	5.70	15/64	5.86/5.72	6.86/7.11	3.50/3.20	6.00/5.60	8.50/7.90	11.00/10.30	13.50/12.60	
1/4 X 20	6.70	17/64	6.87/6.62	7.87/8.38	3.30/3.10	5.70/5.30	8.10/7.60	10.50/9.90	13.00/12.10	
5/16 X 18	8.30	21/64	8.49/8.24	9.65/10.16	3.90/3.70	6.70/6.30	9.50/8.90	12.20/11.50	15.00/14.10	
3/8 X 16	9.90	25/64	10.12/9.87	11.43/11.94	4.30/4.10	7.20/6.80	10.10/9.60	13.10/12.40	16.00/15.20	
7/16 X 14	11.60	-	11.78/11.51	13.21/13.97	4.40/4.10	7.40/7.00	10.40/9.80	13.40/12.60	16.30/15.50	
1/2 X 13	13.00	33/64	13.4/13.12	14.99/15.75	4.80/4.50	8.00/7.50	11.10/10.60	14.30/13.60	17.50/16.60	
9/16 X 12	15.00	19/32	15.03/14.74	16.76/17.53	5.00/4.80	8.40/7.90	11.70/11.10	15.00/14.20	18.30/17.40	
5/8 X 11	16.50	-	16.68/16.38	18.8/19.56	5.10/4.90	8.50/8.10	11.90/11.30	15.20/14.50	18.60/17.70	
3/4 X 10	20.00	-	19.91/19.6	22.1/23.11	5.80/5.50	9.50/9.00	13.10/12.60	16.80/16.10	20.50/19.60	
7/8 X 9	23.00	29/32	23.17/22.84	25.65/26.67	6.20/5.90	10.00/9.60	13.90/13.30	17.80/17.00	21.70/20.70	
1 X 8	26.25	-	26.47/26.09	29.21/30.48	6.30/6.00	10.20/9.80	14.20/13.60	18.10/17.30	22.00/21.10	
1-1/8 X 7	29.50	1.5/32	29.74/29.36	33.02/34.54	6.20/5.90	10.10/9.60	14.00/13.30	17.90/17.00	21.80/20.70	
1-1/4 X 7	32.50	1.9/32	32.92/32.53	36.07/37.59	7.10/6.70	11.40/10.90	15.80/15.00	20.10/19.20	24.40/23.30	
1-3/8 X 6	36.00	-	36.35/35.84	40.13/41.66	6.50/6.20	10.60/10.10	14.60/14.00	18.70/17.80	22.70/21.70	
1-1/2 X 6	39.50	1.35/64	39.52/39.02	43.18/44.96	7.30/6.90	11.70/11.20	16.10/15.40	20.60/19.60	25.00/23.90	
BSF										
3/16 X 32	5.00	-	5.03/4.88	5.84/6.35	4.30/3.90	7.20/6.50	10.20/9.20	13.10/11.90	16.00/14.50	
1/4 X 26	6.60	-	6.71/6.53	7.62/8.38	4.80/4.30	7.90/7.10	11.20/9.90	14.40/12.70	17.50/15.60	
5/16 X 22	8.30	21/64	8.38/8.2	9.4/10.16	5.20/4.70	8.50/7.70	11.90/10.70	15.30/13.80	18.70/16.80	
3/8 X 20	9.80	-	9.96/9.78	11.18/12.19	5.80/5.30	9.40/8.60	13.20/12.00	16.90/15.30	20.50/18.70	
7/16 X 18	11.60	-	11.63/11.43	12.95/14.22	6.20/5.60	10.00/9.10	13.90/12.60	17.80/16.10	21.60/19.60	
1/2 X 16	13.25	-	13.26/13.03	14.73/16	6.30/5.70	10.20/9.30	14.20/12.90	18.10/16.50	22.00/20.00	
9/16 X 16	14.75	-	14.88/14.66	16.26/17.78	7.30/6.60	11.70/10.60	16.10/14.70	20.60/18.70	25.00/22.70	
5/8 X 14	16.30	41/64	16.48/16.26	18.29/19.56	7.10/6.50	11.30/10.40	15.70/14.30	20.00/18.30	24.30/22.20	
3/4 X 12	19.50	49/64	19.69/19.43	21.84/23.37	7.30/6.70	11.70/10.80	16.20/14.90	20.70/19.00	25.10/23.00	
7/8 X 11	22.75	-	22.86/22.61	25.15/27.18	7.90/7.20	12.60/11.60	17.40/15.90	22.10/20.30	26.90/24.60	
1 X 10	26.25	-	26.52/26.19	28.7/30.99	8.30/7.60	13.20/12.10	18.10/16.60	23.10/21.20	28.00/25.70	
1-1/8 X 9	29.50	1.5/32	29.72/29.36	32.26/34.8	8.40/7.80	13.30/12.30	18.40/17.00	23.40/21.50	28.40/26.10	
1-1/4 X 9	32.50	1.9/32	32.89/32.54	35.31/38.1	9.50/8.80	15.00/13.90	20.60/19.00	26.20/24.20	31.70/29.30	
1-3/8 X 8	36.00	-	36.07/35.71	39.12/42.16	9.30/8.50	14.60/13.50	20.10/18.50	25.50/23.50	31.00/28.50	
1-1/2 X 8	39.00	1.17/32	39.24/38.89	42.16/45.97	10.30/9.40	16.10/14.80	22.10/20.10	28.00/25.50	33.90/30.90	

powercoil
 by CELESA

TECHNICAL INFORMATION FOR FREE RUNNING INSERTS
BSW/BSP BA/BSB/UN-8 PITCH

A	Minor Diameter
B	Major Diameter
C	Pitch Diameter of Tapped Hole (Class 5H)
D	Pitch Diameter of Installed Insert (Class 4H)
E	Installed Insert Internal Diameter - min.
FC	Free Coil Diameter of Uninstalled Insert
S	Drilling Length - minimum
T	Tapping Length - minimum
Q	Nominal Length
NC	Number of Coils in Uninstalled Insert counted 90° from tang.



BSW	mm	"	A max/min mm	FC min/max mm	NC max/min					
					1.0D	1.5D	2.0D	2.5D	3.0D	
1/8 X 40	3.40	#30	3.43/3.28	3.81/4.32	3.40/3.00	5.80/5.10	8.40/7.30	10.90/9.40	13.40/11.60	
3/16 X 24	2.70	#37	2.71/2.61	3.05/3.81	3.70/3.10	6.40/5.20	9.00/7.40	11.60/9.60	14.30/11.80	
1/4 X 20	6.70	17/64	6.78/6.63	7.87/8.38	3.40/3.10	5.90/5.40	8.50/7.70	11.00/9.90	13.50/12.20	
5/16 X 18	8.30	21/64	8.48/8.33	9.4/10.16	4.10/3.80	6.90/6.40	9.80/9.00	12.60/11.60	15.50/14.20	
3/8 X 16	10.00	-	10.11/9.91	11.18/11.94	4.40/4.10	7.40/6.90	10.50/9.70	13.50/12.50	16.50/15.30	
7/16 X 14	11.60	-	11.76/11.51	13.21/13.97	4.60/4.20	7.60/7.10	10.70/9.90	13.80/12.80	16.90/15.60	
1/2 X 12	13.00	33/64	13.34/13.08	14.99/16	4.50/4.10	7.40/7.00	10.50/9.80	13.60/12.60	16.60/15.40	
9/16 X 12	14.75	-	14.94/14.68	16.51/17.53	5.20/4.90	8.60/8.00	12.00/11.20	15.40/14.40	18.80/17.60	
5/8 X 11	16.50	-	16.84/16.59	18.29/19.56	5.30/5.00	8.70/8.20	12.20/11.50	15.70/14.70	19.20/17.90	
3/4 X 10	20.00	-	20.09/19.84	21.84/22.86	6.00/5.60	9.70/9.20	13.50/12.70	17.30/16.30	21.10/19.80	
7/8 X 9	23.25	-	23.27/23.01	25.15/26.67	6.30/6.00	10.20/9.70	14.30/13.40	18.20/17.10	22.20/20.90	
1 X 8	26.50	-	26.52/26.187.4	28.7/30.48	6.50/6.10	10.40/9.90	14.50/13.70	18.60/17.50	22.60/21.20	
1-1/8 X 7	30.00	1.11/64	30.12/29743.4	32.51/34.29	6.30/5.90	10.20/9.60	14.30/13.40	18.20/17.10	22.20/20.80	
1-1/4 X 7	33.00	1.19/64	33.3/32918.4	35.56/37.59	7.20/6.80	11.60/10.90	16.00/15.00	20.40/19.20	24.90/23.30	
1-1/2 X 6	39.50	1.35/64	39.9/39268.4	42.67/45.21	7.50/7.00	11.90/11.30	16.50/15.50	21.10/19.80	25.60/24.00	
BSP										
1/8 X 28	10.00	-	10.16/9.91	10.92/11.94	1.90/1.70	3.60/3.20	5.30/4.80	7.00/6.40	8.80/7.90	
1/4 X 19	13.75	-	13.72/13.46	14.99/16.26	3.10/2.80	5.40/5.00	7.80/7.10	10.10/9.20	12.50/11.40	
3/8 X 19	17.00	-	17.27/17.02	18.54/20.07	5.50/5.00	8.90/8.20	12.50/11.40	16.00/14.60	19.50/17.90	
1/2 X 14	21.50	27/32	21.59/21.34	23.37/25.15	5.30/4.90	8.80/8.10	12.20/11.20	15.70/14.40	19.10/17.60	
5/8 X 14	23.50	-	23.55/23.24	25.4/27.43	7.10/6.50	11.30/10.40	15.70/14.40	20.00/18.40	24.30/22.30	
3/4 X 14	27.00	1.1/16	27.08/26.75	28.96/31.24	8.80/8.10	13.90/12.90	19.20/17.60	24.30/22.40	29.50/27.20	
7/8 X 14	30.50	1.13/16	30.81/30.48	32.77/35.31	10.50/9.70	16.50/15.30	22.60/20.80	28.70/26.40	34.70/32.00	
1 X 11	33.75	-	33.91/33.53	36.32/39.12	9.30/8.60	14.70/13.60	20.10/18.60	25.60/23.60	31.00/28.60	
1-1/4 X 11	42.50	1.43/64	42.67/42.29	44.96/48.51	12.00/11.10	18.70/17.40	25.60/23.70	32.40/30.00	39.20/36.20	
1-1/2 X 11	48.50	1.29/32	48.79/48.41	51.05/54.86	14.70/13.60	22.80/21.20	31.00/28.70	39.20/36.30	47.30/43.80	
BA										
BA 6	2.90	#33	2.95/2.87	3.56/3.81	3.60/3.30	6.20/5.60	8.70/7.90	11.20/10.20	13.80/12.50	
BA 5	3.40	#30	3.43/3.28	3.81/4.32	3.80/3.40	6.40/5.80	9.00/8.10	11.60/10.50	14.20/12.90	
BA 4	3.80	#25	3.86/3.73	4.32/4.83	3.80/3.50	6.40/5.80	9.10/8.20	11.70/10.60	14.40/13.00	
BA 3	4.30	-	4.34/4.22	5.08/5.33	3.90/3.60	6.70/6.00	9.40/8.50	12.10/10.90	14.80/13.40	
BA 2	4.90	#10	4.98/4.85	5.59/6.1	4.20/3.80	6.90/6.30	9.80/8.80	12.60/11.40	15.40/13.90	
BA 1	5.50	7/32	5.59/5.41	6.35/6.86	4.20/3.80	7.10/6.40	9.90/9.00	12.80/11.60	15.60/14.10	
BA 0	6.20	C	6.25/6.12	7.11/7.87	4.30/3.90	7.20/6.60	10.10/9.20	13.00/11.80	16.00/14.50	
BSB										
3/16 X 32	5.10	-	5.21/4.95	5.84/6.6	4.10/3.70	6.90/6.20	9.70/8.70	12.50/11.20	15.30/13.70	
1/4 X 26	6.60	-	6.86/6.55	7.87/8.64	4.60/4.10	7.60/6.90	10.70/9.60	13.80/12.30	16.80/15.10	
5/16 X 26	8.00	5/16	8.43/8.13	9.4/10.41	6.20/5.50	10.00/9.00	13.90/12.50	17.80/16.00	21.60/19.40	
3/8 X 26	9.80	-	10.03/9.73	10.92/12.19	7.80/7.00	12.40/11.20	17.10/15.40	21.70/19.60	26.40/23.80	
7/16 X 26	11.10	7/16	11.61/11.33	12.7/13.97	9.40/8.40	14.80/13.40	20.30/18.30	25.80/23.30	31.20/28.20	
1/2 X 26	12.70	1/2	13.21/12.9	14.22/15.49	11.00/9.90	17.20/15.60	23.50/21.20	29.80/26.90	36.00/32.60	
9/16 X 26	14.75	-	14.78/14.5	15.75/17.27	12.60/11.40	19.70/17.80	26.70/24.20	33.80/30.50	40.90/36.90	
5/8 X 26	16.50	-	16.38/16.08	17.53/19.05	14.20/12.80	22.00/19.90	29.90/27.10	37.80/34.20	45.70/41.30	
3/4 X 26	19.50	49/64	19.53/19.25	20.57/22.61	17.40/15.70	26.90/24.30	36.30/32.90	45.80/41.50	55.30/50.10	
1 X 24	25.75	1.1/64	25.91/25.63	27.18/29.72	21.80/19.80	33.50/30.40	45.30/41.00	57.00/51.60	68.70/62.20	
UN-8 PITCH										
1.1/8 X 8	28.50	1.1/8	29.34/28.7	31.75/33.02	7.50/7.10	12.00/11.50	16.60/15.80	21.10/20.10	25.60/24.50	
1.1/4 X 8	32.00	1.1/4	32.51/31.88	35.31/36.32	8.30/8.10	13.30/12.90	18.30/17.70	23.30/22.60	28.20/27.40	
1.3/8 X 8	35.00	1.3/8	35.69/35.05	38.61/39.88	9.30/9.00	14.80/14.30	20.20/19.60	25.70/24.90	31.20/30.20	
1.1/2 X 8	38.00	1.1/2	38.86/38.23	41.91/42.93	10.30/10.00	16.20/15.80	22.20/21.50	28.10/27.30	34.10/33.10	
1.5/8 X 8	41.00	1.5/8	42.04/41.4	45.21/48.26	11.20/10.50	17.70/16.40	24.10/22.40	30.50/28.40	37.00/34.30	
1.3/4 X 8	44.50	1.3/4	45.21/44.58	48.26/51.82	12.20/11.40	19.20/17.80	26.10/24.20	33.00/30.70	39.90/37.10	
1.7/8 X 8	47.50	1.7/8	48.39/47.75	51.56/54.86	13.20/12.40	20.60/19.30	28.10/26.20	35.50/33.20	42.90/40.10	
2 X 8	51.00	2	51.56/50.93	54.86/57.91	14.20/13.40	22.10/20.90	30.00/28.40	38.00/35.90	45.90/43.30	

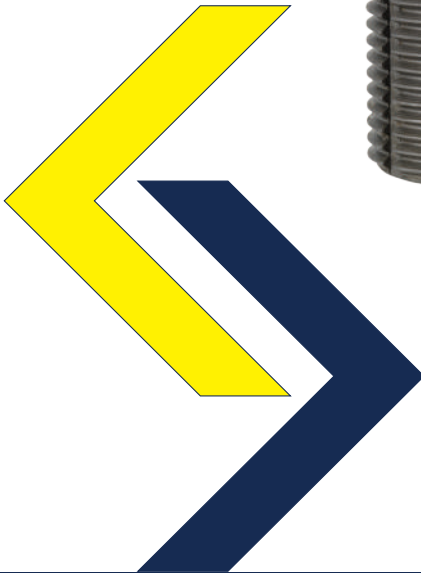


TECHNICAL INFORMATION FOR FREE RUNNING INSERTS

B mm	C (5H) mm	D (4H) mm	C (6H) mm	D (5H) mm	E mm	S					T					Q				
						1.0D	1.5D	2.0D	2.5D	3.0D	1.0D	1.5D	2.0D	2.5D	3.0D	1.0D	1.5D	2.0D	2.5D	3.0D
0.155	0.1420/0.1410	0.1109/0.1090	0.1430/0.1410	0.1119/0.1090	0.0930	0.237	0.300	0.362	0.425	0.487	0.212	0.275	0.337	0.400	0.462	0.125	0.187	0.250	0.312	0.375
0.237	0.2154/0.2142	0.1631/0.1608	0.2166/0.2142	0.1643/0.1608	0.1341	0.375	0.469	0.562	0.656	0.750	0.333	0.427	0.521	0.614	0.708	0.187	0.281	0.375	0.469	0.562
0.309	0.2836/0.2820	0.2206/0.2180	0.2849/0.2820	0.2219/0.2180	0.1860	0.475	0.600	0.725	0.850	0.975	0.425	0.550	0.675	0.800	0.925	0.250	0.375	0.500	0.625	0.750
0.378	0.3498/0.3480	0.2797/0.2769	0.3512/0.3480	0.2811/0.2769	0.2413	0.562	0.718	0.875	1.031	1.187	0.507	0.663	0.819	0.975	1.132	0.312	0.469	0.625	0.781	0.937
0.448	0.4170/0.4150	0.3380/0.3350	0.4185/0.4150	0.3395/0.3350	0.2950	0.656	0.844	1.031	1.219	1.406	0.594	0.781	0.969	1.156	1.344	0.375	0.562	0.750	0.937	1.125
0.521	0.4855/0.4833	0.3950/0.3918	0.4871/0.4833	0.3966/0.3918	0.3461	0.758	0.977	1.196	1.415	1.633	0.687	0.906	1.125	1.344	1.562	0.437	0.656	0.875	1.094	1.312
0.597	0.5557/0.5533	0.4500/0.4466	0.5575/0.5533	0.4518/0.4466	0.3932	0.875	1.125	1.375	1.625	1.875	0.792	1.042	1.292	1.542	1.792	0.500	0.750	1.000	1.250	1.500
0.660	0.6184/0.6158	0.5127/0.5091	0.6201/0.6158	0.5144/0.5091	0.4557	0.937	1.219	1.500	1.781	2.062	0.854	1.135	1.417	1.698	1.979	0.562	0.844	1.125	1.406	1.687
0.731	0.6859/0.6832	0.5705/0.5668	0.6878/0.6832	0.5724/0.5668	0.5086	1.034	1.347	1.659	1.972	2.284	0.943	1.256	1.568	1.881	2.193	0.625	0.937	1.250	1.562	1.875
0.867	0.8171/0.8141	0.6900/0.6860	0.8191/0.8141	0.6920/0.6860	0.6220	1.200	1.575	1.950	2.325	2.700	1.100	1.475	1.850	2.225	2.600	0.750	1.125	1.500	1.875	2.250
1.005	0.9495/0.9462	0.8082/0.8039	0.9516/0.9462	0.8103/0.8039	0.7328	1.375	1.812	2.250	2.687	3.125	1.264	1.701	2.139	2.576	3.014	0.875	1.312	1.750	2.187	2.625
1.146	1.0836/1.0801	0.9245/0.9200	1.0859/1.0801	0.9268/0.9200	0.8400	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
1.291	1.2203/1.2165	1.0383/1.0335	1.2227/1.2165	1.0407/1.0335	0.9420	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
1.416	1.3454/1.3415	1.1634/1.1585	1.3479/1.3415	1.1659/1.1585	1.0670	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
1.694	1.6110/1.6067	1.3986/1.3933	1.6137/1.6067	1.4013/1.3933	1.2866	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
0.426	0.4076/0.4058	0.3629/0.3601	0.4090/0.4058	0.3643/0.3601	0.3372	0.286	0.348	0.411	0.437	0.536	0.250	0.312	0.375	0.437	0.500	0.125	0.187	0.250	0.312	0.375
0.580	0.5539/0.5517	0.4875/0.4843	0.5556/0.5517	0.4892/0.4843	0.4506	0.487	0.612	0.737	0.862	0.987	0.434	0.559	0.684	0.809	0.934	0.250	0.375	0.500	0.625	0.750
0.718	0.6920/0.6897	0.6256/0.6223	0.6937/0.6897	0.6273/0.6223	0.5886	0.612	0.799	0.987	1.174	1.362	0.559	0.747	0.934	1.122	1.309	0.375	0.562	0.750	0.937	1.125
0.909	0.8735/0.8708	0.7830/0.7793	0.8754/0.8708	0.7849/0.7793	0.7336	0.821	1.071	1.321	1.571	1.821	0.750	1.000	1.250	1.500	1.750	0.500	0.750	1.000	1.250	1.500
0.986	0.9506/0.9478	0.8601/0.8563	0.9524/0.9478	0.8619/0.8563	0.8106	0.946	1.258	1.571	1.883	2.196	0.875	1.187	1.500	1.812	2.125	0.625	0.937	1.250	1.562	1.875
1.126	1.0898/1.0868	0.9993/0.9953	1.0918/1.0868	1.0013/0.9953	0.9496	1.071	1.446	1.821	2.196	2.571	1.000	1.375	1.750	2.125	2.500	0.750	1.125	1.500	1.875	2.250
1.274	1.2378/1.2348	1.1473/1.1433	1.2399/1.2348	1.1494/1.1433	1.0976	1.196	1.634	2.071	2.509	2.946	1.125	1.562	2.000	2.437	2.875	0.875	1.312	1.750	2.187	2.625
1.416	1.3705/1.3673	1.2551/1.2508	1.3727/1.3673	1.2573/1.2508	1.1926	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
1.757	1.7118/1.7083	1.5964/1.5918	1.7141/1.7083	1.5987/1.5918	1.5336	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
1.989	1.9440/1.9403	1.8286/1.8238	1.9464/1.9403	1.8310/1.8238	1.7656	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
0.134	0.1252/0.1226	0.1014/0.0976			0.0850	0.204	0.259	0.314	0.369	0.424	0.183	0.238	0.293	0.348	0.404	0.110	0.165	0.220	0.275	0.331
0.152	0.1426/0.1399	0.1159/0.1120			0.0980	0.230	0.293	0.356	0.419	0.482	0.207	0.270	0.333	0.396	0.459	0.126	0.189	0.252	0.315	0.378
0.171	0.1605/0.1574	0.1305/0.1262			0.1106	0.259	0.329	0.400	0.471	0.542	0.233	0.303	0.374	0.445	0.516	0.142	0.212	0.283	0.354	0.425
0.194	0.1821/0.1786	0.1488/0.1441			0.1268	0.291	0.371	0.452	0.533	0.613	0.262	0.343	0.423	0.504	0.585	0.161	0.242	0.323	0.403	0.484
0.221	0.2079/0.2042	0.1709/0.1659			0.1468	0.328	0.421	0.513	0.606	0.698	0.297	0.389	0.482	0.574	0.667	0.185	0.277	0.370	0.462	0.555
0.249	0.2342/0.2299	0.1929/0.1874			0.1661	0.368	0.472	0.576	0.681	0.785	0.333	0.437	0.541	0.646	0.750	0.209	0.313	0.417	0.522	0.626
0.281	0.2645/0.2598	0.2185/0.2126			0.1890	0.413	0.531	0.649	0.768	0.886	0.374	0.492	0.610	0.728	0.846	0.236	0.354	0.472	0.590	0.709
0.232	0.2112/0.2136	0.1738/0.1709			0.1543	0.33	0.42	0.52	0.61	0.70	0.30	0.39	0.48	0.58	0.67	0.187	0.281	0.375	0.469	0.562
0.304	0.2790/0.2817	0.2328/0.2295			0.2090	0.42	0.55	0.67	0.80	0.92	0.38	0.51	0.63	0.76	0.88	0.250	0.375	0.500	0.625	0.750
0.367	0.3415/0.3444	0.2965/0.2920			0.2715	0.49	0.64	0.80	0.95	1.11	0.45	0.60	0.76	0.92	1.07	0.312	0.469	0.625	0.781	0.937
0.429	0.4040/0.4070	0.3583/0.3545			0.3340	0.55	0.74	0.92	1.11	1.30	0.51	0.70	0.88	1.07	1.26	0.375	0.562	0.750	0.937	1.125
0.492	0.4665/0.4697	0.4210/0.4170			0.3965	0.61	0.83	1.05	1.27	1.49	0.57	0.79	1.01	1.23	1.45	0.437	0.656	0.875	1.094	1.312
0.554	0.5290/0.5323	0.4837/0.4795			0.4590	0.67	0.92	1.17	1.42	1.67	0.63	0.88	1.13	1.38	1.63	0.500	0.750	1.000	1.250	1.500
0.617	0.5915/0.5945	0.5464/0.5420			0.5215	0.74	1.02	1.30	1.58	1.86	0.70	0.98	1.26	1.54	1.82	0.562	0.844	1.125	1.406	1.687
0.679	0.6540/0.6575	0.6090/0.6045			0.5840	0.80	1.11	1.42	1.74	2.05	0.76	1.07	1.38	1.70	2.01	0.625	0.937	1.250	1.562	1.875
0.804	0.7790/0.7827	0.7343/0.7295			0.7090	0.92	1.30	1.67	2.05	2.42	0.88	1.26	1.63	2.01	2.38	0.750	1.125	1.500	1.875	2.250
1.059	1.0314/1.0355	0.9828/0.9778			0.9556	1.19	1.69	2.19	2.69	3.19	1.15	1.65	2.15	2.65	3.15	1.000	1.500	2.000	2.500	3.000
1.261	1.1757/1.1688	1.1/4	1.0528/1.0438			1.69	2.25	2.81	3.38	3.94	1.56	2.13	2.69	3.25	3.81	1.125	1.688	2.250	2.81	3.38
1.386	1.3008/1.2938	1.3/8	1.1780/1.1688			1.81	2.44	3.06	3.69	4.31	1.69	2.31	2.94	3.56	4.19	1.250	1.875	2.500	3.13	3.75
1.511	1.4259/1.4188	1.1/2	1.3031/1.2938			1.94	2.62	3.31	4.00	4.69	1.81	2.50	3.19	3.88	4.56	1.375	2.062	2.750	3.44	4.13
1.636	1.5510/1.5438	1.5/8	1.4283/1.4188			2.06	2.81	3.56	4.31	5.06	1.94	2.69	3.44	4.19	4.94	1.500	2.250	3.000	3.75	4.50
1.761	1.6762/1.6688	1.3/4	1.5535/1.5438			2.19	3.00	3.81	4.63	5.44	2.06	2.88	3.69	4.50	5.31	1.625	2.438	3.250	4.06	4.88
1.886	1.8013/1.7938	1.7/8	1.6786/1.6688			2.31	3.19	4.06	4.94	5.81	2.19	3.06	3.94	4.81	5.69	1.750	2.625	3.500	4.38	5.25
2.011	1.9264/1.9188	2	1.8038/1.7938			2.44	3.37	4.31	5.25	6.19	2.31	3.25	4.19	5.13	6.06	1.875	2.812	3.750	4.69	5.63
2.136	2.0515/2.0438	2.1/8	1.9289/1.9188			2.56	3.56	4.56	5.56	6.56	2.44	3.44	4.44	5.44	6.44	2.000	3.000	4.000	5.00	6.00


QUICK SEARCHING CHART FOR INSERTS INSTALLATION TOOLS


MC	MF	SPARK	UNC	UNF	BSW	BSF	BA	BSC	NPT	BSP	UN-8	Ref.	Ref.	Ref.
2X0.40	-	-	-	-	-	-	-	-	-	-	-	3500-HIT2	3500-TB1	3500-RT1
2.20X0.45	-	-	2GX56	-	-	-	-	-	-	-	-	3500-HIT2	3500-TB2	3500-RT1
2.50X0.45	-	-	3GX48	3GX56	-	-	#6	-	-	-	-	3500-HIT3	3500-TB3	3500-RT1
-	-	-	4GX40	4GX48	1/8X40	-	-	-	-	-	-	3500-HIT4	3500-TB4	3500-RT1
3X0.50	-	-	4GX40	4GX48	1/8X40	-	-	-	-	-	-	3500-HIT4	3500-TB4	3500-RT2
-	-	-	5GX40	-	-	-	-	-	-	-	-	3500-HIT4	3500-TB4	3500-RT1
3.50X0.60	-	-	-	-	-	-	-	-	-	-	-	3500-HIT5	3500-TB5	3500-RT2
-	-	-	6GX32	6GX40	-	-	#4	-	-	-	-	3500-HIT5	3500-TB5	3500-RT1
4X0.70	-	-	8GX32	8GX36	-	3/16X32	-	-	-	-	-	3500-HIT6	3500-TB6	3500-RT2
-	-	-	8GX32	8GX36	-	-	-	-	-	-	-	3500-HIT6	3500-TB6	3500-RT1
5X0.80	-	-	12GX24	10GX32	3/16X24	3/16X32	#1	-	-	-	-	3500-HIT8	3500-TB8	3500-RT2
-	-	-	12GX24	12GX28	-	-	-	-	-	-	-	3500-HIT8	3500-TB8	3500-RT2
6X1.00	-	-	1/4X20	1/4X28	1/4X20	1/4X26	#0	1/4X26	-	-	-	3500-HIT9	3500-TB9	3500-RT2
7X1.00	-	-	5/16X18	-	5/16X18	5/16X22	#0	-	1/16X27	-	-	3500-HIT10	3500-TB11	3500-RT2
8X1.25	8X1.00	-	5/16X18	5/16X24	3/8X16	5/16X22	-	5/16X26	-	-	-	3500-HIT11	3500-TB12	3500-RT2
9X1.25	9X1.00	10X1.00	3/8X16	3/8X24	-	3/8X20	-	3/8X26	-	-	-	3500-HIT13	3500-TB12	3500-RT2
-	10X1.00	-	3/8X16	-	3/8X16	3/8X20	-	-	-	-	-	3500-HIT13	3500-TB12	3500-RT3
10X1.50	10X1.25	-	-	-	-	-	-	-	1/8X27	-	-	3500-HIT13	3500-TB13	3500-RT2
-	-	-	-	3/8X24	-	-	-	3/8X26	-	-	-	3500-HIT13	3500-TB13	3500-RT3
-	10X1.00	-	-	-	-	-	-	-	-	-	-	3500-HIT13	3500-TB13	3500-RT2
11X1.50	11X1.25	-	7/16X14	7/16X20	7/16X14	7/16X18	-	7/16X26	-	1/8X28	-	3500-HIT14	3500-TB14	3500-RT3
-	11X1.00	-	-	-	-	-	-	-	-	-	-	3500-HIT14	3500-TB14	3500-RT3
12X1.75	12X1.50	10X1.25	1/2X13	1/2X20	1/2X12	1/2X16	-	1/2X26	-	-	-	3500-HIT15	3500-TB15	3500-RT3
-	12X1.25	-	-	-	-	-	-	-	-	-	-	3500-HIT15	-	-
-	12X1.00	12X1.25	-	-	-	-	-	-	-	-	-	3500-HIT15	3500-TB15	3500-RT3
13X1.75	13X1.50	-	-	-	-	-	-	-	-	-	-	3500-HIT15	3500-TB15	3500-RT3
-	13X1.25	-	-	-	-	-	-	-	-	-	-	3500-HIT16	-	3500-RT3
14X2.00	14X1.50	14X1.25	9/16X12	9/16X18	9/16X12	9/16X16	-	-	-	1/4X18	-	3500-HIT16	-	3500-RT3
-	14X1.00	-	-	-	-	-	-	-	-	-	-	3500-HIT16	-	3500-RT3
15X2.00	15X1.50	-	-	-	-	-	-	-	1/4X18	-	-	3500-HIT16	-	3500-RT3
-	-	14X1.25	-	-	-	-	-	-	-	-	-	3500-HIT17	-	-
16X2.00	16X1.50	-	5/8X11	5/8X18	5/8X11	5/8X14	-	-	3/8X18	-	-	3500-HIT18	-	3500-RT3
18X2.50	18X2.00	18X1.50	3/4X10	-	3/4X10	3/4X12	-	-	-	3/8X19	-	3500-HIT20	-	3500-RT3
-	18X1.50	-	-	-	-	-	-	-	-	-	-	3500-HIT20	-	-
20X2.50	20X2.00	-	-	3/4X16	-	-	-	-	-	-	-	3500-HIT21	-	3500-RT3
-	20X1.50	-	-	-	-	-	-	-	-	-	-	3500-HIT21	-	3500-RT3
22X2.50	22X2.00	-	7/8X9	7/8X14	7/8X9	7/8X11	-	-	1/2X14	-	-	3500-HIT22	-	3500-RT3
-	22X1.50	-	-	-	-	-	-	-	-	-	-	3500-HIT22	-	3500-RT3
24X3.00	24X2.00	-	1X8	1X12	1X8	1X10	-	-	-	1/2X14	-	3500-HIT23	-	3500-RT3
-	24X1.50	-	-	1X14	-	-	-	-	-	5/8X14	-	3500-HIT23	-	3500-RT3
-	26X1.50	-	-	-	-	-	-	-	-	-	-	3500-HIT24	-	3500-RT4
27X3.00	27X2.00	-	-	-	-	-	-	-	-	-	-	3500-HIT24	-	3500-RT4
-	27X1.50	-	-	-	-	-	-	-	-	-	-	3500-HIT24	-	3500-RT4
-	28X1.50	-	-	-	-	-	-	-	-	-	-	3500-HIT24	-	3500-RT4
30X3.50	30X2.00	-	1.1/8X7	1.1/8X12	-	-	-	-	-	-	-	3500-HIT25	-	3500-RT4
-	30X3.00	-	1.1/8-7	1.1/8-12	-	-	-	-	-	-	1.1/8X8	3500-HIT25	-	-
-	30X1.50	-	1.1/4X7	1.1/4X12	-	-	-	-	-	-	-	3500-HIT26	-	3500-RT4
33X3.50	33X2.00	-	1.3/8X6	1.3/8X12	-	-	-	-	-	3/4X14	1.1/4X8	3500-HIT26	-	3500-RT4
-	-	-	1.3/8-6	1.3/8-12	-	-	-	-	1X11.5	7/8X14	1.3/8X8	3500-HIT27	-	-
-	-	-	-	-	-	-	-	-	-	1X11	-	3500-HIT27	-	-
36X4.00	36X3.00	-	1.1/2X6	1.1/2X12	-	-	-	-	-	-	1.1/2X8	3500-HIT28	-	3500-RT4
39X4.00	36X2.00	-	-	-	-	-	-	-	-	-	-	3500-HIT28	-	3500-RT4
-	36X1.50	-	-	-	-	-	-	-	-	-	-	3500-HIT28	-	3500-RT4
42X4.50	-	-	-	-	-	-	-	-	-	-	1.5/8X8	3500-HIT28	-	-
-	44X3.00	-	-	-	-	-	-	-	-	-	1.3/4X8	3500-HIT28	-	-
48X5.00	-	-	-	-	-	-	-	-	-	-	1.7/8X8	3500-HIT30	-	-
-	50X2.00	-	-	-	-	-	-	-	-	-	2X8	3500-HIT30	-	-



KEY LOCK INSERTS

MS51831F, MILITARY SPECIFICATION

Loksert solid keylocking inserts are an easy installation thread assembly that is ideal for replacing damaged or worn threads in almost all kinds of materials (ferrous, non-ferrous and non-metallic). They are constructed from high quality carbon steel or extremely hardwearing stainless steel. A Loksert insert is supplied with the dove-tailed locking keys pre-assembled. The pre-positioned keys automatically position the insert at the correct depth below the surface of the parent material. Lokserts are suitable for repairing and creating threads in a wide range of applications including forgings and castings and are especially suited to situations that experience heavy wear and vibration - such as mining, construction and earthmoving equipment.

Features and Benefits

- Solid bushing utilising locking keys provides positive mechanical lock against rotation.
- Installed using standard drills and taps.
- Simple installation - no special skills required.
- Suitable for use in a wide range of parent materials.
- Impossible to cross thread during installation.
- Simple removal process if required.
- No tang to break and remove.
- Available in metric sizes, inch sizes and spark plug sizes.
- Available in Thinwall and Heavy Duty.



M/MF Metric course and metric fine



UNC Unified National Course



UNF Unified National Fine



Keylocking insert



PD Thin wall insert



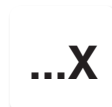
PR Heavy duty insert



AC Carbon steel insert



INOX Stainless steel insert



...X Group Code



Insert internal Thread



Insert external Thread



Pitch (mm)



Insert Length

KEY LOCK INSERTS

M
MF

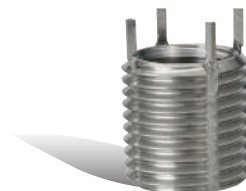
M/MF

UNC/UNF



PD

...TW



				AC			INOX		
				€			€		
M 5 x 0.80	8 x 1.25	8.00	6.90	3620-5.00TW	6,17		3720-5.00TW	13,46	
M 6 x 1.00	10 x 1.25	10.00	8.80	3620-6.00TW	6,57		3720-6.00TW	13,73	
M 8 x 1.00	12 x 1.25	12.00	10.80	3621-8.00TW	8,79		3721-8.00TW	14,63	
M 8 x 1.25	12 x 1.25	12.00	10.80	3620-8.00TW	7,40		3720-8.00TW	14,26	
M 10 x 1.25	14 x 1.50	14.00	12.80	3621-10.00TW	10,97		3721-10.00TW	16,79	
M 10 x 1.50	14 x 1.50	14.00	12.80	3620-10.00TW	10,87		3720-10.00TW	16,63	
M 12 x 1.25	16 x 1.50	16.00	14.75	3621-12.00TW	13,58		3721-12.00TW	21,44	
M 12 x 1.75	16 x 1.50	16.00	14.75	3620-12.00TW	13,35		3720-12.00TW	20,93	

				€			€		
UNC (J) N°10 - 24	5/16 x 18	7.87	6.90	3632-10GTW	4,63		3732-10GTW	11,64	
UNC (J) 1/4 - 20	3/8 x 16	9.40	8.40	3632-1/4TW	4,95		3732-1/4TW	12,78	
UNC (J) 5/16 - 18	7/16 x 14	10.92	10.10	3632-5/16TW	5,28		3732-5/16TW	14,23	
UNC (J) 3/8 - 16	1/2 x 13	12.70	11.50	3632-3/8TW	5,92		3732-3/8TW	14,63	
UNC (J) 7/16 - 14	9/16 x 12	14.22	13.00	3632-7/16TW	7,68		3732-7/16TW	17,79	
UNC (J) 1/2 - 13	5/8 x 11	15.75	14.75	3632-1/2TW	8,96		3732-1/2TW	20,52	

				€			€		
UNF (J) N°10 - 32	5/16 x 18	7.87	6.90	3634-10GTW	4,63		3734-10GTW	11,64	
UNF (J) 1/4 - 28	3/8 x 16	9.40	8.40	3634-1/4TW	4,95		3734-1/4TW	12,78	
UNF (J) 5/16 - 24	7/16 x 14	10.92	10.10	3634-5/16TW	5,28		3734-5/16TW	14,23	
UNF (J) 3/8 - 24	1/2 x 13	12.70	11.50	3634-3/8TW	5,92		3734-3/8TW	14,63	
UNF (J) 7/16 - 20	9/16 x 12	14.22	13.00	3634-7/16TW	7,68		3734-7/16TW	17,79	
UNF (J) 1/2 - 20	5/8 x 11	15.75	14.75	3634-1/2TW	8,96		3734-1/2TW	20,52	

1

Drill



2

Tap



3

Insert



4



KEY LOCK INSERTS



				AC	INOX		
				€	€	€	
				3620-4.00HD	11,68	3720-4.00HD	15,29
M 4 x 0.70	8 x 1.25	8.00	6.90				
M 5 x 0.80	10 x 1.25	10.00	8.80	3620-5.00HD	6,80	3720-5.00HD	16,47
M 6 x 1.00	12 x 1.25	12.00	10.80	3620-6.00HD	7,10	3720-6.00HD	16,61
M 8 x 1.00	14 x 1.50	14.00	12.80	3621-8.00HD	8,97	3721-8.00HD	17,41
M 8 x 1.25	14 x 1.50	14.00	12.80	3620-8.00HD	7,54	3720-8.00HD	17,41
M 10 x 1.25	16 x 1.50	16.00	14.75	3621-10.00HD	11,07	3721-10.00HD	20,15
M 10 x 1.50	16 x 1.50	16.00	14.75	3620-10.00HD	11,07	3720-10.00HD	19,80
M 12 x 1.25	18 x 1.50	18.00	16.75	3621-12.00HD	13,85	3721-12.00HD	21,86
M 12 x 1.75	18 x 1.50	18.00	16.75	3620-12.00HD	13,80	3720-12.00HD	21,86
M 14 x 1.50	20 x 1.50	20.00	18.75	3621-14.00HD	16,61	3721-14.00HD	25,00
M 14 x 2.00	20 x 1.50	20.00	18.75	3620-14.00HD	21,36	3720-14.00HD	30,71
M 16 x 1.50	22 x 1.50	22.00	20.50	3621-16.00HD	19,81	3721-16.00HD	28,23
M 16 x 2.00	22 x 1.50	22.00	20.50	3620-16.00HD	22,45	3720-16.00HD	33,86
M 18 x 1.50	24 x 1.50	24.00	22.50	3621-18.00HD	29,07	3721-18.00HD	43,61
M 20 x 1.50	30 x 2.00	30.00	28.00	3621-20.00HD	35,08	3721-20.00HD	51,73
M 20 x 2.50	30 x 2.00	30.00	28.00	3620-20.00HD	41,93	3720-20.00HD	62,40
M 22 x 1.50	32 x 2.00	32.00	30.00	3621-22.00HD	41,20	3721-22.00HD	61,79
M 24 x 2.00	33 x 2.00	33.00	31.00	3621-24.00HD	62,75	3721-24.00HD	94,12
M 24 x 3.00	33 x 2.00	33.00	31.00	3620-24.00HD	76,32	3720-24.00HD	113,58

Thin wall insert
 Heavy duty insert
 Carbon Steel insert
 Stainless steel insert



KEY LOCK INSERTS

UNC

UNF



...HD








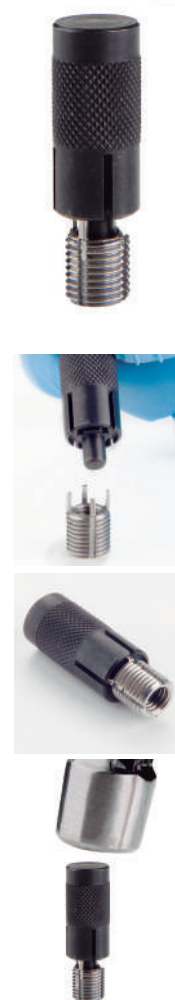
					AC	INOX		
					€	€		
UNC (J)	N°8 - 32	5/16x18	7.87	6.90	3632-8GHD	6,39	3732-8GHD	12,78
UNC (J)	N°10 - 24	3/8x16	7.87	8.40	3632-10GHD	4,63	3732-10GHD	11,64
UNC (J)	1/4 - 20	7/16x14	9.40	10.10	3632-1/4HD	4,95	3732-1/4HD	12,78
UNC (J)	5/16 - 18	1/2x13	10.92	11.50	3632-5/16HD	5,27	3732-5/16HD	14,31
UNC (J)	3/8 - 16	9/16x12	12.70	13.00	3632-3/8HD	5,91	3732-3/8HD	15,17
UNC (J)	7/16 - 14	5/8x11	15.75	14.75	3632-7/16HD	7,67	3732-7/16HD	22,04
UNC (J)	1/2 - 13	3/4x16	15.75	17.75	3632-1/2HD	8,96	3732-1/2HD	22,68
UNC (J)	9/16 - 12	3/4x16	20.57	17.75	3632-9/16HD	12,30	3732-9/16HD	24,02
UNC (J)	5/8 - 11	7/8x14	22.10	21.00	3632-5/8HD	14,23	3732-5/8HD	27,31
UNC (J)	3/4 - 10	1-1/8x12	28.45	27.00	3632-3/4HD	20,29	3732-3/4HD	35,55
UNC (J)	7/8 - 9	1-1/4x12	31.75	30.00	3632-7/8HD	26,36	3732-7/8HD	55,57
UNC (J)	1 - 8	1-3/8x12	34.80	33.25	3632-1HD	53,34	3732-1HD	112,01
UNC (J)	1.1/8 - 7	1-1/2x12	41.15	36.50	3632-1.1/8HD	255,80	3732-1.1/8HD	-
UNC (J)	1.1/4 - 7	1-5/8x12	45.97	39.50	3632-1.1/4HD	318,24	3732-1.1/4HD	-
UNC (J)	1.1/2 - 6	1-7/8x12	50.80	46.00	3632-1.1/2HD	552,27	3732-1.1/2HD	-


					€	€		
UNF (J)	N°10 - 32	3/8x16	7.87	8.40	3634-10GHD	4,63	3734-10GHD	11,64
UNF (J)	1/4 - 28	7/16x14	7.87	10.10	3634-1/4HD	4,95	3734-1/4HD	12,78
UNF (J)	5/16 - 24	1/2x13	9.40	11.50	3634-5/16HD	5,27	3734-5/16HD	14,31
UNF (J)	3/8 - 24	9/16x12	10.92	13.00	3634-3/8HD	5,91	3734-3/8HD	15,17
UNF (J)	7/16 - 20	5/8x11	12.70	14.75	3634-7/16HD	7,67	3734-7/16HD	22,04
UNF (J)	1/2 - 20	3/4x16	15.75	17.75	3634-1/2HD	8,96	3734-1/2HD	22,68
UNF (J)	9/16 - 18	3/4x16	15.75	17.75	3634-9/16HD	12,30	3734-9/16HD	24,02
UNF (J)	5/8 - 18	7/8x14	20.57	21.00	3634-5/8HD	14,23	3734-5/8HD	27,31
UNF (J)	3/4 - 16	1-1/8x12	22.10	27.00	3634-3/4HD	20,29	3734-3/4HD	35,55
UNF (J)	7/8 - 14	1-1/4x12	28.45	30.00	3634-7/8HD	26,36	3734-7/8HD	55,57
UNF (J)	1 - 12	1-3/8x12	31.75	33.25	3634-1HD	53,34	3734-1HD	112,01
UNF (J)	1 - 14	1-3/8x12	34.80	33.25	3635-1HD	96,81	3735-1HD	-
UNF (J)	1.1/8 - 12	1-1/2x12	41.15	36.50	3634-1.1/8HD	255,80	3734-1.1/8HD	-
UNF (J)	1.1/4 - 12	1-5/8x12	45.97	39.50	3634-1.1/4HD	318,24	3734-1.1/4HD	-
UNF (J)	1.1/2 - 12	1-7/8x12	45.97	46.00	3634-1.1/2HD	552,27	3734-1.1/2HD	-

INSTALLING TOOLS



	 PD	...TT	 PR	...HT	 PD	 PR	...T
		€		€			€
M 4	-	-	3600-4.00HT	98,32	-	-	-
M 5	3600-5.00TT	99,89	3600-5.00HT	99,89	3600-190T		55,81
M 6	3600-6.00TT	102,75	3600-6.00HT	102,75	3600-250T		51,12
M 8	3600-8.00TT	106,68	3600-8.00HT	106,68	3600-312T		61,30
M 10	3600-10.00TT	115,29	3600-10.00HT	115,29	3600-375T		61,30
M 12	3600-12.00TT	123,63	3600-12.00HT	123,63	3600-500T		67,02
M 14	-	-	3600-14.00HT	134,58	-		-
M 16	-	-	3600-16.00HT	139,27	3600-625T		67,02
M 18	-	-	3600-18.00HT	142,92	-		-
M 20	-	-	3600-20.00HT	148,40	3600-875T		79,02
M 22	-	-	3600-22.00HT	153,08	3600-875T		79,02
M 24	-	-	3600-24.00HT	169,27	3600-875T		79,02



		€		€		€
8G	-	-	3600-8GHT	117,39	-	-
10G	3600-10GTT	106,63	3600-10GHT	117,39	3600-190T	55,81
1/4	3600-1/4TT	110,41	3600-1/4HT	122,33	3600-250T	51,12
5/16	3600-5/16TT	122,33	3600-5/16HT	122,33	3600-312T	61,30
3/8	3600-3/8TT	139,35	3600-3/8HT	129,87	3600-375T	61,30
7/16	3600-7/16TT	128,72	3600-7/16HT	133,00	3600-375T	61,30
1/2	3600-1/2TT	133,00	3600-1/2HT	145,27	3600-500T	67,02
9/16	-	-	3600-9/16HT	145,27	3600-500T	67,02
5/8	-	-	3600-5/8HT	167,71	3600-625T	67,02
3/4	-	-	3600-3/4HT	194,04	3600-875T	79,02
7/8	-	-	3600-7/8HT	205,51	3600-875T	79,02
1	-	-	3600-1HT	203,96	3600-100T	79,02
1-1/8	-	-	3600-1.1/8HT	571,68	-	-
1-1/4	-	-	3600-1.1/4HT	618,10	-	-
1-1/2	-	-	3600-1.1/2HT	727,13	-	-



KEY LOCK INSERTS SETS


M 5 x 0.80	8.00 x 1.25	8.00	3620-5.00TWK	AC	INOX	5	6.9	M03M08X1,25	3600-190T	
				€	€					
M 6 x 1.00	10.00 x 1.25	10.00	3620-6.00TWK	194,76	3720-6.00TWK	226,30	5	8.8	M03M10X1,25	3600-250T
M 8 x 1.25	12.00 x 1.25	12.00	3620-8.00TWK	246,73	3720-8.00TWK	276,09	5	10.8	M03M12X1,25	3600-312T
M 10 x 1.50	14.00 x 1.50	14.00	3620-10.00TWK	306,75	3720-10.00TWK	327,25	5	12.8	M03M14X1,50	3600-375T
M 12 x 1.75	16.00 x 1.50	16.00	3620-12.00TWK	326,61	3720-12.00TWK	351,17	5	14.75	M03M16X1,50	3600-500T

MF 8 x 1.00	12.00 x 1.25	12.00	3621-8.00TWK <th>AC</th> <th>INOX</th> <th rowspan="2">5</th> <th rowspan="2">10.8</th> <th rowspan="2">M03M12X1,25</th> <th rowspan="2">3600-312T</th>	AC	INOX	5	10.8	M03M12X1,25	3600-312T	
				€	€					
MF 10 x 1.25	14.00 x 1.50	14.00	3621-10.00TWK	306,75	3721-10.00TWK	327,25	5	12.8	M03M14X1,50	3600-375T
MF 12 x 1.25	16.00 x 1.50	16.00	3621-12.00TWK	333,40	3721-12.00TWK	357,95	5	14.75	M03M16X1,50	3600-500T

UNC N°10 x 24	UNC 5/16 x 18	7,87	3632-10GTWK <th>AC</th> <th>INOX</th> <th rowspan="2">5</th> <th rowspan="2">6.90</th> <th rowspan="2">M03NC5/16X18</th> <th rowspan="2">3600-190T</th>	AC	INOX	5	6.90	M03NC5/16X18	3600-190T	
				€	€					
UNC 1/4 x 20	UNC 3/8 x 16	9,40	3632-1/4TWK	182,36	3732-1/4TWK	230,60	5	8.40	M03NC3/8X16	3600-250T
UNC 5/16 x 18	UNC 7/16 x 14	10,92	3632-5/16TWK	240,74	3732-5/16TWK	290,15	5	10.10	M03NC7/16X14	3600-312T
UNC 3/8 x 16	UNC 1/2 x 13	12,70	3632-3/8TWK	209,37	3732-3/8TWK	258,28	5	11.50	M03NC1/2X13	3600-375T
UNC 7/16 x 14	UNC 9/16 x 12	14,22	3632-7/16TWK	271,85	3732-7/16TWK	318,71	5	13.00	M03NC9/16X12	3600-375T
UNC 1/2 x 13	UNC 5/8 x 11	15,75	3632-1/2TWK	301,94	3732-1/2TWK	353,21	5	14.75	M03NC5/8X11	3600-500T

UNF N°10 x 32	UNC 5/16 x 18	7,87	3634-10GTWK <th>AC</th> <th>INOX</th> <th rowspan="2">5</th> <th rowspan="2">6.90</th> <th rowspan="2">M03NC5/16X18</th> <th rowspan="2">3600-190T</th>	AC	INOX	5	6.90	M03NC5/16X18	3600-190T	
				€	€					
UNF 1/4 x 28	UNC 3/8 x 16	9,40	3634-1/4TWK	182,36	3734-1/4TWK	230,60	5	8.40	M03NC3/8X16	3600-250T
UNF 5/16 x 24	UNC 7/16 x 14	10,92	3634-5/16TWK	244,27	3734-5/16TWK	293,67	5	10.10	M03NC7/16X14	3600-312T
UNF 3/8 x 24	UNC 1/2 x 13	12,70	3634-3/8TWK	209,37	3734-3/8TWK	258,28	5	11.50	M03NC1/2X13	3600-375T
UNF 7/16 x 20	UNC 9/16 x 12	14,22	3634-7/16TWK	271,85	3734-7/16TWK	318,71	5	13.00	M03NC9/16X12	3600-375T
UNF 1/2 x 20	UNC 5/8 x 11	15,75	3634-1/2TWK	301,94	3734-1/2TWK	353,21	5	14.75	M03NC5/8X11	3600-500T

KEY LOCK INSERTS SETS

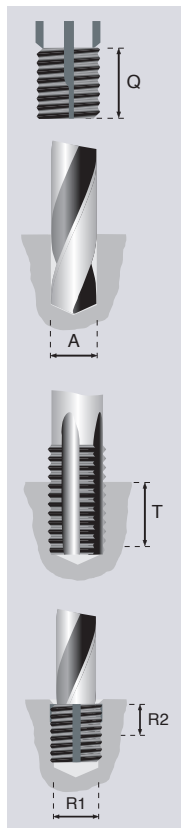
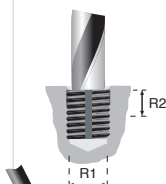


Diagram			AC	INOX	mm	mm	mm	mm		
Diagram			€	€	mm	mm	mm	mm		
M 5 x 0.80	10.00 x 1.25	10.00	3620-5.00HDK	202,47	3720-5.00HDK	249,34	5	8.80	M03M10X1,25	3600-190T
M 6 x 1.00	12.00 x 1.25	12.00	3620-6.00HDK	239,51	3720-6.00HDK	289,17	5	10.80	M03M12X1,25	3600-250T
M 8 x 1.25	14.00 x 1.50	14.00	3620-8.00HDK	301,70	3720-8.00HDK	352,50	5	12.80	M03M14X1,25	3600-312T
M 10 x 1.50	16.00 x 1.50	16.00	3620-10.00HDK	329,94	3720-10.00HDK	375,12	5	14.75	M03M16X1,50	3600-375T
M 12 x 1.75	18.00 x 1.50	18.00	3620-12.00HDK	487,18	3720-12.00HDK	522,74	5	16.75	M03M18X1,50	3600-500T
M 16 x 2.00	22.00 x 1.50	22.00	3620-16.00HDK	654,47	3720-16.00HDK	684,03	5	20.50	M03M22X1,50	3600-625T

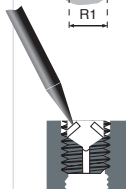
Diagram			AC	INOX	mm	mm	mm	mm		
Diagram			€	€	mm	mm	mm	mm		
M 8 x 1.00	14.00 x 1.50	14.00	3621-8.00HDK	301,70	3721-8.00HDK	352,50	5	12.80	M03M14X1,50	3600-312T
M 10 x 1.25	16.00 x 1.50	16.00	3621-10.00HDK	329,94	3721-10.00HDK	375,12	5	14.75	M03M16X1,50	3600-375T
M 12 x 1.25	18.00 x 1.50	18.00	3621-12.00HDK	487,18	3721-12.00HDK	522,74	5	16.75	M03M18X1,50	3600-500T
M 16 x 1.50	22.00 x 1.50	22.00	3621-16.00HDK	654,47	3721-16.00HDK	684,03	5	20.50	M03M22X1,50	3600-625T

Diagram			AC	INOX	mm	mm	mm	mm		
Diagram			€	€	mm	mm	mm	mm		
UNC N°10 x 24	UNC 3/8 x 16	7.87	3632-10GHDK	191,71	3732-10GHDK	253,63	5	8.40	M03NC3/8X16	3600-190T
UNC 1/4 x 20	UNC 7/16 x 14	9.40	3632-1/4HDK	236,82	3732-1/4HDK	303,18	5	10.10	M03NC7/16X14	3600-250T
UNC 5/16 x 18	UNC 1/2 x 13	10.92	3632-5/16HDK	212,71	3732-5/16HDK	283,52	5	11.50	M03NC1/2X13	3600-312T
UNC 3/8 x 16	UNC 9/16 x 12	12.70	3632-3/8HDK	275,05	3732-3/8HDK	348,64	5	13.00	M03NC9/16X12	3600-375T
UNC 7/16x14	UNC 5/8 x 11	14.22	3632-7/16HDK	263,42	3732-7/16HDK	283,29	5	14.75	M03NC5/8X11	3600-375T
UNC 1/2x13	UNF 3/4 x 16	15.75	3632-1/2HDK	400,76	3732-1/2HDK	431,01	5	17.75	M03NF3/4X16	3600-500T
UNC 9/16x12	UNF 3/4 x 16	20.57	3632-9/16HDK	400,76	3732-9/16HDK	431,01	5	17.75	M03NF3/4X16	3600-500T
UNC 5/8x11	UNF 7/8 x 14	22.10	3632-5/8HDK	541,96	3732-5/8HDK	601,61	5	21.00	M03NF7/8X14	3600-625T

Diagram			AC	INOX	mm	mm	mm	mm		
Diagram			€	€	mm	mm	mm	mm		
UNF N°10 x 32	UNC 3/8 x 16	7.87	3634-10GHDK	191,71	3734-10GHDK	253,63	5	8.40	M03NC3/8X16	3600-190T
UNF 1/4 x 28	UNC 7/16 x 14	9.40	3634-1/4HDK	236,82	3734-1/4HDK	303,18	5	10.10	M03NC7/16X14	3600-250T
UNF 5/16 x 24	UNC 1/2 x 13	10.92	3634-5/16HDK	212,71	3734-5/16HDK	283,52	5	11.50	M03NC1/2X13	3600-312T
UNF 3/8 x 24	UNC 9/16 x 12	12.70	3634-3/8HDK	275,05	3734-3/8HDK	348,64	5	13.00	M03NC9/16X12	3600-375T
UNF 7/16 x 20	UNC 5/8 x 11	14.22	3634-7/16HDK	306,84	3734-7/16HDK	374,44	5	14.75	M03NC5/8X11	3600-375T
UNF 1/2 x 20	UNF 3/4 x 16	15.75	3634-1/2HDK	452,51	3734-1/2HDK	514,84	5	17.75	M03NF3/4X16	3600-500T
UNF 9/16 x 18	UNF 3/4 x 16	20.57	3634-9/16HDK	470,90	3734-9/16HDK	529,07	5	17.75	M03NF3/4X16	3600-500T
UNF 5/8 x 18	UNF 7/8 x 14	22.10	3634-5/8HDK	541,96	3734-5/8HDK	601,61	5	21.00	M03NF7/8X14	3600-625T


REMOVAL

1
Drilling

Drill out the material between the locking keys and the internal thread to the specified depth. Note: Drill size and drilling depth are shown in the Loksert technical tables.


2
Deflect

Deflect locking keys inward and break off.


3
Remove

Remove the insert from the hole by winding it out using a screw extractor or similar type tool.


4
Instal

A new Loksert insert of exactly the same size can be installed in the original hole.


Internal Thread External Thread

Internal Thread				External Thread		Tap			
Tol 6H mm	Tol 6G mm	Q mm	Hta de Instalación	A mm	Tol 6H mm	T Min. mm	R1 mm	R2 mm	
THIN WALL									
M 5 X 0.8	M8 X 1.25	8.0	3600-190T	6.9	M8 X 1.25	9.5	5.50	4.00	
M 6 X 1.0	M10 X 1.25	10.0	3600-250T	8.8	M10 X 1.25	11.5	7.50	4.75	
M 8 X 1.25	M12 X 1.25	12.0	3600-312T	10.8	M12 X 1.25	13.5	9.50	4.75	
M 8 X 1.0	M12 X 1.25	12.0	3600-312T	10.8	M12 X 1.25	13.5	9.50	4.75	
M 10 X 1.5	M14 X 1.5	14.0	3600-375T	12.8	M14 X 1.5	15.5	11.50	4.75	
M 10 X 1.25	M14 X 1.5	14.0	3600-375T	12.8	M14 X 1.5	15.5	11.50	4.75	
M 12 X 1.75	M16 X 1.5	16.0	3600-500T	14.75	M16 X 1.5	17.5	13.50	4.75	
M 12 X 1.25	M16 X 1.5	16.0	3600-500T	14.75	M16 X 1.5	17.5	13.50	4.75	

HEAVY DUTY

M 4 X 0.7	M8 X 1.25	8.0	3600-4.00HT	6.9	M8 X 1.25	9.5	5.50	4.00
M 5 X 0.8	M10 X 1.25	10.0	3600-190T	8.8	M10 X 1.25	12.5	7.50	4.75
M 6 X 1.0	M12 X 1.25	12.0	3600-250T	10.8	M12 X 1.25	14.5	9.50	4.75
M 8 X 1.25	M14 X 1.5	14.0	3600-312T	12.8	M14 X 1.5	16.5	11.50	4.75
M 8 X 1.0	M14 X 1.5	14.0	3600-312T	12.8	M14 X 1.5	16.5	11.50	4.75
M 10 X 1.5	M16 X 1.5	16.0	3600-375T	14.75	M16 X 1.5	18.5	13.50	4.75
M 10 X 1.25	M16 X 1.5	16.0	3600-375T	14.75	M16 X 1.5	18.5	13.50	4.75
M 12 X 1.75	M18 X 1.5	18.0	3600-500T	16.75	M18 X 1.5	20.5	15.50	4.75
M 12 X 1.25	M18 X 1.5	18.0	3600-500T	16.75	M18 X 1.5	20.5	15.50	4.75
M 14 X 2.0	M20 X 1.5	20.0	3600-14.00HT	18.75	M20 X 1.5	22.5	17.50	4.75
M 14 X 1.5	M20 X 1.5	20.0	3600-14.00HT	18.75	M20 X 1.5	22.5	17.50	4.75
M 16 X 2.0	M22 X 1.5	22.0	3600-625T	20.5	M22 X 1.5	24.5	17.75	6.35
M 16 X 1.5	M22 X 1.5	22.0	3600-625T	20.5	M22 X 1.5	24.5	17.75	6.35
M 18 X 1.5	M24 X 1.5	24.0	3600-18.00HT	22.5	M24 X 1.5	26.5	19.75	6.35
M 20 X 2.5	M30 X 2.0	30.0	3600-875T	28.0	M30 X 2.0	34.5	25.75	6.35
M 20 X 1.5	M30 X 2.0	30.0	3600-875T	28.0	M30 X 2.0	34.5	25.75	6.35
M 22 X 1.5	M32 X 2.0	32.0	3600-22.00HT	30.0	M32 X 2.0	36.5	27.75	6.35
M 24 X 3.0	M33 X 2.0	33.0	3600-24.00HT	31.0	M33 X 2.0	37.5	28.75	6.35
M 24 X 2.0	M33 X 2.0	33.0	3600-24.00HT	31.0	M33 X 2.0	37.5	28.75	6.35

THIN WALL

Tol 6H mm	Tol 6G mm	Q mm	Hta de Instalación	A mm	Tol 2B "	T Min. mm	R1 mm	R2 mm	
THIN WALL									
Nº10 X 24	5/16 X 18	7.87	3600-190T	6.90	UNC 5/16X18	9.40	5.56	3.20	
Nº10 X 32	5/16 X 18	7.87	3600-190T	6.90	UNC 5/16X18	9.40	5.56	3.20	
1/4 X 20	3/8 X 16	9.40	3600-250T	8.40	UNC 3/8X16	10.92	7.14	4.75	
1/4 X 28	3/8 X 16	9.40	3600-250T	8.40	UNC 3/8X16	10.92	7.14	4.75	
5/16 X 18	7/16 X 14	10.92	3600-312T	10.10	UNC 7/16X14	12.70	8.73	4.75	
5/16 X 24	7/16 X 14	10.92	3600-312T	10.10	UNC 7/16X14	12.70	8.73	4.75	
3/8 X 16	1/2 X 13	12.70	3600-375T	11.50	UNC 1/2X13	14.22	10.32	4.75	
3/8 X 24	1/2 X 13	12.70	3600-375T	11.50	UNC 1/2X13	14.22	10.32	4.75	
7/16 X 14	9/16 X 12	14.22	3600-375T	13.10	UNC 9/16X12	15.75	11.91	4.75	
7/16 X 20	9/16 X 12	14.22	3600-375T	13.10	UNC 9/16X12	15.75	11.91	4.75	
1/2 X 13	5/8 X 11	15.75	3600-500T	14.75	UNC 5/8X11	17.27	13.49	4.75	
1/2 X 20	5/8 X 11	15.75	3600-500T	14.75	UNC 5/8X11	17.27	13.49	4.75	

HEAVY DUTY

HEAVY DUTY									
Nº8 X 32	5/16 X 18	7.87	3600-8GHT	6.90	UNC 5/16X18	9.40	5.56	3.20	
Nº10 X 24	3/8 X 16	7.87	3600-190T	8.40	UNC 3/8X16	9.40	7.14	3.20	
Nº10 X 32	3/8 X 16	7.87	3600-190T	8.40	UNC 3/8X16	9.40	7.14	3.20	
1/4 X 20	7/16 X 14	9.40	3600-250T	10.10	UNC 7/16X14	10.92	8.73	4.75	
1/4 X 28	7/16 X 14	9.40	3600-250T	10.10	UNC 7/16X14	10.92	8.73	4.75	
5/16 X 18	1/2 X 13	10.92	3600-312T	11.50	UNC 1/2X13	12.70	10.32	4.75	
5/16 X 24	1/2 X 13	10.92	3600-312T	11.50	UNC 1/2X13	12.70	10.32	4.75	
3/8 X 16	9/16 X 12	12.70	3600-375T	13.10	UNC 9/16X12	14.22	11.91	4.75	
3/8 X 24	9/16 X 12	12.70	3600-375T	13.10	UNC 9/16X12	14.22	11.91	4.75	
7/16 X 14	5/8 X 11	15.75	3600-375T	14.75	UNC 5/8X11	17.27	13.49	4.75	
7/16 X 20	5/8 X 11	15.75	3600-375T	14.75	UNC 5/8X11	17.27	13.49	4.75	
1/2 X 13	3/4 X 16	15.75	3600-500T	17.50	UNF 3/4X16	17.27	16.67	4.75	
1/2 X 20	3/4 X 16	15.75	3600-500T	17.50	UNF 3/4X16	17.27	16.67	4.75	
9/16 X 12	3/4 X 16	20.57	3600-500T	17.50	UNF 3/4X16	23.88	16.67	4.75	
9/16 X 18	3/4 X 16	20.57	3600-500T	17.50	UNF 3/4X16	23.88	16.67	4.75	
5/8 X 11	7/8 X 14	22.10	3600-625T	21.00	UNF 7/8X14	25.40	19.84	7.90	
5/8 X 18	7/8 X 14	22.10	3600-625T	21.00	UNF 7/8X14	25.40	19.84	7.90	
3/4 X 10	1-1/8 X 12	28.45	3600-875T	27.00	UNF 1-1/8X12	33.27	24.61	7.90	
3/4 X 16	1-1/8 X 12	28.45	3600-875T	27.00	UNF 1-1/8X12	33.27	24.61	7.90	
7/8 X 9	1-1/4 X 12	31.75	3600-875T	30.00	UNF 1-1/4X12	36.58	27.75	7.90	
7/8 X 14	1-1/4 X 12	31.75	3600-875T	30.00	UNF 1-1/4X12	36.58	27.75	7.90	
1 X 8	1-3/8 X 12	34.80	3600-100T	33.25	UNF 1-3/8X12	39.62	31	7.90	
1 X 12	1-3/8 X 12	34.80	3600-100T	33.25	UNF 1-3/8X12	39.62	31	7.90	
1 X 14	1-3/8 X 12	34.80	3600-100T	33.25	UNF 1-3/8X12	39.62	31	7.90	
1-1/8 X 7	1-1/2 X 12	41.15	3600-1.1/8HT	36.50	UNF 1-1/2X12	46.74	34	7.90	
1-1/8 X 12	1-1/2 X 12	41.15	3600-1.1/8HT	36.50	UNF 1-1/2X12	46.74	34	7.90	
1-1/4 X 7	1-5/8 X 12	45.97	3600-1.1/4HT	39.75	UNF 1-5/8X12	52.32	37.25	7.90	
1-1/4 X 12	1-5/8 X 12	45.97	3600-1.1/4HT	39.75	UNF 1-5/8X12	52.32	37.25	7.90	
1-1/2 X 6	1-7/8 X 12	50.80	3600-1.1/2HT	46.00	UNF 1-7/8X12	57.91	43.50	7.90	
1-1/2 X 12	1-7/8 X 12	50.80	3600-1.1/2HT	46.00	UNF 1-7/8X12	57.91	43.50	7.90	

THIN WALL & HEAVY DUTY

Insert Material	Carbon Steel – C1215. Stainless Steel – AISI 303	Nº Keys	Inserts with internal thread of 5/16" (M7) or larger have 4 locking keys. Smaller sizes have 2 keys.	
Keys	AISI 302			
Tolerances	Carbon Steel - Zinc Phosphate; Stainless Steel – Passivated	Tap Drill Hole	6.90 - 10.80 = +0.100 / -0.025	+12.80 = +0.130 / -0.025

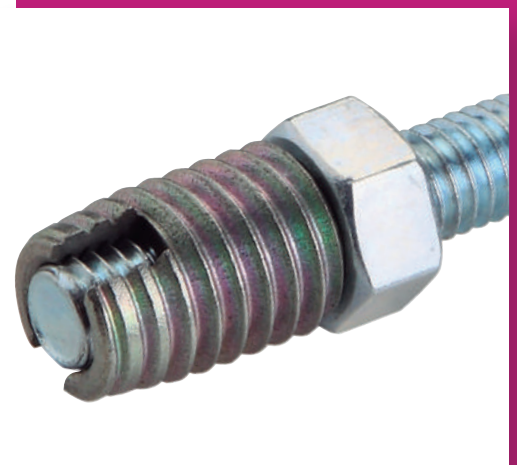


SELF TAPPING INSERTS

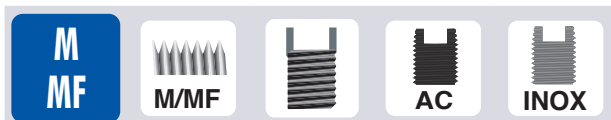
TAPSERTS are self cutting threaded inserts that feature both external and internal threads. They are driven into a pre-formed or pre-drilled retaining hole and the cutting slots (or cutting bores) effectively tap the hole as the insert is wound into the parent material. TAPSERTS are ideal for use in low shear strength materials (such as alloys, plastics and castings) which require threaded seats with high load capacity and wear resistance.

Features and Advantages

- Easy to install by using a bolt in prior hole made by standard drill.
Thread the insert on to the bolt ensuring the slot side is down.
- The use of threads when installing is not needed. The insert taps the hole.
- Suitable to resist high compression and tensile loads.
- Extremely high tightening torques are allowed in soft materials as plastic, wood, aluminium.
- The pitch tolerance is conserved despite multiple uses, low wear.



**Thread the Tapsert on to the bolt ensuring the slot side is down.
Thread the nut down the bolt until it sits firmly against the top of the Tapsert.**

SELF TAPPING INSERTS WITH CUTTING SLOT


AC 302



INOX 302



Diagram	Diagram	mm	Ø	L	AC	€			INOX	AISI 303	€		
						100-499	500-1999	2000-...			25-499	500-1999	2000-...
M 2.50 x 0.45	M 4.50 x 0.50	6.00	4.30	8.00	3920-2.5X6	0,48	0,44	0,40	3920-2.5X6SS	0,83	0,79	0,70	
M 3 x 0.50	M 5 x 0.50	6.00	4.80	8.00	3920-3X6	0,49	0,45	0,42	3920-3X6SS	0,84	0,80	0,71	
M 4 x 0.70	M 6.50 x 0.75	8.00	6.20	10.00	3920-4X8	0,51	0,49	0,46	3920-4X8SS	1,12	1,07	0,96	
M 5 x 0.80	M 8 x 1.00	10.00	7.60	13.00	3920-5X10	0,64	0,61	0,57	3920-5X10SS	1,46	1,39	1,25	
M 6 x 1.00	M 10 x 1.50	14.00	9.40	17.00	3920-6X14	0,82	0,78	0,70	3920-6X14SS	1,81	1,71	1,54	
M 8 x 1.25	M 12 x 1.50	15.00	11.40	18.00	3920-8X15	1,00	0,95	0,86	3920-8X15SS	2,28	2,14	1,94	
M 10 x 1.50	M 14 x 1.50	18.00	13.50	22.00	3920-10X18	1,45	1,38	1,25	3920-10X18SS	3,33	3,14	2,84	
						25-499	500-1999	2000-...		1-499	500-1999	2000-...	
M 12 x 1.75	M 16 x 1.50	22.00	15.50	26.00	3920-12X22	2,28	2,14	1,96	3920-12X22SS	4,49	4,22	3,81	
M 14 x 2.00	M 18 x 1.50	24.00	17.50	28.00	3920-14X24	3,10	2,92	2,67	3920-14X24SS	5,90	5,55	5,00	
M 16 x 2.00	M 20 x 1.50	22.00	19.50	26.00	3920-16X22	4,16	3,79	3,44	3920-16X22SS	7,23	6,59	5,94	
						5-499	500-1999	2000-...		1-499	500-1999	2000-...	
M 18 x 2.50	M 22 x 1.50	24.00	21.50	29.00	3920-18X24	6,25	5,68	5,19	3920-18X24SS	7,93	7,22	6,51	
M 20 x 2.50	M 26 x 1.50	27.00	25.50	32.00	3920-20X26	7,02	6,41	5,83	3920-20X26SS	9,15	8,34	7,51	
M 22 x 2.50	M 26 x 1.50	30.00	25.50	36.00	3920-22X30	8,37	7,61	6,93	3920-22X30SS	10,16	9,26	8,34	
M 24 x 3.00	M 30 x 1.50	30.00	29.50	36.00	3920-24X30	10,34	9,44	8,59	3920-24X30SS	11,62	10,58	9,53	



3920-6X14P

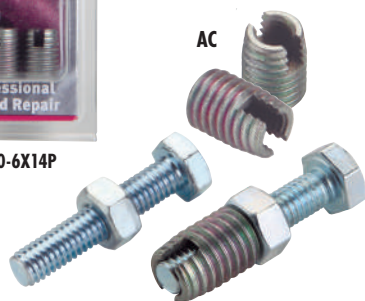


Diagram	Diagram	mm	Ø	L	AC	€	AC
M 2.50 x 0.45	M 4.50 x 0.50	6.00	4.30*	8.00	3920-2.5X6P	11,72	2
M 3 x 0.50	M 5 x 0.50	6.00	4.80*	8.00	3920-3X6P	11,72	2
M 4 x 0.70	M 6.50 x 0.75	8.00	6.20*	10.00	3920-4X8P	10,65	2
M 5 x 0.80	M 8 x 1.00	10.00	7.60*	13.00	3920-5X10P	10,65	2
M 6 x 1.00	M 10 x 1.50	14.00	9.40*	17.00	3920-6X14P	10,65	2
M 8 x 1.25	M 12 x 1.50	15.00	11.40*	18.00	3920-8X15P	11,72	2
M 10 x 1.50	M 14 x 1.50	18.00	13.50*	22.00	3920-10X18P	12,78	2
M 12 x 1.75	M 16 x 1.50	22.00	15.50*	26.00	3920-12X22P	14,90	2
M 14 x 2.00	M 18 x 1.50	24.00	17.50*	28.00	3920-14X24P	15,58	2
M 16 x 2.00	M 20 x 1.50	22.00	19.50*	26.00	3920-16X22P	22,35	2

* Prior drill not included in kit.

SELF TAPPING INSERTS WITH CUTTING SLOT



BRASS 302



INOX AISI 316L



M 3 x 0.50	M 5 x 0.50	6.00	4.80	8.00	3920-3X6LAT	€			INOX AISI 316L	€		
						100-499	500-1999	2000-...		25-499	500-1999	2000-...
M 4 x 0.70	M 6.5 x 0.75	8.00	6.20	10.00	3920-4X8LAT	0,48	0,46	0,42	-			
M 5 x 0.80	M 8 x 1.00	10.00	7.60	13.00	3920-5X10LAT	0,55	0,51	0,48	3920-4X8DY	1,46	1,39	1,25
M 6 x 1.00	M 10 x 1.50	14.00	9.40	17.00	3920-6X14LAT	0,68	0,64	0,59	3920-5X10DY	1,90	1,79	1,62
M 8 x 1.25	M 12 x 1.50	15.00	11.40	18.00	3920-8X15LAT	0,86	0,82	0,76	3920-6X14DY	2,35	2,22	2,00
M 10 x 1.50	M 14 x 1.50	18.00	13.50	22.00	3920-10X18LAT	1,17	1,09	1,00	3920-8X15DY	3,23	3,05	2,75
						2,06	1,94	1,77	-			
						25-499	500-1999	2000-...		1-499	500-1999	2000-...
M 12 x 1.75	M 16 x 1.50	22.00	15.50	26.00	3920-12X22LAT	2,64	2,49	2,27				

APPLICATIONS

- Hard Wood
- Soft Wood
- Soft Thermoplastic
- Composite materials

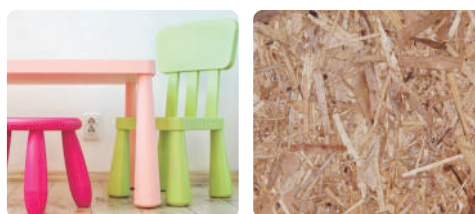


BRASS 309

M 3 x 0.50	M 5.5 x 1.60	6.00	SOFT		9.00	3925-3X6	€		
			4.10	4.20-4.30			100-499	500-1999	2000-...
M 4 x 0.70	M 7 x 2.50	10.00	5.10	5.20-5.30	13.00	3925-4X10	0,88	0,83	0,79
M 5 x 0.80	M 9 x 3.00	12.00	6.60	6.70-6.90	15.00	3925-5X12	1,19	1,13	1,07
M 6 x 1.00	M 10 x 4.00	14.00	7.60	7.70-7.90	17.00	3925-6X14	1,37	1,30	1,24
M 8 x 1.25	M 13 x 4.00	20.00	9.90	10.10-10.30	23.00	3925-8X20	1,52	1,45	1,38
M 10 x 1.50	M 16 x 5.00	23.00	12.40	12.60-12.80	26.00	3925-10X23	2,08	1,97	1,88
							3,11	2,95	2,80
							25-499	500-1999	2000-...
M 12 x 1.75	M 19 x 5.00	26.00	15.40	15.60-15.80	30.00	3925-12X26	5,20	4,94	4,68

Hard Material

Soft Material



SELF TAPPING INSERTS WITH CUTTING SLOT

UNC



AC 302



INOX 302



UNC		M		mm	Ø	L	AC	€	INOX AISI 303	€
UNC	N°4 x 40	M 5 x 0.50	6.00	4.80	8.00		3932-4GX6	1,34	3932-4GX6SS	2,47
UNC	N°6 x 32	M 6 x 0.75	8.00	5.70	10.00		3932-6GX8	1,72	3932-6GX8SS	3,22
UNC	N°8 x 32	M 6.50 x 0.75	8.00	6.20	10.00		3932-8GX8	2,32	3932-8GX8SS	4,19
UNC	N°10 x 24	M 8 x 1.00	10.00	7.60	13.00		3932-10GX10	2,63	3932-10GX10SS	4,87
UNC	1/4 x 20	M 10 x 1.50	14.00	9.40	17.00		3932-1/4X14	3,22	3932-1/4X14SS	6,22
UNC	5/16 x 18	M 12 x 1.50	15.00	11.40	18.00		3932-5/16X15	4,19	3932-5/16X15SS	8,24
UNC	3/8 x 16	M 14 x 1.50	18.00	13.50	22.00		3932-3/8X18	5,92	3932-3/8X18SS	11,76
UNC	7/16 x 14	M 16 x 1.50	22.00	15.50	26.00		3932-7/16X22	8,68	3932-7/16X22SS	17,16
UNC	1/2 x 13	M 18 x 1.50	22.00	17.50	26.00		3932-1/2X22	10,93	3932-1/2X22SS	22,85
UNC	5/8 x 11	M 20 x 1.50	22.00	19.50	26.00		3932-5/8X22	12,51	3932-5/8X22SS	22,85

UNF



AC 302

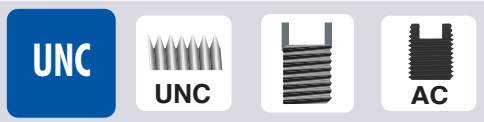


INOX 302



UNF		M		mm	Ø	L	AC	€	INOX AISI 303	€
UNF	N°10 x 32	M 8 x 1.00	10.00	7.60	13.00		3934-10GX10	2,63	3934-10GX10SS	4,87
UNF	1/4 x 28	M 10 x 1.50	14.00	9.40	17.00		3934-1/4X14	3,22	3934-1/4X14SS	6,22
UNF	5/16 x 24	M 12 x 1.50	15.00	11.40	18.00		3934-5/16X15	4,19	3934-5/16X15SS	8,24
UNF	3/8 x 24	M 14 x 1.50	18.00	13.50	22.00		3934-3/8X18	5,92	3934-3/8X18SS	11,76
UNF	7/16 x 20	M 16 x 1.50	22.00	15.50	26.00		3934-7/16X22	8,68	3934-7/16X22SS	17,16
UNF	1/2 x 20	M 18 x 1.50	22.00	17.50	26.00		3934-1/2X22	10,93	3934-1/2X22SS	22,85
UNF	5/8 x 18	M 20 x 1.50	22.00	19.50	26.00		3934-5/8X22	12,51	3934-5/8X22SS	22,85

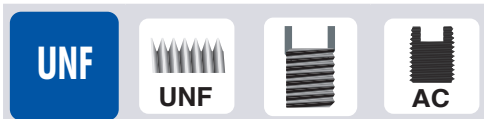
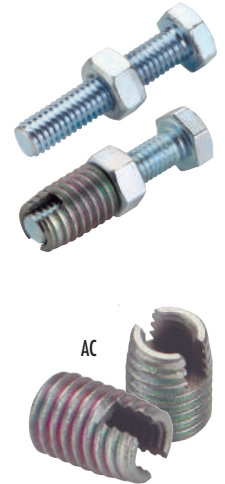
SELF TAPPING INSERTS WITH CUTTING SLOT



						€	
UNC N°4 x 40	M 5 x 0.50	6.00	4.80*	8.00	3932-4GX6P	22,85	2
UNC N°6 x 32	M 6 x 0.75	8.00	5.70*	10.00	3932-6GX8P	22,85	2
UNC N°8 x 32	M 6.50 x 0.75	8.00	6.20*	10.00	3932-8GX8P	22,85	2
UNC N°10 x 24	M 8 x 1.00	10.00	7.60*	13.00	3932-10GX10P	22,85	2
UNC 1/4 x 20	M 10 x 1.50	14.00	9.40*	17.00	3932-1/4X14P	25,85	2
UNC 5/16 x 18	M 12 x 1.50	15.00	11.40*	18.00	3932-5/16X15P	28,42	2
UNC 3/8 x 16	M 14 x 1.50	18.00	13.50*	22.00	3932-3/8X18P	31,00	2
UNC 7/16 x 14	M 16 x 1.50	22.00	15.50*	26.00	3932-7/16X22P	33,57	2
UNC 1/2 x 13	M 18 x 1.50	24.00	17.50*	26.00	3932-1/2X22P	36,14	2
UNC 5/8 x 11	M 20 x 1.50	22.00	19.50*	26.00	3932-5/8X22P	40,30	2



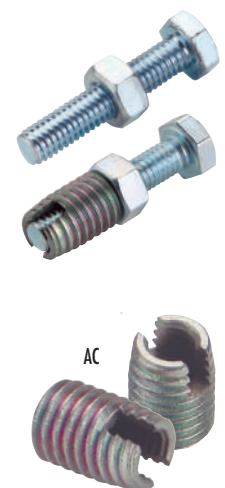
3932-4GX6P



						€	
UNF N°10 x 32	M 8 x 1.00	10.00	7.60*	13.00	3934-10GX10P	22,85	2
UNF 1/4 x 28	M 10 x 1.50	14.00	9.40*	17.00	3934-1/4X14P	25,85	2
UNF 5/16 x 24	M 12 x 1.50	15.00	11.40*	18.00	3934-5/16X15P	28,42	2
UNF 3/8 x 24	M 14 x 1.50	18.00	13.50*	22.00	3934-3/8X18P	31,00	2
UNF 7/16 x 20	M 16 x 1.50	22.00	15.50*	26.00	3934-7/16X22P	33,57	2
UNF 1/2 x 20	M 18 x 1.50	22.00	17.50*	26.00	3934-1/2X22P	36,14	2
UNF 5/8 x 18	M 20 x 1.50	22.00	19.50*	26.00	3934-5/8X22P	40,30	2

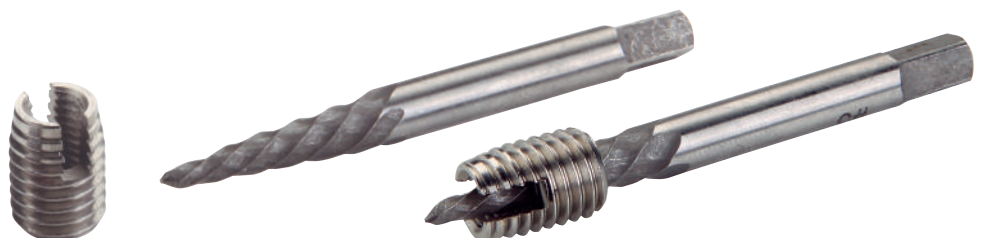


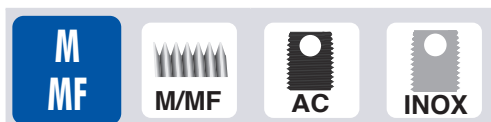
3934-1/4X14P



* Prior drill not included in kit.

REMOVAL



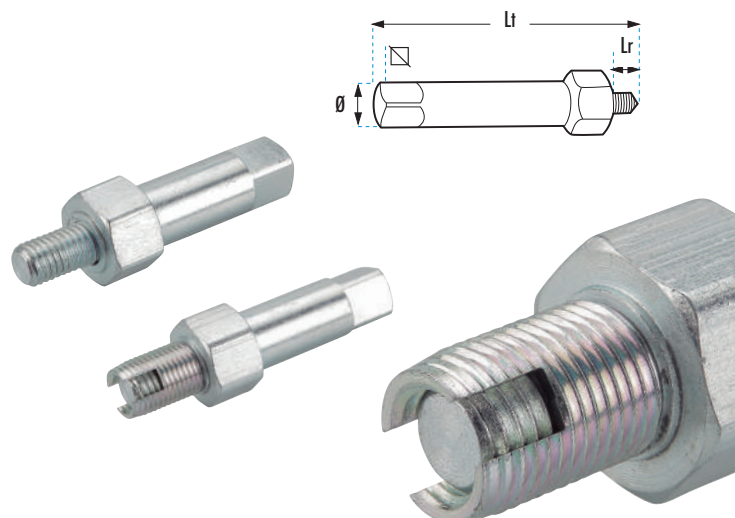
SELF TAPPING INSERTS WITH 3 CUTTING BORES


					€			INOX AISI 303			€		
		307			AC			AISI 303			25-499		
		Ø			L			25-499			500-1999		
		L			AC			2000-...			2000-...		
M 4 x 0.70	M 6.50 x 0.80	6.00	6.00-6.10	8.00	3333-M4X6	0,76	0,72	0,66	3333-M4X6SS	1,26	1,19	1,09	
M 5 x 0.80	M 8 x 1.00	7.00	7.40-7.50	9.00	3333-M5X7	0,89	0,85	0,78	3333-M5X7SS	1,55	1,47	1,34	
M 6 x 1.00	M 10 x 1.25	8.00	9.30-9.40	10.00	3333-M6X8	1,03	0,97	0,89	3333-M6X8SS	1,94	1,83	1,67	
M 8 x 1.25	M 12 x 1.50	9.00	11.10-11.20	11.00	3333-M8X9	1,23	1,16	1,07	3333-M8X9SS	2,47	2,34	2,12	
M 10 x 1.50	M 14 x 1.50	10.00	13.10-13.20	13.00	3333-M10X10	1,82	1,72	1,56	3333-M10X10SS	3,72	3,50	3,19	
M 12 x 1.75	M 16 x 1.75	12.00	15.00-15.10	15.00	3333-M12X12	2,87	2,70	2,46	3333-M12X12SS	5,95	5,61	5,10	
M 14 x 2.00	M 18 x 2.00	14.00	17.00-17.10	17.00	3333-M14X14	3,74	3,52	3,20	3333-M14X14SS	6,84	6,43	5,85	
M 16 x 2.00	M 20 x 2.00	14.00	19.00-19.10	17.00	3333-M16X14	5,08	4,78	4,36	3333-M16X14SS	9,22	8,67	7,90	

					€			INOX AISI 303			€		
		308			AC			AISI 303			25-499		
		Ø			L			25-499			500-1999		
		L			AC			2000-...			2000-...		
M 4 x 0.70	M 6.50 x 0.80	8.00	6.10-6.20	10.00	3333-M4X8	0,84	0,79	0,72	3333-M4X8SS	1,42	1,33	1,22	
M 5 x 0.80	M 8 x 1.00	10.00	7.60-7.70	13.00	3333-M5X10	1,06	1,01	0,92	3333-M5X10SS	1,79	1,69	1,54	
M 6 x 1.00	M 10 x 1.25	12.00	9.50-9.60	15.00	3333-M6X12	1,34	1,27	1,17	3333-M6X12SS	2,13	2,03	1,84	
M 8 x 1.25	M 12 x 1.50	14.00	11.30-11.15	17.00	3333-M8X14	1,73	1,64	1,50	3333-M8X14SS	2,79	2,63	2,39	
M 10 x 1.50	M 14 x 1.50	18.00	13.30-13.50	22.00	3333-M10X18	2,50	2,34	2,15	3333-M10X18SS	4,24	4,00	3,64	
M 12 x 1.75	M 16 x 1.75	22.00	15.20-15.40	26.00	3333-M12X22	3,78	3,56	3,24	3333-M12X22SS	9,12	8,58	7,82	
M 14 x 2.00	M 18 x 2.00	24.00	17.20-17.40	28.00	3333-M14X24	5,43	5,11	4,65	3333-M14X24SS	10,80	10,16	9,26	
M 16 x 2.00	M 20 x 2.00	24.00	19.20-19.10	28.00	3333-M16X24	6,33	5,95	5,43	3333-M16X24SS	12,80	12,03	10,96	

SELF TAPPING INSERTS INSTALLATION TOOL

	L mm	Lr mm	Ø mm	∇ mm		€
M 3 x 0.50	73.00	6.00	12.00	12.00	3920-M3	60,86
M 4 x 0.70	75.00	7.00	12.00	12.00	3920-M4	60,86
M 5 x 0.80	77.00	9.00	12.00	12.00	3920-M5	60,86
M 6 x 1.00	78.00	11.00	12.00	12.00	3920-M6	60,86
M 8 x 1.25	80.00	12.00	12.00	12.00	3920-M8	60,86
M 10 x 1.50	80.00	16.00	18.00	14.00	3920-M10	60,86
M 12 x 1.75	83.50	20.00	18.00	14.00	3920-M12	68,80
M 14 x 2.00	83.50	20.00	22.00	22.00	3920-M14	76,07
M 16 x 2.00	83.50	20.00	22.00	22.00	3920-M16	91,29
M 18 x 2.50	85.50	21.50	26.00	26.00	3920-M18	114,44
M 20 x 2.50	85.50	21.50	26.00	26.00	3920-M20	114,44
M 22 x 2.50	85.50	21.50	30.00	30.00	3920-M22	121,72
M 24 x 3.00	87.50	23.50	30.00	30.00	3920-M24	136,93



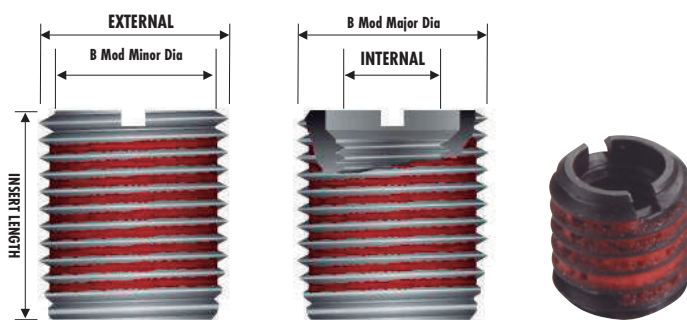


SOLID INSERTS

WITH ANAEROBIC THREADLOCKER

Features and Benefits

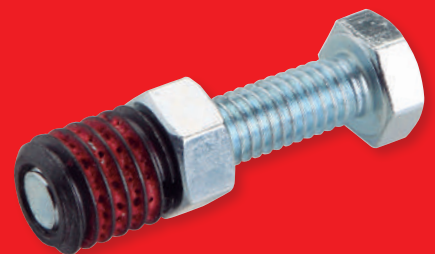
- E-Z SERTs can be installed with a screwdriver, bolt/jam nut, or optional power drive tool.
- Installed using standard drills and taps.
- E-Z SERTs will not back out or vibrate loose. Immediately upon installation, microencapsulated adhesive begins to set and the newly installed inserts are fastener-ready in 3-5 minutes.
- The adhesive seals against liquids and gases to 6,000 psi when fully cured (72 hours).



REMOVAL







- **NOTE:** The EZ SERT design requires a modified external thread. While the external thread pitch is standard, the minor diameter is larger than normal. So standard drill/tap combination does not apply. Preparing the hole for installation requires an oversize drill. For example, if a Thin Wall with a 5/8-11 external thread is being installed, a standard 37/64 drill is used as opposed to the typical 17/32, and tapped with a standard 5/8-11 tap.



SOLID INSERTS WITH ANAEROBIC THREADLOCKER
M
MF

 PD





THIN WALL

		L mm				€
M 4 x 0.70	UNC 5/16 x 18h	7.92	6,90	9.52	3320-4.00TWF	5,11
M 5 x 0.80	UNC 5/16 x 18h	7.92	6,90	9.52	3320-5.00TWF	5,11
M 6 x 1.00	UNC 3/8 x 16h	9.52	8,40	11.10	3320-6.00TWF	6,44
M 8 x 1.25	UNC 7/16 x 14h	11.10	10,10	12.70	3320-8.00TWF	7,32
M 10 x 1.50	UNC 1/2 x 13h	12.70	11,50	14.22	3320-10.00TWF	10,34
M 12 x 1.75	UNC 5/8 x 11h	15.75	14,50	17.27	3320-12.00TWF	11,61



 PR



HEAVY WALL


		L mm			AC	€	AISI 303	€
M 3 x 0.50	M6 x 1.00	6.50	5.10	7.80	3320-3.00HWM	3,15	3320-3.00HWSS	6,93
M 4 x 0.70	M8 x 1.25	7.50	6.90	9.00	3320-4.00HWM	3,36	3320-4.00HWSS	8,42
M 5 x 0.80	M8 x 1.25	7.50	6.90	9.00	3320-5.00HWM	3,79	3320-5.00HWSS	9,19
M 6 x 1.00	M10 x 1.50	10.50	8.60	12.00	3320-6.00HWM	4,26	3320-6.00HWSS	7,17
M 8 x 1.25	M12 x 1.75	12.50	10.40	14.50	3320-8.00HWM	4,81	3320-8.00HWSS	11,39
M 10 x 1.50	M16 x 2.00	17.00	14.00	19.00	3320-10.00HWM	7,41	3320-10.00HWSS	11,36
M 12 x 1.75	M16 x 2.00	17.00	14.00	19.00	3320-12.00HWM	8,33	3320-12.00HWSS	12,96
M 16 x 2.00	M24 x 3.00	20.00	21.00	24.00	3320-16.00HWM	10,04	3320-16.00HWSS	21,67
M 20 x 2.50	M36 x 4.00	30.00	33.00	35.00	3320-20.00HWM	29,59		


HEAVY WALL

M 6 x 1.00	UNC 3/8 x 16h	10.31	8.00	11.90	3320-6.00HWF	2,40	3320-6.00HWSSF	9,95
M 8 x 1.25	UNC 1/2 x 13h	12.29	10.70	14.29	3320-8.00HWF	2,94	3320-8.00HWSSF	11,45
M 10 x 1.50	UNC 9/16 x 12h	13.08	12.30	15.08	3320-10.00HWF	3,36	3320-10.00HWSSF	13,08
M 10 x 1.25	UNC 9/16 x 12h	13.08	12.30	15.08	3321-10.00HWF	4,95	3321-10.00HWSSF	-
M 12 x 1.75	UNC 3/4 x 10h	16.66	16.60	19.05	3320-12.00HWF	4,33	3320-12.00HWSSF	18,65
M 14 x 2.00	UNC 7/8 x 9h	17.45	19.50	20.64	3320-14.00HWF	8,69	3320-14.00HWSSF	22,98
M 16 x 2.00	UNC 1 x 8h	19.84	22.00	22.25	3320-16.00HWF	8,66	3320-16.00HWSSF	-


* Material safety data sheet available.


	
M3 x 0.50	M6 x 1.00
M4 x 0.70	M8 x 1.25
M5 x 0.80	M8 x 1.25
M6 x 1.00	M10 x 1.50
M8 x 1.25	M12 x 1.75

	SET 50 Unit M3-M8	AC
10	3320-3.00HW	3320-WK0
10	3320-4.00HW	
10	3320-5.00HW	
10	3320-6.00HW	
10	3320-8.00HW	
		304,41 €


	SET 50 Unit M3-M8	AISI 303
10	3320-3.00HWSS	3320-SSWK0
10	3320-4.00HWSS	
10	3320-5.00HWSS	
10	3320-6.00HWSS	
10	3320-8.00HWSS	
		569,54 €

M8 x 1.25	M12 x 1.75
M10 x 1.50	M16 x 2.00
M12 x 1.75	M16 x 2.00
M16 x 2.00	M 24 x 3.00

	SET 33 Unit M8-M16	AC
10	3320-8.00HW	3320-WK1
10	3320-10.00HW	
8	3320-12.00HW	
5	3320-16.00HW	
		348,61 €

	SET 33 Unit M8-M16	AISI 303
10	3320-8.00HWSS	3320-SSWK1
10	3320-10.00HWSS	
8	3320-12.00HWSS	
5	3320-16.00HWSS	
		602,08 €

M5 x 0.80	M8 x 1.25
M6 x 1.00	M10 x 1.50
M8 x 1.25	M12 x 1.75
M10 x 1.50	M16 x 2.00
M12 x 1.75	M16 x 2.00

	SET 46 Unit M5-M12	AISI 303
10	3320-5.00HWSS	3320-SSWK2
10	3320-6.00HWSS	
10	3320-8.00HWSS	
10	3320-10.00HWSS	
6	3320-12.00HWSS	585,82 €


REMOVAL


t-sert
by *celesa*



T-SERT INSERTS WITH COUNTERSINK HEAD

Features and Benefits

- T-SERT is a solid bushing insert for universal use. Easy installation.
- T-SERT is thin walled due to synchronized internal/external threads. Thin cross sectional area allows the installation in areas of limited space and clearance material.
- T-SERT provides fully sealed threads: oil, water,...
- T-SERT is self locked insert. On installation the bottom internal threads of the insert are cold rolled to expand the mating external threads into the base material locking the insert in place. Locking mechanism is at the bottom of insert.
- Having a flange on the top of the insert will insure that the insert will have positive placement and cannot wind down into the newly repaired hole.
- This guarantees easy installation and allows a full load use of tapped hole, ensuring protection against stress and vibration.
- T-SERT inserts are installed using specific tap, countersink and installation tooling.



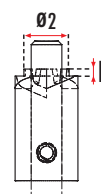
T-SERT INSERTS WITH COUNTERSINK HEAD

INSERTS

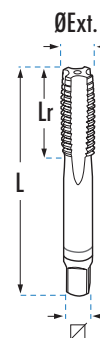
									€	
M 3 x 0.50	M5 x 0.50	4.30	6.00	0.50	4.50	3.80	3910-3.00x4.3	4,04	5	
M 4 x 0.70	M6 x 0.70	6.00	7.00	0.50	5.30	5.50	3910-4.00x6.0	4,04	5	
M 5 x 0.80	M7 x 0.80	7.60	8.00	0.50	6.20	7.20	3910-5.00x7.6	4,04	5	
M 6 x 1.00	M8 x 1.00	9.40	9.00	0.70	7.00	8.90	3910-6.00x9.4	4,36	5	
M 8 x 1.25	M10 x 1.25	11.70	12.00	0.80	8.70	11.20	3910-8.00x11.7	4,50	5	
M 10 x 1.50	M12 x 1.50	14.00	14.00	1.00	10.50	13.50	3910-10.00x14.0	5,51	5	
M 12 x 1.75	M14 x 1.75	16.00	16.00	1.00	12.70	15.50	3910-12.00x16.2	6,08	5	

SEAT CUTTER

	Ø mm	L mm	∅ mm	Ø2 mm	h mm		€
M 3 x 0.50	6.50	60.00	3.50	6.50	1.00	3910-3.00AVELL	72,83
M 4 x 0.70	7.50	65.00	3.80	7.50	1.00	3910-4.00AVELL	73,76
M 5 x 0.80	8.50	70.00	5.00	8.50	1.00	3910-5.00AVELL	77,96
M 6 x 1.00	9.50	70.00	5.00	9.50	1.20	3910-6.00AVELL	80,06
M 8 x 1.25	12.50	79.00	7.00	12.50	1.30	3910-8.00AVELL	81,82
M 10 x 1.50	14.50	89.00	8.00	14.50	1.50	3910-10.00AVELL	87,50
M 12 x 1.75	16.50	80.00	9.00	16.50	1.50	3910-12.00AVELL	92,66

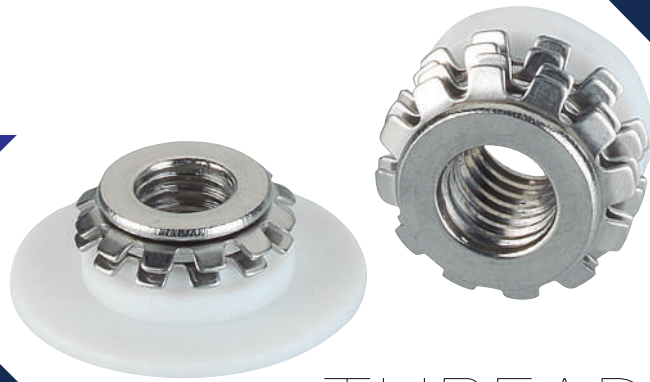

THREADING TAP

	Ø Ext.	L mm	Lr mm	Ø mm	∅ mm		€
M 3 x 0.50	M5 x 0.50	60.00	20.00	5.08	4.00	3910-3.00I	68,13
M 4 x 0.70	M6 x 0.70	70.00	22.00	6.09	4.90	3910-4.00I	68,13
M 5 x 0.80	M7 x 0.80	68.00	22.00	7.10	4.50	3910-5.00I	72,80
M 6 x 1.00	M8 x 1.00	72.00	22.00	8,12	4.90	3910-6.00I	76,06
M 8 x 1.25	M10 x 1.25	80.00	24.00	10,12	6.00	3910-8.00I	82,60
M 10 x 1.50	M12 x 1.50	88.00	29.00	12,14	7.10	3910-10.00I	102,67
M 12 x 1.75	M14 x 1.75	90.00	30.00	14,15	8.70	3910-12.00I	113,86


INSTALLATION TOOL

	L mm	Lr mm	Ø mm	∅ mm		€
M 3 x 0.50	54.00	15.00	3.50	3.80	3910-3.00HIP	61,16
M 4 x 0.70	62.00	18.00	5.00	3.80	3910-4.00HIP	62,67
M 5 x 0.80	71.00	30.00	5.80	5.00	3910-5.00HIP	63,00
M 6 x 1.00	72.00	22.00	7.60	5.00	3910-6.00HIP	68,51
M 8 x 1.25	79.00	25.00	10.00	6.00	3910-8.00HIP	71,40
M 10 x 1.50	90.00	30.00	12.00	7.00	3910-10.00HIP	75,60
M 12 x 1.75	95.00	30.00	15.00	9.00	3910-12.00HIP	88,20

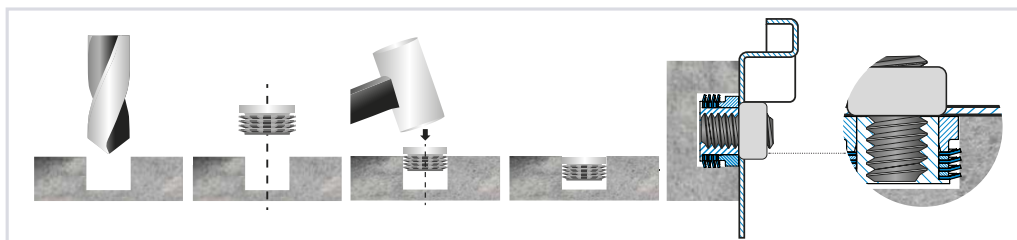




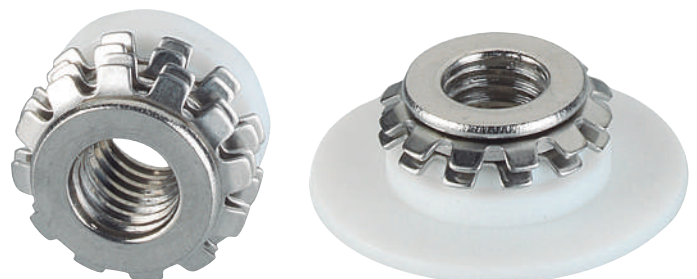
THREADED INSERTS FOR ANCHORING IN SOLID SURFACES

Features and benefits

- The **WALLSERT** insert allows the anchoring of threaded inserts in materials such as marble, granite, natural stone, porcelain, sintered stone, composite materials such as corian, phenolic compact panel, solid surfaces in general and a wide range related to design both outdoors and indoors.
- It is an excellent solution to easily introduce threaded anchors in ventilated facade panels, exterior cladding, interior designs such as kitchens, bathrooms, furniture... It offers a wide range of solutions.
- The innovative **WALLSERT** design allows the easy anchoring of threaded elements, supporting great efforts. Its installation is very simple: make the recommended hole on the material at the recommended depth, and insert it by applying a little pressure on the anchor, or a gentle blow with a nylon hammer. Always in solid or high-density materials.



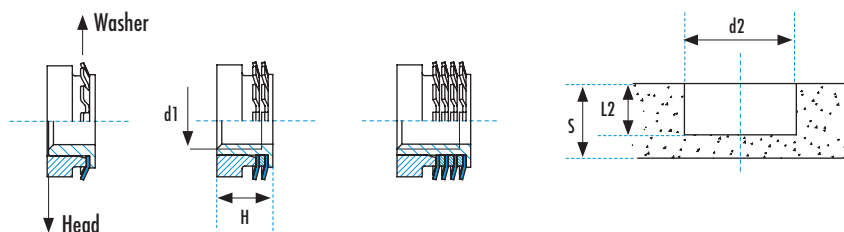
- 2 **WALLSERT** models available, straight head and flat head.
The Wallsert insert is made up of 3 parts,
Threaded sleeve, Stainless steel AISI 303
Washers, Stainless steel AISI 303
Head, Nylon PA6



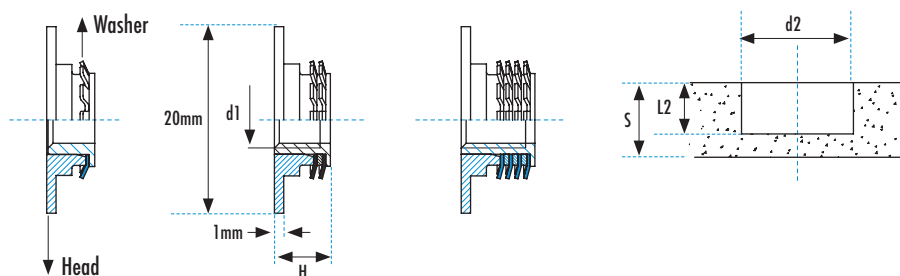
M

INOX
AISI303

wallsert
 by CELESA

WALLSERT INSERTS WITH STRAIGHT HEAD


d1	H mm	d2 mm	L2 mm	S mm	N° Washer	kN x wallsert		€	
M 4 x 0.70	5.00	12.00	5.50	8.00	1	1.1	3820-M4X5SS	2,44	50
M 5 x 0.80							3820-M5X5SS	2,44	50
M 6 x 1.00							3820-M6X5SS	2,44	50
M 4 x 0.70	6.00	12.00	6.50	8.50	2	2.1	3820-M4X6SS	2,67	50
M 5 x 0.80							3820-M5X6SS	2,67	50
M 6 x 1.00							3820-M6X6SS	2,67	50
M 4 x 0.70	8.50	12.00	9.00	11.00	4	3.4	3820-M4X8,5SS	2,89	50
M 5 x 0.80							3820-M5X8,5SS	2,89	50
M 6 x 1.00							3820-M6X8,5SS	2,89	50


WALLSERT INSERTS WITH FLAT HEAD


d1	H mm	d2 mm	L2 mm	S mm	N° Washer	kN x wallsert		€	
M 4 x 0.70	5.00	12.00	4.50	7.00	1	0.7	3825-M4X5SS	2,67	50
M 5 x 0.80							3825-M5X5SS	2,67	50
M 6 x 1.00							3825-M6X5SS	2,67	50
M 4 x 0.70	6.00	12.00	5.50	7.50	2	1.9	3825-M4X6SS	2,89	50
M 5 x 0.80							3825-M5X6SS	2,89	50
M 6 x 1.00							3825-M6X6SS	2,89	50
M 4 x 0.70	8.00	12.00	8.05	10.00	4	3.0	3825-M4X8SS	3,11	50
M 5 x 0.80							3825-M5X8SS	3,11	50
M 6 x 1.00							3825-M6X8SS	3,11	50



rivetsert
by *celesa*



RIVET NUTS

Features and Benefits

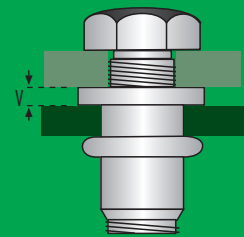
RIVETSERT Rivet nut provides strong, longlife and reliable threads into a variety of different materials including metal, plastic, fiberglass and carbon fiber. It is used in a wide array of applications in the automotive, heavy truck, and manufacturing industries as they move toward making their products both lightweight and easier to make, but guaranteeing strong threads.

Being **FLAT HEAD RIVET NUT** the most universal one, RIVETSERT Rivet nuts have been designed to work on high torques when installed in mechanic components:

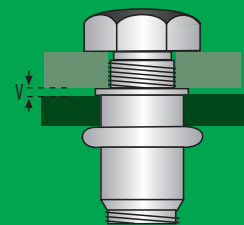
- Provides reliable threads in extra thin metal Sheets. (0,5 mm)
- Double function: Riveting two thin pieces by creating a strong thread.
- Three different heads available: **FLAT**, **REDUCED** AND **SUNK HEAD**.
- Easy and ergonomic installation by manual, automatic or pneumatic tools.

FLAT, REDUCED & SUNK HEADS.

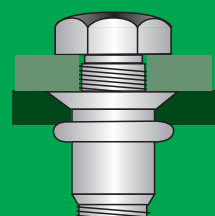
- **FLAT:** This is the most universal and useful Rivet Nut. The head provides enough surface extension for being tightened into any material unless fragile or easy breaking ones, guaranteeing high working torque. "V" space must be taken into consideration.
- **REDUCED:** These rivets have been designed to create a very strong connecting between fragile and very hard thin pieces. "V" space is insignificant but provides lower working torque than Flat Head rivets nuts.
- **SUNK:** This rivet nut provides strong and fully flat connection in any material in high thickness sheets. "V" space does not exist and working torque is high, but previous countersinking is needed.



FLAT



REDUCED



SUNK

CYLINDRICAL THREADED INSERTS
M
MF

HCS

FLAT HEAD - SHORT TYPE

	S mm	D mm +0,07/-0,1	 Ø mm +0,1/-0	T mm +/-0,3	K mm +/-0,15	L mm +/-0,3	I mm	 Nm		€/100 Unit	
M 3x0.50	0.50 - 1.50	4.90	5.00	7.20	0.80	8.50	4.70	2.00	3850-M3	6,95	100
M 4x0.70	0.50 - 2.00	5.90	6.00	8.50	0.80	10.50	6.00	5.00	3850-M4	7,10	100
M 5x0.80	0.50 - 2.50	6.90	7.00	10.00	1.00	13.00	7.50	8.50	3850-M5	7,25	100
M 6x1.00	0.50 - 3.00	8.90	9.00	12.30	1.30	15.50	9.20	15.00	3850-M6	8,76	100
M 8x1.25	1.00 - 3.50	10.90	11.00	15.00	1.50	18.50	11.50	26.00	3850-M8	14,68	50
M 10x1.50	1.00 - 3.50	11.90	12.00	16.00	1.50	19.00	11.00	50.00	3850-M10	24,00	50
M 10x1.50	1.00 - 2.50	12.90	13.00	16.30	1.60	17.00	11.50	50.00	3850-M10E1	24,20	50
M 12x1.75	1.00 - 4.00	14.90	15.00	18.00	1.70	22.00	13.50	80.00	3850-M12	43,88	50
M 12x1.75	1.00 - 4.00	15.90	16.00	22.00	2.00	25.00	16.00	80.00	3850-M12E1	45,09	50

* The prices of the list are related to packs of 100 units

REDUCED COUNTERSINK HEAD - SHORT TYPE

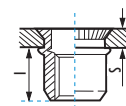
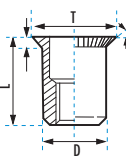
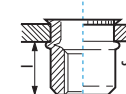
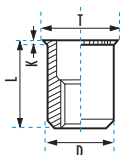
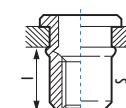
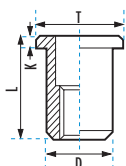
	S mm	D mm +0,07/-0,1	 Ø mm +0,1/-0	T mm +/-0,3	K mm +/-0,15	L mm +/-0,3	I mm	 Nm		€/100 Unit	
M 3x0.50	0.50 - 2.00	4.90	5.00	6.00	0.50	9.00	6.20	1.00	3851-M3	6,95	100
M 4x0.70	0.50 - 2.00	5.90	6.00	7.00	0.50	10.50	6.50	3.00	3851-M4	7,10	100
M 5x0.80	0.50 - 2.00	6.90	7.00	8.00	0.50	11.50	7.00	6.00	3851-M5	7,25	100
M 6x1.00	0.50 - 2.50	8.90	9.00	10.00	0.60	14.00	8.50	11.00	3851-M6	8,76	100
M 8x1.25	1.00 - 3.00	10.90	11.00	12.00	0.60	16.50	10.00	20.00	3851-M8	14,68	100
M 10x1.50	0.50 - 3.50	11.90	12.00	13.00	0.85	18.00	13.00	32.00	3851-M10	24,00	50
M 10x1.50	1.00 - 3.00	12.90	13.00	14.00	0.70	17.70	12.00	32.00	3851-M10E1	24,20	50
M 12x1.75	0.50 - 3.50	14.90	15.00	16.50	0.85	22.50	16.00	50.00	3851-M12	43,88	50

* The prices of the list are related to packs of 100 units

COUNTERSINK HEAD - SHORT TYPE

	S mm	D mm +0,07/-0,1	 Ø mm +0,1/-0	T mm +/-0,3	K mm +/-0,15	L mm +/-0,3	I mm	 Nm		€/100 Unit	
M 3x0.50	1.60 - 3.50	4.90	5.00	7.20	1.50	9.50	4.50	1.00	3852-M3	6,95	100
M 4x0.70	1.50 - 3.00	5.90	6.00	9.00	1.50	12.00	6.50	4.00	3852-M4	7,10	100
M 5x0.80	1.50 - 3.50	6.90	7.00	10.00	1.50	13.00	7.50	8.00	3852-M5	7,25	100
M 6x1.00	1.50 - 4.00	8.90	9.00	12.00	1.50	15.50	9.00	15.00	3852-M6	8,76	100
M 8x1.25	2.00 - 4.50	10.90	11.00	14.00	1.50	18.50	10.00	26.00	3852-M8	14,68	100
M 10x1.50	1.60 - 5.00	11.90	12.00	15.00	1.50	21.00	11.50	45.00	3852-M10	24,00	50
M 10x1.50	1.60 - 5.00	12.90	13.00	16.00	1.50	21.00	11.50	45.00	3852-M10E1	24,20	50

* The prices of the list are related to packs of 100 units

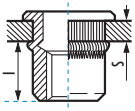
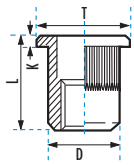








KNURLED CYLINDRICAL THREADED INSERTS



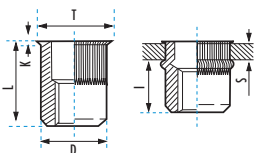
FLAT HEAD







	S mm	D mm +0,07/-0,1	 ∅ +0,1/-0	T mm +/-0,3	K mm +/-0,15	L mm +/-0,3	I mm	 Nm		€/100 Unit	
M 3x0.50	0.50 - 1.50	4.90	5.00	8.00	0.80	10.00	6.00	2.00	3853-M3	6,95	100
M 3x0.50	1.50 - 3.00	4.90	5.00	7.00	0.80	11.50	8.00	2.00	3853-M3E1	7,50	100
M 4x0.70	0.50 - 2.00	5.90	6.00	9.00	0.80	10.50	6.00	5.00	3853-M4	7,10	100
M 4x0.70	2.00 - 3.50	5.90	6.00	9.00	0.80	12.00	6.00	5.00	3853-M4E1	8,29	100
M 5x0.80	0.50 - 2.50	6.90	7.00	10.00	1.00	13.00	7.50	8.50	3853-M5	7,25	100
M 5x0.80	2.50 - 5.00	6.90	7.00	10.00	1.00	16.50	8.50	8.50	3853-M5E1	8,46	100
M 6x1.00	0.50 - 3.00	8.90	9.00	12.30	1.30	15.50	9.20	15.00	3853-M6	8,76	100
M 6x1.00	3.00 - 5.50	8.90	9.00	12.30	1.30	19.50	10.50	15.00	3853-M6E1	11,42	100
M 8x1.25	1.00 - 3.50	10.90	11.00	14.50	1.50	18.50	11.50	26.00	3853-M8	14,68	100
M 8x1.25	3.50 - 6.00	10.90	11.00	14.50	1.50	21.00	11.50	26.00	3853-M8E1	17,76	100
M 10x1.50	1.00 - 3.50	11.90	12.00	16.00	1.70	19.00	12.50	50.00	3853-M10	24,00	50
M 10x1.50	3.00 - 6.00	11.90	12.00	16.00	1.60	24.00	18.50	50.00	3853-M10E1	25,38	50
M 10x1.50	1.00 - 4.00	12.90	13.00	17.00	1.70	21.50	13.50	50.00	3853-M10E2	24,20	50
M 10x1.50	4.00 - 6.50	12.90	13.00	17.00	1.70	24.00	13.50	50.00	3853-M10E3	28,47	50
M 12x1.75	1.00 - 4.00	14.90	15.00	18.00	1.70	22.00	13.50	80.00	3853-M12	43,88	50
M 12x1.75	4.00 - 6.50	14.90	15.00	18.00	1.70	25.00	14.00	80.00	3853-M12E1	56,21	50
M 12x1.75	1.00 - 3.50	15.90	16.00	22.00	2.00	25.00	15.00	80.00	3853-M12E2	57,73	50
M 12x1.75	3.50 - 6.00	15.90	16.00	22.00	2.00	28.00	16.50	80.00	3853-M12E3	59,84	50

* The prices of the list are related to packs of 100 units

REDUCED COUNTERSINK HEAD



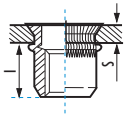
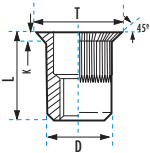
	S mm	D mm +0,07/-0,1	 ∅ +0,1/-0	T mm +/-0,3	K mm +/-0,15	L mm +/-0,3	I mm	 Nm		€/100 Unit	
M 3x0.50	0.50 - 2.00	4.90	5.00	6.00	0.50	9.00	6.50	1.00	3854-M3	6,95	100
M 3x0.50	2.00 - 3.50	4.90	5.00	6.00	0.50	11.50	5.50	1.00	3854-M3E1	7,50	100
M 4x0.70	0.50 - 2.00	5.90	6.00	7.00	0.50	11.20	7.00	3.00	3854-M4	7,10	100
M 4x0.70	2.00 - 4.00	5.90	6.00	7.00	0.50	13.00	7.00	3.00	3854-M4E1	8,29	100
M 5x0.80	0.50 - 2.50	6.90	7.00	8.00	0.50	11.50	7.00	6.00	3854-M5	7,25	100
M 5x0.80	2.00 - 4.00	6.90	7.00	8.00	0.50	13.00	7.00	6.00	3854-M5E1	8,46	100
M 6x1.00	0.50 - 2.50	8.90	9.00	10.00	0.60	14.00	8.50	11.00	3854-M6	8,76	100
M 6x1.00	2.50 - 4.50	8.90	9.00	10.00	0.60	16.00	8.50	11.00	3854-M6E1	11,42	100
M 8x1.25	1.00 - 3.00	10.90	11.00	12.00	0.60	16.50	10.00	20.00	3854-M8	14,68	100
M 8x1.25	3.00 - 5.00	10.90	11.00	12.00	0.60	18.50	10.00	20.00	3854-M8E1	17,76	100
M 10x1.50	1.00 - 3.50	11.90	12.00	13.00	0.70	19.50	13.00	32.00	3854-M10	24,00	50
M 10x1.50	3.50 - 6.00	11.90	12.00	13.00	0.70	22.00	17.00	32.00	3854-M10E1	25,38	50
M 10x1.50	1.00 - 3.50	12.90	13.00	14.00	0.70	19.50	12.50	32.00	3854-M10E2	26,58	50
M 10x1.50	3.50 - 6.00	12.90	13.00	14.00	0.70	22.00	12.50	32.00	3854-M10E3	28,47	50
M 12x1.75	0.50 - 3.50	14.90	15.00	16.50	0.85	22.50	16.00	50.00	3854-M12	43,88	50
M 12x1.75	1.00 - 4.00	15.90	16.00	17.60	0.75	24.20	16.00	50.00	3854-M12E1	45,09	50
M 12x1.75	4.00 - 6.00	15.90	16.00	17.15	0.60	27.00	16.00	50.00	3854-M12E2	59,84	50





* The prices of the list are related to packs of 100 units

KNURLED CYLINDRICAL THREADED INSERTS

rivetsert
 by CELESA

M
MF

M/MF
HCS
COUNTERSINK HEAD


	S mm	D mm +0,07/-0,1	 Ø +0,1/-0	T mm +/-0,3	K mm +/-0,15	L mm +/-0,3	I mm	 Nm		€/100 Unit	
M 3x0.50	1.60 - 2.50	4.90	5.00	6.60	1.05	9.50	4.50	1.00	3855-M3	8,88	100
M 3x0.50	2.50 - 4.00	4.90	5.00	6.60	1.50	10.50	4.50	1.00	3855-M3E1	10,58	100
M 4x0.70	1.50 - 3.00	5.90	6.00	9.00	1.50	12.00	6.50	4.00	3855-M4	9,10	100
M 4x0.70	3.00 - 5.00	5.90	6.00	9.00	1.50	14.00	6.00	4.00	3855-M4E1	11,60	100
M 5x0.80	1.50 - 3.50	6.90	7.00	10.00	1.50	13.00	7.50	8.00	3855-M5	9,13	100
M 5x0.80	3.50 - 6.00	6.90	7.00	10.00	1.50	16.50	8.50	8.00	3855-M5E1	12,75	100
M 6x1.00	1.50 - 4.00	8.90	9.00	12.00	1.50	15.50	9.00	15.00	3855-M6	10,09	100
M 6x1.00	4.00 - 6.00	8.90	9.00	12.00	1.50	18.00	9.00	15.00	3855-M6E1	18,92	100
M 8x1.25	2.00 - 4.50	10.90	11.00	14.00	1.50	18.50	10.00	26.00	3855-M8	19,13	100
M 8x1.25	4.00 - 6.50	10.90	11.00	14.00	1.50	21.00	10.00	26.00	3855-M8E1	19,22	100
M 10x1.50	1.60 - 5.00	11.90	12.00	15.00	1.50	19.00	11.50	45.00	3855-M10	25,38	50
M 10x1.50	5.00 - 7.50	11.90	12.00	15.00	1.50	24.00	11.50	45.00	3855-M10E1	38,98	50
M 10x1.50	2.00 - 5.00	12.90	13.00	16.00	1.50	21.00	11.50	45.00	3855-M10E2	38,97	50
M 10x1.50	5.00 - 7.50	12.90	13.00	16.00	1.50	24.00	11.50	45.00	3855-M10E3	38,98	50
M 12x1.75	1.60 - 5.00	14.90	15.00	18.00	1.50	22.50	14.50	70.00	3855-M12	48,05	50
M 12x1.75	1.70 - 4.50	15.90	16.00	19.00	1.90	24.00	17.50	70.00	3855-M12E1	56,21	50
M 12x1.75	4.00 - 7.50	15.90	16.00	19.00	1.90	29.00	17.50	70.00	3855-M12E2	101,99	50

* The prices of the list are related to packs of 100 units

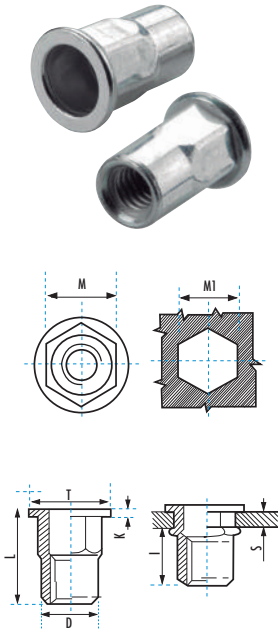




SEMI-HEXAGONAL THREADED INSERTS



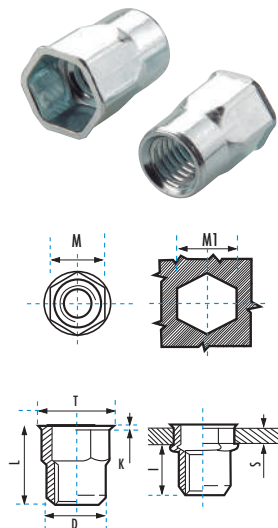
FLAT HEAD



	S mm	D mm +0,07/-0,1	 Ø +0,1/-0	T mm +/-0,3	K mm +/-0,15	L mm +/-0,3	I mm	 Nm		€/100 Unit	
M 3x0.50	0.50 - 1.50	4.90	5.00	7.20	0.80	8.50	5.50	2.00	3856-M3	9,67	100
M 4x0.70	0.50 - 2.00	5.90	6.00	9.00	0.80	11.00	6.50	5.00	3856-M4	9,79	100
M 4x0.70	2.50 - 4.00	5.90	6.00	9.00	0.80	13.50	6.50	5.00	3856-M4E1	17,54	100
M 5x0.80	0.50 - 3.00	6.90	7.00	10.00	1.00	13.00	8.00	8.50	3856-M5	10,58	100
M 5x0.80	3.00 - 5.50	6.90	7.00	10.00	0.80	16.00	11.00	8.50	3856-M5E1	17,54	100
M 6x1.00	0.50 - 4.00	8.90	9.00	12.00	1.50	16.50	8.50	15.00	3856-M6	11,96	100
M 6x1.00	3.00 - 5.50	8.90	9.00	13.00	1.50	18.50	10.50	15.00	3856-M6E1	29,62	100
M 8x1.25	1.00 - 4.00	10.90	11.00	15.90	1.50	18.20	10.50	20.00	3856-M8	16,97	100
M 8x1.25	4.00 - 6.00	10.90	11.00	15.00	1.50	20.50	12.50	26.00	3856-M8E1	31,79	100
M 10x1.50	1.00 - 3.50	11.90	12.00	17.00	1.60	19.00	12.00	50.00	3856-M10	27,13	50
M 10x1.50	0.50 - 3.50	12.90	13.00	17.00	1.80	21.00	12.00	50.00	3856-M10E1	27,75	50
M 12x1.75	2.00 - 5.00	15.90	16.00	23.00	2.20	27.50	16.50	80.00	3856-M12	59,84	50

* The prices of the list are related to packs of 100 units

REDUCED COUNTERSINK HEAD



	S mm	D mm +0,07/-0,1	 Ø +0,1/-0	T mm +/-0,3	K mm +/-0,15	L mm +/-0,3	I mm	 Nm		€/100 Unit	
M 3x0.50	0.30 - 1.50	4.90	5.00	6.00	0.50	9.00	5.50	1.00	3857-M3	14,63	100
M 3x0.50	1.50 - 2.50	4.90	5.00	6.00	0.50	10.00	5.50	1.00	3857-M3E1	16,80	100
M 4x0.70	0.50 - 2.00	5.90	6.00	7.00	0.50	12.00	8.30	3.00	3857-M4	8,46	100
M 5x0.80	0.50 - 2.50	6.90	7.00	8.00	0.50	13.00	8.70	6.00	3857-M5	9,49	100
M 6x1.00	1.00 - 3.50	8.90	9.00	10.00	0.60	16.00	10.50	11.00	3857-M6	10,70	100
M 8x1.25	1.00 - 3.50	10.90	11.00	12.00	0.65	17.50	11.30	20.00	3857-M8	14,50	100
M 10x1.50	1.00 - 4.00	11.90	12.00	13.25	0.70	18.30	12.80	32.00	3857-M10	23,26	50
M 10x1.50	1.00 - 4.00	12.90	13.00	14.50	0.75	21.00	12.80	32.00	3857-M10E1	23,58	50
M 12x1.75	1.50 - 4.00	15.90	16.00	17.50	0.80	24.00	16.00	50.00	3857-M12	59,28	50

* The prices of the list are related to packs of 100 units

REDUCED COUNTERSINK HEAD - SPECIAL HOLE

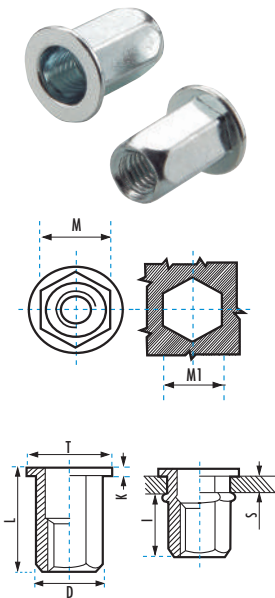


	S mm	D mm +0,07/-0,1	 Ø +0,1/-0	T mm +/-0,3	K mm +/-0,15	L mm +/-0,3	I mm	 Nm		€/100 Unit	
M 4x0.70	0.50 - 2.00	6.30	6.40	7.40	0.50	10.50	6.50	3.00	3858-M4	9,67	100
M 5x0.80	0.50 - 2.50	7.10	7.20	8.20	0.50	12.00	7.50	6.00	3858-M5	11,49	100
M 6x1.00	1.00 - 3.00	9.50	9.60	10.60	0.60	15.00	9.20	11.00	3858-M6	12,38	100
M 8x1.25	1.00 - 3.50	10.50	10.60	11.60	0.60	16.50	10.50	20.00	3858-M8	17,10	100

* The prices of the list are related to packs of 100 units

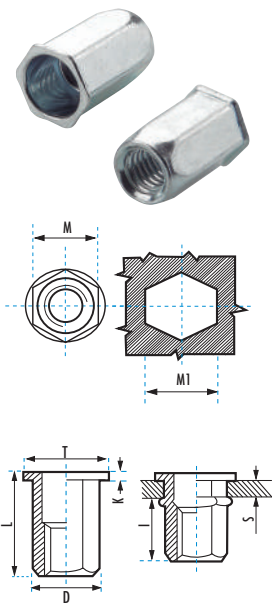
HEXAGONAL THREADED INSERTS

M
MF

HCS
FLAT HEAD


	S mm	M mm	M1 mm	T mm	K mm	L mm	I mm	 Nm		€/100 Unit	
M 4x0.70	0.50 - 2.00	5.90	6.00	9.00	0.80	11.00	6.50	5.00	3859-M4	9,67	100
M 4x0.70	2.00 - 5.00	5.90	6.00	9.00	0.80	13.50	6.50	5.00	3859-M4E1	15,71	100
M 5x0.80	0.50 - 3.00	6.90	7.00	10.00	1.00	14.00	8.00	8.50	3859-M5	10,58	100
M 5x0.80	3.00 - 6.00	6.90	7.00	10.00	1.00	16.50	8.00	8.50	3859-M5E1	16,62	100
M 6x1.00	0.50 - 3.00	8.90	9.00	13.00	1.20	16.00	9.50	15.00	3859-M6	11,96	100
M 6x1.00	3.00 - 5.00	8.90	9.00	13.00	1.50	19.50	8.50	15.00	3859-M6E1	17,54	100
M 8x1.25	1.00 - 3.50	10.90	11.00	16.00	1.50	17.00	9.50	26.00	3859-M8	16,97	100
M 8x1.25	3.50 - 6.00	10.90	11.00	15.00	1.50	21.50	10.50	26.00	3859-M8E1	22,97	100
M 10x1.50	1.00 - 3.50	11.90	12.00	18.00	1.70	21.00	13.50	50.00	3859-M10	27,13	50
M 10x1.50	1.00 - 3.50	12.90	13.00	18.00	1.70	21.00	13.50	50.00	3859-M10E1	27,75	50
M 10x1.50	3.50 - 6.50	12.90	13.00	17.00	1.50	24.00	14.50	50.00	3859-M10E2	42,67	50
M 12x1.75	1.00 - 3.50	14.90	15.00	19.00	2.00	24.30	16.00	80.00	3859-M12	69,51	50
M 12x1.75	2.00 - 5.00	15.90	16.00	23.00	2.00	27.00	16.50	80.00	3859-M12E1	59,84	50

* The prices of the list are related to packs of 100 units

REDUCED COUNTERSINK HEAD


	S mm	M mm	M1 mm	T mm	K mm	L mm	I mm	 Nm		€/100 Unit	
M 3x0.50	0.50 - 1.50	4.90	5.00	6.00	0.45	8.50	5.00	1.00	3860-M3	14,63	100
M 4x0.70	0.50 - 2.50	5.90	6.00	7.00	0.50	11.00	6.70	3.00	3860-M4	8,46	100
M 4x0.70	2.50 - 5.00	5.90	6.00	7.00	0.50	13.50	6.70	3.00	3860-M4E1	12,70	100
M 5x0.80	0.50 - 3.00	6.90	7.00	8.00	0.50	14.50	9.00	6.00	3860-M5	9,49	100
M 5x0.80	3.00 - 5.00	6.90	7.00	8.00	0.50	16.00	9.00	6.00	3860-M5E1	13,59	100
M 6x1.00	1.00 - 3.50	8.90	9.00	10.00	0.60	16.00	10.00	11.00	3860-M6	10,70	100
M 6x1.00	3.50 - 6.00	8.90	9.00	10.00	0.60	18.00	10.00	11.00	3860-M6E1	14,50	100
M 8x1.25	1.00 - 4.00	10.90	11.00	12.00	0.65	18.00	11.50	20.00	3860-M8	14,50	100
M 8x1.25	4.00 - 6.00	10.90	11.00	12.00	0.65	20.00	11.50	20.00	3860-M8E1	21,27	100
M 10x1.50	0.50 - 3.50	11.90	12.00	14.50	1.00	19.00	12.50	32.00	3860-M10	23,26	50
M 10x1.50	1.00 - 3.50	12.90	13.00	14.50	0.75	19.00	12.50	32.00	3860-M10E1	23,58	50
M 10x1.50	3.50 - 6.00	12.90	13.00	14.50	0.75	23.50	14.50	32.00	3860-M10E2	37,47	50
M 12x1.75	1.00 - 4.00	14.90	15.00	17.50	1.10	22.50	-	50.00	3860-M12	75,55	50
M 12x1.75	1.00 - 5.00	15.90	16.00	17.80	1.10	25.00	-	50.00	3860-M12E1	74,94	50
M 12x1.75	5.00 - 7.50	15.90	16.00	17.80	1.10	28.00	-	50.00	3860-M12E2	74,94	50

* The prices of the list are related to packs of 100 units



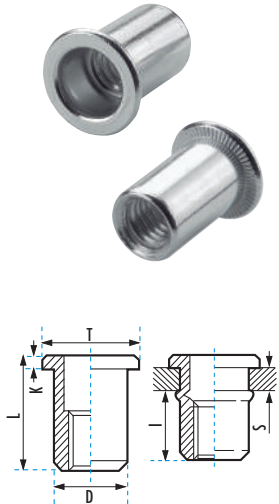
rivetsert
by CELESA

CYLINDRICAL THREADED INSERTS



rivetsert
by CELESA

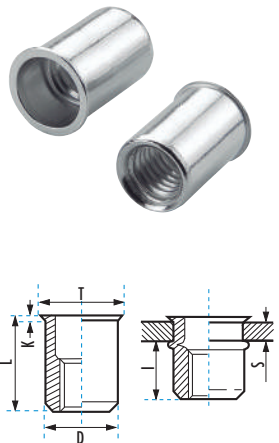
Print



FLAT HEAD

	S mm	D mm +0,07/-0,1	 ϕ +0,1/-0	T mm +/-0,3	K mm +/-0,15	L mm +/-0,3	I mm	 Nm		€/Unit	
M 3x0.50	0.30 - 1.80	4.90	5.00	8.00	0.75	9.00	5.50	2.00	3950-M3	-	25
M 4x0.70	0.50 - 2.00	5.90	6.00	8.50	0.80	10.50	6.00	5.00	3950-M4	0,29	25
M 5x0.80	0.50 - 2.50	6.90	7.00	10.00	1.00	13.00	7.50	8.50	3950-M5	0,32	25
M 6x1.00	0.50 - 3.00	8.90	9.00	12.30	1.30	15.50	9.20	15.00	3950-M6	0,54	25
M 8x1.25	1.00 - 3.50	10.90	11.00	15.00	1.50	18.50	11.50	26.00	3950-M8	0,80	25
M 10x1.50	0.80 - 3.50	11.90	12.00	16.00	1.70	19.00	10.50	50.00	3950-M10	-	1
M 10x1.50	1.00 - 4.00	12.90	13.00	17.00	1.60	21.00	12.50	50.00	3950-M10E1	1,25	1
M 12x1.75	1.00 - 4.00	14.90	15.00	18.00	1.70	22.00	13.50	80.00	3950-M12	-	1
M 12x1.75	1.00 - 4.00	15.90	16.00	23.00	2.00	26.00	16.50	80.00	3950-M12E1	-	1

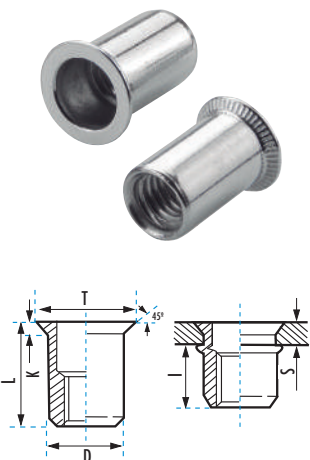
- Check price and availability



REDUCED COUNTERSINK HEAD

	S mm	D mm +0,07/-0,1	 ϕ +0,1/-0	T mm +/-0,3	K mm +/-0,15	L mm +/-0,3	I mm	 Nm		€/Unit	
M 3x0.50	0.30 - 1.50	4.90	5.00	5.60	0.35	8.50	5.50	1.00	3951-M3	-	25
M 4x0.70	0.50 - 2.00	5.90	6.00	7.00	0.50	10.50	6.50	3.00	3951-M4	0,26	25
M 5x0.80	0.50 - 2.00	6.90	7.00	8.00	0.50	11.50	7.00	6.00	3951-M5	0,30	25
M 6x1.00	0.50 - 2.50	8.90	9.00	10.00	0.60	14.00	8.50	11.00	3951-M6	0,50	25
M 8x1.25	0.50 - 3.00	10.90	11.00	12.00	0.50	16.50	10.50	20.00	3951-M8	0,73	25
M 10x1.50	0.80 - 3.00	11.90	12.00	13.50	0.80	18.00	10.20	32.00	3951-M10	-	1
M 10x1.50	1.00 - 3.50	12.90	13.00	14.10	0.60	19.50	11.50	32.00	3951-M10E1	1,22	1
M 12x1.75	0.5 - 3.5	14.90	15.00	16.50	0.85	22.50	16.00	49.00	3951-M12	-	1

- Check price and availability







COUNTERSINK HEAD


	S mm	D mm +0,07/-0,1	 ϕ +0,1/-0	T mm +/-0,3	K mm +/-0,15	L mm +/-0,3	I mm	 Nm		€/Unit	
M 3x0.50	1.70 - 3.00	4.90	5.00	8.00	1.50	11.50	5.50	1.00	3952-M3	-	25
M 4x0.70	1.50 - 3.00	5.90	6.00	9.00	1.50	12.00	7.50	4.00	3952-M4	0,35	25
M 5x0.80	1.50 - 3.50	6.90	7.00	10.00	1.50	13.00	7.80	8.00	3952-M5	0,39	25
M 6x1.00	1.50 - 4.00	8.90	9.00	12.00	1.50	15.50	9.00	15.00	3952-M6	0,56	25
M 8x1.25	2.00 - 4.50	10.90	11.00	14.00	1.50	18.50	12.00	26.00	3952-M8	0,84	25
M 10x1.50	1.00 - 4.00	11.90	12.00	15.00	1.50	18.00	10.50	45.00	3952-M10	-	1
M 10x1.50	2.00 - 5.00	12.90	13.00	16.00	1.50	21.00	13.00	45.00	3952-M10E1	1,25	1




- Check price and availability


INOX




KNURLED CYLINDRICAL THREADED INSERTS
FLAT HEAD


	S mm	D mm +0,07/-0,1	$\frac{\theta}{\theta}$ +0,1/-0	T mm +/-0,3	K mm +/-0,15	L mm +/-0,3	I mm	 Nm		€/Unit	
M 3x0.50	0.50 - 1.50	4.90	5.00	7.00	0.80	10.00	5.00	2.00	3953-M3	-	25
M 3x0.50	1.50 - 3.00	4.90	5.00	8.00	0.75	10.00	5.50	2.00	3953-M3E1	-	25
M 4x0.70	0.50 - 2.00	5.90	6.00	9.00	0.80	10.50	6.50	5.00	3953-M4	0,29	25
M 4x0.70	2.50 - 4.00	5.90	6.00	9.00	0.75	12.50	6.50	5.00	3953-M4E1	-	25
M 5x0.80	0.50 - 2.50	6.90	7.00	10.00	1.00	13.00	8.00	8.50	3953-M5	0,32	25
M 5x0.80	2.00 - 4.00	6.90	7.00	10.00	1.00	16.00	8.00	8.50	3953-M5E1	-	25
M 6x1.00	0.50 - 3.00	8.90	9.00	12.30	1.30	15.50	9.20	15.00	3953-M6	0,54	25
M 6x1.00	3.50 - 6.00	8.90	9.00	13.00	1.50	19.00	9.00	15.00	3953-M6E1	0,74	25
M 8x1.25	1.00 - 3.50	10.90	11.00	14.50	1.50	18.50	11.50	26.00	3953-M8	0,80	25
M 8x1.25	3.00 - 6.00	10.90	11.00	14.50	1.50	21.00	11.50	26.00	3953-M8E1	1,02	25
M 10x1.50	0.80 - 3.50	11.90	12.00	16.00	1.70	19.00	10.50	50.00	3953-M10	1,48	1
M 10x1.50	3.50 - 6.00	11.90	12.00	16.00	1.70	22.00	10.50	50.00	3953-M10E1	-	1
M 10x1.50	1.00 - 4.00	12.90	13.00	17.00	1.60	21.00	13.50	50.00	3953-M10E2	1,25	1
M 10x1.50	3.00 - 6.00	12.90	13.00	19.00	2.00	26.00	14.50	50.00	3953-M10E3	1,77	1
M 12x1.75	1.00 - 4.00	14.90	15.00	18.00	1.70	22.00	13.50	80.00	3953-M12	-	1
M 12x1.75	4.00 - 6.50	14.90	15.00	18.00	1.70	25.00	14.00	80.00	3953-M12E1	-	1
M 12x1.75	1.00 - 4.00	15.90	16.00	23.00	2.00	25.00	16.50	80.00	3953-M12E2	2,11	1
M 12x1.75	3.50 - 7.00	15.90	16.00	23.00	1.60	29.00	16.50	80.00	3953-M12E3	-	1

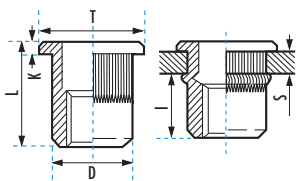
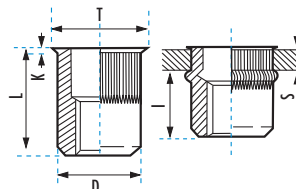
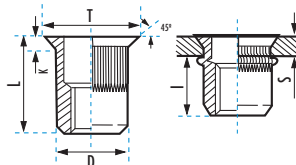
REDUCED COUNTERSINK HEAD


	S mm	D mm +0,07/-0,1	$\frac{\theta}{\theta}$ +0,1/-0	T mm +/-0,3	K mm +/-0,15	L mm +/-0,3	I mm	 Nm		€/Unit	
M 3x0.50	0.50 - 2.00	4.90	5.00	6.00	0.40	9.00	5.50	1.00	3954-M3	-	25
M 3x0.50	1.50 - 2.50	4.90	5.00	5.80	0.50	10.00	5.50	1.00	3954-M3E1	-	25
M 4x0.70	0.50 - 2.00	5.90	6.00	7.00	0.50	10.50	6.50	3.00	3954-M4	0,26	25
M 4x0.70	2.50 - 4.00	5.90	6.00	7.00	0.50	12.50	6.50	3.00	3954-M4E1	0,51	25
M 5x0.80	0.50 - 2.00	6.90	7.00	8.00	0.50	11.50	7.20	6.00	3954-M5	0,30	25
M 5x0.80	2.50 - 4.50	6.90	7.00	8.00	0.50	13.00	6.80	6.00	3954-M5E1	0,62	25
M 6x1.00	0.50 - 3.00	8.90	9.00	10.00	0.60	14.00	9.00	11.00	3954-M6	0,50	25
M 6x1.00	3.00 - 6.00	8.90	9.00	10.00	0.50	17.50	8.60	11.00	3954-M6E1	0,77	25
M 8x1.25	1.00 - 3.50	10.90	11.00	12.00	0.50	16.50	10.50	20.00	3954-M8	0,73	25
M 8x1.25	3.50 - 6.00	10.90	11.00	12.00	0.65	19.50	10.00	20.00	3954-M8E1	1,08	25
M 10x1.50	0.80 - 3.00	11.90	12.00	13.50	0.80	18.00	11.20	32.00	3954-M10	1,48	1
M 10x1.50	2.00 - 4.50	11.90	12.00	13.50	0.80	19.50	11.20	32.00	3954-M10E1	-	1
M 10x1.50	1.00 - 3.50	12.90	13.00	14.00	0.70	17.70	10.70	32.00	3954-M10E2	1,48	1
M 10x1.50	3.00 - 6.00	12.90	13.00	14.00	0.50	23.00	13.30	32.00	3954-M10E3	-	1
M 12x1.75	0.50 - 3.50	14.90	15.00	16.50	0.85	22.50	16.00	50.00	3954-M12	-	1
M 12x1.75	1.00 - 4.00	15.90	16.00	17.60	0.75	24.20	14.00	50.00	3954-M12E1	2,11	1
M 12x1.75	4.00 - 6.00	15.90	16.00	17.50	0.60	27.00	16.00	50.00	3954-M12E2	-	1

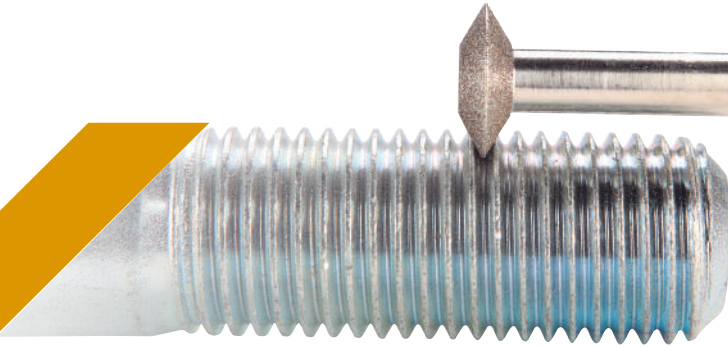
COUNTERSINK HEAD


	S mm	D mm +0,07/-0,1	$\frac{\theta}{\theta}$ +0,1/-0	T mm +/-0,3	K mm +/-0,15	L mm +/-0,3	I mm	 Nm		€/Unit	
M 3x0.50	1.70 - 3.00	4.90	5.00	8.00	1.50	11.50	11.50	1.00	3955-M3	0,35	25
M 3x0.50	3.00 - 4.00	4.90	5.00	8.00	1.50	12.50	11.50	1.00	3955-M3E1	-	25
M 4x0.70	1.50 - 3.00	5.90	6.00	9.00	1.50	12.00	7.50	4.00	3955-M4	0,37	25
M 4x0.70	3.50 - 5.00	5.90	6.00	9.00	1.50	13.00	7.50	4.00	3955-M4E1	0,49	25
M 5x0.80	1.50 - 3.50	6.90	7.00	10.00	1.50	13.00	7.00	8.00	3955-M5	0,39	25
M 5x0.80	4.00 - 6.00	6.90	7.00	10.00	1.50	15.00	7.00	8.00	3955-M5E1	0,61	25
M 6x1.00	1.50 - 4.00	8.90	9.00	12.00	1.50	15.50	9.00	15.00	3955-M6	0,56	25
M 6x1.00	4.50 - 6.50	8.90	9.00	12.00	1.50	19.00	9.00	15.00	3955-M6E1	0,95	25
M 8x1.25	2.00 - 4.50	10.90	11.00	14.00	1.50	18.50	12.00	26.00	3955-M8	0,84	25
M 8x1.25	3.50 - 6.50	10.90	11.00	13.70	1.50	21.00	12.00	26.00	3955-M8E1	1,15	25
M 10x1.50	1.50 - 4.00	11.90	12.00	15.00	1.50	18.00	10.50	45.00	3955-M10	-	1
M 10x1.50	3.00 - 6.00	11.90	12.00	15.00	1.50	20.00	10.50	45.00	3955-M10E1	-	1
M 10x1.50	2.00 - 5.00	12.90	13.00	16.00	1.50	21.00	13.00	45.00	3955-M10E2	1,25	1
M 10x1.50	3.50 - 6.50	12.90	13.00	15.70	1.60	25.00	14.50	45.00	3955-M10E3	2,02	1
M 12x1.75	1.60 - 5.00	14.90	15.00	18.00	1.50	22.50	14.50	50.00	3955-M12	-	1
M 12x1.75	1.50 - 4.50	15.90	16.00	19.00	1.70	24.00	14.00	50.00	3955-M12E1	2,11	1
M 12x1.75	4.00 - 7.50	15.90	16.00	19.00	1.90	29.00	17.50	50.00	3955-M12E2	-	1

- Check price and availability

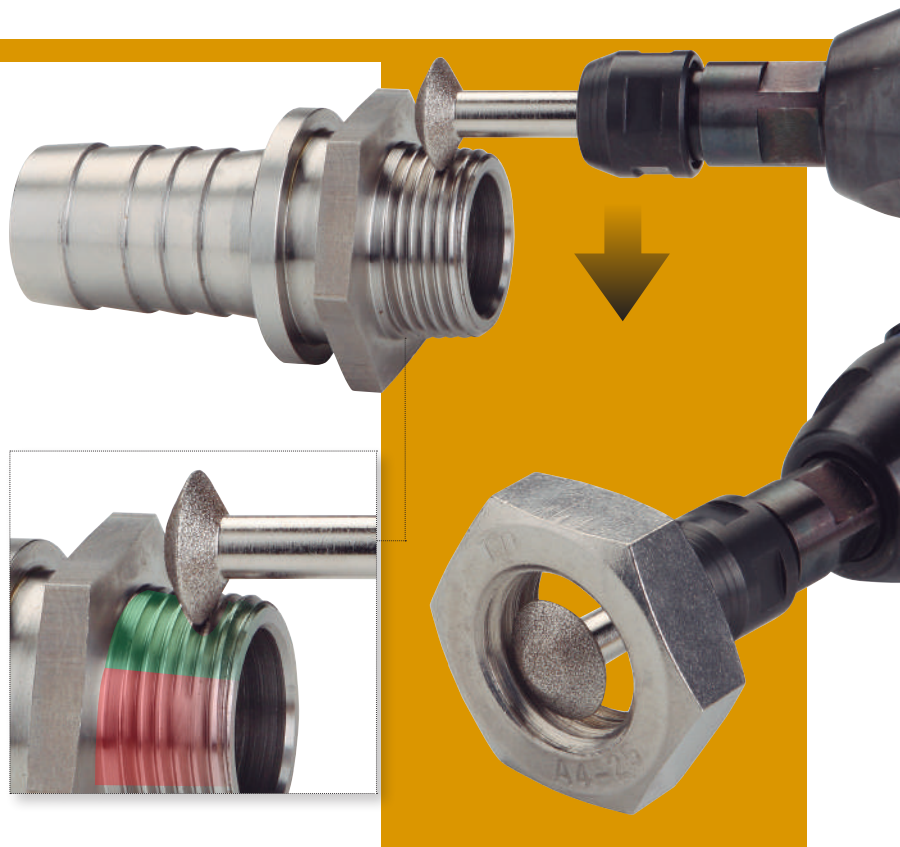

3951

3952


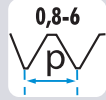
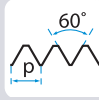
**ROTA
HREAD®**
by *celesa*



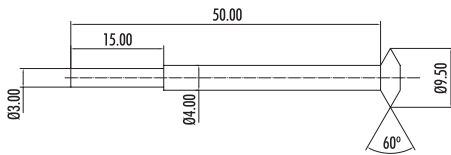
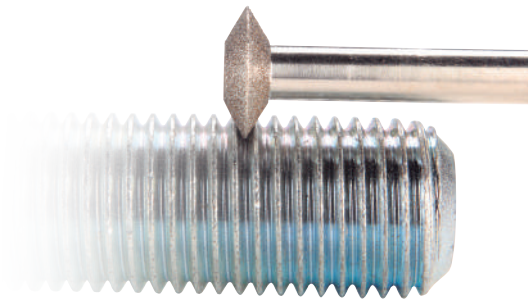
THREAD RESTORING CBN ROTARY BURRS

- Start tooling in good thread area (GREEN) and work into damaged area (RED). Moving along the thread profile over damaged area (RED) staying in thread path with light tool pressure. Let the tool do the Work.
- Keep tool clean & use cutting oil in order to improve performance and tool life.
- Repeat steps on needed areas.

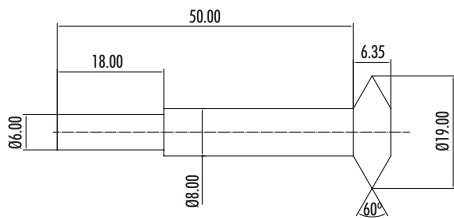
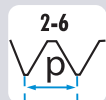
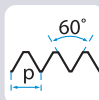


THREAD RESTORING CBN ROTARY BURRS
**ROTA
 THREAD®**
 by CELESA


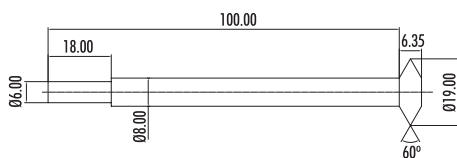
- This Tool restores both internal and external threads precisely.
- **Limitation:** Minimal pitch 0.80mm or 28tpi. In case of internal threads, minimal size to be restored is M12 or 1/2".


 Ref. LRR1
 55,86 €


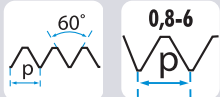
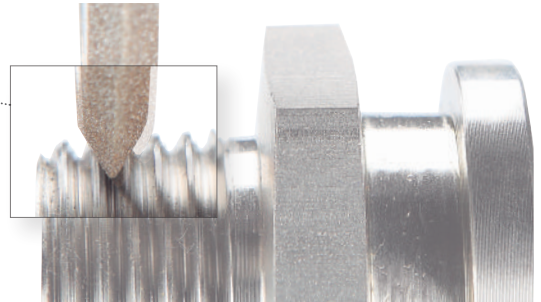
- This Tool restores both internal and external threads precisely. Specially designed for large pitches
- **Limitation:** Minimal pitch 2mm or 12tpi. In case of internal threads, minimal size to be restored is M22 or 7/8.


 Ref. LRR2
 70,76 €


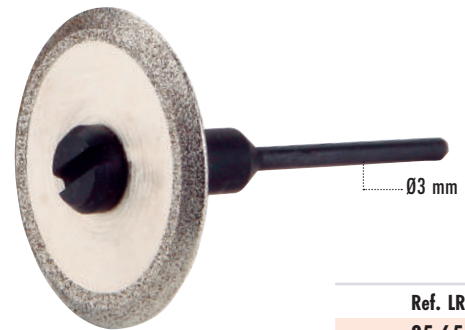
- This Tool restores both internal and external threads precisely. Specially designed for large pitches. LONG REACH TOOL.
- **Limitation:** Minimal pitch 2mm or 12tpi. In case of internal threads, minimal size to be restored is M22 or 7/8.


 Ref. LRR3
 80,07 €


ROTA THREAD[®] by CELESA

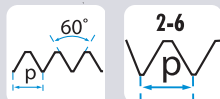
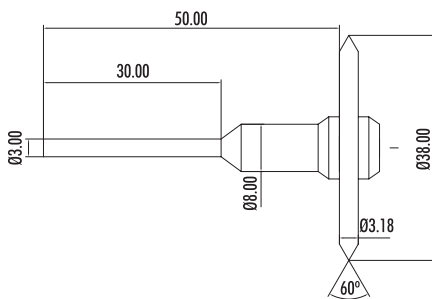


- This Tool restores both internal and external threads precisely. The 38mm diameter offers clearance when working on the threads that are damaged closer to the head of the fasteners.
- **Limitation:** Minimal pitch 0.80mm or 28tpi

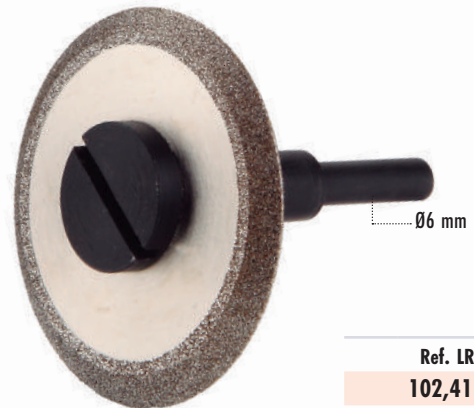


Ø3 mm

Ref. LRR4
85,65 €

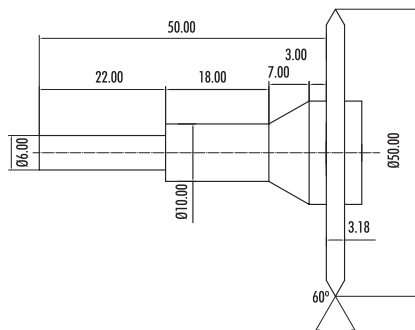


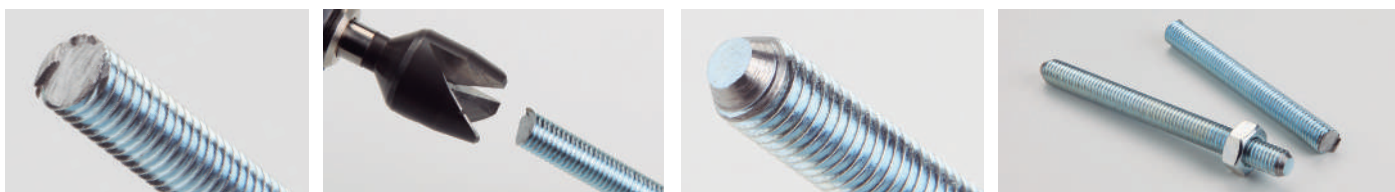
- This Tool restores both internal and external threads precisely. The 50mm diameter offers clearance when working on the threads that are damaged closer to the head of the fasteners.
- **Limitation:** Minimal pitch 2mm or 12tpi



Ø6 mm

Ref. LRR5
102,41 €



EXTERNAL COUNTERSINKS FOR RESTORING STARTING THREADS

External Countersink

These external countersinks quickly repair starting damaged thread of screws and threaded rods. Those starting threads are usually hit or cut off with a die grinder so burr generated in those threads do not let the nut start. These countersinks shear off those threads and chamfer the thread 60° in order to make a smooth start of the nut.

- This tool does not over heat or spark.
- This tool must be used in low cutting speed. (Max 500RPM).
- Cut magic metalworking fluid makes operation easier.
- Use hand power Tools, especially battery mode ones.

HSS



AVEXT

MIN.-MAX.	Hexagon	L ₁ mm		€
M8-M18	1/4"	75	AVEXT	28,11

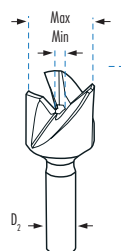
AVMDEXT

MIN.-MAX.	Hexagon		€
5-25 mm	1/4"	AVMDEXT	32,36

INOX

SOLID
CARBIDE

HSS



AV

MIN.-MAX.	D ₁ mm	D ₂ mm	L ₁ mm		€
M3-M8	3,0	8,0	55	AVX1-60	44,38
M6-M14	6,0	10,0	60	AVX2-60	88,11
M10-M27	10,0	13,0	75	AVX3-60	132,04

THREAD RESTORING FILES
Easy
to use

Do not buy, just repair.

Pitch identification: If you are not sure of the thread size, match up the bolt thread to one of the file sides. Some of the thread sizes may appear similar, so double-check with the file firmly engaged with the section of good threads placed in front of a bright light to highlight that the file is correct for the thread.

Repairation: Once you are sure you have the correct side, gently stoke the threads just like doing a finish filing job on a piece of metal. Not too hard and not too soft. Don't worry about cutting too deep or flattening the cylindrical bolt shape, the file limits the cut depth. Start with the good section of thread just next to the bugged part and start filing around the bolt toward the known bad section. After one file pass, spritz some CUT MAGIC fluid and try the nut for smooth spin-on. If it binds don't force it, make another pass instead.

 For external threads
 Metric pitches:

0,75 - 1,00 - 1,25 - 1,50 - 1,75 - 2,00 - 2,50 - 3,00

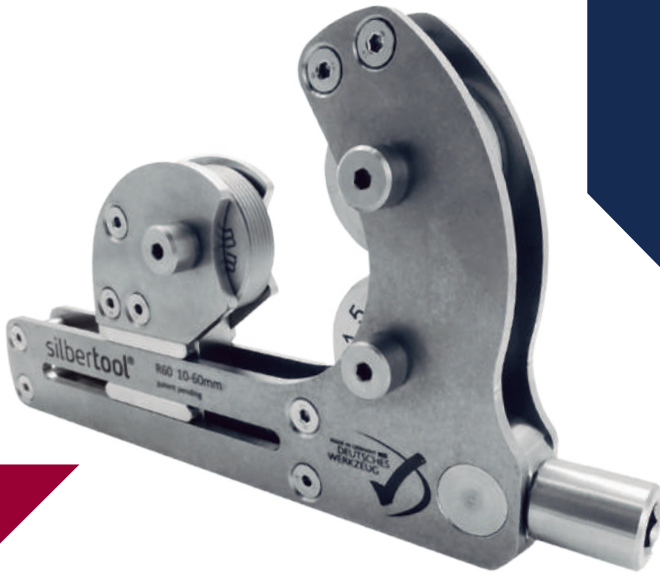

 Ref. LR1
 40,09 €

 For external and internal threads
 Metric pitches:

0,80 - 1,00 - 1,25 - 1,50 - 1,75 - 2,00 - 2,50 - 3,00


 Ref. LR2
 60,20 €

silbertool[®]
by *celesa*

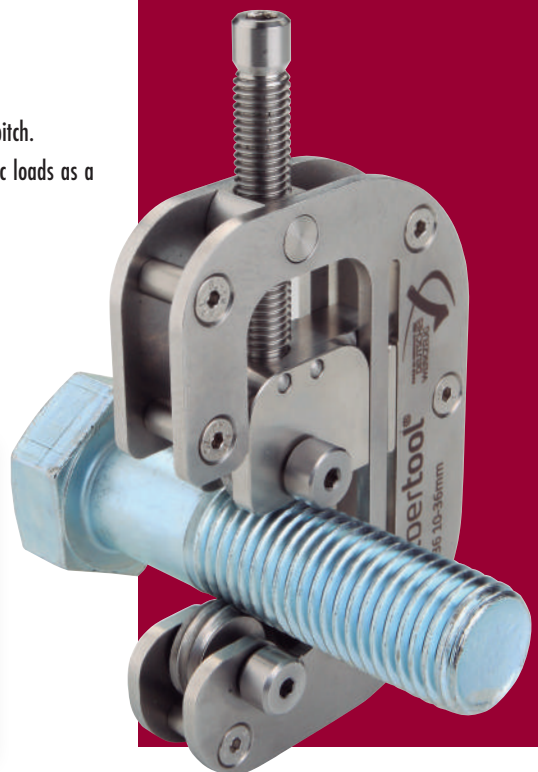
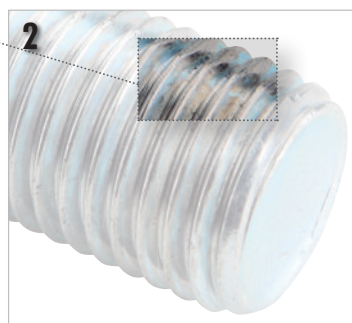
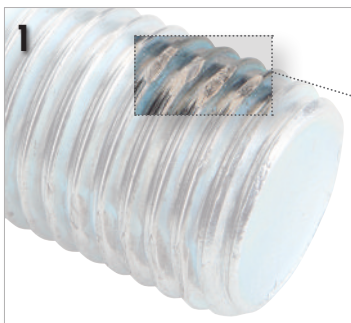


EXTERNAL THREAD REPAIR ROLLING TOOL

Silbertool repairing tool is the perfect solution for extremely damaged threads where removal of material (like happens with threading dies or other external repairing tools) becomes the thread irreversibly weak and render it useless right away. A wide range of rollers offers versatility because just replacing rollers plenty of different sizes could be repaired. Installing one pitch, many threads in that pitch are workable. For Example M6X1, M8X1, M10X1, M12X1, M14X1, etc... versatile, easy... very useful.

Advantages

- External threads are repaired without removal of material so the thread does not become weaker.
- Only one Silbertool® Thread - Repair Tools is needed to repair any pitch. Each roller repair one pitch.
- It has been proven that a thread repaired with Silbertool® withstands the same static and dynamic loads as a new undamaged thread. Moreover, they showed a higher fatigue endurance limit.
- During repairing process the surface of the thread becomes perfectly clean; without any burr.
- Use Cut Magic metalworking fluid in order to reduce repairing effort.



NON-INVASIVE RESTORING

EXTERNAL THREAD REPAIR ROLLING TOOL

M
MF

Ref. R16



M / MF			R16
M5 - M16	0,50 - 2,00	R16	€ / Unit 394,18

Rollers not included.



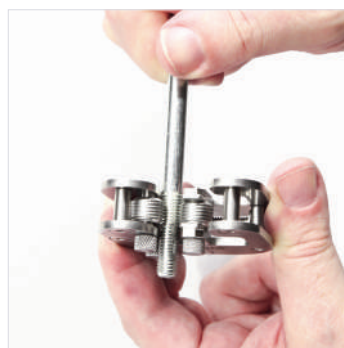
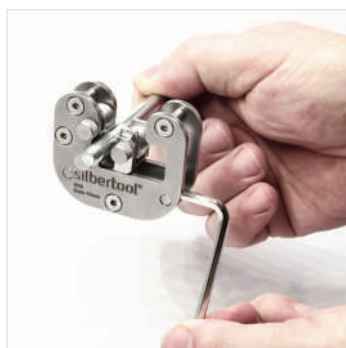
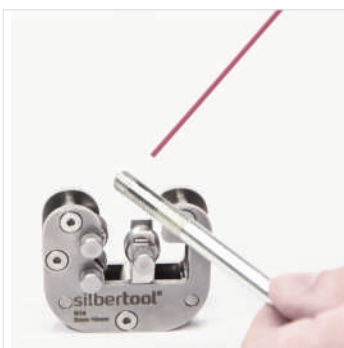
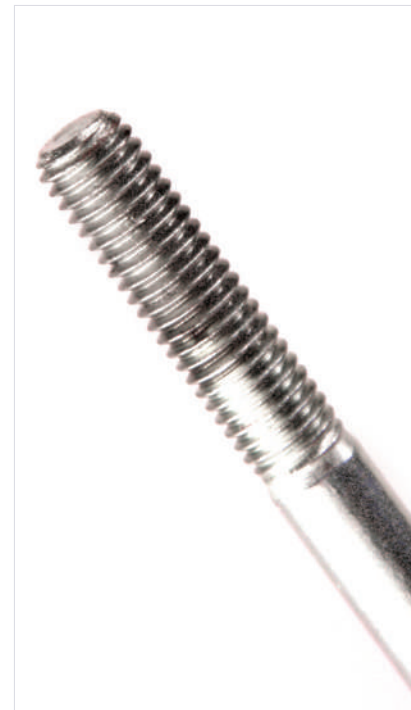
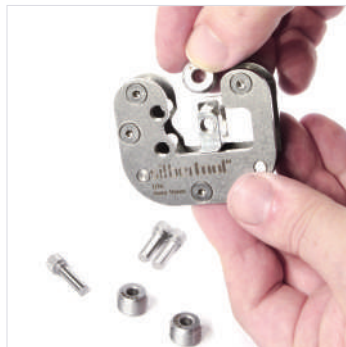
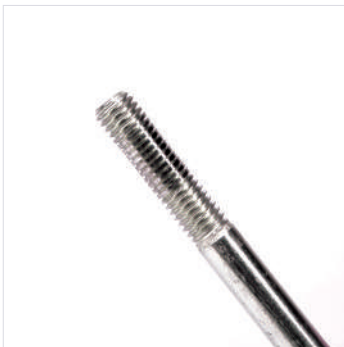
Ref. R160175



Ref. R160125

SET OF ROLLERS

M / MF			€ / Unit		€ / Unit
M5 - M16	0.50	R160050	84,25	R16I0050	112,42
M5 - M16	0.75	R160075	84,25	R16I0075	112,42
M5 - M16	0.80	R160080	84,25	R16I0080	112,42
M5 - M16	1.00	R160100	84,25	R16I0100	112,42
M5 - M16	1.25	R160125	84,25	R16I0125	112,42
M5 - M16	1.50	R160150	84,25	R16I0150	112,42
M5 - M16	1.75	R160175	84,25	R16I0175	112,42
M5 - M16	2.00	R160200	84,25	R16I0200	112,42



EXTERNAL THREAD REPAIR ROLLING TOOL

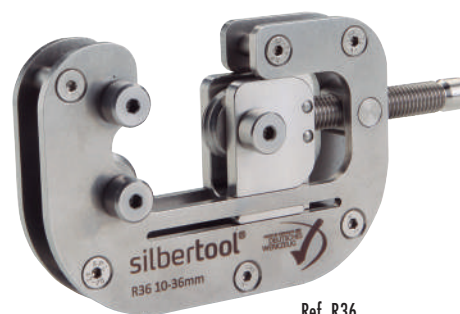


Ref. R360250



SET OF ROLLERS

M / MF			€/ Unit		€/ Unit
M10 - M36	0.50	R360050	128,37	R3610050	154,10
M10 - M36	0.75	R360075	128,37	R3610075	154,10
M10 - M36	1.00	R360100	128,37	R3610100	154,10
M10 - M36	1.25	R360125	128,37	R3610125	154,10
M10 - M36	1.50	R360150	128,37	R3610150	154,10
M10 - M36	1.75	R360175	128,37	R3610175	154,10
M10 - M36	2.00	R360200	128,37	R3610200	154,10
M10 - M36	2.50	R360250	128,37	R3610250	154,10
M10 - M36	3.00	R360300	128,37	R3610300	154,10
M10 - M36	3.50	R360350	128,37	R3610350	154,10
M10 - M36	4.00	R360400	128,37	R3610400	154,10



Ref. R36

M / MF			€/ Unit
M10 - M36	0.50 - 4.00	R36	900,12

R36

Rollers not included.



Ref. R600050



SET OF ROLLERS

M / MF			€/ Unit		€/ Unit
M10 - M60 - M110	0.50	R600050	231,27	R6010050	257,00
M10 - M60 - M110	0.80	R600080	231,27	R6010080	257,00
M10 - M60 - M110	1.00	R600100	231,27	R6010100	257,00
M10 - M60 - M110	1.25	R600125	231,27	R6010125	257,00
M10 - M60 - M110	1.50	R600150	231,27	R6010150	257,00
M10 - M60 - M110	1.75	R600175	231,27	R6010175	257,00
M10 - M60 - M110	2.00	R600200	231,27	R6010200	257,00
M10 - M60 - M110	2.50	R600250	231,27	R6010250	257,00
M10 - M60 - M110	3.00	R600300	231,27	R6010300	257,00

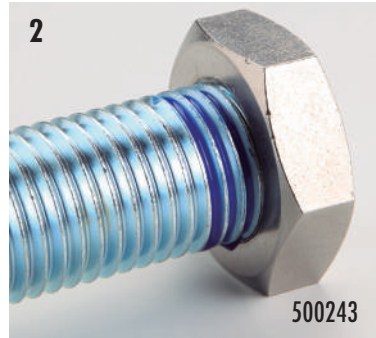


Ref. R60

M / MF			€/ Unit
M10 - M60	0.50 - 3.00	R60	1.157,37
M50 - M110	0.50 - 3.00	R110	1.800,50

R60/110

Rollers not included.



Anaerobic adhesives and sealants. Threadlocking

This product has been specially designed for Industrial threadlocking, retaining and sealing of threaded connections in order to get higher mechanical resistance.

Advantages

- The characteristic feature of POWERLOCK is the curing in contact with metal while deprived of air.
- It provides a shock- and vibration resistant joint with an excellent resistance to chemicals and solvents.
- Due to its liquid consistency POWERLOCK completely fills the gaps, thus giving protection against leakage and fretting corrosion.
- POWERLOCK is simple, easy to use and very economical. Handling strength is reached within a few minutes and final strength within a few hours at room temperature.
- POWERLOCK is suitable for all metals and certain plastics.

Main applications

- For locking, fastening and sealing of screw connections from M5 to M36.
- For reliable retaining of bearings, bushings, bolts and other press or slip fitted connections.
- For sealing and locking hydraulic and pneumatic pipe connections.

Active and passive materials

Active Materials (Fast curing)	Passive Materials (Slower curing)
<ul style="list-style-type: none"> • Bronze • Iron • Cooper • Brass • Steel 	<ul style="list-style-type: none"> • High-alloyed steel • Aluminium, nickel, zinc, gold • Oxid layers



	Colour	Application range	Viscosity at +25°C	Max. gap filling	Breakaway strength	Prevailing strength	Shear Strength (N/mm ²)	Handling strength at room temperature	Final strength at room temperature	Operation temperature	€
500222 *	Blue	M1-M36	1.000 mPa-s	0,20 mm	4-8 Nm	2-4 Nm	3-5 N/mm ² (435-725 psi)	10-20 min.	3-6 h.	-60 - +150°C (-76 - +302°F)	42,99
500243 **	Red	M1-M36	2.000 - 7.000 mPa-s	0,25 mm	17-22 Nm	8-12 Nm	9-13 N/mm ² (1.305-1.885 psi)	10-20 min.	1-3 h.	-60 - +150°C (-76 - +302°F)	42,99
500270 ***	Green	M1-M20	500 mPa-s	0,15 mm	28-35 Nm	50-65 Nm	15-20 N/mm ² (2.175-2.900 psi)	10-20 min.	3-6 h.	-60 - +150°C (-76 - +302°F)	42,99

* Low Strength (easy disassembling) ** Medium Strength (disassembling with regular tools) *** High strength (disassembling only with heat)

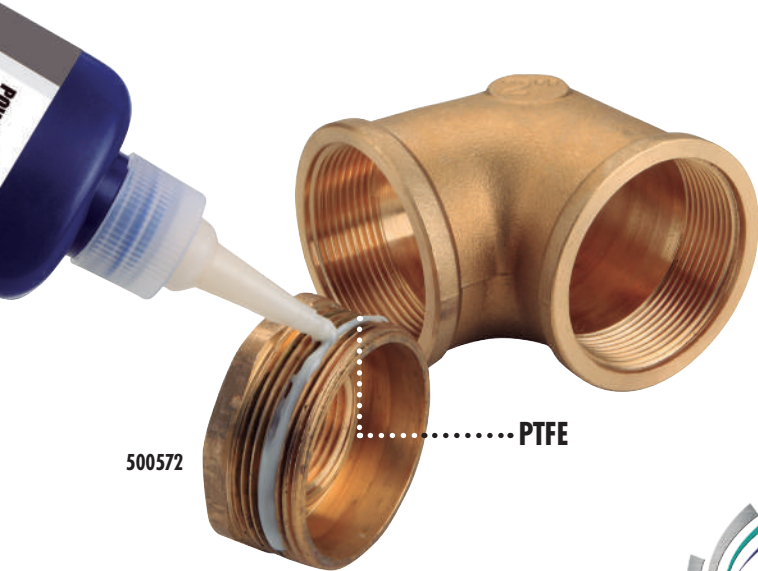


Cleaning of bonding surfaces before using adhesives and sealants

Surface Cleaner is used for cleaning and degreasing of surfaces to be joined or sealed with POWERLOCK adhesives and sealants. It cleans and evaporates leaving no residue.



500001
16,01 €



500572



500572

Hydraulic and pneumatic threaded pipe systems sealant

POWERLOCK pipe and thread sealing types have especially been formulated to prevent the escape of gaseous and liquid substances and they seal up to burst point and resist almost all substances used in industry

Advantages

- The use of POWERLOCK prevents clogging and contamination of fittings as well as the blockage of hydraulic and pneumatic valves as may occur with conventional sealing methods (e.g. hemp or Teflon tape).
- Connections sealed with POWERLOCK are protected against seizing and fretting corrosion. The available different strength grades allow dismantling even after years. POWERLOCK Pipe
- POWERLOCK Pipe and thread sealing is the best solution to create fully sealed threaded connections which totally avoid any leakage.

Recommendations for User




Application

POWERLOCK is ready for use and should be applied evenly direct from the bottle/tube with the dispensing tip (avoid direct contact of dispensing tip with metal). On press fitted parts and larger cylindrical assemblies a thin and uniform layer should be applied on both surfaces. In the case of threaded blind holes fill sufficient quantity in the bore hole. On screws and bolts, apply POWERLOCK around the thread.

Do not pour back into the bottle any POWERLOCK fluid which had contact with metal; even smallest metal particles will cause the content of the bottle to cure.



500542

	Colour	Application range	Viscosity at +25°C	Max. gap filling	Breakaway strength	Prevailing strength	Shear Strength (N/mm ²)	Handling strength at room temperature	Final strength at room temperature	Operation temperature	€
500542 		G 1/8"-3/4"	500 mPa-s	0,15 mm	12-15 Nm	18-22 Nm	8-12 N/mm ² (1.160-1.740 psi)	10-20 min.	2-4 h.	-60 - +150°C (-76 - +302°F)	42,99
500572 ** 		G 1/8"-3"	17.000-50.000 mPa-s	0,40 mm	7-10 Nm	2-4 Nm	4-6 N/mm ² (580-870 psi)	20-40 min.	5-10 h.	-60 - +150°C (-76 - +302°F)	25,84

** PTFE

* Material safety data sheet available.



	Free running insert		Group Code		High Speed Steel STI Tap
	Screw Locking Insert		Installed Insert Length = $\varnothing \times 1.0$		HSS STI Tap M/MF, UNC, UNF, 8 UN, NPT
	Metric course and metric fine		Installed Insert Length = $\varnothing \times 1.5$		HSS STI Tap BSW, BSF, BSP, BSB
	Unified National Course		Installed Insert Length = $\varnothing \times 2.0$		HSS STI Tap BA
	Unified National Fine		Installed Insert Length = $\varnothing \times 2.5$		Spark Plug - HSS Pilot Nose STI Tap
	British Standard Whitworth		Installed Insert Length = $\varnothing \times 3.0$		HSS - V3 (3%V) Spiral Flute STI Tap
	British Standard Fine		Installed Insert Length = $\varnothing \times 3.5$		HSS - V3 (3%V) Spiral Point (Gun Nose) STI Tap
	British Standard Pipe		Installed Insert length Codification = $\varnothing \times "D"$		STI Tap 5H/6H Tolerance
	National Pipe Taper		304 Stainless steel insert		STI Tap 2B-3B Tolerance
	8-UN Constant Pitch		Spark plug Installed insert Length		Strip Feed Inserts
	British Association		Standard Compliance By Special Order		Low Volume
	British Standard Brass		Insert Standard Compliance		Low - Medium Volume
			High Speed Steel Drill		High Volume
			STI Go No - Go Gauges		Hand Installation Tool



Insert Diameter	Pich (mm & TPI)	Installed Length	Units of packing	No of inserts	Drill Diameter	Tap	Instal Toll Part No	Tang Break Part No