FASTENING SYSTEMS

ATS
bet on us

Company certified to the UNI EN ISO 9001:2015 Quality Management System, Reg. 3023-A

INDEX SELF-CLINCHING INSERTS

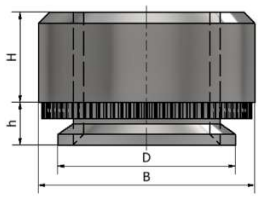
INDEX OF THREADED INSERTS

INDEX OF THREADED INSERTS WITH KEYS

INDEX BLIND RIVETS

RIVETING MACHINES FOR BLIND RIVETS		
	**ATSRL4000SV**	Pag. 103
	**ATSRL4000MV**	Pag. 103
	**ATSRL4000HV**	Pag. 103
	**ATSRL520**	Pag. 103
	**AUTOMATIC RIVETER**	Pag. 103

SELF-CLINCHING NUTS



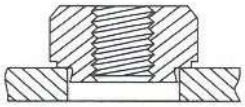
They ensure threads that can withstand high tensile and torsional loads on sheet metal, even of minimal thickness (not less than 0,8mm). None of the products in our technical data sheet or those designed to order contain hazardous substances within the meaning of and for the purposes of Directive 2002/95/ec (RoHS), Regulation (EC) No 1907/2006 (REACH) and the Cr VI exemption.

FEATURES AND DIMENSIONS

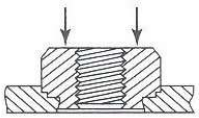
THREAD CLASS ISO 6H	TYPE		h.MAX	MINIMUM SHEET THICKNESS	H +/-0,1 SEE S.T.	B +/-0,2 SEE S.T.	D MAX SEE S.T.	HOLE +0,08-0,00	MINIMUM DISTANCE FROM THE EDGE
	GALVANIZED STEEL C PROFILE FOR SHEETS UP TO 80 HRB	A2 CS STAINLESS STEEL FOR SHEETS UP TO 70 HRB							
M.2X0,4	ATS0000020.0	ATS0000020.0I	0,76	0,8	1.5	6.3	4.22	4.25	4.8
M.2X0,4	ATS0000020.1	ATS0000020.1I	0.97	1.0	1.5	6.3	4.22	4.25	4.8
M.2X0,4	ATS0000020.2	ATS0000020.2I	1.37	1.4	1.5	6.3	4.22	4.25	4.8
M.2X0,4	ATS0000020.3	ATS0000020.3I	2.3	2.3	1.5	6.3	4.22	4.25	4.8
M.2,5X0,45	ATS0000025.0	ATS0000025.0I	0.76	0.8	1.5	6.3	4.22	4.25	4.8
M.2,5X0,45	ATS0000025.1	ATS0000025.1I	0,97	1.0	1.5	6.3	4.22	4.25	4.8
M.2,5X0,45	ATS0000025.2	ATS0000025.2I	1.37	1.4	1.5	6.3	4.22	4.25	4.8
M.2,5X0,45	ATS0000025.3	ATS0000025.3I	2.21	2.3	1.5	6.3	4.22	4.25	4.8
M.3X0,5	ATS0000030.0	ATS0000030.0I	0,76	0.8	1.5	6.3	4.22	4.25	4.8
M.3X0,5	ATS0000030.1	ATS0000030.1I	0,97	1.0	1.5	6.3	4.22	4.25	4.8
M.3X0,5	ATS0000030.2	ATS0000030.2I	1.37	1.4	1.5	6.3	4.22	4.25	4.8
M.3X0,5	ATS0000030.3	ATS0000030.3I	2.21	2.3	1.5	6.3	4.22	4.25	4.8
M.3X0,5	ATS00000300FA		0.76	0.8	1.71	7.1	4.72	4.75	4.8
M.3X0,5	ATS00000301FA		0.97	1	1.71	7.1	4.72	4.75	4.8
M.3X0,5	ATS00000302FA		1.37	1.4	1.71	7.1	4.72	4.75	4.8
M.3X0,5	ATS00000303FA		2.21	2.3	1.71	7.1	4.72	4.75	4.8
M.4X0,7	ATS0000040.0	ATS0000040.0I	0.76	0.8	2.0	7.9	5.38	5.4	6.9
M.4X0,7	ATS0000040.1	ATS0000040.1I	0.97	1.0	2.0	7.9	5.38	5.4	6.9
M.4X0,7	ATS0000040.2	ATS0000040.2I	1.37	1.4	2.0	7.9	5.38	5.4	6.9
M.4X0,7	ATS0000040.3	ATS0000040.3I	2.21	2.3	2.0	7.9	5.38	5.4	6.9
M.5X0,8	ATS0000050.0	ATS0000050.0I	0.76	0.8	2.0	8.7	6.38	6.4	7.1
M.5X0,8	ATS0000050.1	ATS0000050.1I	0.97	1.0	2.0	8.7	6.38	6.4	7.1
M.5X0,8	ATS0000050.2	ATS0000050.2I	1.37	1.4	2.0	8.7	6.38	6.4	7.1
M.5X0,8	ATS0000050.3	ATS0000050.3I	2.21	2.3	2.0	8.7	6.38	6.4	7.1
M.6X1,0	ATS0000060.0	ATS0000060.0I	1.15	1.2	4.08	11.05	8.72	8.75	8.6
M.6X1,0	ATS0000060.1	ATS0000060.1I	1.37	1.4	4.08	11.05	8.72	8.75	8.6
M.6X1,0	ATS0000060.2	ATS0000060.2I	2.21	2.3	4.08	11.05	8.72	8.75	8.6
M.6X1,0	ATS0000060.3	ATS0000060.3I	3.05	3.2	4.08	11.05	8.72	8.75	8.6
M.8X1,25	ATS0000080.1	ATS0000080.1I	1.37	1.4	5.47	12.65	10.44	10.50	9.7
M.8X1,25	ATS0000080.2	ATS0000080.2I	2.21	2.3	5.47	12.65	10.44	10.50	9.7
M.8X1,25	ATS0000080.3	ATS0000080.3I	3.05	3.2	5.47	12.65	10.44	10.50	9.7
M.10X1.5	ATS0000010.1	ATS0000010.1I	2.21	2.3	7.5	17.35	13.9	14	11
M.10X1.5	ATS0000010.2	ATS0000010.2I	3.05	3.1	7.5	17.35	13.9	14	11
M.10X1.5	ATS0000010.3		5.97	6.1	7.5	17.35	13.9	14	11
M.10X1.5	ATS0000010.1A		2.21	2.3	6.72	14.3	12.65	12.7	11
M.10X1.5	ATS0000010.2A	ATS0000010.2IA	3.05	3.1	6.72	14.3	12.65	12.7	11
M.10X1.5	ATS0000010.3A		5.97	6.1	6.72	14.3	12.65	12.7	11
M.12X1.75	ATS0000012.1		3.05	3.1	8.5	20.55	16.9	17	16
M.12X1.75	ATS0000012.2		5.97	6.1	8.5	20.55	16.9	17	16

All dimensions are expressed in mm

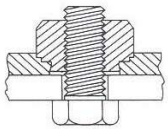
SELF-CLINCHING NUTS



The nut must be positioned carefully in the hole



Pressure must be applied evenly to the nut head



The bolt must be tightened from the side opposite the nut head

TECHNICAL SPECIFICATIONS

THREAD SIZE	Lenght	Steel sheet up to 80 HRB			Sheet aluminium 5052 – H34			Stainless steel sheet up to 70 HRB		
		INSTALLATION FORCE (kN)	EJECTION (N)	TORQUE (Nm)	INSTALLATION FORCE (kN)	EJECTION (N)	TORQUE (Nm)	INSTALLATION FORCE (kN)	EJECTION (N)	TORQUE (Nm)
M 2 M 2.5 M 3 *	- 0	11.2 – 15.6	470	2.1	6.7 – 8.9	280	0.9	15 – 25	600	1.5
	- 1		550			400	1.1		680	1.8
	- 2		935			750	1.4		1290	2.1
	- 3		1025			890	1.4	-	-	-
M 4 *	- 0	18 – 27	490	2.9	11.2 – 13.4	300	2.3	21 – 34	600	3.0
	- 1		645	2.9		470	2.6		800	4.0
	- 2		1020	4.2		845	4.0		1600	5.2
	- 3		1250	4.2		1120	4.0	-	-	-
M 5 *	- 0	18 – 36	530	3.6	11.2 – 15.6	300	3.0	25 – 43	650	3.5
	- 1		800	3.6		480	3.6		1025	4.4
	- 2		1110	6.0		845	4.7		1775	7.0
	- 3		1310	6.0		1225	5.7	-	-	-
M 6 *	- 0	25 – 38	1380	11.8	18 – 32	970	7.9	-	-	-
	- 1							4.5	2200	18.0
	- 2		1645			1400	11.8	-	-	-
	- 3							-	-	-
M 8	- 1	27 – 39	1870	26.0	18 – 32	1495	23.7	-	-	-
	- 2							-	-	-
	- 3							-	-	-
M10	- 1	32-50	2020	36.2	22-36	1760	32.7	-	-	-
	- 2							-	-	-
	- 3							-	-	-

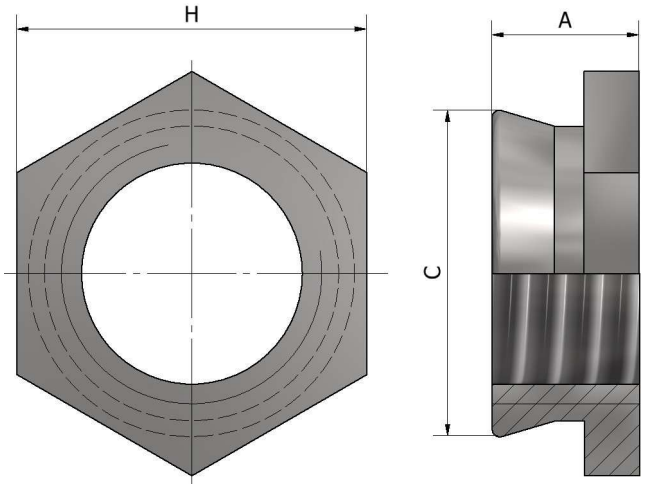
All dimensions are expressed in mm
The figures are for reference only

The ejection and tightening values are valid provided that the installation specifications are carefully followed. Variations in the hole, the sheet metal and the installation procedures will affect these values.

SELF-CLINCHING FLUSH NUT

ATS-CFL

STAINLESS STEEL – A2



FEATURES AND DIMENSIONS

THREAD CLASS ISO 6H	ARTICLE A2 CS STAINLESS STEEL ITEM FOR SHEETS UP TO 70 HRB	STEM	A MAX	SHEET METAL THICKNESS	HOLE +0,08	C MAX	H MAX	MINIMUM DISTANCE FROM THE EDGE
M.2X0,4	ATS0000020.1CFL	1	1.5	1.5-2.3	4.4	4.34	4.8	6
	ATS0000020.2CFL	2	2.3	2.32-over				
M.2,5X0,45	ATS0000025.1CFL	1	1.5	1.5-2.3	4.4	4.34	4.8	6
	ATS0000025.2CFL	2	2.3	2.32-over				
M.3X0,5	ATS0000030.1CFL	1	1.5	1.5-2.3	4.4	4.34	4.8	6
	ATS0000030.2CFL	2	2.3	2.32-over				
M.4X0,7	ATS0000040.1CFL	1	1.5	1.5-2.3	7.4	7.34	7.9	7.2
	ATS0000040.2CFL	2	2.3	2.32-over				
M.5X0,8	ATS0000050.1CFL	1	1.5	1.5-2.3	7.9	7.87	8.7	8
	ATS0000050.2CFL	2	2.3	2.32-over				
M.6X1	ATS0000060.1CFL	1	3.1	3.2-3.9	8.75	8.71	9.5	8.8
	ATS0000060.2CFL	2	3.9	4-4.7				
	ATS0000060.3CFL	3	4.7	4.72-over				

All dimensions are expressed in mm

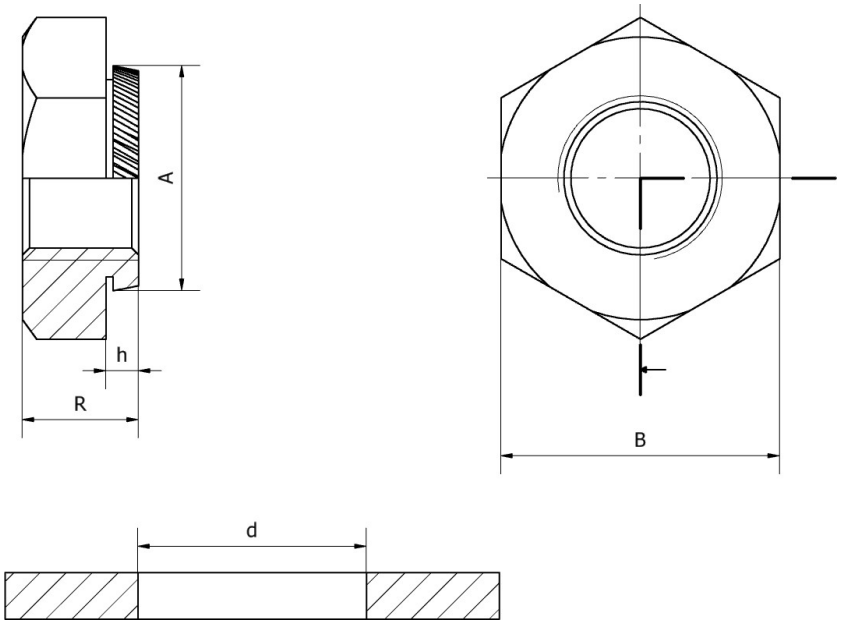
SELF-CLINCHING FLUSH NUT

TECHNICAL SPECIFICATIONS

THREAD SIZE	STEM	MAXIMUM AXIAL LOAD (kN)	TORQUE (N.m)	SHEET METAL			
				5052-H34 ALUMINIUM		IRON	
				INSTALLATION (kN)	EJECTION (kN)	INSTALLATION (kN)	EJECTION (kN)
M 2	1	0.57	0.16	8.9	0.9	13.3	0.9
	2						
M 2,5	1	0.68	0.23	8.9	0.9	13.3	0.9
	2						
M 3	1	0.85	0.36	8.9	0.9	13.3	0.9
	2						
M 4	1	1	0.58	8.9	1.1	17.8	1.1
	2						
M 5	1	1.3	0.88	11.1	1.1	17.8	1.1
	2						
M 6	3	4.5	3.7	15.6	2.8	20	3.7
	4						
	5						

All dimensions are expressed in mm
The figures are for reference only

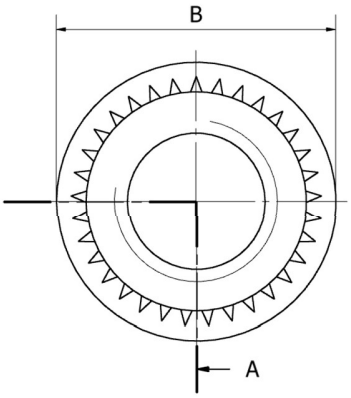
SELF-CLINCHING HEXAGONAL NUTS

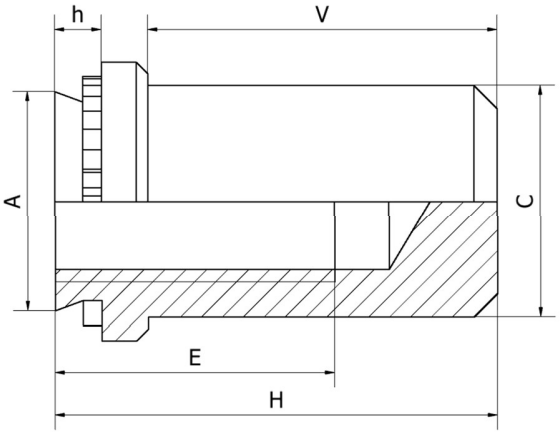


Thread x Pitch	Code		Thickness min. sheet metal	B	d Hole	A	h Collar height	R Total height
	Galvanized steel	Stainless steel						
M2 x 0,4	On request	On request	1	5,5	4,5	4,7	0,9	3
M2,5 x 0,45	ATSKZM2,5.09	ATSKSM2,5.09	1	5,5	4,5	4,7	0,9	3
	ATSKZM2,5.14	On request	1,5				1,4	
	On request	On request	2				1,8	
M3 x 0,5	ATSKZM3.09	On request	1	5,5	4,5	4,7	0,9	3
	ATSKZM3.14	ATSKSM3.14	1,5				1,4	
	On request	ATSKSM3.18	2				1,8	
M4 x 0,7	ATSKZM4.09	On request	1	7	5,5	5,7	0,9	3,2
	ATSKZM4.14	On request	1,5				1,4	
	ATSKZM4.18	ATSKSM4.18	2				1,8	4,5
M5 x 0,8	ATSKZM5.09	On request	1	8	6,5	6,75	0,9	4
	ATSKZM5.14	On request	1,5				1,4	
	ATSKZM5.18	On request	2				1,8	5
M6 x 1	ATSKZM6.09	On request	1	10	8	8,3	0,9	5
	ATSKZM6.14	On request	1,5				1,4	
	ATSKZM6.18	ATSKSM6.18	2				1,8	
M8 x 1,25	ATSKZM8.18	ATSKSM8.18	2	13	10	10,3	1,8	6,5
M10 x 1,5	ATSKZM10.18	ATSKSM10.18	2	15	12,5	12,85	1,8	8
M12 x 1,75	ATSKZM12.28	ATSKSM12.28	3	17	14,5	14,85	2,8	10
M16 x 2	On request	On request	3	22	18,5	18,85	2,4	13
M20 x 2,5	On request	On request	4	27	23	23,4	3,8	16

All dimension are expressed in mm

BLIND SELF-CLINCHING NUTS





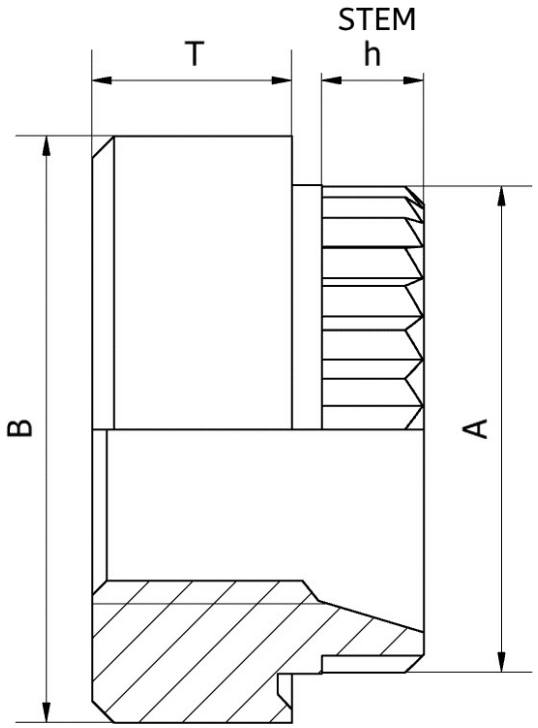
Thread x Pitch	Code		h Max.	Min. sheet thickness	H	C Max	E Min	V Max	A Max	B	Hole	Min. distance from the edge
	Galvanized steel	Stainless steel										
M3 x 0,5	ATS00000 30.1C	On request	0,97	1	9,6	3,84	5,3	8,5	4,22	6,35	4,25	4,8
	On request	On request	1,37	1,4								
M4 x 0,7	On request	On request	0,97	1	11,2	5,2	7,1	9,8	5,38	7,95	5,4	6,9
	ATS00000 40.2C	On request	1,37	1,4								
M5 x 0,8	ATS00000 50.1C	ATS00000 50.1IC	0,97	1	11,2	6	7,1	9,8	6,38	8,75	6,4	7,1
	ATS00000 50.2C	On request	1,37	1,4								
M6 x 1	ATS00000 60.1C	On request	1,37	1,4	14,3	7,8	7,8	12,7	8,73	11,1	8,75	8,6
	On request	On request	2.21	2,3								

All dimensions are expressed in mm

SELF-CLINCHING NUTS FOR PC BOARDS

ATSARB
GALVANIZED STEEL

ATSARBS
STAINLESS STEEL



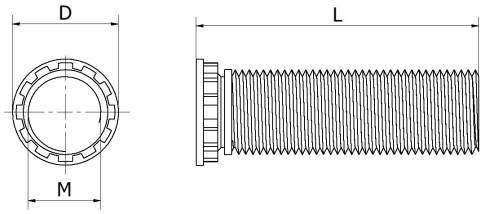
FEATURES AND DIMENSIONS					
Thread x Pitch	**A**	**B**	**T**	**Hole**	**Sheet thickness**
M2 x 0,4	3,52	4,98	2,28	3,6	On request
M2,5 x 0,45	4,21	5,49	2,81	4,3	On request
M3 x 0,5	4,21	5,49	2,81	4,3	On request
M4 x 0,7	5,42	7,01	3,21	5,5	On request
M5 x 0,8	6,41	8,49	3,81	6,5	On request
M6 x 1	7,62	10	5,11	7,7	On request
M8 x 1,25	9,71	12	6,51	9,8	On request

SHEET METAL THICKNESSES								
0,5 – 0,6	0,7 – 0,8	0,9 – 1	1,1 – 1,3	1,4 – 1,6	1,7 – 1,9	2 – 2,2	2,3 – 2,5	2,6 – 2,8
2,9 – 3,1	3,2 – 3,4	3,5 – 3,7	3,8 – 4	4,1 – 4,3	4,4 – 4,6	4,7 – 4,9	5 – 5,9	–

All dimensions are expressed in mm

SELF-CLINCHING STUDS

Self-clinching studs enable threads to be formed in thin sheet metal (minimum thickness 1 mm) with excellent resistance to torsion and tensile forces.



FEATURES AND DIMENSIONS

THREAD CLASS ISO 6H	TYPE				L	D +/-0,25	HOLE +0.08/-0.00	MINIMUM DISTANCE FROM THE EDGE
	GALVANIZED STEEL AH – FOR SHEETS UP TO 80 HRB	STAINLESS STEEL A2 AHS – FOR SHEETS UP TO 70 HRB	STAINLESS STEEL A4 AHS4 ITEM FOR SHEETS UP TO 92 HRB	ALUMINIUM AHA ITEM FOR SHEETS UP TO 50 HRB				
M.2,5X0,45	ATS5030025006	ATS5030025006I	ATS503025006II	ATS5030025006AL	6	4.1	2.5	5.4
M.2,5X0,45	ATS503025008	ATS5030025008I	ATS503025008II	ATS5030025008AL	8	4.1	2.5	5.4
M.2,5X0,45	ATS503025010	ATS5030025010I	ATS503025010II	ATS503025010AL	10	4.1	2.5	5.4
M.2,5X0,45	ATS503025012	ATS5030025012I	ATS503025012II	ATS503025012AL	12	4.1	2.5	5.4
M.2,5X0,45	ATS5030025016	ATS50300250161	ATS5030025016II	ATS5030025016AL	16	4.1	2.5	5.4
M.2,5X0,45	ATS5030025018	ATS50300250181	ATS5030025018II	ATS5030025018AL	18	4.1	2.5	5.4
M.3X0,5	ATS503003006	ATS5030030061	ATS503003006II	ATS5030003006AL	6	4.6	3.0	5.6
M.3X0,5	ATS503003008	ATS5030030081	ATS503003008II	ATS5030003008AL	8	4.6	3.0	5.6
M.3X0,5	ATS503003010	ATS5030030101	ATS503003010II	ATS5030003010AL	10	4.6	3.0	5.6
M.3X0,5	ATS503003012	ATS5030030121	ATS503003012II	ATS5030003012AL	12	4.6	3.0	5.6
M.3X0,5	ATS503003016	ATS5030030161	ATS503003016II	ATS5030003016AL	16	4.6	3.0	5.6
M.3X0,5	ATS503003018	ATS5030030181	ATS503003018II	ATS5030003018AL	18	4.6	3.0	5.6
M.3X0,5	ATS503003020	ATS5030030201	ATS503003020II	ATS5030003020AL	20	4.6	3.0	5.6
M.3X0,5	ATS503003022	ATS5030030221	ATS503003022II	ATS5030003022AL	22	4.6	3.0	5.6
M.3X0,5	ATS503003025	ATS5030030251	ATS503003025II	ATS5030003025AL	25	4.6	3.0	5.6
M.4X0,7	ATS503004008	ATS5030040081	ATS503004008II	ATS503004008AL	8	5.9	4.0	7.2
M.4X0,7	ATS503004010	ATS5030040101	ATS503004010II	ATS503004010AL	10	5.9	4.0	7.2
M.4X0,7	ATS503004012	ATS5030040121	ATS503004012II	ATS503004012AL	12	5.9	4.0	7.2
M.4X0,7	ATS503004016	ATS5030040161	ATS503004016II	ATS503004016AL	16	5.9	4.0	7.2
M.4X0,7	ATS503004018	ATS5030040181	ATS503004018II	ATS503004018AL	18	5.9	4.0	7.2
M.4X0,7	ATS503004020	ATS5030040201	ATS503004020II	ATS503004020AL	20	5.9	4.0	7.2
M.4X0,7	ATS503004022	ATS5030040221	ATS503004022II	ATS503004022AL	22	5.9	4.0	7.2
M.4X0,7	ATS503004025	ATS5030040251	ATS503004025II	ATS503004025AL	25	5.9	4.0	7.2
M.4X0,7	ATS503004028	ATS5030040281	ATS503004028II	ATS503004028AL	28	5.9	4.0	7.2
M.4X0,7	ATS503004030	ATS5030040301	ATS503004030II	ATS503004030AL	30	5.9	4.0	7.2
M.4X0,7	ATS503004035	ATS5030040351	ATS503004035II	ATS503004035AL	35	5.9	4.0	7.2

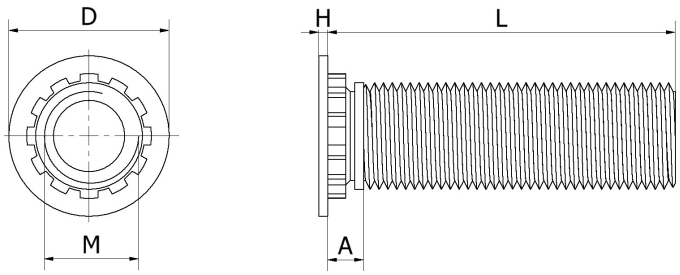
All dimensions are expressed in mm

THREAD CLASS ISO 6H	TYPE				L	D +/-0,25	HOLE +0.08/-0.00	MINIMUM DISTANCE FROM THE EDGE
	GALVANIZED STEEL AH – FOR SHEETS UP TO 80 HRB	STAINLESS STEEL A2 AHS – FOR SHEETS UP TO 70 HRB	STAINLESS STEEL A4 AHS4 ITEM FOR SHEETS UP TO 92 HRB	ALUMINIUM AHA ITEM FOR SHEETS UP TO 50 HRB				
M.4X0,7	ATS503004038	ATS503004038I	ATS503004038II	ATS503004038AL	38	5.9	4.0	7.2
M.5X0,8	ATS503005008	ATS503005008I	ATS503005008II	ATS503005008AL	8	6.5	5.0	7.2
M.5X0,8	ATS503005010	ATS503005010I	ATS503005010II	ATS503005010AL	10	6.5	5.0	7.2
M.5X0,8	ATS503005012	ATS503005012I	ATS503005012II	ATS503005012AL	12	6.5	5.0	7.2
M.5X0,8	ATS503005016	ATS503005016I	ATS503005016II	ATS503005016AL	16	6.5	5.0	7.2
M.5X0,8	ATS503005018	ATS503005018I	ATS503005018II	ATS503005018AL	18	6.5	5.0	7.2
M.5X0,8	ATS503005020	ATS503005020I	ATS503005020II	ATS503005020AL	20	6.5	5.0	7.2
M.5X0,8	ATS503005022	ATS503005022I	ATS503005022II	ATS503005022AL	22	6.5	5.0	7.2
M.5X0,8	ATS503005025	ATS503005025I	ATS503005025II	ATS503005025AL	25	6.5	5.0	7.2
M.5X0,8	ATS503005028	ATS503005028I	ATS503005028II	ATS503005028AL	28	6.5	5.0	7.2
M.5X0,8	ATS503005030	ATS503005030I	ATS503005030II	ATS503005030AL	30	6.5	5.0	7.2
M.5X0,8	ATS503005035	ATS503005035I	ATS503005035II	ATS503005035AL	35	6.5	5.0	7.2
M.5X0,8	ATS503005038	ATS503005038I	ATS503005038II	ATS503005038AL	38	6.5	5.0	7.2
M.6X1,0	ATS503006008	ATS503006008I	ATS503006008II	ATS503006008AL	8	8.2	6.0	7.9
M.6X1,0	ATS503006010	ATS503006010I	ATS503006010II	ATS503006010AL	10	8.2	6.0	7.9
M.6X1,0	ATS503006012	ATS503006012I	ATS503006012II	ATS503006012AL	12	8.2	6.0	7.9
M.6X1,0	ATS503006016	ATS503006016I	ATS503006016II	ATS503006016AL	16	8.2	6.0	7.9
M.6X1,0	ATS503006018	ATS503006018I	ATS503006018II	ATS503006018AL	18	8.2	6.0	7.9
M.6X1,0	ATS503006020	ATS503006020I	ATS503006020II	ATS503006020AL	20	8.2	6.0	7.9
M.6X1,0	ATS503006022	ATS503006022I	ATS503006022II	ATS503006022AL	22	8.2	6.0	7.9
M.6X1,0	ATS503006025	ATS503006025I	ATS503006025II	ATS503006025AL	25	8.2	6.0	7.9
M.6X1,0	ATS503006028	ATS503006028I	ATS503006028II	ATS503006028AL	28	8.2	6.0	7.9
M.6X1,0	ATS503006030	ATS503006030I	ATS503006030II	ATS503006030AL	30	8.2	6.0	7.9
M.6X1,0	ATS503006035	ATS503006035I	ATS503006035II	ATS503006035AL	35	8.2	6.0	7.9
M.6X1,0	ATS503006038	ATS503006038I	ATS503006038II	ATS503006038AL	38	8.2	6.0	7.9
M.8X1,25	ATS503008008	ATS503008008I	ATS503008008II	ATS503008008AL	8	9.6	8.0	9.6
M.8X1,25	ATS503008010	ATS503008010I	ATS503008010II	ATS503008010AL	10	9.6	8.0	9.6
M.8X1,25	ATS503008012	ATS503008012I	ATS503008012II	ATS503008012AL	12	9.6	8.0	9.6
M.8X1,25	ATS503008016	ATS503008016I	ATS503008016II	ATS503008016AL	16	9.6	8.0	9.6
M.8X1,25	ATS503008018	ATS503008018I	ATS503008018II	ATS503008018AL	18	9.6	8.0	9.6
M.8X1,25	ATS503008020	ATS503008020I	ATS503008020II	ATS503008020AL	20	9.6	8.0	9.6
M.8X1,25	ATS503008022	ATS503008022I	ATS503008022II	ATS503008022AL	22	9.6	8.0	9.6
M.8X1,25	ATS503008025	ATS503008025I	ATS503008025II	ATS503008025AL	25	9.6	8.0	9.6
M.8X1,25	ATS503008028	ATS503008028I	ATS503008028II	ATS503008028AL	28	9.6	8.0	9.6
M.8X1,25	ATS503008030	ATS503008030I	ATS503008030II	ATS503008030AL	30	9.6	8.0	9.6
M.8X1,25	ATS503008035	ATS503008035I	ATS503008035II	ATS503008035AL	35	9.6	8.0	9.6
M.8X1,25	ATS503008038	ATS503008038I	ATS503008038II	ATS503008038AL	38	9.6	8.0	9.6

All dimensions are expressed in mm

SELF-CLINCHING STUDS FOR THIN SHEET METAL

Self-clinching studs enable threads to be formed in thin sheet metal (minimum thickness 0,51 mm) with a high degree of assurance regarding resistance to torsion and tensile forces.



FEATURES AND DIMENSIONS

THREAD SIZE	TYPE		L +/-0,15	D +/-0,25	A MAX	H MAX	HOLE +0.08/-0.00	MINIMUM DISTANCE FROM THE EDGE
	AHB GALVANIZED STEEL PRODUCT FOR THIN SHEET METAL	A2 AHBS STAINLESS STEEL FOR THIN SHEETS						
M.3X0,5	ATS503003006SB	ATS503003006ISB	6	4.5	1,8	0,64	3	5.6
M.3X0,5	ATS503003008SB	ATS503003008ISB	8	4.5	1,8	0,64	3	5.6
M.3X0,5	ATS503003010SB	ATS503003010ISB	10	4.5	1,8	0,64	3	5.6
M.3X0,5	ATS503003012SB	ATS503003012ISB	12	4.5	1,8	0,64	3	5.6
M.3X0,5	ATS503003015SB	ATS503003015ISB	15	4.5	1,8	0,64	3	5.6
M.3X0,5	ATS503003018SB	ATS503003018ISB	18	4.5	1,8	0,64	3	5.6
M.3X0,5	ATS503003020SB	ATS503003020ISB	20	4.5	1,8	0,64	3	5.6
M.4X0,7	ATS503004006SB	ATS503004006ISB	6	5.8	1,8	0,64	4	7.2
M.4X0,7	ATS503004008SB	ATS503004008ISB	8	5.8	1,8	0,64	4	7.2
M.4X0,7	ATS503004010SB	ATS503004010ISB	10	5.8	1,8	0,64	4	7.2
M.4X0,7	ATS503004012SB	ATS503004012ISB	12	5.8	1,8	0,64	4	7.2
M.4X0,7	ATS503004015SB	ATS503004015ISB	15	5.8	1,8	0,64	4	7.2
M.4X0,7	ATS503004018SB	ATS503004018ISB	18	5.8	1,8	0,64	4	7.2
M.4X0,7	ATS503004020SB	ATS503004020ISB	20	5.8	1,8	0,64	4	7.2
M.4X0,7	ATS503004022SB	ATS503004022ISB	22	5.8	1,8	0,64	4	7.2
M.4X0,7	ATS503004025SB	ATS503004025ISB	25	5.8	1,8	0,64	4	7.2
M.4X0,7	ATS503004028SB	ATS503004028ISB	28	5.8	1,8	0,64	4	7.2
M.4X0,7	ATS503004030SB	ATS503004030ISB	30	5.8	1,8	0,64	4	7.2
M.4X0,7	ATS503004035SB	ATS503004035ISB	35	5.8	1,8	0,64	4	7.2
M.4X0,7	ATS503004038SB	ATS503004038ISB	38	5.8	1,8	0,64	4	7.2
M.5X0,8	ATS503005008SB	ATS503005008ISB	8	6.4	2,3	0,64	5	7.2
M.5X0,8	ATS503005010SB	ATS503005010ISB	10	6.4	2,3	0,64	5	7.2
M.5X0,8	ATS503005012SB	ATS503005012ISB	12	6.4	2,3	0,64	5	7.2

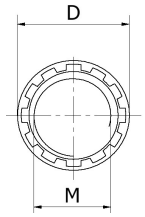
All dimensions are expressed in mm

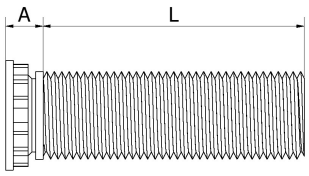
THREAD SIZE	TYPE		L +/-0,15	D +/-0,25	A MAX	H MAX	HOLE +0.08/-0.00	MINIMUM DISTANCE FROM THE EDGE
	AHB GALVANIZED STEEL PRODUCT FOR THIN SHEET METAL	A2 AHBS STAINLESS STEEL FOR THIN SHEETS						
M.5X0,8	ATS503005015SB	ATS503005015ISB	15	6.4	2,3	0,64	5	7.2
M.5X0,8	ATS503005018SB	ATS503005018ISB	18	6.4	2,3	0,64	5	7.2
M.5X0,8	ATS503005020SB	ATS503005020ISB	20	6.4	2,3	0,64	5	7.2
M.5X0,8	ATS503005022SB	ATS503005022ISB	22	6.4	2,3	0,64	5	7.2
M.5X0,8	ATS503005025SB	ATS503005025ISB	25	6.4	2,3	0,64	5	7.2
M.5X0,8	ATS503005028SB	ATS503005028ISB	28	6.4	2,3	0,64	5	7.2
M.5X0,8	ATS503005030SB	ATS503005030ISB	30	6.4	2,3	0,64	5	7.2
M.5X0,8	ATS503005035SB	ATS503005035ISB	35	6.4	2,3	0,64	5	7.2
M.5X0,8	ATS503005038SB	ATS503005038ISB	38	6.4	2,3	0,64	5	7.2

All dimensions are expressed in mm

SELF-CLINCHING STUDS WITH REDUCED HEAD

Self-clinching studs enable threads to be formed in thin sheet metal (minimum thickness 1 mm) with a high degree of assurance regarding resistance to torsion and tensile forces.





FEATURES AND DIMENSIONS

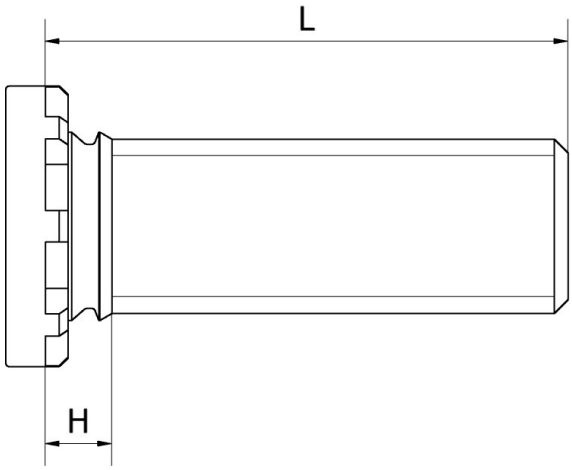
THREAD SIZE	TYPE		L +/-0,15	D +/-0,4	A MAX	HOLE +0.08/-0.00	MINIMUM DISTANCE FROM THE EDGE
	AHTR GALVANIZED STEEL PRODUCT FOR SHEET METAL	A2 AHTRS STAINLESS STEEL – SHEET METAL ACCESSORY					
M.2,5X0,45	ATS5030025006TR	ATS5030025006ITR	6	3.15	2,1	2,5	2,8
M.2,5X0,45	ATS5030025008TR	ATS5030025008ITR	8	3.15	2,1	2,5	2,8
M.2,5X0,45	ATS5030025010TR	ATS50300250010ITR	10	3.15	2,1	2,5	2,8
M.2,5X0,45	ATS5030025012TR	ATS50300250012ITR	12	3.15	2,1	2,5	2,8
M.2,5X0,45	ATS5030025015TR	ATS50300250015ITR	15	3.15	2,1	2,5	2,8
M.2,5X0,45	ATS5030025018TR	ATS50300250018ITR	18	3.15	2,1	2,5	2,8
M.2,5X0,45	ATS5030025020TR	ATS50300250020ITR	20	3.15	2,1	2,5	2,8
M.3X0,5	ATS503003006TR	ATS503003006ITR	6	3.65	2,1	3	3,3
M.3X0,5	ATS503003008TR	ATS503003008ITR	8	3.65	2,1	3	3,3
M.3X0,5	ATS503003010TR	ATS503003010ITR	10	3.65	2,1	3	3,3
M.3X0,5	ATS503003012TR	ATS503003012ITR	12	3.65	2,1	3	3,3
M.3X0,5	ATS503003015TR	ATS503003015ITR	15	3.65	2,1	3	3,3
M.3X0,5	ATS503003018TR	ATS503003018ITR	18	3.65	2,1	3	3,3
M.3X0,5	ATS503003020TR	ATS503003020ITR	20	3.65	2,1	3	3,3
M.3X0,5	ATS503003022TR	ATS503003022ITR	22	3.65	2,1	3	3,3
M.3X0,5	ATS503003025TR	ATS503003025ITR	25	3.65	2,1	3	3,3
M.3,5x0,6	ATS5030035008TR	ATS5030035008ITR	8	4.15	2,3	3,5	3,8
M.3,5x0,6	ATS5030035010TR	ATS5030035010ITR	10	4.15	2,3	3,5	3,8
M.3,5x0,6	ATS5030035012TR	ATS5030035012ITR	12	4.15	2,3	3,5	3,8
M.3,5x0,6	ATS5030035015TR	ATS5030035015ITR	15	4.15	2,3	3,5	3,8
M.3,5x0,6	ATS5030035018TR	ATS5030035018ITR	18	4.15	2,3	3,5	3,8
M.3,5x0,6	ATS5030035020TR	ATS5030035020ITR	20	4.15	2,3	3,5	3,8
M.3,5x0,6	ATS5030035022TR	ATS5030035022ITR	22	4.15	2,3	3,5	3,8
M.3,5x0,6	ATS5030035025TR	ATS5030035025ITR	25	4.15	2,3	3,5	3,8

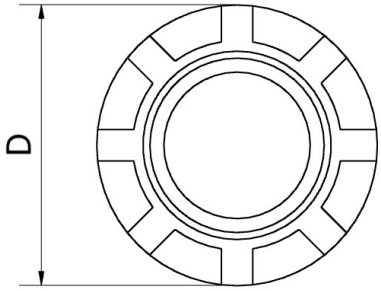
All dimensions are expressed in mm

THREAD SIZE	TYPE		L +/-0,15	D +/-0,4	A MAX	HOLE +0.08/-0.00	MINIMUM DISTANCE FROM THE EDGE
	AHTR GALVANIZED STEEL PRODUCT FOR SHEET METAL	A2 AHTRS STAINLESS STEEL – SHEET METAL ACCESSORY					
M.4X0,7	ATS503004006TR	ATS503004006ITR	6	4.65	2,4	4	4.3
M.4X0,7	ATS503004008TR	ATS503004008ITR	8	4.65	2,4	4	4.3
M.4X0,7	ATS503004010TR	ATS503004010ITR	10	4.65	2,4	4	4.3
M.4X0,7	ATS503004012TR	ATS503004012ITR	12	4.65	2,4	4	4.3
M.4X0,7	ATS503004015TR	ATS503004015ITR	15	4.65	2,4	4	4.3
M.4X0,7	ATS503004018TR	ATS503004018ITR	18	4.65	2,4	4	4.3
M.4X0,7	ATS503004020TR	ATS503004020ITR	20	4.65	2,4	4	4.3
M.4X0,7	ATS503004025TR	ATS503004025ITR	25	4.65	2,4	4	4.3
M.4X0,7	ATS503004030TR	ATS503004030ITR	30	4.65	2,4	4	4.3
M.4X0,7	ATS503004035TR	ATS503004035ITR	35	4.65	2,4	4	4.3
M.5X0,8	ATS503005008TR	ATS503005008ITR	8	5.9	2,7	5	5.6
M.5X0,8	ATS503005010TR	ATS503005010ITR	10	5.9	2,7	5	5.6
M.5X0,8	ATS503005012TR	ATS503005012ITR	12	5.9	2,7	5	5.6
M.5X0,8	ATS503005015TR	ATS503005015ITR	15	5.9	2,7	5	5.6
M.5X0,8	ATS503005018TR	ATS503005018ITR	18	5.9	2,7	5	5.6
M.5X0,8	ATS503005020TR	ATS503005020ITR	20	5.9	2,7	5	5.6
M.5X0,8	ATS503005025TR	ATS503005025ITR	25	5.9	2,7	5	5.6
M.5X0,8	ATS503005030TR	ATS503005030ITR	30	5.9	2,7	5	5.6
M.5X0,8	ATS503005035TR	ATS503005035ITR	35	5.9	2,7	5	5.6

All dimensions are expressed in mm
Othe sizes available on request

SELF-CLINCHING STUDS FOR HIGH TORQUE





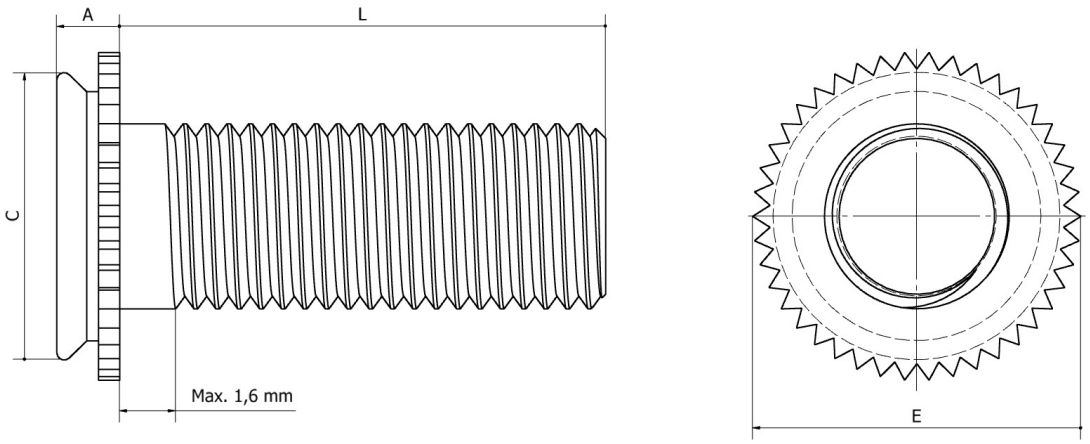
Code		Thread	Hole Ø	D	H Max.	Minimum thickness	Minimum distance from the edge to the center of the hole
Galvanized steel	Stainless steel						
ATS503005xxxHCH	ATS503005xxxHCHI	M5	5	7,8	2,7	1,3	10,7
ATS503006xxxHCH	ATS503006xxxHCHI	M6	6	9,4	2,8	1,5	11,5
ATS503008xxxHCH	ATS503008xxxHCHI	M8	8	12,5	3,5	2	12,7
ATS5030010xxxHCH	ATS5030010xxxHCHI	M10	10	15,7	4,1	2,3	13,7

All dimensions are expressed in mm

Galvanized steel	Stainless steel	Lenght						
M5		15	20	25	30	35	40	50
M6		15	20	25	30	35	40	50
M8		15	20	25	30	35	40	50
M10		15	20	25	30	35	40	50

The item number XXX must be replaced with the corresponding lenght (e.g. 030 for 30 mm).

SELF-CLINCHING CONCEALED HEAD STUD



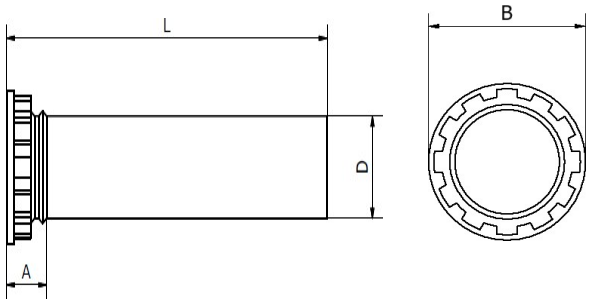
Code Stainless steel	Thread	Hole Ø	A Max.	C Max.	E	Hole Max.	Min. Thickness	Minimum blind hole depth	Minimum distance from the edge to the center of the hole
ATS503003xxxICF	M3	4,37	1,1	4,35	5,21	3,6	1,6	1,1	4
ATS503003xxxIC	M3	4,37	1,9	4,35	5,21	3,6	2,4	1,91	4
ATS503004xxxICF	M4	7,37	1,1	7,35	8,33	4,6	1,6	1,1	5,6
ATS503004xxxIC	M4	7,37	1,9	7,35	8,33	4,6	2,4	1,91	5,6
ATS503005xxxICF	M5	7,93	1,1	7,9	8,89	5,6	1,6	1,1	6,4
ATS503005xxxIC	M5	7,93	1,9	7,9	8,89	5,6	2,4	1,91	6,4

All dimensions are expressed in mm

Thread Stainless steel	Lenght									
M3	6	8	10	12	15	18	20	-	-	-
M3	6	8	10	12	15	18	20	-	-	-
M4	6	8	10	12	15	18	20	25	-	-
M4	6	8	10	12	15	18	20	25	-	-
M5	-	-	10	12	15	18	20	25	-	-
M5	-	-	10	12	15	18	20	25	-	-

The item number XXX must be replaced with the corresponding lenght (e.g. 020 for 20 mm).

SMOOTH SELF-CLINCHING STUDS FOR SHEET METAL



ATS5030xxxxxL –
GALVANIZED STEEL for sheet metal up to 80 HRB

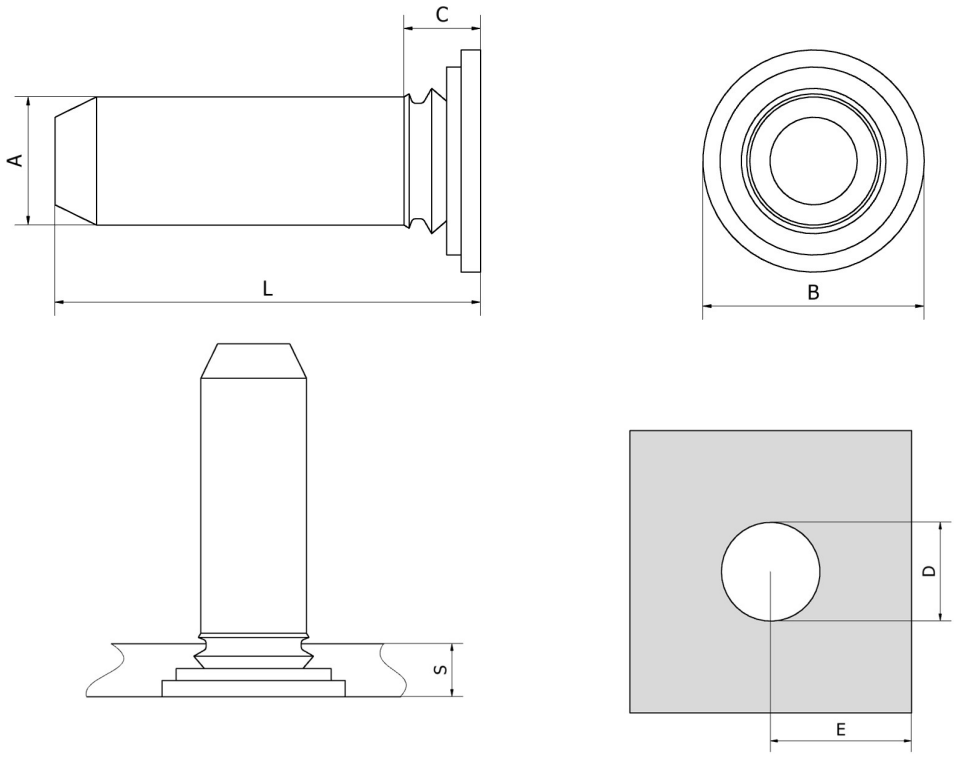
ATS5030xxxxxIL –
STAINLESS STEEL for sheet metal up to 70 HRB

FEATURES AND DIMENSIONS

Stud diameter D	Code Galvanized	Code Stainless steel	Lenght L ±0,15											A Max	B ±0,04	Hole +0,08	Min. distance from the edge	Minimum thickness sheet metal
			6	8	10	12	15	16	18	20	25	30	35					
3mm	ATS5030 03xxxL	ATS5030 03xxxIL	●	●	●	●	●	●	●	●	●	●		2.3	5.3	3.5	6.4	1
4mm	ATS5030 04xxxL	ATS5030 04xxxIL	●	●	●	●	●	●	●	●	●	●	●	2.3	6	4.1	7.1	1
5mm	ATS5030 05xxxL	ATS5030 05xxxIL	●	●	●	●	●	●	●	●	●	●	●	2.55	7.5	5.5	7.6	1

All dimensions are expressed in mm

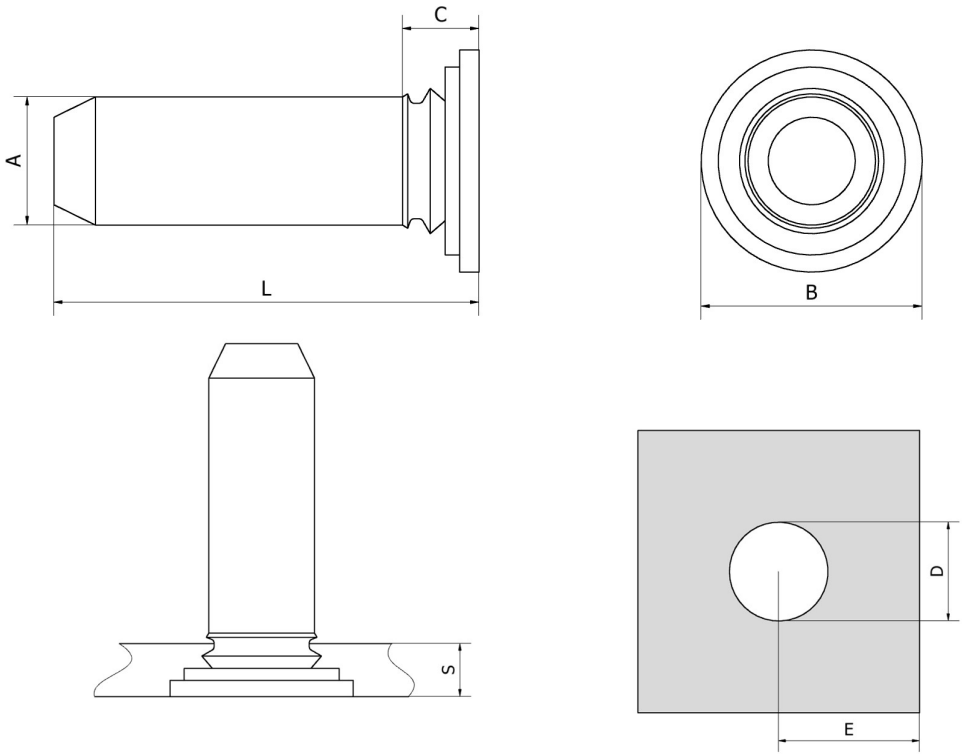
SELF-CLINCHING FLUSH HEAD PINS



MATERIAL: GALVANIZED STEEL

CODE	A	L	C	B	S Min.	E Min.	D
ATSSPINAAUT3X3	3	3	2,29	5,2	1	6,4	3,5 – 3,58
ATSSPINAAUT3X4	3	4	2,29	5,2	1	6,4	3,5 – 3,58
ATSSPINAAUT3X6	3	6	2,29	5,2	1	6,4	3,5 – 3,58
ATSSPINAAUT3X8	3	8	2,29	5,2	1	6,4	3,5 – 3,58
ATSSPINAAUT3X10	3	10	2,29	5,2	1	6,4	3,5 – 3,58
ATSSPINAAUT3X12	3	12	2,29	5,2	1	6,4	3,5 – 3,58
ATSSPINAAUT3X16	3	16	2,29	5,2	1	6,4	3,5 – 3,58
ATSSPINAAUT4X6	4	6	2,29	6,12	1	7,1	4,5 – 4,58
ATSSPINAAUT4X8	4	8	2,29	6,12	1	7,1	4,5 – 4,58
ATSSPINAAUT4X10	4	10	2,29	6,12	1	7,1	4,5 – 4,58
ATSSPINAAUT4X12	4	12	2,29	6,12	1	7,1	4,5 – 4,58
ATSSPINAAUT4X16	4	16	2,29	6,12	1	7,1	4,5 – 4,58
ATSSPINAAUT4X20	4	20	2,29	6,12	1	7,1	4,5 – 4,58
ATSSPINAAUT5X8	5	8	2,29	7,19	1	7,6	5,5 – 5,58
ATSSPINAAUT5X10	5	10	2,29	7,19	1	7,6	5,5 – 5,58
ATSSPINAAUT5X12	5	12	2,29	7,19	1	7,6	5,5 – 5,58
ATSSPINAAUT5X16	5	16	2,29	7,19	1	7,6	5,5 – 5,58
ATSSPINAAUT5X20	5	20	2,29	7,19	1	7,6	5,5 – 5,58
ATSSPINAAUT6X12	6	12	2,29	8,13	1	7,9	6,5 – 6,58
ATSSPINAAUT6X16	6	16	2,29	8,13	1	7,9	6,5 – 6,58
ATSSPINAAUT6X20	6	20	2,29	8,13	1	7,9	6,5 – 6,58

All dimensions are expressed in mm



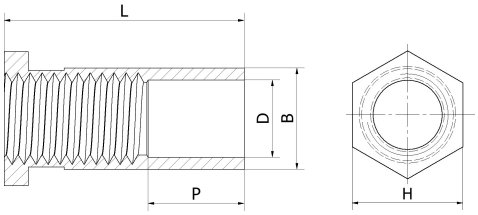
MATERIAL: STAINLESS STEEL

CODE	A	L	C	B	S Min.	E Min.	D
ATSSPINAAUT3X3I	3	3	2,29	5,2	1	6,4	3,5 – 3,58
ATSSPINAAUT3X4I	3	4	2,29	5,2	1	6,4	3,5 – 3,58
ATSSPINAAUT3X6I	3	6	2,29	5,2	1	6,4	3,5 – 3,58
ATSSPINAAUT3X8I	3	8	2,29	5,2	1	6,4	3,5 – 3,58
ATSSPINAAUT3X10I	3	10	2,29	5,2	1	6,4	3,5 – 3,58
ATSSPINAAUT3X12I	3	12	2,29	5,2	1	6,4	3,5 – 3,58
ATSSPINAAUT3X16I	3	16	2,29	5,2	1	6,4	3,5 – 3,58
ATSSPINAAUT4X6I	4	6	2,29	6,12	1	7,1	4,5 – 4,58
ATSSPINAAUT4X8I	4	8	2,29	6,12	1	7,1	4,5 – 4,58
ATSSPINAAUT4X10I	4	10	2,29	6,12	1	7,1	4,5 – 4,58
ATSSPINAAUT4X12I	4	12	2,29	6,12	1	7,1	4,5 – 4,58
ATSSPINAAUT4X16I	4	16	2,29	6,12	1	7,1	4,5 – 4,58
ATSSPINAAUT5X8I	5	8	2,29	7,19	1	7,6	5,5 – 5,58
ATSSPINAAUT5X10I	5	10	2,29	7,19	1	7,6	5,5 – 5,58
ATSSPINAAUT5X12I	5	12	2,29	7,19	1	7,6	5,5 – 5,58
ATSSPINAAUT5X16I	5	16	2,29	7,19	1	7,6	5,5 – 5,58
ATSSPINAAUT5X20I	5	20	2,29	7,19	1	7,6	5,5 – 5,58
ATSSPINAAUT6X10I	6	10	2,29	8,13	1	7,9	6,5 – 6,58
ATSSPINAAUT6X12I	6	12	2,29	8,13	1	7,9	6,5 – 6,58
ATSSPINAAUT6X16I	6	16	2,29	8,13	1	7,9	6,5 – 6,58
ATSSPINAAUT6X20I	6	20	2,29	8,13	1	7,9	6,5 – 6,58

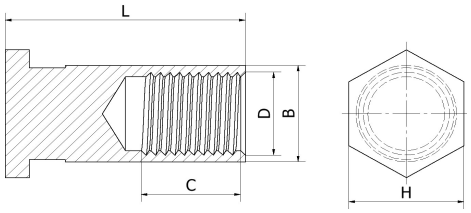
All dimensions are expressed in mm

SELF-CLINCHING STANDOFF

Through-hole



Blind thread



GALVANIZED STEEL

for sheet metal up to 80 HRB

STAINLESS STEEL

for sheet metal up to 70 HRB

Material compliant with the RoHS Directive 2011/95/EU, REACH Regulation 1907/2006, and the Cr (VI) exemption

The ATSCFSO / ATSCFSOS – ATSCFBSO / ATSCFBSOS self-clinching standoff are designed for quick and easy installation using any standard pneumatic, hydraulic, or mechanical equipment.
These spacers, available with either through threads or blind threads, can be used on sheet metal with a thickness of at least 1 mm. No additional reaming or deburring is required prior to installation.

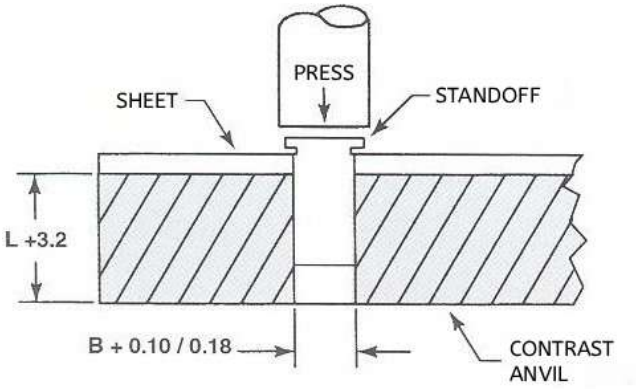
FEATURES AND DIMENSIONS

THREAD ISO CLASS 6H	TYPE				L	P +0,25 - 0,25	C +0,25 - 0,25	HOLE +0.08 - 0.00	B +0.00 - 0.10	H Nom	D	MINIMUM DISTANCE FROM THE EDGE
	GALVANIZED STEEL For metal sheet up to 80 HRB Through thread	STAINLESS STEEL For metal sheet up to 70 HRB Through thread	GALVANIZED STEEL For metal sheet up to 80 HRB Blind thread	STAINLESS STEEL For metal sheet up to 70 HRB Blind thread								
M3x0.5	ATSCFSO3X3	ATSCFSOS3X3			3	0	0	4.2	4.19	4.8	3.2	6.0
M3x0.5	ATSCFSO3X4	ATSCFSOS3X4			4	0	0	4.2	4.19	4.8	3.2	6.0
M3x0.5	ATSCFSO3X5	ATSCFSOS3X5			5	0	0	4.2	4.19	4.8	3.2	6.0
M3x0.5	ATSCFSO3X6	ATSCFSOS3X6	ATSCFBSO3X6	ATSCFBSOS3X6	6	0	3,2	4.2	4.19	4.8	3.2	6.0
M3x0.5	ATSCFSO3X8	ATSCFSOS3X8	ATSCFBSO3X8	ATSCFBSOS3X8	8	0	4	4.2	4.19	4.8	3.2	6.0
M3x0.5	ATSCFSO3X10	ATSCFSOS3X10	ATSCFBSO3X10	ATSCFBSOS3X10	10	4	4	4.2	4.19	4.8	3.2	6.0
M3x0.5	ATSCFSO3X12	ATSCFSOS3X12	ATSCFBSO3X12	ATSCFBSOS3X12	12	4	5	4.2	4.19	4.8	3.2	6.0
M3x0.5	ATSCFSO3X14	ATSCFSOS3X14	ATSCFBSO3X14	ATSCFBSOS3X14	14	4	6,5	4.2	4.19	4.8	3.2	6.0
M3x0.5	ATSCFSO3X16	ATSCFSOS3X16	ATSCFBSO3X16	ATSCFBSOS3X16	16	8	6,5	4.2	4.19	4.8	3.2	6.0
M3x0.5	ATSCFSO3X18	ATSCFSOS3X18	ATSCFBSO3X18	ATSCFBSOS3X18	18	8	9,5	4.2	4.19	4.8	3.2	6.0
M3x0.5	ATSCFSO3X20	ATSCFSOS3X20	ATSCFBSO3X20	ATSCFBSOS3X20	20	8	9,5	4.2	4.19	4.8	3.2	6.0
M3x0.5	ATSCFSO3X22	ATSCFSOS3X22	ATSCFBSO3X22	ATSCFBSOS3X22	22	11	9,5	4.2	4.19	4.8	3.2	6.0
M3x0.5	ATSCFSO3X25	ATSCFSOS3X25	ATSCFBSO3X25	ATSCFBSOS3X25	25	11	9,5	4.2	4.19	4.8	3.2	6.0
3.5M3x0.5	ATSCFSO3X3FA	ATSCFSOS3X3A			3	0	0	5.4	5.38	6.4	3.2	7.0
3.5M3x0.5	ATSCFSO3X4FA	ATSCFSOS3X4A			4	0	0	5.4	5.38	6.4	3.2	7.0
3.5M3x0.5	ATSCFSO3X5FA	ATSCFSOS3X5A			5	0	0	5.4	5.38	6.4	3.2	7.0

3.5M3x0.5	ATSCFSO3X6FA	ATSCFSOS3X6A	ATSCFBSO3X6FA	ATSCFBSOS3X6A	6	0	3,2	5.4	5.38	6.4	3.2	7.0
3.5M3x0.5	ATSCFSO3X8FA	ATSCFSOS3X8A	ATSCFBSO3X8FA	ATSCFBSOS3X8A	8	0	4	5.4	5.38	6.4	3.2	7.0
3.5M3x0.5	ATSCFSO3X10FA	ATSCFSOS3X10A	ATSCFBSO3X10FA	ATSCFBSOS3X10A	10	4	4	5.4	5.38	6.4	3.2	7.0
3.5M3x0.5	ATSCFSO3X12FA	ATSCFSOS3X12A	ATSCFBSO3X12FA	ATSCFBSOS3X12A	12	4	5	5.4	5.38	6.4	3.2	7.0
3.5M3x0.5	ATSCFSO3X14FA	ATSCFSOS3X14A	ATSCFBSO3X14FA	ATSCFBSOS3X14A	14	4	6,5	5.4	5.38	6.4	3.2	7.0
3.5M3x0.5	ATSCFSO3X16FA	ATSCFSOS3X16A	ATSCFBSO3X16FA	ATSCFBSOS3X16A	16	8	6,5	5.4	5.38	6.4	3.2	7.0
3.5M3x0.5	ATSCFSO3X18FA	ATSCFSOS3X18A	ATSCFBSO3X18FA	ATSCFBSOS3X18A	18	8	9,5	5.4	5.38	6.4	3.2	7.0
3.5M3x0.5			ATSCFBSO3X20FA	ATSCFBSOS3X20A	20	8	9,5	5.4	5.38	6.4	3.2	7.0
3.5M3x0.5			ATSCFBSO3X22FA	ATSCFBSOS3X22A	22	11	9,5	5.4	5.38	6.4	3.2	7.0
3.5M3x0.5			ATSCFBSO3X25FA	ATSCFBSOS3X25A	25	11	9,5	5.4	5.38	6.4	3.2	7.0
M4x0.7	ATSCFSO4X3	ATSCFSOS4X3			3	0	0	7.2	7.11	7.9	4.8	8.0
M4x0.7	ATSCFSO4X4	ATSCFSOS4X4			4	0	0	7.2	7.11	7.9	4.8	8.0
M4x0.7	ATSCFSO4X5	ATSCFSOS4X5			5	0	0	7.2	7.11	7.9	4.8	8.0
M4x0.7	ATSCFSO4X6	ATSCFSOS4X6	ATSCFBSO4X6	ATSCFBSOS4X6	6	0	3,2	7.2	7.11	7.9	4.8	8.0
M4x0.7	ATSCFSO4X8	ATSCFSOS4X8	ATSCFBSO4X8	ATSCFBSOS4X8	8	0	4	7.2	7.11	7.9	4.8	8.0
M4x0.7	ATSCFSO4X10	ATSCFSOS4X10	ATSCFBSO4X10	ATSCFBSOS4X10	10	4	4	7.2	7.11	7.9	4.8	8.0
M4x0.7	ATSCFSO4X12	ATSCFSOS4X12	ATSCFBSO4X12	ATSCFBSOS4X12	12	4	5	7.2	7.11	7.9	4.8	8.0
M4x0.7	ATSCFSO4X14	ATSCFSOS4X14	ATSCFBSO4X14	ATSCFBSOS4X14	14	4	6,5	7.2	7.11	7.9	4.8	8.0
M4x0.7	ATSCFSO4X16	ATSCFSOS4X16	ATSCFBSO4X16	ATSCFBSOS4X16	16	8	6,5	7.2	7.11	7.9	4.8	8.0
M4x0.7	ATSCFSO4X18	ATSCFSOS4X18	ATSCFBSO4X18	ATSCFBSOS4X18	18	8	9,5	7.2	7.11	7.9	4.8	8.0
M4x0.7	ATSCFSO4X20	ATSCFSOS4X20	ATSCFBSO4X20	ATSCFBSOS4X20	20	8	9,5	7.2	7.11	7.9	4.8	8.0
M4x0.7	ATSCFSO4X22	ATSCFSOS4X22	ATSCFBSO4X22	ATSCFBSOS4X22	22	11	9,5	7.2	7.11	7.9	4.8	8.0
M4x0.7	ATSCFSO4X25	ATSCFSOS4X25	ATSCFBSO4X25	ATSCFBSOS4X25	25	11	9,5	7.2	7.11	7.9	4.8	8.0
M5x0.8	ATSCFSO5X3	ATSCFSOS5X3			3	0	0	7.2	7.11	7.9	5.2	8.0
M5x0.8	ATSCFSO5X4	ATSCFSOS5X4			4	0	0	7.2	7.11	7.9	5.2	8.0
M5x0.8	ATSCFSO5X5	ATSCFSOS5X5			5	0	0	7.2	7.11	7.9	5.2	8.0
M5x0.8	ATSCFSO5X6	ATSCFSOS5X6	ATSCFBSO5X6	ATSCFBSOS5X6	6	0	3,2	7.2	7.11	7.9	5.2	8.0
M5x0.8	ATSCFSO5X8	ATSCFSOS5X8	ATSCFBSO5X8	ATSCFBSOS5X8	8	0	4	7.2	7.11	7.9	5.2	8.0
M5x0.8	ATSCFSO5X10	ATSCFSOS5X10	ATSCFBSO5X10	ATSCFBSOS5X10	10	4	4	7.2	7.11	7.9	5.2	8.0
M5x0.8	ATSCFSO5X12	ATSCFSOS5X12	ATSCFBSO5X12	ATSCFBSOS5X12	12	4	5	7.2	7.11	7.9	5.2	8.0
M5x0.8	ATSCFSO5X14	ATSCFSOS5X14	ATSCFBSO5X14	ATSCFBSOS5X14	14	4	6,5	7.2	7.11	7.9	5.2	8.0
M5x0.8	ATSCFSO5X16	ATSCFSOS5X16	ATSCFBSO5X16	ATSCFBSOS5X16	16	8	6,5	7.2	7.11	7.9	5.2	8.0
M5x0.8	ATSCFSO5X18	ATSCFSOS5X18	ATSCFBSO5X18	ATSCFBSOS5X18	18	8	9,5	7.2	7.11	7.9	5.2	8.0
M5x0.8	ATSCFSO5X20	ATSCFSOS5X20	ATSCFBSO5X20	ATSCFBSOS5X20	20	8	9,5	7.2	7.11	7.9	5.2	8.0
M5x0.8	ATSCFSO5X22	ATSCFSOS5X22	ATSCFBSO5X22	ATSCFBSOS5X22	22	11	9,5	7.2	7.11	7.9	5.2	8.0
M5x0.8	ATSCFSO5X25	ATSCFSOS5X25	ATSCFBSO5X25	ATSCFBSOS5X25	25	11	9,5	7.2	7.11	7.9	5.2	8.0

Tutte le dimensioni sono espresse in mm

SELF-CLINCHING STANDOFF



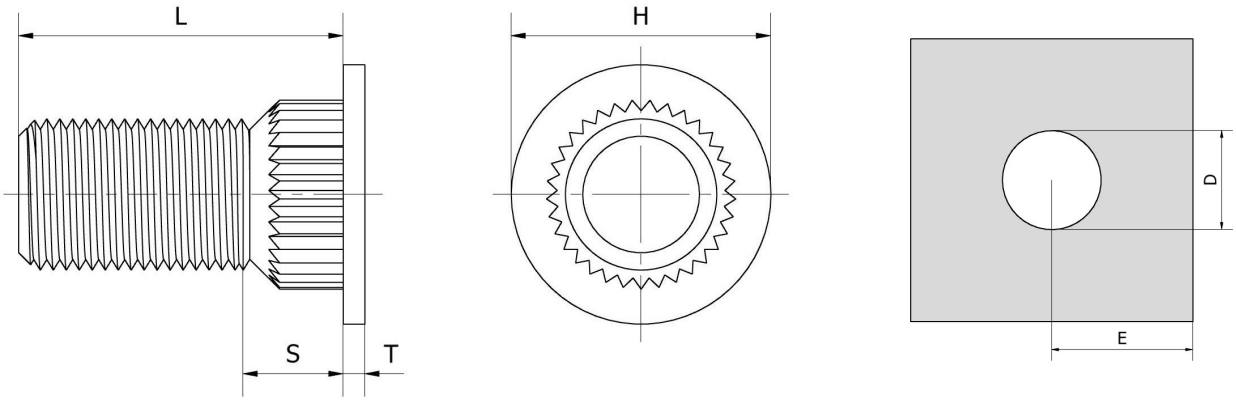
TECHNICAL SPECIFICATIONS

THREAD SIZE	TYPE	MAXIMUM TIGHTENING TORQUE (NM)	5052 Aluminium sheet – H34, 1,5 mm thick				Steel sheet up to 80 HRB, 1,5 mm thick			
			INSTALLATION FORCE (kN)	EJECTION (N)	TORSION (Nm)	TEAR	INSTALLATION FORCE (kN)	EJECTION (N)	TORSION (Nm)	TEAR
M 3	ATSCFSO ATSCFBSO	0.5	9.6	990	2.1	140	4.7	700	1.2	1230
	ATSCFSOS ATSCFBSOS	0.4	9.6	990	2.1	1150	4.7	700	1.2	985
3.5 M 3	ATSCFSO ATSCFBSO	0.5	14.5	1850	3.9	1670	7.4	1310	2.79	1350
	ATSCFSOS ATSCFBSOS	0.4	14.5	1850	3.9	1350	7.4	1310	2.79	1100
M 4 M 5	ATSCFSO ATSCFBSO	1.9-3.9	17.6	2460	8.45	3100	10.5	1750	5.01	2550
	ATSCFSOS ATSCFBSOS	0.9-2.7	17.6	2460	8.45	2450	10.5	1750	5.01	2020

All dimensions are expressed in mm
The figures are for reference only

SELF-CLINCHING STUDS FOR COMPOSITE MATERIALS

Studs suitable for printed circuit boards and other materials

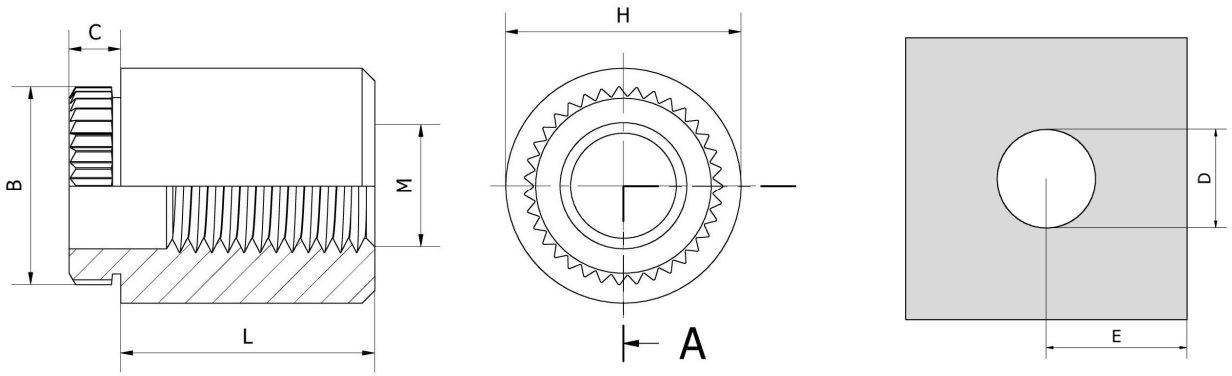


MATERIAL: PHOSPHORUS BRONZE

CODE	M	L	T	S	H	Thickness Min.	E Min.	D
ATSKFHM2,5X8	M2,5	8	0,51	2,3	4,1	1,53	3,3	2,6 – 2,68
ATSKFHM2,5X10	M2,5	10	0,51	2,3	4,1	1,53	3,3	2,6 – 2,68
ATSKFHM2,5X15	M2,5	15	0,51	2,3	4,1	1,53	3,3	2,6 – 2,68
ATSKFHM3X6	M3	6	0,51	2,3	4,58	1,53	3,8	3 – 3,08
ATSKFHM3X8	M3	8	0,51	2,3	4,58	1,53	3,8	3 – 3,08
ATSKFHM3X10	M3	10	0,51	2,3	4,58	1,53	3,8	3 – 3,08
ATSKFHM3X12	M3	12	0,51	2,3	4,58	1,53	3,8	3 – 3,08
ATSKFHM3X15	M3	15	0,51	2,3	4,58	1,53	3,8	3 – 3,08
ATSKFHM4X8	M4	8	0,51	2,3	5,74	1,53	5,1	4,2 – 4,28
ATSKFHM4X10	M4	10	0,51	2,3	5,74	1,53	5,1	4,2 – 4,28
ATSKFHM4X12	M4	12	0,51	2,3	5,74	1,53	5,1	4,2 – 4,28
ATSKFHM4X15	M4	15	0,51	2,3	5,74	1,53	5,1	4,2 – 4,28
ATSKFHM5X10	M5	10	0,51	2,3	6,6	1,53	5,3	5 – 5,08
ATSKFHM5X12	M5	12	0,51	2,3	6,6	1,53	5,3	5 – 5,08

All dimensions are expressed in mm

SELF-CLINCHING STANDOFF FOR COMPOSITE MATERIALS

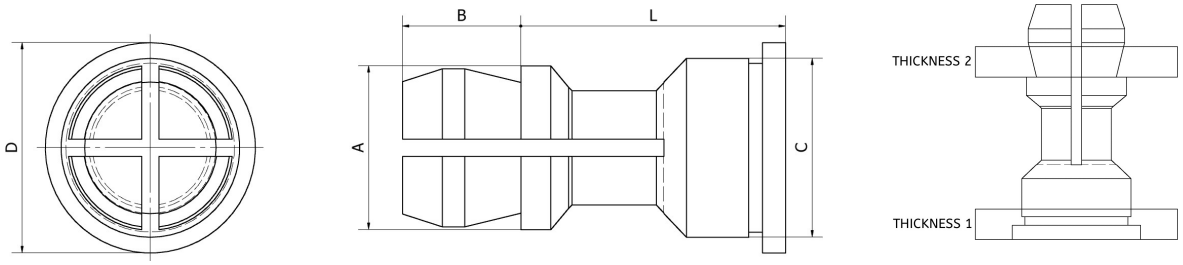


MATERIAL: STEEL

CODE	M	L	B	C	H	Thickness Min.	E Min.	D
ATSCFE3X3	M3	3	4,68	1,53	5,56	1,53	4,4	4,22 – 4,3
ATSCFE3X4	M3	4	4,68	1,53	5,56	1,53	4,4	4,22 – 4,3
ATSCFE3X5	M3	5	4,68	1,53	5,56	1,53	4,4	4,22 – 4,3
ATSCFE3X6	M3	6	4,68	1,53	5,56	1,53	4,4	4,22 – 4,3
ATSCFE3X8	M3	8	4,68	1,53	5,56	1,53	4,4	4,22 – 4,3
ATSCFE3X10	M3	10	4,68	1,53	5,56	1,53	4,4	4,22 – 4,3
ATSCFE3X12	M3	12	4,68	1,53	5,56	1,53	4,4	4,22 – 4,3
ATSCFE3X14	M3	14	4,68	1,53	5,56	1,53	4,4	4,22 – 4,3
ATSCFE4X3	M4	3	6,75	1,53	8,74	1,53	6,4	6,4 – 6,48
ATSCFE4X4	M4	4	6,75	1,53	8,74	1,53	6,4	6,4 – 6,48
ATSCFE4X5	M4	5	6,75	1,53	8,74	1,53	6,4	6,4 – 6,48
ATSCFE4X10	M4	10	6,75	1,53	8,74	1,53	6,4	6,4 – 6,48
ATSCFE4X14	M4	14	6,75	1,53	8,74	1,53	6,4	6,4 – 6,48

All dimensions are expressed in mm

SNAP-TAP TYPE UNTHREADED SPACERS



Code			Ø Nominal	D	C Max.	A	D
Galvanized steel	Stainless steel	Aluminium					
ATSSNAP4X...	ATSSNAP4X...I	Su Richiesta	4 mm	6,35	5,38	4,77	3,58

All dimensions are expressed in mm

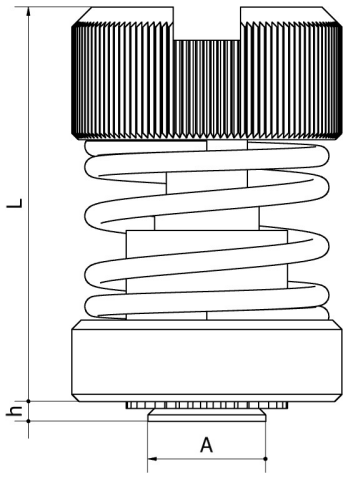
8	10	12	14	16	18	20	22	25	-	-	-	-	-

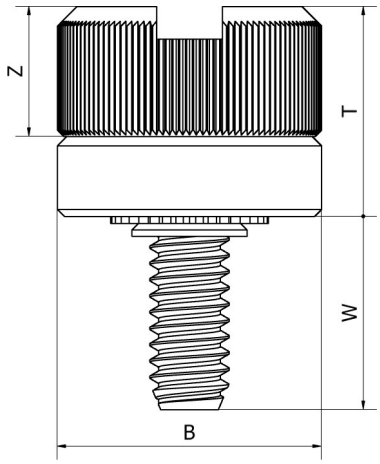
The item number ... must be replaced with the corresponding length (e.g., 3 for 3 mm).

THICKNESS 1			
Hole	Material	Minimum thickness	Distance from the edge
5,41	Steel-Carbon	1	6,6
5,41	Stainless steel 400	1	6,6
5,41	Aluminium	1	6,6

THICKNESS 2			
Hole	Material	Minimum thickness	Distance from the edge
4	Printed circuit board or metal	1 – 1,8	2,54
4		1 – 1,8	2,54
4		1 – 1,8	2,54

CAPTIVE SCREWS TYPE ATSAPF31 AND ATSAPF32

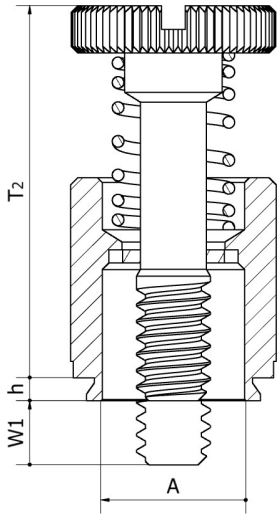


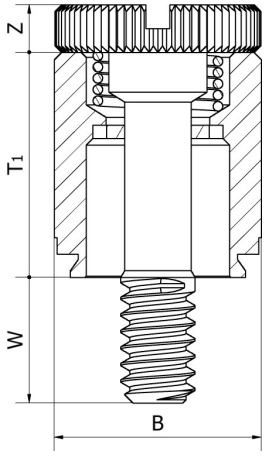


Code Galvanized steel	Thread x Pitch	h Max.	A Max.	W	Z	B	L Nom.	T Max.	Hole	Min. thickness sheet	Min. distance from the edge
ATSAPF31M3	M3 x 0,5	0,97	5,48	7,62	5,13	10,31	15,11	8,26	5,5	1	6,6
ATSAPF32M3	M3 x 0,5	1,48	5,48	7,62	5,13	10,31	15,11	8,26	5,5	1,5	6,6
ATSAPF31M4	M4 x 0,7	0,97	6,38	7,62	5,26	11,89	15,24	8,38	6,4	1	7,37
ATSAPF32M4	M4 x 0,7	1,48	6,38	7,62	5,26	11,89	15,24	8,38	6,4	1,5	7,37
ATSAPF31M5	M5 x 0,8	0,97	7,98	7,62	5,59	13,46	15,37	8,51	8	1	8,38
ATSAPF32M5	M5 x 0,8	1,48	7,98	7,62	5,59	13,46	15,37	8,51	8	1,5	8,38
ATSAPF31M6	M6 x 1	1,48	9,48	8,89	6,12	15,88	17,15	9,78	9,5	1,5	9,65
ATSAPF32M6	M6 x 1	1,48	9,48	8,89	6,12	15,88	17,15	9,78	9,5	1,5	9,65

All dimensions are expressed in mm

CAPTIVE SCREWS TYPE ATSAPFS2 AND ATSAPFC2

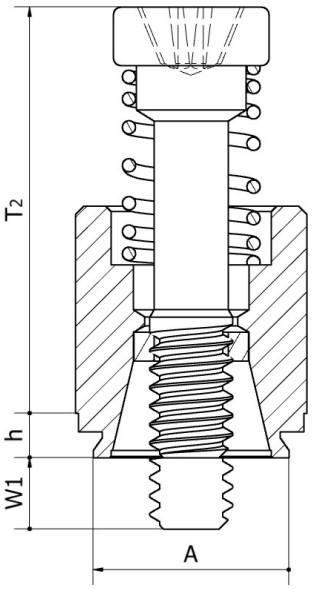


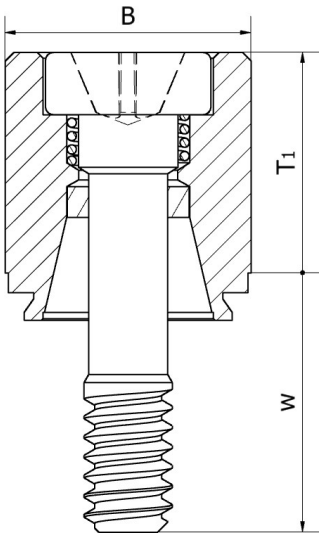


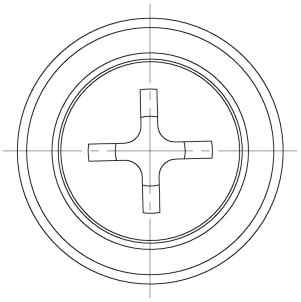
Code		Thread x Pitch	h Max.	A Max.	W	Z	B	T2 Nom.	T1 Max.	W1	Hole	Min. thickness sheet	Min. distance from the edge
Galvanized steel	Stainless steel												
ATSAPFS2 M3-40	ATSAPFC2 M3-40	M3 x 0,5	1,53	6,71	6,4	1,83	7,92	13,72	9,14	0	6,73	1,53	6,4
ATSAPFS2 M3-62	ATSAPFC2 M3-62				9,5					3,2			
ATSAPFS2 M4-50	ATSAPFC2 M4-50	M4 x 0,7	1,53	7,9	7,9	2,08	9,53	17,53	11,43	0	7,92	1,53	7,9
ATSAPFS2 M4-72	ATSAPFC2 M4-72				11,1					3,2			
ATSAPFS2 M4-94	ATSAPFC2 M4-94				14,3					6,4			
ATSAPFS2 M5-50	ATSAPFC2 M5-50	M5 x 0,8	1,53	8,72	7,9	2,08	10,31	17,53	11,47	0	8,74	1,53	8,65
ATSAPFS2 M5-72	ATSAPFC2 M5-72				11,1					3,2			
ATSAPFS2 M5-94	ATSAPFC2 M5-94				14,3					6,4			
ATSAPFS2 M6-60	ATSAPFC2 M6-60	M6 x 1	1,53	10,47	9,5	2,46	11,89	22,35	14,73	0	10,49	1,53	9,65
ATSAPFS2 M6-82	ATSAPFC2 M6-82				12,7					3,2			
ATSAPFS2 M6-04	ATSAPFC2 M6-04				15,9					6,4			

All dimensions are expressed in mm

CAPTIVE SCREWS TYPE ATSAPFC2P



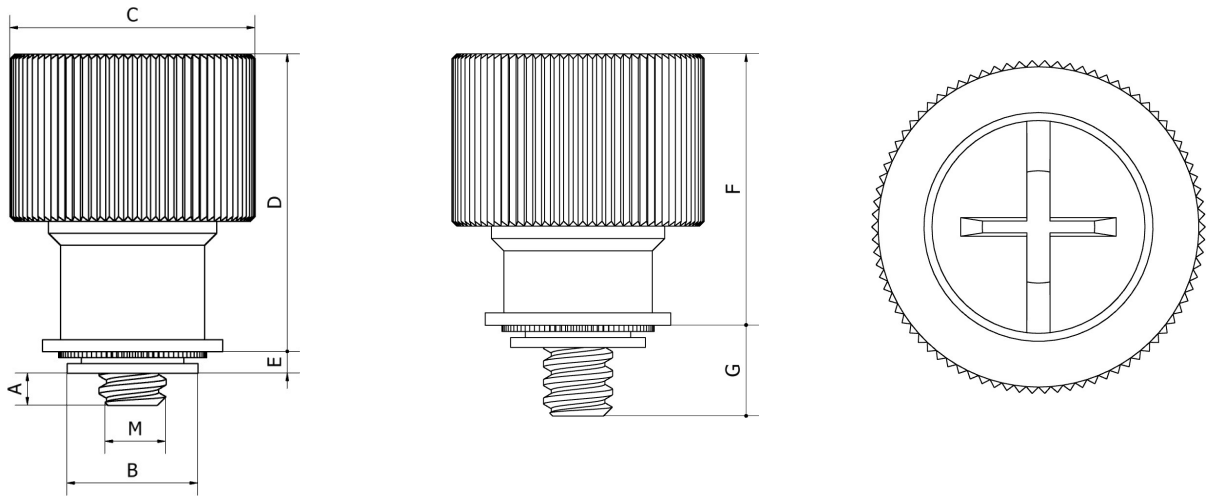




Code Stainless steel	Thread x Pitch	h Max.	A Max.	W	B	T2 Nom.	T1 Max.	W1	Hole	Min. thickness sheet	Min. distance from the edge
ATSAPFC2PM3-40	M3 x 0,5	1,53	6,71	6,4	7,92	13,72	9,4	0	6,73	1,53	6,35
ATSAPFC2PM3-62				9,5				3,2			
ATSAPFC2PM4-50	M4 x 0,7	1,53	7,9	7,9	9,53	17,91	12,19	0	7,92	1,53	7,87
ATSAPFC2PM4-72				11,1				3,2			
ATSAPFC2PM4-94				14,3				6,4			
ATSAPFC2PM5-50	M5 x 0,8	1,53	8,72	7,9	10,31	17,91	12,45	0	8,74	1,53	8,63
ATSAPFC2PM5-72				11,1				3,2			
ATSAPFC2PM5-94				14,3				6,4			
ATSAPFC2PM6-60	M6 x 1	1,53	10,47	9,5	11,89	22,99	15,75	0	10,49	1,53	9,65
ATSAPFC2PM6-82				12,7				3,2			
ATSAPFC2PM6-04				15,9				6,4			

All dimensions are expressed in mm

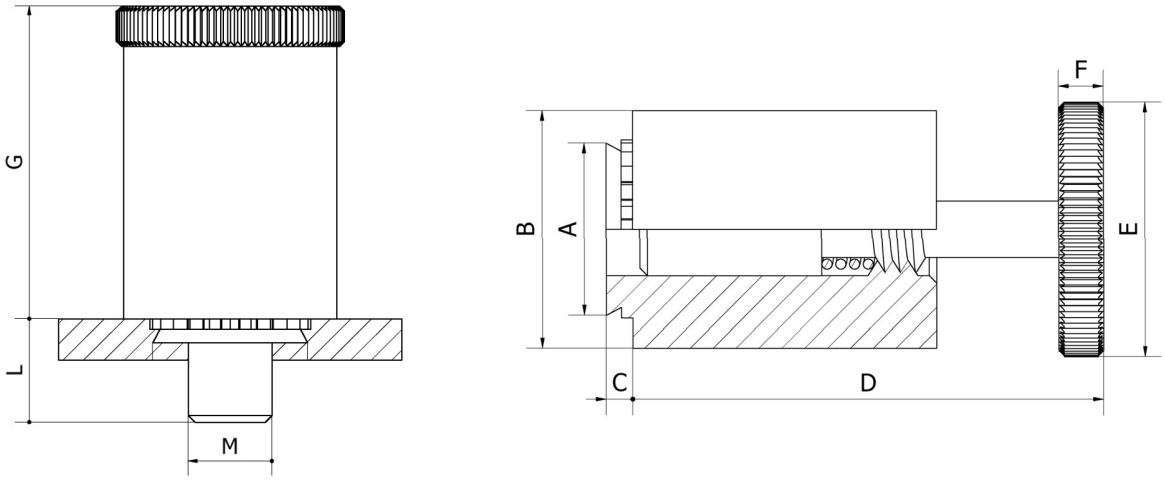
CAPTIVE SCREWS TYPE ATSAPF11



Code Stell, Aluminium, Stainless steel	Thread	A	B	C	D	E	F	G	Min. thickness sheet	Hole	Min. distance from the edge
ATSAPF11M3-0	M3	0	5,54	10,59	11,43	0,92	7,87	4,32	0,92	5,56 - 5,64	7,11
ATSAPF11M3-1		1,52						5,84			
ATSAPF11M3-2		3,05						7,37			
ATSAPF11M4-0	M4	0	7,9	13,06	16,26	0,92	11.43	5,84	0,92	7,92 - 8	8,38
ATSAPF11M4-1		1,52						7,37			
ATSAPF11M4-2		3,05						8,89			
ATSAPF11M5-0	M5	0	7,9	13,06	16,26	0,92	11,43	5,84	0,92	7,92 - 8	8,38
ATSAPF11M5-1		1,52						7,37			
ATSAPF11M5-2		3,05						8,89			
ATSAPF11M6-0	M6	0	9,5	14,61	20,07	0,92	13,46	7,37	0,92	9,53 - 9,61	11,68
ATSAPF11M6-1		1,52						8,89			
ATSAPF11M6-2		3,05						10,41			

All dimensions are expressed in mm

CAPTIVE SCREWS TYPE ATSAPTL2 AND ATSAPSL2



LOCKING

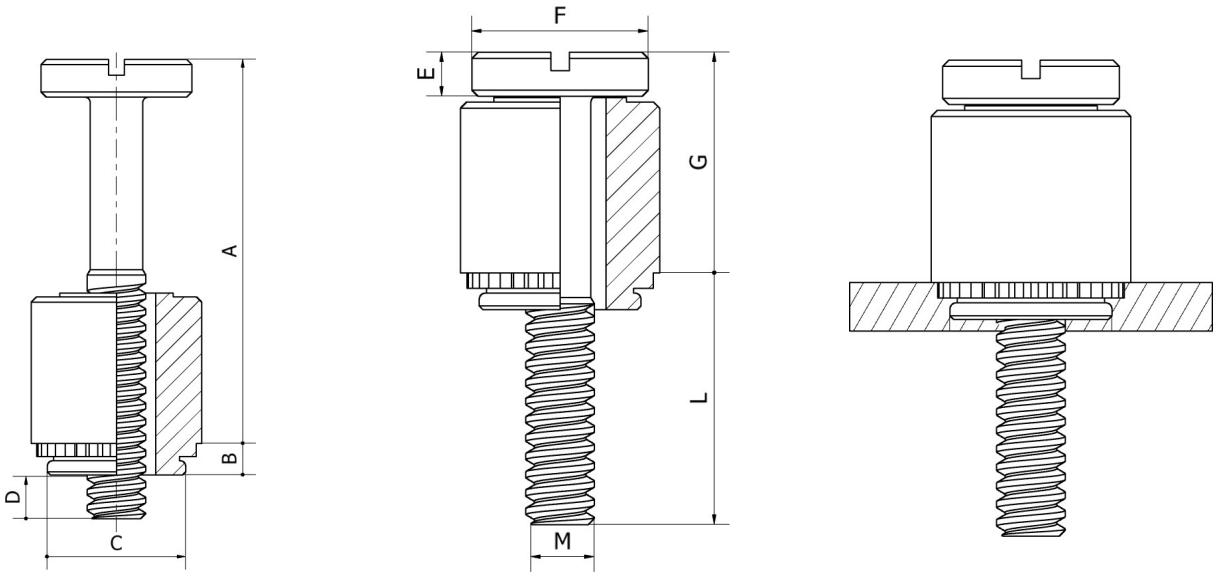
Code / Steel	A	B	C	D	E	F	G	L	M	Min. thickness sheet	Hole	Min. distance from the edge
ATSAPTL20404	8,31	10,3	1,47	22,73	12,7	4,32	15,11	7,87	6,35	1,53	8,33 - 8,41	8,64

NOT LOCKING

Code / Steel	A	B	C	D	E	F	G	L	M	Min. thickness sheet	Hole	Min. distance from the edge
ATSAPSL20404	8,31	10,3	1,47	19,81	12,7	4,32	12,95	7,87	6,35	1,53	8,33 - 8,41	8,64

All dimensions are expressed in mm

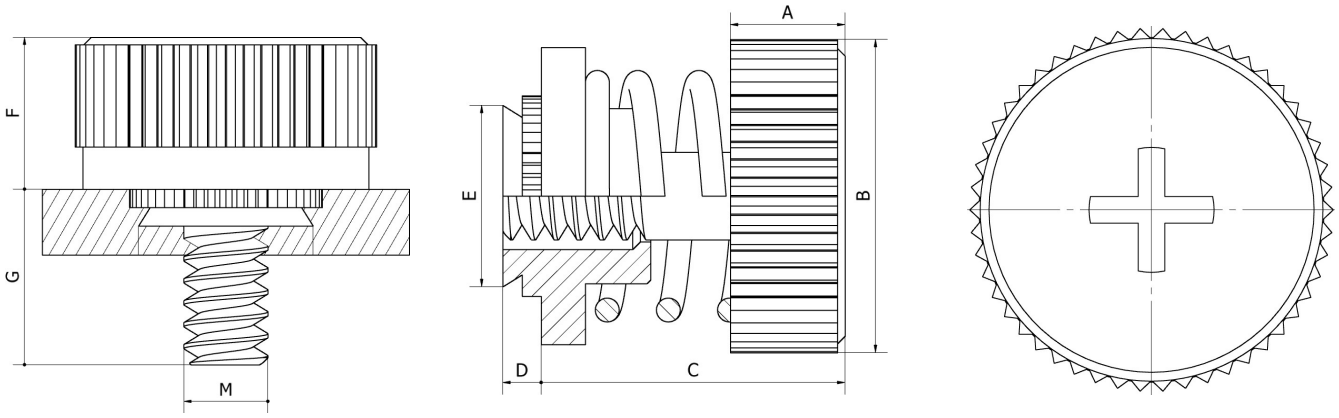
CAPTIVE SCREWS TYPE ATSAPFHV



Code / Steel	A	B	C	D	E	F	G	L	M	Min. thickness sheet	Hole	Min. distance from the edge
ATSAPFHVM3-0	11,25	0,92	5,49	0	2,03	6,95	6,69	5,55	M3	0,92	5,5 - 5,58	5,8
ATSAPFHVM3-1				1,9				7,56				
ATSAPFHVM3,5-0	12,47	0,92	5,98	0	2,34	7,45	7,45	6,01	M3,5	0,92	6 - 6,08	6,3
ATSAPFHVM3,5-1				2,30				8,42				
ATSAPFHVM4-0	14,1	0,92	6,38	0	2,79	7,85	8,5	6,59	M4	0,92	6,4 - 6,48	6,7
ATSAPFHVM4-1				2,7				9,39				

All dimensions are expressed in mm

CAPTIVE SCREWS TYPE ATSAPF50



Code / Steel	A	B	C	D	E	F	G	M	Min. thickness sheet	Hole	Min. distance from the edge
ATSAPF50M3-0	5,26	10,3	13,21	0,77	5,48	8,64	5,84	M3	0,8	5,5 - 5,58	6,6
ATSAPF50M3-1							7,37				
ATSAPF50M4-0	5,51	11,9	13,46	0,77	6,38	8,64	5,84	M4	0,8	6,4 - 6,48	7,4
ATSAPF50M4-1							7,37				
ATSAPF50M5-0	5,72	13,5	13,46	0,77	7,98	9,15	5,84	M5	0,8	8 - 8,08	8,4
ATSAPF50M5-1							7,37				

All dimensions are expressed in mm

PRESSES FOR SELF-CLINCHING INSERTS

PRESS FOR SELF-CLINCHING INSERTS

SMALL IN SIZE BUT BIG ON PERFORMANCE. BUILT WITH THE WORLD'S BEST COMPONENTS TO ENSURE LONG-TERM RELIABILITY.
ITS VERSATILITY, EASE OF USE, AND EASE OF MAINTENANCE MAKE IT INDISPENSABLE FOR SAFELY RESOLVING ALL ISSUES RELATED TO THE USE OF SELF-CLINCHING INSERTS.

VERSATILITY
The compactness and geometry of the structure allow for the positioning of inserts with variable forces of up to 6000 kg on various types of die profiles.
SAFETY
The use of movable carriages allows the distance between the die and the punch to be reduced to the values prescribed by safety regulations.
QUALITY-PRICE
A feature we are confident you will appreciate right from our first meeting.

PRESS FASTENERS 518

Technical specifications:

- Die depth = 450 mm
- Maximum die height = 400 mm
- Punch stroke = 200 mm
- Drive = hydraulic

The main functional features of the **model 518** that benefit the operator are:

- Full protection during operation, ensuring that dangerous operations are avoided during the pressing phase.
- Extremely easy to use; the working pressure and punch stroke can be adjusted intuitively.
- High operation speed.
- Option (if included at purchase) to equip the machine with an automatic fastener feeding system.
- Low maintenance requirements while ensuring high reliability.
- All installed components are highly reliable and readily available on the market.

PRESS FASTENERS 824

Technical specifications:

- Die depth = 600 mm
- Maximum die height = 450 mm
- Punch stroke = 230 mm
- Drive = hydraulic

The main functional features of the **model 824** that benefit the operator are:

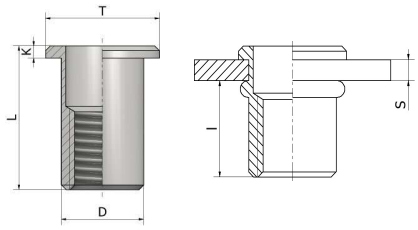
- Full protection during operation, ensuring that dangerous operations are avoided during the pressing phase.
- Extremely easy to use; the working pressure and punch stroke can be adjusted intuitively.
- High operating speed.
- Option (if included at purchase) to equip the machine with an automatic fastener feeding system.
- Low maintenance requirements while ensuring high reliability.
- All installed components are highly reliable and readily available on the market.

SMOOTH CYLINDRICAL THREADED INSERTS

GALVANIZED STEEL

ATT

ROUND HEAD – SHORT

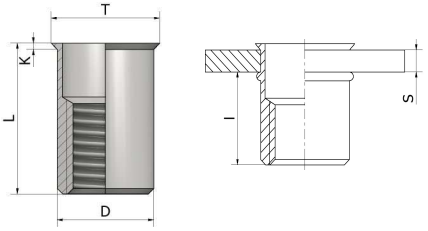


CODE		S	D	Ø Hole +0,1/-0	T	K	L	I ~
ATSATTM3	M3	0,5 – 1,5	4,9	5	7,2	0,8	8,5	4,7
ATSATTM4	M4	0,5 – 2	5,9	6	8,5	0,8	10,5	6
ATSATTM5	M5	0,5 – 2,5	6,9	7	10	1	13	7,5
ATSATTM6	M6	0,5 – 3	8,9	9	12.3	1,3	15,5	9,2
ATSATTM8	M8	1 – 3,5	10,9	11	15	1,5	18,5	11,5
ATSATTM10F12	M10	1 – 3,5	11,9	12	16	1,5	19	11
ATSATTM10F13		1 – 3	12,9	13	16,3	1,6	17	11,5
ATSATTM12F15	M12	1 – 4	14,9	15	18	1,7	22	13,5
ATSATTM12F16		1 – 4	15,9	16	22	2	25	16

GALVANIZED STEEL

ATR

REDUCED HEAD – SHORT

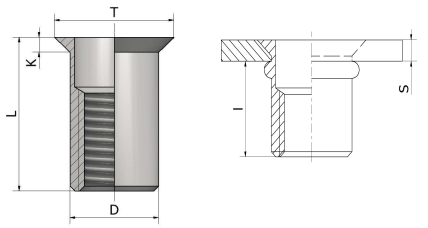


ATSATRM3	M3	0,5 – 1,5	4,9	5	6	0,5	9	6,2
ATSATRM4	M4	0,5 – 2	5,9	6	7	0,5	10,5	6,5
ATSATRM5	M5	0,5 – 2	6,9	7	8	0,5	11,5	7
ATSATRM6	M6	0,5 – 2,5	8,9	9	10,5	0,6	14	8,5
ATSATRM8	M8	1 – 3	10,9	11	12	0,6	16,5	10
ATSATRM10F12	M10	0,5 – 3	11,9	12	13	0,85	18	13
ATSATRM10F13		1 – 3	12,9	13	14	0,7	17,7	12
ATSATRM12F15	M12	0,5 – 3,5	14,9	15	16,5	0,85	22,5	16
ATSATRM12F16		1 - 4	15,9	16	17,2	0,6	24	16

GALVANIZED STEEL

ATS

COUNTERSUNK HEAD – SHORT



ATSATSM3	M3	1,6 – 3,5	4,9	5	7,2	1,5	9,5	4,5
ATSATSM4	M4	1,5 – 3	5,9	6	9	1,5	12	6,5
ATSATSM5	M5	1,5 – 3,5	6,9	7	10	1,5	13	7,5
ATSATSM6	M6	1,5 – 4	8,9	9	12	1,5	15,5	9
ATSATSM8	M8	2 – 4,5	10,9	11	14	1,5	18,5	10
ATSATSM10F12	M10	1,6 – 5	11,9	12	15	1,5	21	11,5
ATSATSM10F13		1,6 – 5	12,9	13	16	1,5		11,5
ATSATSM12F15	M12	1,6 – 5	14,9	15	18	1,5	22,5	14,5
ATSATSM12F16		1,7 – 4,5	15,9	16	19	1,9	26	17,5

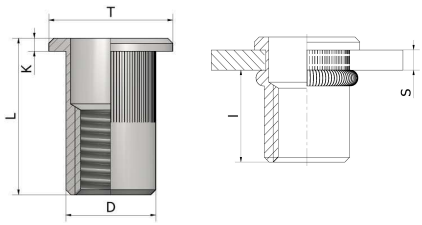
All dimensions are expressed in mm
The technical specifications are subject to change

CYLINDRICAL THREADED INSERTS WITH KNURLED SURFACES

GALVANIZED STEEL

ATTG

ROUND HEAD

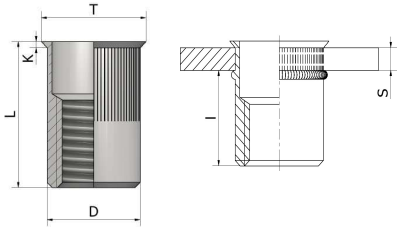


CODE		S	D	Ø Hole +0,1/-0	T	K	L	I ~
ATSATTGM3	M3	0,5 – 1,5	4,9	5	8	0,8	10	6
ATSATTGM3L		2 – 3			7		11,5	8
ATSATTGM4	M4	0,5 – 2	5,9	6	9	0,8	10,5	6
ATSATTGM4L		2 – 3,5					12	6
ATSATTGM5	M5	0,5 – 2,5	6,9	7	10	1	13	7,5
ATSATTGM5L		2,5 – 5			10	1	16,5	8,5
ATSATTGM6	M6	0,5 – 3	8,9	9	12,3	1,3	15	9,2
ATSATTGM6L		3 – 5,5			12,3	1,3	19,5	10,5
ATSATTGM8	M8	1 – 3,5	10,9	11	14,5	1,5	18,5	11,5
ATSATTGM8L		3,5 – 6			14,5	1,5	21	
ATSATTGM10F12	M10	1 – 3,5	11,9	12	16	1,7	19	12,5
ATSATTGM10F12L		3,5 – 5,5	11,9	12	16	1,6	24	18,5
ATSATTGM10F13		1 – 4	12,9	13	17	1,7	21,5	13,5
ATSATTGM10F13L		4 – 6,5	12,9	13	17	1,7	24	13,5
ATSATTGM12F15	M12	1 – 4	14,9	15	18	1,7	22	13,5
ATSATTGM12F15L		4 – 6,5	14,9	15	18	1,7	25	14
ATSATTGM12F16		1 – 3,5	15,9	16	22	2	25	15
ATSATTGM12F16L		3,5 – 6	15,9	16	22	2	28	16,5

GALVANIZED STEEL

ATRG

REDUCED HEAD

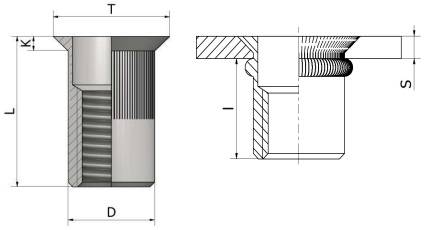


ATSATRGM3	M3	0,5 – 2	4,9	5	6	0,5	9	6,5
ATSATRGM3L		2 – 3					11,5	5,5
ATSATRGM4	M4	0,5 – 2	5,9	6	7	0,5	11,2	7
ATSATRGM4L		2 – 4			7		13	7
ATSATRGM5	M5	0,5 – 2	6,9	7	8	0,5	11,5	7
ATSATRGM5L		2 – 4				0,5	13	7
ATSATRGM6	M6	0,5 – 2,5	8,9	9	10	0,6	14	8,5
ATSATRGM6L		2,5 – 4,5					16	10,5
ATSATRGM8	M8	1 – 3	10,9	11	12	0,65	16,5	10
ATSATRGM8L		3 – 5			12		18,5	10
ATSATRGM10F12	M10	1-3,5	11,9	12	13	0,7	19,5	13
ATSATRGM10F12L		3,5– 5,5	11,9	12	13	0,7	22	17
ATSATRGM10F13		1– 3,5	12,9	13	14	0,7	19,5	12,5
ATSATRGM10F13L		3,5 – 6	12,9	13	14	0,7	22	12,5
ATSATRGM12F15	M12	0,5 – 3,5	14,9	15	16,5	0,85	22,5	16
ATSATRGM12F16		1 – 4	15,9	16	17,6	0,75	24,2	16
ATSATRGM12F16L		4 – 6	15,9	16	17,15	0,6	27	16

GALVANIZED STEEL

ATSG

COUNTERSUNK HEAD



ATSATSGM3	M3	1,6 – 2,5	4,9	5	6,6	1,05	9,5	4,5
ATSATSGM3L		3 – 4					10,5	
ATSATSGM4	M4	1,5 – 3	5,9	6	9	1,5	12	6,5
ATSATSGM4L		3,5 – 5					14	6
ATSATSGM5	M5	1,5 – 3,5	6,9	7	10	1,5	13	7,5
ATSATSGM5L		4 – 6					15	8,5
ATSATSGM6	M6	1,5 – 4	8,9	9	12	1,5	15,5	9
ATSATSGM6L		4 – 6					18	
ATSATSGM8	M8	2 – 4,5	10,9	11	14	1,5	18,5	10
ATSATSGM8L		4,5 – 6,5					19	
ATSATSGM10F12	M10	2 – 5	11,9	12	15	1,5	19	11,5
ATSATSGM10F12L		4 – 7	11,9	12	15		24	
ATSATSGM10F13		2 - 5	12,9	13	16		21	
ATSATSGM10F13L		4 – 7	12,9	13	16		24	
ATSATSGM12F15	M12	1,6 – 5	14,9	15	18	1,5	22,5	14,5
ATSATSGM12F16		2 – 4,5	15,9	16	19	1,9	24	17,5
ATSATSGM12F16L		5 – 7	15,9	16	19	1,9	27,5	17,5

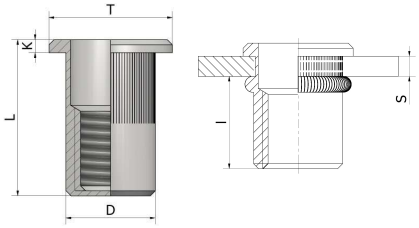
All dimensions are expressed in mm
The technical specifications are subject to change

BLIND KNURLED CYLINDRICAL INSERTS

GALVANIZED STEEL

ATTGC

ROUND HEAD - SHORT

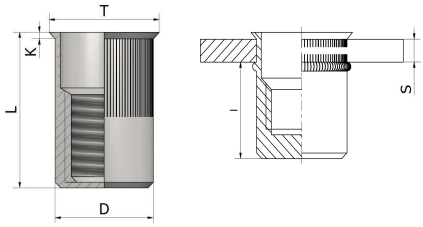


CODE		S	D	Ø Hole +0,1/-0	T	K	L	I ~
ATSATTGM4C	M4	0,5 – 2	5,9	6	9	0,8	16	11,3
ATSATTGM5C	M5	0,5 – 3	6,9	7	10	1	19	11,5
ATSATTGM6C	M6	0,5 – 3	8,9	9	12,3	1,3	19,2	12,7
ATSATTGM8C	M8	0,5 – 3	10,9	11	15	1,5	21,5	14,8
ATSATTGM10F13C	M10	1 – 4	12,9	13	17	1,8	27	19,2

GALVANIZED STEEL

ATRGC

REDUCED HEAD - SHORT

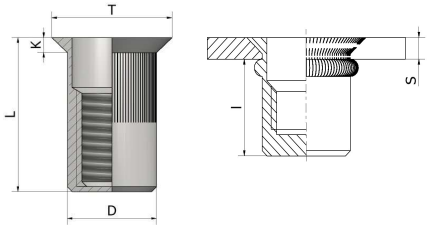


CODE		S	D	Ø Hole +0,1/-0	T	K	L	I ~
ATSATRGM4C	M4	0,5 – 2	5,9	6	7	0,5	15	11
ATSATRGM5C	M5	0,5 – 2	6,9	7	8	0,5	16,5	12,5
ATSATRGM6C	M6	0,5 – 3	8,9	9	10	0,6	20,5	15,5
ATSATRGM8C	M8	1 – 3	10,9	11	12	0,6	23	17
ATSATRGM10F13C	M10	1 – 3	12,9	13	14,5	0,7	24,5	18,2

GALVANIZED STEEL

ATSGC

COUNTERSUNK HEAD - SHORT



CODE		S	D	Ø Hole +0,1/-0	T	K	L	I ~
ATSATSGM4C	M4	1,6 – 3,5	5,9	6	9	1,5	17,3	12,3
ATSATSGM5C	M5	1,6 – 4	6,9	7	10	1,5	19,5	14
ATSATSGM6C	M6	1,6 – 4	8,9	9	12	1,5	23,5	17,5
ATSATSGM8C	M8	1,6 – 4,5	10,9	11	14	1,5	26,5	20
ATSATSGM10F13C	M10	1,6 - 5	12,9	13	16	1,5	33	21,5

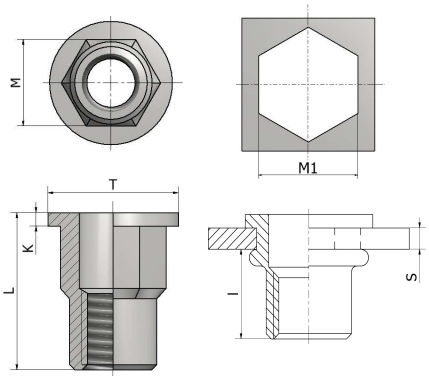
All dimensions are expressed in mm
The technical specifications are subject to change

SEMI-HEXAGONAL THREADED INSERTS

GALVANIZED STEEL

ATTSE

ROUND HEAD

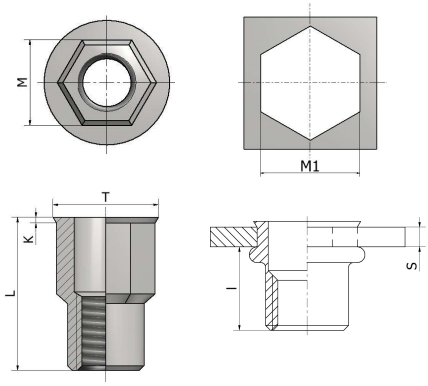


CODE	Thread	S	M	M1	T	K	L	I ~
ATAITTSEM3 **ATSATTSEM3L**	M3	0,5 – 1,5 1,8 – 3	4,9	5	7,2	0,8	8,5	5,5
ATSATTSEM4 **ATSATTSEM4L**	M4	0,5 – 2 2 – 4	5,9	6	9	0,8	11	6,5
ATSATTSEM5 **ATSATTSEM5L**	M5	0,5 – 2,5 2,5 – 4	6,9	7	10	1 0,8	13 16	8 11
ATSATTSEM6 **ATSATTSEM6L**	M6	0,5 – 3,5 3,5 – 5	8,9	9	12 13	1,5	16,2 18,5	8,5 10,5
ATSATTSEM8 **ATSATTSEM8L**	M8	1 – 3,5 3,5 – 5,5	10,9	11	15,9 16	1,5	18,2 21	10,5 12,5
ATSATTSEM10F12 **ATSATTSEM10F13** **ATSATTSEM10F13L**	M10	1 – 3,5 1 – 3,5 3,5 – 6	11,9 12,9 12,9	12 13 13	17 17 18	1,6 1,8 1,7	19 21 21	12 12 12,8
ATSATTSEM12F16	M12	2 – 5	15,9	16	23	2,2	27,5	16,5

GALVANIZED STEEL

AERSE

REDUCED HEAD



ATSAERSEM3 **ATSAERSEM3L**	M3	0,5 – 1,5 1,5 – 2,5	4,9	5	6	0,5	9 10	5,5
ATSAERSEM4 **ATSAERSEM4L**	M4	0,5 – 2 2 – 4	5,9	6	7	0,5	12	8,3
ATSAERSEM5 **ATSAERSEM5L**	M5	0,5 – 2,5 2,5 – 5	6,9	7	8	0,5	13	8,7
ATSAERSEM6 **ATSAERSEM6L**	M6	1 – 3,5 3,5 – 5	8,9	9	10	0,6	16 18	10,5
ATSAERSEM8 **ATSAERSEM8L**	M8	1 – 3,5 3,5 – 6	10,9	11	12	0,65	17,5 20	11,3 13
ATSAERSEM10F12 **ATSAERSEM10F12L** **ATSAERSEM10F13** **ATSAERSEM10F13L**	M10	1 – 4 4 – 6 1 – 4 4 – 6	11,9 11,9 12,9 12,9	12 12 13 13	13,25 14,5 14,5 14,5	0,7 0,75 0,75 0,75	18,3 23 21 23	12,8 12,8 12,8 12,8
ATSAERSEM12F16	M12	1,5 – 4	15,9	16	17,2	0,6	24	16

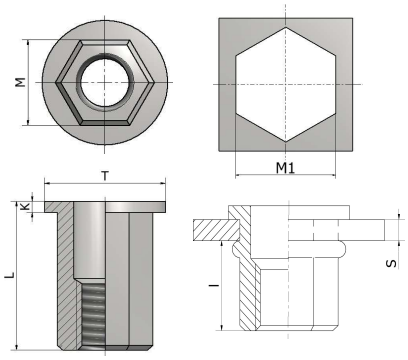
The dimensions are expressed in mm
The technical specifications are subject to change

HEXAGONAL THREADED INSERTS

GALVANIZED STEEL

ATTE

ROUND HEAD

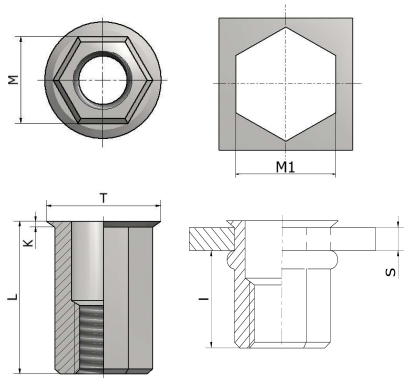


CODE	Thread	S	M	M1	T	K	L	I ~
ATSATTEM4 **ATSATTEM4L**	M4	0,5 – 2 2 – 4	5,9	6	9	0,8	11 13,5	6,5 6,5
ATSATTEM5 **ATSATTEM5L**	M5	0,5 – 2,5 3 – 5,5	6,9	7	10	1	14 16,5	8
ATSATTEM6 **ATSATTEM6L**	M6	0,5 – 3 3 – 5	8,9	9	13	1,2 1,5	16 19,5	9,5 8,5
ATSATTEM8 **ATSATTEM8L**	M8	1 – 3,5 3,5 – 6	10,9	11	16 15	1,5	17 21,5	9,5 10,5
ATSATTEM10F12 **ATSATTEM10F13** **ATSATTEM10F13L**	M10	1 – 3,5 1 – 3,5 4 – 6	11,9 12,9 12,9	12 13 3	18 18 19	1,7 1,7 1,7	21 21 24	13.5 13,5 14,5
ATSATTEM12F15 **ATSATTEM12F16**	M12	1 – 3,5 2 – 4,5	14,9 15,9	15 16	19 23	2 2	24,3 27	16 16,5

GALVANIZED STEEL

AER

REDUCED HEAD



CODE	Thread	S	M	M1	T	K	L	I ~
ATSAERM3 **ATSAERM3L**	M3	0,5 – 1,5 1,5 – 3	4,9	5	6	0,45	8,5 10,5	5 7
ATSAERM4 **ATSAERM4L**	M4	0,5 – 2,5 2,5 – 5	5,9	6	7	0,5	11 13,5	6,7
ATSAERM5 **ATSAERM5L**	M5	0,5 – 3 3 – 5	6,9	7	8	0,5	14,5 16	9
ATSAERM6 **ATSAERM6L**	M6	1 – 3,5 3,5 – 6	8,9	9	10	0,6	16 18	10
ATSAERM8 **ATSAERM8L**	M8	1 – 4 4 – 6	10,9	11	12	0,65	18 20	11,5
ATSAERM10F12 **ATSAERM10F13** **ATSAERM10F13L**	M10	1 – 3,5 1 – 3,5 3,5 – 6	11,9 12,9 12,9	12 13 13	14,5 14,5 14,5	1 0,75 0,75	19 19 23,5	12,5 12,5 14,5
ATSAERM12F15 **ATSAERM12F16** **ATSAERM12F16L**	M12	1 – 4 1 – 4,5 5 – 7	14,9 15,9 15,9	15 16 16	17,5 17,8 17,8	1,1 1,1 1,1	22,5 25 28	- - -

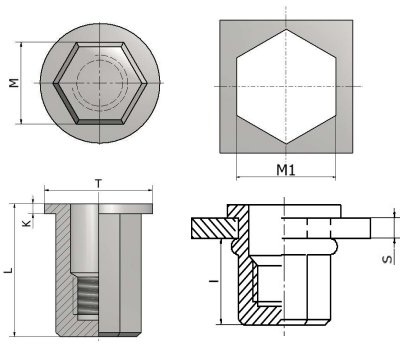
All dimensions are expressed in mm
The technical specifications are subject to change

BLIND HEXAGONAL THREADED INSERTS

GALVANIZED STEEL

ATTEC

ROUND HEAD

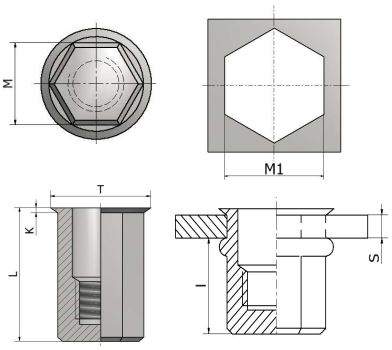


CODE	Thread	S	M	M1	T	K	L	I ~
ATSATTEM4C **ATSATTEM4CL**	M4	0,5 – 2 2 – 4	5,9	6	9	1	15 17	11 13
ATSATTEM5C **ATSATTEM5CL**	M5	0,5 – 2,5 2,5 – 5	6,9	7	10	1	18 20	13,5 15,5
ATSATTEM6C **ATSATTEM6CL**	M6	0,5 – 3 3 – 5	8,9	9	12,7	1,5	23 25	17 19
ATSATTEM8C **ATSATTEM8CL**	M8	1 – 3,5 3,5 – 5,5	10,9	11	16	1,5	26 29	19 22
ATSATTEM10F13C **ATSATTEM10F13CL**	M10	1 – 4 4 – 6	12,9	13	19	2	33 35	25 27

GALVANIZED STEEL

AERC

REDUCED HEAD



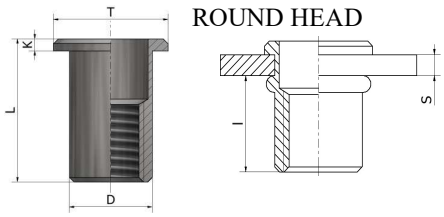
CODE	Thread	S	M	M1	T	K	L	I ~
ATSAERM4C **ATSAERM4CL**	M4	0,5 – 2,5 2,5 – 4	5,9	6	7	0,5	16 18	11,7 13,7
ATSAERM5C **ATSAERM5CL**	M5	0,5 – 3 3,5 - 5	6,9	7	8	0,5	20 23	14,2 17,2
ATSAERM6C **ATSAERM6CL**	M6	1 – 3,5 3,5 – 5,5	8,9	9	10	0,6	20,5 23,5	14,5 17,5
ATSAERM8C **ATSAERM8CL**	M8	1 – 4 4 – 6	10,9	11	12	0,6	23 25	21 23
ATSAERM10F13C **ATSAERM10F13CL**	M10	1,5 – 4,5 4 – 6	12,9	13	14,5	0,7 0,8	28,5 30,5	21 23

All dimensions are expressed in mm
The technical specifications are subject to change

CYLINDRICAL STAINLESS STEEL THREADED INSERTS

STAINLESS STEEL – A2

ATT

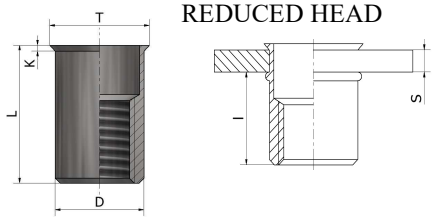


ROUND HEAD

CODE	Thread	S	D	Ø Hole +0,1/-0	T	K	L	I ~
ATSATTM3I	M3	0,3 – 1,8	4,9	5	8	0,75	9	5,5
ATSATTM4I	M4	0,5 – 2	5,9	6	8,5	0,8	10,5	6
ATSATTM5I	M5	0,5 – 2,5	6,9	7	10	1	13	7,5
ATSATTM6I	M6	0,5 – 3	8,9	9	12,3	1,3	15,5	9,2
ATSATTM8I	M8	1 – 3,5	10,9	11	15	1,5	18,5	11,5
ATSATTM10F12I	M10	0,8 – 3,5	11,9	12	16	1,7	19	10,5
ATSATTM10F13I		1 – 4	12,9	13	17	1,6	21	12,5
ATSATTM12F16I	M12	1 – 4	15,9	16	23	2	26	16,5

STAINLESS STEEL – A2

ATR

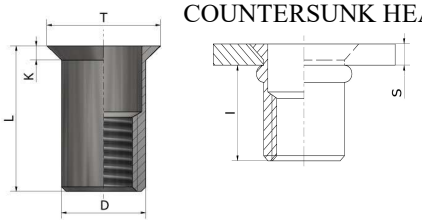


REDUCED HEAD

CODE	Thread	S	D	Ø Hole +0,1/-0	T	K	L	I ~
ATSATRM3I	M3	0,3 – 1,5	4,9	5	5,6	0,35	8,5	5,5
ATSATRM4I	M4	0,5 – 2	5,9	6	7	0,5	10,5	6,5
ATSATRM5I	M5	0,5 – 2	6,9	7	8	0,5	11,5	7
ATSATRM6I	M6	0,5 – 2,5	8,9	9	10	0,6	14	8,5
ATSATRM8I	M8	0,5 – 3	10,9	11	12	0,5	16,5	10,5
ATSATRM10F12I	M10	0,8 – 3	11,9	12	13,5	0,8	18	11,2
ATSATRM10F13I		1 – 3,5	12,9	13	14,1	0,6	19,5	11,5

STAINLESS STEEL – A2

ATS



COUNTERSUNK HEAD

CODE	Thread	S	D	Ø Hole +0,1/-0	T	K	L	I ~
ATSATSM3I	M3	1,7 – 3	4,9	5	8	1,5	11,5	5,5
ATSATSM4I	M4	1,5 – 3	5,9	6	9	1,51	12	7,5
ATSATSM5I	M5	1,5 – 3,5	6,9	7	10	1,5	13	7,8
ATSATSM6I	M6	1,5 – 4	8,9	9	12	1,5	15,5	9
ATSATSM8I	M8	2 – 4,5	10,9	11	14	1,5	18,5	12
ATSATSM10F12I	M10	1 – 4	11,9	12	15	1,5	18	10,5
ATSATSM10F13I		2 – 5	12,9	13	16	1,5	21	13

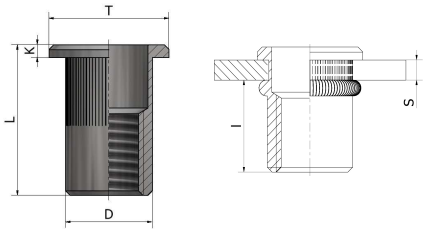
All dimensions are expressed in mm
The technical specifications are subject to change

CYLINDRICAL THREADED INSERTS WITH KNURLED SURFACES, STAINLESS STEEL

STAINLESS STEEL – A2

ATTG

ROUND HEAD

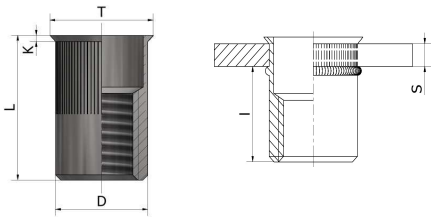


CODE	Thread	S	D	Ø Hole +0,1/-0	T	K	L	I ~
ATSATTGM3I	M3	0,5 – 1,5	4,9	5	7	0,8	10	5
ATSATTGM3IL		1,5 – 3			8	0,75	10	5,5
ATSATTGM4I	M4	0,5 – 2	5,9	6	9	0,8	10,5	6,5
ATSATTGM4IL		2,5 – 4				0,75	12,5	
ATSATTGM5I	M5	0,5 – 2,5	6,9	7	10	1	13	8
ATSATTGM5IL		2 – 4					16	
ATSATTGM6I	M6	0,5 – 3	8,9	9	12,3	1,3	15,5	9,2
ATSATTGM6IL		3,5 – 5,5			13	1,5	19	9
ATSATTGM8I	M8	1 – 3,5	10,9	11	14,5	1,5	18,5	11,5
ATSATTGM8IL		3,5 – 5,5			14,5	1,5	21	11,5
ATSATTGM10F12I	M10	1 – 3,5	11,9	12	16	1,7	19	10,5
ATSATTGM10F12IL		3,5 – 6	11,9	12	16	1,7	22	10,5
ATSATTGM10F13I		1 – 4	12,9	13	17	1,6	21	13,5
ATSATTGM10F13IL		4 – 6	12,9	13	19	2	26	14,5
ATSATTGM12F16I	M12	1 – 4	15,9	16	23	2	25	16,5
ATSATTGM12F16IL		4 – 6,5				1,6	29	

STAINLESS STEEL – A2

ATRG

REDUCED HEAD

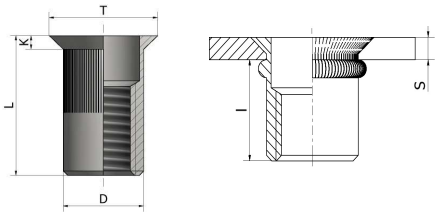


CODE	Thread	S	D	Ø Hole +0,1/-0	T	K	L	I ~
ATSATRGM3I	M3	0,5 – 1,5	4,9	5	6	0,4	9	5,5
ATSATRGM3IL		1,5 – 2,5			5,8	0,5	10	
ATSATRGM4I	M4	0,5 – 2	5,9	6	7	0,5	10,5	6,5
ATSATRGM4IL		2,5 – 4			7	0,5	12,5	
ATSATRGM5I	M5	0,5 – 2	6,9	7	8	0,5	11,5	7,2
ATSATRGM5IL		2 – 4					13	6,8
ATSATRGM6I	M6	0,5 – 3	8,9	9	12	1,5	15,5	9
ATSATRGM6IL		2,5 – 5					19	13
ATSATRGM8I	M8	1 – 3	10,9	11	14	1,5	18,5	12
ATSATRGM8IL		3,5 – 5,5			13,7		21	15,5
ATSATRGM10F12I	M10	0,8 – 3	11,9	12	13,5	0,8	18	11,2
ATSATRGM10F12IL		2 – 4,5	11,9	12	13,5	0,8	19,5	11,2
ATSATRGM10F13I		1 – 3,5	12,9	13	14	0,7	17.7	10,5
ATSATRGM10F13IL		3,5 – 6	12,9	13	14	0,7	23	13,3
ATSATRGM12F16I	M12	1 – 4	15,9	16	17,6	0,75	24,2	14

STAINLESS STEEL – A2

ATSG

COUNTERSUNK HEAD



CODE	Thread	S	D	Ø Hole +0,1/-0	T	K	L	I ~
ATSATSGM3I	M3	1,5 – 2,5	4,9	5	7	1,5	8,5	5
ATSATSGM3IL		3 – 4			8		12,5	6,5
ATSATSGM4I	M4	1,5 – 3	5,9	6	9	1,5	12	7,5
ATSATSGM4IL		3,5 – 5					13	8,5
ATSATSGM5I	M5	1,5 – 3,5	6,9	7	10	1,5	13	7,8
ATSATSGM5IL		4 – 6					15	9,8
ATSATSGM6I	M6	1,5 – 4	8,9	9	12	1,5	16	9,5
ATSATSGM6IL		4,5 – 6,5					19	
ATSATSGM8I	M8	2 – 4,5	10,9	11	14	1,5	19	11
ATSATSGM8IL		3,5 – 6,5			13,7		21	
ATSATSGM10F12I	M10	1,5 – 4	11,9	12	15	1,5	18	10,5
ATSATSGM10F12IL		3 – 6	11,9	12	15	1,5	20	12,5
ATSATSGM10F13I		2 – 5	12,9	13	16	1,5	21	13
ATSATSGM10F13IL		3,5 – 6,5	12,9	13	15,7	1,6	25	17

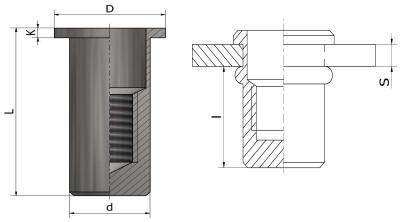
All dimensions are expressed in mm
The technical specifications are subject to change

BLIND CYLINDRICAL THREADED INSERTS, STAINLESS STEEL

STAINLESS STEEL – A2

ATTC

ROUND HEAD

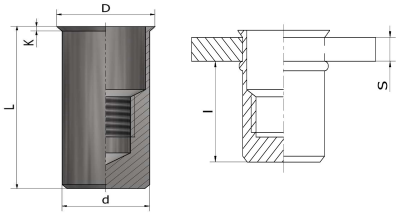


CODE	Thread	GRIP	Ø Hole +0,1/-0	d	D	L	K	I ~
ATSATTM4IC	M4	0,5 – 2	6	5,9	9	16	0,8	11,3
ATSATTM5IC	M5	0,5 – 2,5	7	6,9	10	19	1	13,8
ATSATTM6IC	M6	0,5 – 3,0	9	8,9	12,3	21	1,3	15
ATSATTM8IC	M8	1 – 3,5	11	10,9	15,5	25	1,5	18,2
ATSATTM10F13IC	M10	1 – 4	13	12,9	17	27	1,6	19,4

STAINLESS STEEL – A2

ATRC

REDUCED HEAD



CODE	Thread	GRIP	Ø Hole +0,1/-0	d	D	L	K	I ~
ATSATRM4IC	M4	0,5 – 2	6	5,9	7	15	0,5	11
ATSATRM5IC	M5	0,5 – 2	7	6,9	8	16,5	0,5	12,5
ATSATRM6IC	M6	0,5 – 2,5	9	8,9	10	20,5	0,6	15,5
ATSATRM8IC	M8	0,5 – 3	11	10,9	12	23	0,65	17,6
ATSATRM10F13IC	M10	1,0 – 3,5	13	12,9	14	24,5	0,7	18,3

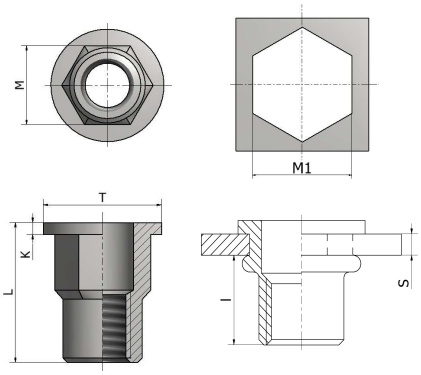
All dimensions are expressed in mm
The technical specifications are subject to change

SEMI-HEXAGONAL THREADED STAINLESS STEEL INSERTS

STAINLESS STEEL – A2

ATTSE

ROUND HEAD

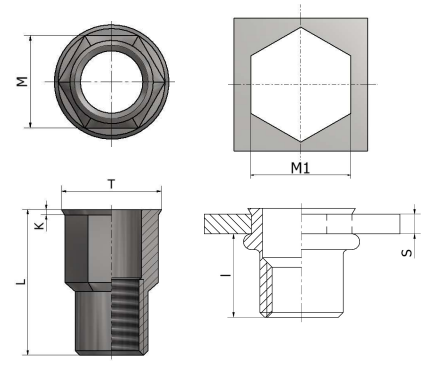


CODE	Thread	S	M	M1	T	K	L	I ~
ATSATTSEM3I	M3	0,5 – 1,8	4,9	5	8	0,75	9	5,5
ATSATTSEM3IL		1,8 – 3					10	
ATSATTSEM4I	M4	0,5 – 2	5,9	6	9	0,8	11	7,2
ATSATTSEM4IL		2 – 4				0,75	12,5	6
ATSATTSEM5I	M5	0,5 – 2,5	6,9	7	10	1	12	7,5
ATSATTSEM5IL		2,5 – 4					15,5	8
ATSATTSEM6I	M6	0,5 – 3	8,9	9	12,7	1,3	15,5	9
ATSATTSEM6IL		3 – 5,5			13	1,5	19	
ATSATTSEM8I	M8	1 – 3,5	10,9	11	16	1,5	18	10
ATSATTSEM8IL		3,5 – 5,5					20	
ATSATTSEM10F12I	M10	1 – 3,5	11,9	12	16	1,7	19	10,5
ATSATTSEM10F12IL		3,5 – 6	11,9	12	16	1,7	22	10,5
ATSATTSEM10F13I		1 – 3,5	12,9	13	18	1,7	21	13,2
ATSATTSEM10F13IL		3,5 – 5,5	12,9	13	17	2	24	14,5
ATSATTSEM12F16I	M12	2 – 4,5	15,9	16	23	2	28	16,5

STAINLESS STEEL – A2

AERSE

REDUCED HEAD



CODE	Thread	S	M	M1	T	K	L	I ~
ATSAERSEM3I	M3	0,5 – 1,5	4,9	5	6	0,5	9	5,5
ATSAERSEM3IL		1,5 – 2,5					11	
ATSAERSEM4I	M4	0,5 – 2	5,9	6	7	0,5	12	7,5
ATSAERSEM4IL		2 – 4					14	6
ATSAERSEM5I	M5	0,5 – 2,5	6,9	7	8	0,5	13	8
ATSAERSEM5IL		2,5 – 4					14,5	6,8
ATSAERSEM6I	M6	1 – 3	8,9	9	10	0,6	16	10,7
ATSAERSEM6IL		3,5 – 5,5					18	13
ATSAERSEM8I	M8	1 – 3,5	10,9	11	12	0,65	17,5	10
ATSAERSEM8IL		3,5 – 5					19,5	
ATSAERSEM10F12I	M10	0,8 – 3	11,9	12	13,5	0,8	18,5	11,2
ATSAERSEM10F12IL		2 – 4,5	11,9	12	13,5	0,8	19,5	11,2
ATSAERSEM10F13I		1 – 4	12,9	13	14,5	0,75	21	13
ATSAERSEM10F13IL		3,5 – 5,5	12,9	13	14,5	0,75	23	15
ATSAERSEM12F16I	M12	1 – 4	15,9	16	17,5	0,8	24	16
ATSAERSEM12F16IL		4 – 6					27	19

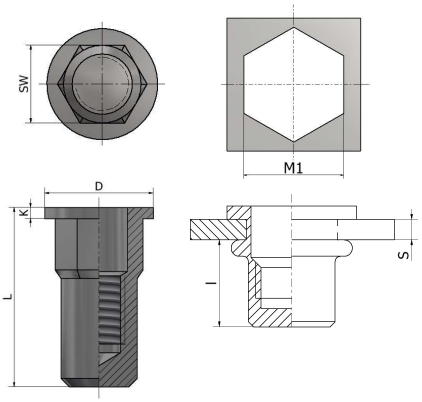
All dimensions are expressed in mm
The technical specifications are subject to change

SEMI-HEXAGONAL BLIND THREADED INSERTS, STAINLESS STEEL

STAINLESS STEEL – A2

ATTSEC

ROUND HEAD

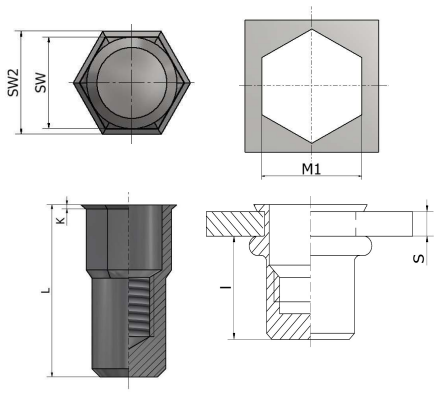


CODE	Thread	GRIP	M1	SW	D	L	K	I
ATSATTSEM4IC	M4	0,5 – 2	6,1	6	9	16	1	11,5
ATSATTSEM5IC	M5	0,5 – 2,5	7,1	7	10	18,5	1	13,5
ATSATTSEM6IC	M6	0,5 – 3,0	9,1	9	12,7	23	1,5	17
ATSATTSEM8IC	M8	1 – 3,0	11,1	11	14,5	25	1,5	18,2
ATSATTSEM10F13IC	M10	1,0 – 3,5	13,1	13	16,5	33	2	25

STAINLESS STEEL – A2

AERSEC

REDUCED HEAD



CODE	Thread	GRIP	M1	SW	SW2	L	K	I
ATSAERSEM3IC **ATSAERSEM3ICL**	M3	0.5 – 1,5 1,5 – 2,5	5,1	5	6	13 15	0,5	8,5
ATSAERSEM4IC **ATSAERSEM4ICL**	M4	0,5 – 2 2 – 4	6,1	6	7	16 17,5	0,5	11,5
ATSAERSEM5IC **ATSAERSEM5ICL**	M5	0,5 – 2,5 2 –4	7,1	7	8	18 20	0,5	13,5
ATSAERSEM6IC **ATSAERSEM6ICL**	M6	0,5 – 3,5 3,5 – 5	9,1	9	10	21 23	0,6	15
ATSAERSEM8IC **ATSAERSEM8ICL**	M8	1 – 3,5 3,5 – 5	11,1	11	12	23,5 27	0,65	18
ATSAERSEM10F13IC **ATSAERSEM10F13ICL**	M10	1 – 4 3,5 – 5	13,1	13	14,5	30,5 33	0,75	23
ATSAERSEM12F16IC	M12	1 – 4	16,1	16	17,5	31,1	0,75	23

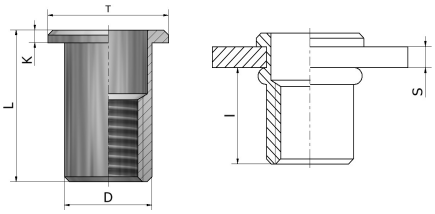
All dimensions are expressed in mm
The technical specifications are subject to change

CYLINDRICAL THREADED ALUMINIUM INSERTS

ALUMINIUM AlMg 2,5

ATT

ROUND HEAD

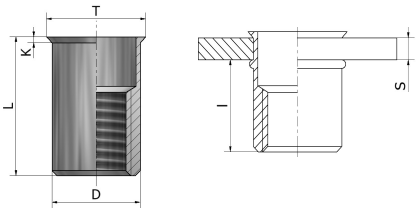


CODE	Thread	S	D	Ø Hole +0,1/-0	T	K	L	I ~
ATSATTM3A	M3	0,5 – 2	4,9	5	8	0,75	9	5,5
ATSATTM4A	M4	0,5 – 2	5,9	6	8,8	0,8	10,5	6
ATSATTM5A	M5	0,5 – 2,5	6,9	7	10	1	13	7,5
ATSATTM6A	M6	0,5 – 2,5	8,9	9	12,3	1,5	15	9,2
ATSATTM8A	M8	1 – 2,5	10,9	11	14,3	1,5	16,5	10,5
ATSATTM10F12A **ATSATTM10F13A**	M10	0,8 – 3,5 1 – 4	11,9 12,9	12 13	16 16,3	1,7 1,6	19 19	10,5 12,5
ATSATTM12F16A	M12	1 – 4	15,9	16	23	2	26	16,5

ALUMINIUM AlMg 2,5

ATR

REDUCED HEAD

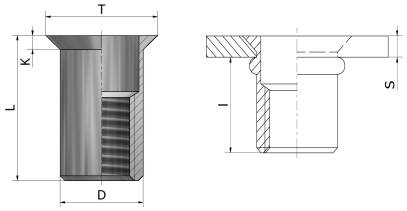


ATSATRM3A	M3	0,3 – 1,5	4,9	5	5,6	0,35	8,5	5,5
ATSATRM4A	M4	0,5 – 2	5,9	6	7	0,5	10,5	6,5
ATSATRM5A	M5	0,5 – 2	6,9	7	8	0,5	11,5	7
ATSATRM6A	M6	0,5 – 2,5	8,9	9	10	0,6	14	8,5
ATSATRM8A	M8	1 – 2,5	10,9	11	12	0,65	15,5	10
ATSATRM10F12A **ATSATRM10F13A**	M10	0,8 – 3 1 – 3	11,9 12,9	12 13	13,5 14	0,8 0,7	18 17,7	11,2 12
ATSATRM12F16A	M12	1 – 4	15,9	16	17,2	0,6	2	16

ALUMINIUM AlMg 2,5

ATS

COUNTERSUNK HEAD



ATSATSM3A	M3	2 – 3	4,9	5	8	1,5	9,5	5
ATSATSM4A	M4	1,5 – 3	5,9	6	9	1,5	12	6
ATSATSM5A	M5	1,5 – 3	6,9	7	10	1,5	13	7
ATSATSM6A	M6	1,5 – 4	8,9	9	12	1,5	15,5	9
ATSATSM8A	M8	1,5 – 4	10,9	11	14	1,5	18,5	10
ATSATSM10F12A **ATSATSM10F13A**	M10	1,5 – 4 1,5 – 4	11,9 12,9	12 13	15 15,7	1,5 1,6	18 22	11,5 14,5
ATSATSM12F16A	M12	1,7 – 4,5	15,9	16	19	1,9	26	17,5

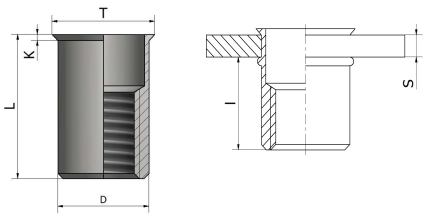
All dimensions are expressed in mm
The technical specifications are subject to change

SPECIAL THREADED INSERTS WITH INCH-SIZED HOLES

G.W. STEEL, CHROMIUM VI FREE
STAINLESS STEEL – A2

ATRCP

CYLINDRICAL REDUCED HEAD

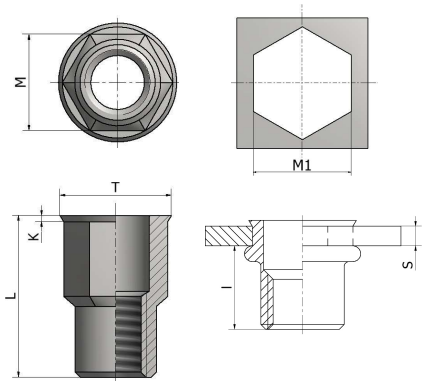


CODE	Thread	S	D	Ø Hole	T	K	L	I ~
ATSATRM3CP	M3	0,5 – 1,5	4,7	4,8	5,4	0,4	9,0	5,5
ATSATRM4CP	M4	0,5 – 2,0	6,3	6,4	7,0	0,5	10,5	6,5
ATSATRM5CP	M5	0,5 – 2,5	7,1	7,2	7,8	0,5	12,0	7,5
ATSATRM6CP	M6	1,0 – 3,0	9,5	9,6	10,3	0,6	15,0	9,2
ATSATRM8CP	M8	1,0 – 3,5	10,5	10,6	11,4	0,6	16,0	10,5
ATSATRM10CP	M10	1,0 – 4,0	12,7	12,8	13,8	0,6	20,0	12,8

G.W. STEEL, CHROMIUM VI FREE

ATRSE

SEMI-HEXAGONAL
REDUCED HEAD



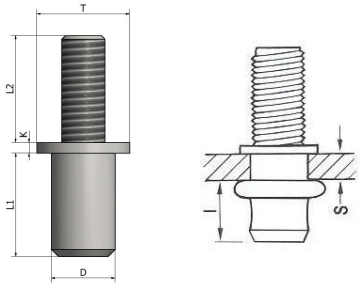
CODE	Thread	S	M	M1	T	K	L	I ~
ATSATRSEM4CP	M4	0,5 – 2	6,3	6,4	7,25	0,5	10,5	6,5
ATSATRSEM5CP	M5	0,5 – 2,5	7,1	7,2	8,2	0,5	12	7,5
ATSATRSEM6CP	M6	1 – 3	9,5	9,6	10,6	0,6	15	9,2
ATSATRSEM8CP	M8	1 – 3,5	10,5	10,6	11,6	0,6	16,5	10,5

All dimensions are expressed in mm
The technical specifications are subject to change

MALE THREADED INSERTS

G.W. STEEL, CHROMIUM VI FREE

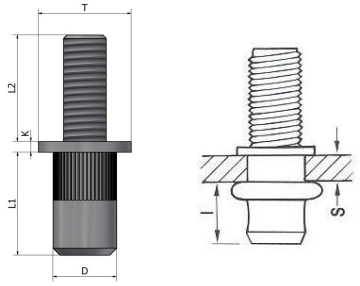
ATTM



CODE	Thread	S	D	Ø Hole +0,1/-0	T	K	L1	L2	I ~
ATSATTMM4X10	M4	0,5 – 2	5,4	5,5	8	0,8	8	10	3,5
ATSATTMM4X10L		2 – 3						10	4
ATSATTMM4X15		0,5 – 2						15	3,5
ATSATTMM4X15L		2 – 3						15	4
ATSATTMM5X15	M5	0,5 – 2,5	6,9	7	10	1	12	15	8
ATSATTMM5X25								25	
ATSATTMM6X15	M6	0,5 – 3	8,9	9	13	1,5	14,5	15	-
ATSATTMM6X25								25	9
ATSATTMM8X20	M8	0,5 – 3	10,9	11	16	1,5	15,5	20	9,5
ATSATTMM8X25								25	

G.W. STEEL, CHROMIUM VI FREE

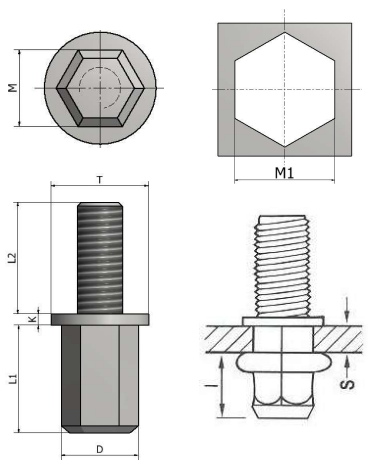
ATTGM



CODICE	Thread	S	D	Ø Hole +0,1/-0	T	K	L1	L2	I ~
ATSATTGMM4X10	M4	2 – 3	5.4	5,5	8	0,5	9	10	3,5
ATSATTGMM5X10	M5	0,5 – 2	6,5	6,6	9	0,8	9	10	4,5
ATSATTGMM5X15		0,5 – 2,5		7	10	1	13,5	15	9 - 10
ATSATTGMM6X10	M6	0,5 – 2,5	7,7	7,8	10	1	10	10	5
ATSATTGMM6X15		0,5 – 3	8,9	9	12,3	1,4	15,7	15	10 - 11
ATSATTGMM8X15	M8	1 – 3	9,8	9,9	12	1,5	12,5	15	7
ATSATTGMM8X20		1 – 3,5	10,9	11	14,5		18,5	20	12 - 13

G.W. STEEL, CHROMIUM VI FREE

ATTEM



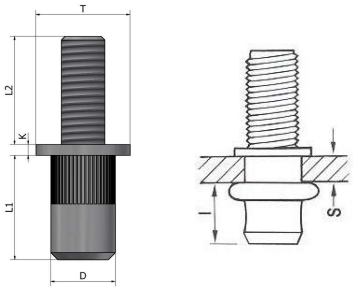
CODICE	Thread	S	D	Ø Hole +0,1/-0	T	K	L1	L2	I
ATSATTEMM5X25	M5	0,5 – 3	6,9	7	10	1	12	25	5-5,5
ATSATTEMM5X30								30	
ATSATTEMM5X35								35	
ATSATTEMM6X15	M6	0,5 – 3	8,9	9	13	1,5	14,5	15	7-7,5
ATSATTEMM6X20								20	
ATSATTEMM6X25								25	
ATSATTEMM8X20	M8	0,5 – 3	10,9	11	16	1,5	15,5	20	8-8,5
ATSATTEMM8X25								25	

All dimensions are expressed in mm
The technical specifications are subject to change

MALE THREADED INSERTS STAINLESS STEEL

STAINLESS STEEL A2

ATTGM

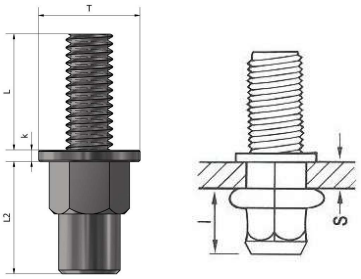


CODE	Thread	S	D	Ø Hole +0,1/-0	T	K	L1	L2	I ~
ATSATTGMM6X15I	M6	0,5 – 3	8,9	9	12,3	1,3	15,7	15	9 - 11
ATSATTGMM8X18I	M8	1 – 3,5	10.9	11	14,5	1,5	18,5	20	11 – 13

All dimensions are expressed in mm
The technical specifications are subject to change

STAINLESS STEEL A2

ATTSEM



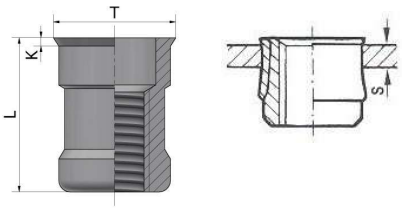
CODE	Thread	S	Ø Hole +0,1/-0	T	K	L	L2	I
ATSATTSEMM6X15I	M6	0,5 – 3	9	12,7	1,3	15	15,7	9 - 11
ATSATTSEMM8X18,5I	M8	1 – 3,5	11	16	1,5	20	18	10 - 12

All dimensions are expressed in mm
The technical specifications are subject to change

SPECIAL THREAD INSERTS

G.W. STEEL, CHROMIUM VI FREE

AR

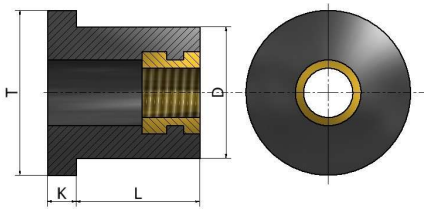


THREE-LOBED THREADED INSERT

CODE	Thread	S	Ø Hole +0,1/-0	T	K	L
ATSARM3	M3	≥0,8	5	5,2	0,4	9,5
ATSARM4	M4	≥0,8	6,5	6,9	0,4	10
ATSARM5	M5	≥0,8	7,25	7,5	0,6	10
ATSARM6	M6	≥0,8	9,75	10	0,6	13
ATSARM8	M8	≥0,8	13	13,5	0,7	15,5

NEOPRENE / BRASS

ARN

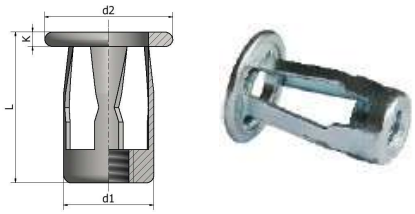


ALSO AVAILABLE THE VERSION:
NEOPRENE/STAINLESS STEEL

CODE	Thread	S	D	Ø Hole +0,1/-0	T	K	L
ATSARN314	M3	0,4 – 4	7,9	8,1	11	1,2	12,6
ATSARN414	M4	0,4 – 4	7,9	8,1	11	1,2	12,6
ATSARN515	M5	0,4 – 4,9	9,6	9,8	12,7	0,9	14,1
ATSARN522		4 – 10			14	0,9	21,5
ATSARN527		7,9 – 15			14	1,3	26,5
ATSARN541		20,5 – 30			14	1,3	39
ATSARN617	M6	0,4 – 4	12,7	12,9	16	1,3	16
ATSARN621		4,7 – 8,7			16	1,3	20,3
ATSARN626		0,8 – 4,7			19,05	4,7	21,1
ATSARN628		6,4 – 11,5			16,3	2	26,7
ATSARN822	M8	0,4 – 4,0	15,9	16,1	21,5	3,2	18,3
ATSARN834		3,9 – 9,5				5,7	27,9

G.W. STEEL, CHROMIUM VI FREE

AJF



CODE	Thread	S Spess. Serra.	d1 Max	Ø Hole	d2	K	L
ATSJF4C	M 4	0,4 – 5	8,5	8	12,2	1,6	16,8
ATSJF4L		4,7 – 9,5	8,1	8,2	11,9	1,8	21,4
ATSJF5C	M 5	0,4 – 5	10,5	10	14	1,6	18,4
ATSJF5L		4,7 – 9,5	9,7	9,8	13,5	1,8	22,6
ATSJF6C	M 6	0,4 – 5	12,5	12		1,6	18,6
ATSJF6M		5 – 10	12,5	12	16	1,6	22,9
ATSJF6L		9,5 – 12,7	11,2	11,3		1,8	27,8
ATSJF8C	M 8	0,4 – 5	15,5	15,6	18,2	2	21
ATSJF8L		0,4 – 8					25,5

All dimensions are expressed in mm
The technical specifications are subject to change

TOOLS FOR THREADED INSERT

	**TOOLS FOR THREADED INSERT ATSRL310** FOR THREADED INSERTS FROM M3 TO M10. COMES WITH AN M5 - M6 - M8 TIE-ROD KIT.
	**TOOLS FOR THREADED INSERT ATSRL312** FOR THREADED INSERTS FROM M3 TO M12. COMES WITH A TIE-ROD KIT FROM M3 TO M12.
	**BATTERY-POWERED TOOLS FOR INSERTS ATSRL860** FOR THREADED INSERTS FROM M3 TO M10. COMES WITH AN M4 - M5 - M6 - M8 TIE-ROD KIT.

SELF-TAPPING BUSHING ATSU212 – ATSBAF212

INSERTION USING A HAND TOOL OR A TAPPING MACHINE

The ATSU212 and ATSBAF212 self-tapping bushings can be screwed into all metallic materials as well as thermoplastics and thermosets.
The self-tapping bushing, which features both internal and external threads, is designed with a cutting slot and provides excellent shear and tensile strength.

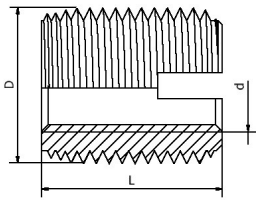
ATSU212

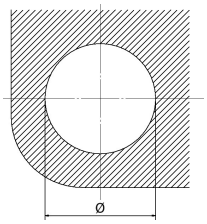
- Brass

ATSBAF212

- G.W. steel, free of chromium VI
- stainless steel 303
- stainless steel 316

***The choice of drill bit diameter depends on the hardness of the base material**





CODE				THREAD				
Galvanized steel	Stainless steel 303	Stainless steel 316	Brass	d thread Int.	D thread Est.	Ø approx. drill hole size*	Min. depth. of the hole	L
ATSBAF212M2,5ACC	ATSBAF212M2,5I	ATSBAF212M2,5II	ATSU212M2,5	M2,5x 0,45	4,5 x 0,5	4,0 – 4,3	8	6
ATSBAF212M03ACC	ATSBAF212M03I	ATSBAF212M03II	ATSU212M3	M3 x 0,5	5,0 x 0,5	4,5 – 4,8	8	6
ATSBAF212M04ACC	ATSBAF212M04I	ATSBAF212M04II	ATSU212M4	M4 x 0,7	6,5 X 0,75	5,8 – 6,2	10	8
ATSBAF212M05ACC	ATSBAF212M05I	ATSBAF212M05II	ATSU212M5	M5 x 0,8	8,0 X 1	7,1 – 7,6	13	10
ATSBAF212M06AACC	ATSBAF212M06AI	ATSBAF212M06AII	ATSU212M6A	M6 x 1	9,0 x 1	8,1 – 8,6	15	12
ATSBAF212M06ACC	ATSBAF212M06I	ATSBAF212M06II	ATSU212M6	M6 x 1	10 x 1,5	8,6 – 9,4	17	14
ATSBAF212M08ACC	ATSBAF212M08I	ATSBAF212M08II	ATSU212M8	M8 x 1,25	12 x 1,5	10,6 –11,4	18	15
ATSBAF212M10ACC	ATSBAF212M10I	ATSBAF212M10II	ATSU212M10	M10 x 1,5	14 x 1,5	12,6 –13,4	22	18
ATSBAF212M12ACC	ATSBAF212M12I	ATSBAF212M12II	ATSU212M12	M12 x1,75	16 x 1,5	14,6 –15,4	26	22
ATSBAF212M14ACC	ATSBAF212M14I	ATSBAF212M14II	ATSU212M14	M14 x 2	18 x 1,5	16,6 –17,4	28	24
ATSBAF212M16ACC	ATSBAF212M16I	ATSBAF212M16II	ATSU212M16	M16 x 2	20 x 1,5	18,6 –19,4	27	22
ATSBAF212M18ACC	ATSBAF212M18I	ATSBAF212M18II	ATSU212M18	M18 x 2,5	22 x 1,5	20,6 –21,4	29	24
ATSBAF212M20ACC	ATSBAF212M20I	ATSBAF212M20II	ATSU212M20	M20 x 2,5	26 x 1,5	24,6 –25,4	32	27
ATSBAF212M22ACC	ATSBAF212M22I	ATSBAF212M22II	ATSU212M22	M22 x 2,5	26 x 1,5	24,6 –25,4	36	30
ATSBAF212M24ACC	ATSBAF212M24I	ATSBAF212M24II	ATSU212M24	M24 x 3	30 x 1,5	28,6 –29,4	36	30
ATSBAF212M27ACC	ATSBAF212M27I	ATSBAF212M27II	ATSU212M27	M27 x 3	34 x 1,5	32,6 –33,4	36	30
ATSBAF212M30ACC	ATSBAF212M30I	ATSBAF212M30II	ATSU212M30	M30 x 3,5	36 x 1,5	34,6 –35,4	46	40

All dimensions are expressed in mm

SELF-TAPPING BUSHING ATSBAF318

The ATSBAF318 self-tapping bushing can be screwed into all metallic materials as well as thermoplastics and thermosets.
Short and compact, with internal and external threads featuring tapping holes, it is particularly suitable for thin materials.

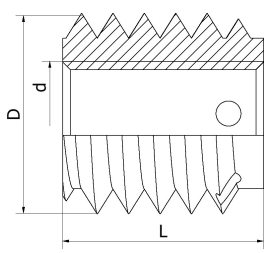
ATSBAF318

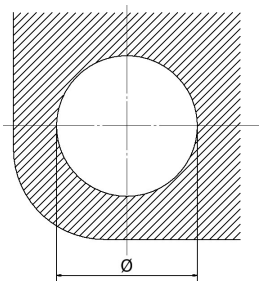
- G.W. steel, free of chromium VI
- Stainless steel 303

The choice of drill bit Ø depends on the hardness of the base material

CODE		THREAD				
Galvanized steel	**Stainless steel 303**	**D thread Int.**	**D thread Est.**	**Ø approx. drilling***	**Depth min. Hole**	**L**
ATSBAF318M03C **ATSBAF318M03L**	**ATSBAF318M03CI** **ATSBAF318M03LI**	M3 x 0,5	5 x 0,6	4,6 – 4,8	6 8	4 6
ATSBAF318M04C **ATSBAF318M04L**	**ATSBAF318M04CI** **ATSBAF318M04LI**	M4 x 0,7	6,5 x 0,8	6 – 6,2	8 10	6 8
ATSBAF318M05C **ATSBAF318M05L**	**ATSBAF318M05CI** **ATSBAF318M05LI**	M5 x 0,8	8 x 1	7,4 – 7,7	9 13	7 10
ATSBAF318M06C **ATSBAF318M06L**	**ATSBAF318M06CI** **ATSBAF318M06LI**	M6 x 1	10 x 1,25	9,3 – 9,6	10 15	8 12
ATSBAF318M08C **ATSBAF318M08L**	**ATSBAF318M08CI** **ATSBAF318M08LI**	M8 x 1,25	12 x 1,5	11,1 – 11,5	11 17	9 14
ATSBAF318M10C **ATSBAF318M10L**	**ATSBAF318M10CI** **ATSBAF318M10LI**	M10 x 1,5	14 x 1,5	13,1 – 13,5	13 22	10 18
ATSBAF318M12C **ATSBAF318M12L**	**ATSBAF318M12CI** **ATSBAF318M12LI**	M12 x 1,75	16 x 1,75	15 – 15,4	15 26	12 22
ATSBAF318M14C **ATSBAF318M14L**	**ATSBAF318M14CI** **ATSBAF318M14LI**	M14 x 2	18 x 2	17 – 17,4	17 28	14 24
ATSBAF318M16C **ATSBAF318M16L**	**ATSBAF318M16CI** **ATSBAF318M16LI**	M16 x 2	20 x 2	19 – 19,4	17 28	14 24

All dimensions are expressed in mm

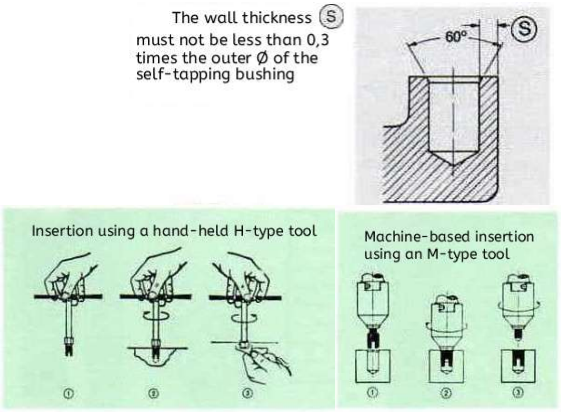




PRE-DRILLING Ø IN MM (approximate, as they depend on the viscosity of the material to be machined)								
Measure	TYPE 212				TYPE 318			
	Light metals and aluminum alloys with R < 250 kg/mm². Soft plastics	Light metals and aluminum alloys with R < 300 kg/mm². Hard plastics and mild cast iron	Light metals and aluminum alloys with R < 350 kg/mm². Very hard synthetic materials. Brass, bronze, and cast iron with HB < 1900.	Light metals and aluminum alloys with R > 350 kg/mm². Brass, bronze, and cast iron with HB > 1900.	Light metals and aluminum alloys with R < 300 kg/mm². Soft plastics.	Light metals and aluminum alloys with R < 350 kg/mm². Hard plastics and mild cast iron.	Light metals and aluminum alloys with R < 350 kg/mm². Very hard synthetic materials. Brass, bronze, and cast iron with HB < 1900.	Brass, bronze, and cast iron HB>1900
M2,5	4,0 – 4,1	4,1	4,2	4,3	-	-	-	-
M3	4,5 – 4,6	4,6	4,7	4,8	-	-	-	-
M4	5,8 – 5,9	6,0	6,1	6,2	6,0	6,1	6,1	6,2
M5	7,1 – 7,2	7,3	7,5	7,6	7,4	7,5	7,6	7,7
M6a	8,1 – 8,2	8,3	8,5	8,6	-	-	-	-
M6	8,6 – 8,8	9,0	9,2	9,4	9,3	9,4	9,5	9,6
M8	10,6 – 10,8	11,0	11,2	11,4	11,1	11,2	11,3	11,5
M10	12,6 – 12,8	13,0	13,2	13,4	13,1	13,2	13,3	13,5
M12	14,6 – 14,8	15,0	15,2	15,4	15,0	15,1	15,2	15,4
M14	16,6 – 16,8	17,0	17,2	17,4	17,0	17,1	17,2	17,4
M16	18,6 – 18,8	19,0	19,2	19,4				
M18	20,6 – 20,8	21,0	21,2	21,4				
M20/M22	24,6 – 24,8	25,0	25,2	25,4				
M24	28,6 – 28,8	29,0	29,2	29,4				
M27	32,6 – 32,8	33,0	33,2	33,4				
M30	34,6 – 34,8	25,0	35,2	35,4				
Coverage of the sides	70% - 60%	50%	40%	30%	80%	70%	60%	50%

Method for Installing Self-Tapping Bushings

Self-tapping bushings are installed using special tools, either by machine or by hand.
For machine installation, attach tool “M” to a standard bench drill equipped with a reverse mechanism or to a friction tapping machine.
For manual installation, attach tool “H” to a tap wrench, proceeding as you would when manually tapping a hole.
Before inserting the self-tapping die into a smooth hole in the workpiece
(whether a remanufactured part or a die-cast part), screw it onto the threaded shank of the insertion tool with the milled surface or the three holes facing downward and so that the threaded shank of the bit itself leaves the self-tapping edges of the sleeve exposed.
If it is not possible to adjust the interchangeable threaded bit of the machine tool—as is the case, for example, with type 318 sleeves, which are shorter—it must be shortened as needed by grinding.
The same applies to the fixed threaded tip of the hand tool.



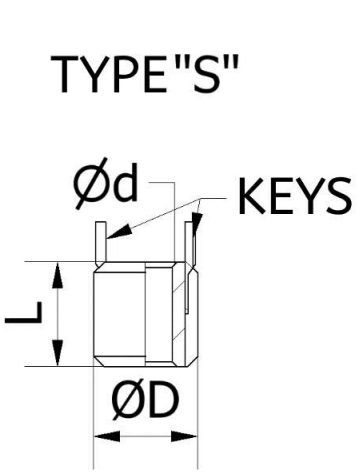
“M” Type Tools for Machine Insertion of Self-Tapping Inserts				
For bushes	**Total lenght**	**Ø of body**	**Ø of stem**	**Frame mount**
M2,5	82	18	8	6,3
M3	82	18	8	6,3
M4	83	18	8	6,3
M5	101	24	12,5	10
M6a, M6	102	24	12,5	10
M8	105	24	12,5	10
M10	131	32	16	12,5
M12	134	32	16	12,5
M14	166	50	22	18
M16	166	50	22	18

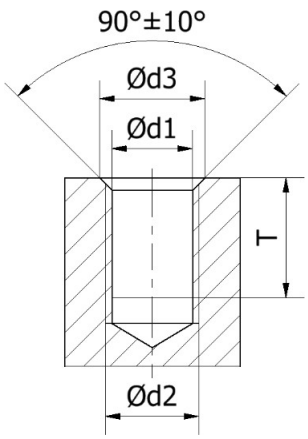
“H”-Type Tools for Hand-Inserting Self-Tapping Sockets				
For bushes	**Total lenght**	**Ø of body**	**Ø of stem**	**Frame mount**
M2,5	57	6	5	7
M3	57	6	5	7
M4	57	6	5	7
M5	76	12	8	13
M6a, M6	76	12	8	13
M8	76	12	8	13
M10	100	16	12	17
M12	100	16	12	17
M14	100	17	12	19
M16	124	20	16	22

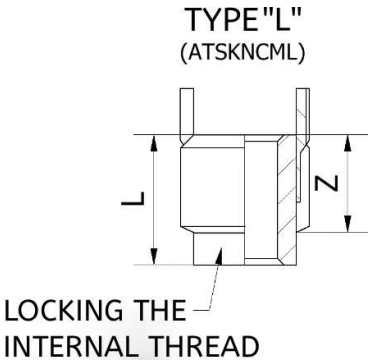
All dimensions are expressed in mm

THREADED INSERT WITH ANCHOR KEYS

Threaded insterts series ATSKNCM

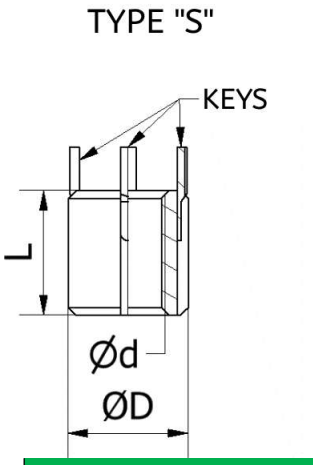


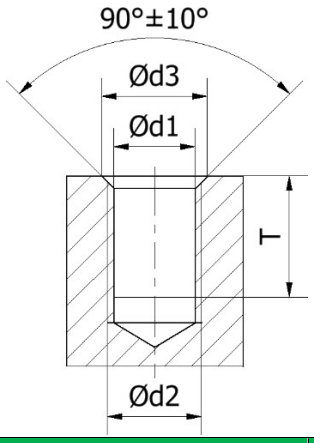


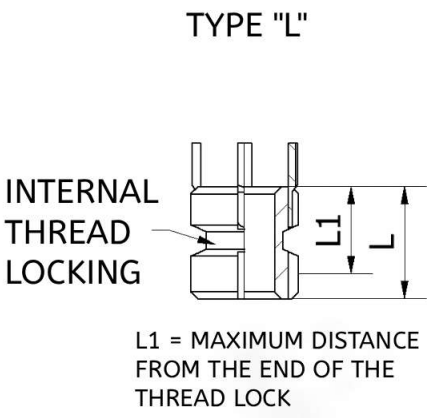


Code		Dimensions					Installation						Removal	
Standard	Clinching	Internal Ød 5H/4H5H	External ØD	Anchor mm²	L +0.25	Z	d1 Pre-drilling tapping		d3 Countersunk	Thread Ø d2 6H	Thread T Min.	Installation tool Cod.	Tip Ø	Tip Depth
ATSKNCM2X0,4		M2X0,4	M4X0,7	16,5	3		3,4	+0,080	4,1	M4X0,7	4,0	ATSTKNCM2X0,40	2,8	2,00
	ATSKNCML2X0,4			10,3		2,2		-0,025						
ATSKNCM2,5X0,45		M2,5X0,45	M4,5X0,75	26,5	3,8		3,9	+0,080	4,6	M4,5X0,75	5,0	ATSTKNCM2,5X0,45	3,0	2,00
	ATSKNCML2,5X0,45			15,9		2,7		-0,025						
ATSKNCM3X0,5		M3X0,5	M5X0,8	33,1	4,25		4,4	+0,080	5,1	M5X0,8	5,5	ATSTKNCM3X0,50	3,5	2,25
	ATSKNCML3X0,5			21,4		3,1		-0,025						
ATSKNCM4X0,7		M4X0,7	M6X0,75	58,4	5,25		5,5	+0,080	6,1	M6X0,75	6,5	ATSTKNCM4X0,70	4,6	2,50
	ATSKNCML4X0,7			42,9		4,1		-0,025						

Threaded inserts series ATSKNM



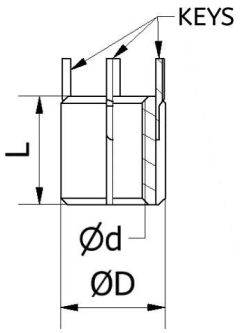


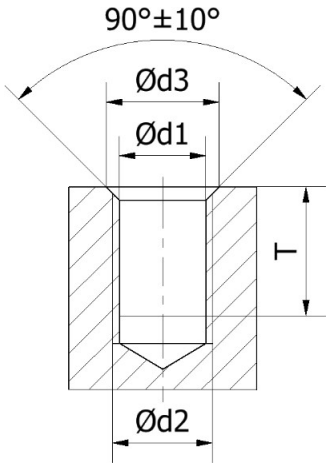


Code		Dimensions					Installation					Removal	
Standard	Clinching	Internal Ød 5H/4H5H	External ØD	Anchor mm²	L +0,30	L1	d1 Pre-drilling tapping		d3 Countersunk	Thread Ø d2 6H	Thread T Min.	Installation tool Cod.	Tip Ø	Tip Depth
ATSKNM5X0,8		M5X0,8	M8X1,25	104,9	8		6,90	+0,10 0	8,25	M8x1,25	9,5	**ATSTM-5**	5,5	4,00
	ATSKNML5X0,8			83,1		7,6		-0,025						
ATSKNM5X0,5		M5X0,5	M8X1,25	104,9	8		6,90	+0,10 0	8,25	M8x1,25	9,5	**ATSTM-5**	5,5	4,00
	ATSKNML5X0,5			83,1		7,0		-0,025						
ATSKNM6X1		M6X1,0	M10X1,25	177,7	10		8,8	+0,10 0	10,25	M10x1,25	11,5	**ATSTM-6**	7,5	4,75
	ATSKNML6X1			152,7		8,2		-0,025						
ATSKNM6X0,75		M6X0,75	M10X1,25	177,7	10		8,8	+0,10 0	10,25	M10x1,25	11,5	**ATSTM-6**	7,5	4,75
	ATSKNML6X0,75			152,7		7,3		-0,025						
ATSKNM8X1,25		M8X1,25	M12X1,25	266,7	12		10,8	+0,10 0	12,25	M12x1,25	13,5	**ATSTM-8**	9,5	4,75
	ATSKNML8X1,25			242,7		9,5		-0,025						
ATSKNM8X1		M8X1	M12X1,25	266,7	12		10,8	+0,10 0	12,25	M12x1,25	13,5	**ATSTM-8**	9,5	4,75
	ATSKNML8X1			242,7		9,0		-0,025						
ATSKNM10X1,5		M10X1,5	M14X1,5	341,6	14		12,8	+0,13 0	14,25	M14x1,5	15,5	**ATSTM-10**	11,5	4,75
	ATSKNML10X1,5			316,4		10,0		-0,025						
ATSKNM10X1,25		M10X1,25	M14X1,5	341,6	14		12,8	+0,13 0	14,25	M14x1,5	15,5	**ATSTM-10**	11,5	4,75
	ATSKNML10X1,25			316,4		9,5		-0,025						
ATSKNM12X1,75		M12X1,75	M16X1,5	470,2	16		14,75	+0,13 0	16,25	M16x1,5	17,5	**ATSTM-12**	13,5	4,75
	ATSKNML12X1,75			441,4		11,2		-0,025						
ATSKNM12X1,25		M12X1,25	M16X1,5	470,2	16		14,75	+0,13 0	16,25	M16x1,5	17,5	**ATSTM-12**	13,5	4,75
	ATSKNML12X1,25			441,4		10,2		-0,025						

Threaded inserts series ATSKNHM

TYPE "S"





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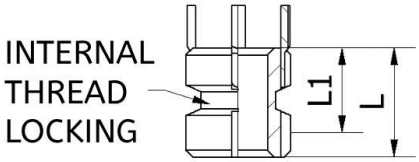
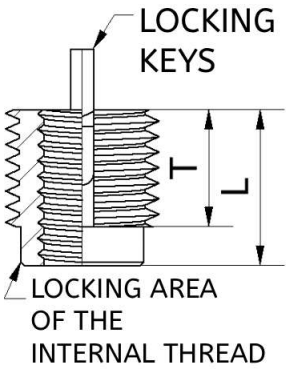


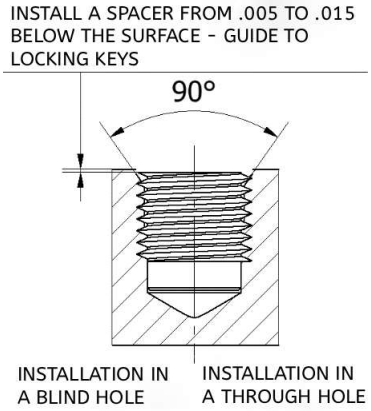
L1 = MAXIMUM DISTANCE FROM THE END OF THE THREAD LOCK

Code		Dimensions					Installation						Removal	
Standard	Clinching	Internal Ød 5H/4H5H	External ØD	Anchor mm²	L +0.30	L1	d1 Pre-drilling tapping		d3 Countersunk	Thread Ø d2 6H	Thread T Min.	Installation tool Cod.	Tip Ø	Tip Depth
ATSKNHM4X0,7		M4X0,7	M8X1,25	104,9	8		6,9	+0,10 0	8,25	M8X1,25	9,5	ATSTHM-4	5,5	4,00
	ATSKNHML4X0,7			83,1		8,0		- 0,025						
ATSKNHM5X0,8		M5X0,8	M10X1,25	177,1	10		8,8	+0,10 0	10,25	M10X1,25	11,5	ATSTHM-5	7,5	4,75
	ATSKNHML5X0,8			152,7		8,7		- 0,025						
ATSKNHM6X1,0		M6X1,0	M12X1,25	266,7	12		10,8	+0,10 0	12,25	M12X1,25	13,5	ATSTHM-6	9,5	4,75
	ATSKNHML6X1,0			242,5		9,5		- 0,025						
ATSKNHM8X1,25		M8X1,25	M14X1,5	341,6	14		12,8	+0,13 0	14,25	M14X1,5	15,5	ATSTHM-8	11,5	4,75
	ATSKNHML8X1,25			316,4		10,0		- 0,025						
ATSKNHM8X1,0		M8X1,0	M14X1,5	341,6	14		12,8	+0,13 0	14,25	M14X1,5	15,5	ATSTHM-8	11,5	4,75
	ATSKNHML8X1,0			316,4		10,0		- 0,025						
ATSKNHM10X1,5		M10X1,5	M16X1,5	470,2	16		14,8	+0,13 0	16,25	M16X1,5	17,5	ATSTHM-10	13,5	4,75
	ATSKNHML10X1,5			441,4		10,0		- 0,025						
ATSKNHM10X1,25		M10X1,25	M16X1,5	470,2	16		14,8	+0,13 0	16,25	M16X1,5	17,5	ATSTHM-10	13,5	4,75
	ATSKNHML10X1,25			441,4		10,0		- 0,025						
ATSKNHM12X1,75		M12X1,75	M18X1,5	608,5	18		16,8	+0,13 0	18,25	M18X1,5	19,5	ATSTHM-12	15,5	4,75
	ATSKNHML12X1,75			561,8		10,7		- 0,025						
ATSKNHM12X1,25		M12X1,25	M18X1,5	608,5	18		16,8	+0,13 0	18,25	M18X1,5	19,5	ATSTHM-12	15,5	4,75
	ATSKNHML12X1,25			561,8		10,7		- 0,025						

ATSKNHM14X2,0		M14X2,0	M20X1,5	770,5	20		18,75	+0,130	20,25	M20X1,5	22,5	**ATSTHM-14**	17,50	4,75
	ATSKNHML14X2,0			724,4		12,4		-0,025						
ATSKNHM14X1,5		M14X1,5	M20X1,5	770,5	20		18,75	+0,130	20,25	M20X1,5	22,5	**ATSTHM-14**	17,50	4,75
	ATSKNHML14X1,5			724,4		12,4		-0,025						
ATSKNHM16X2,0		M16X2,0	M22X1,5	896,8	22		20,50	+0,130	22,25	M22X1,5	24,5	**ATSTHM-16**	17,75	4,75
	ATSKNHML16X2,0			855,2		12,4		-0,025						
ATSKNHM16X1,5		M16X1,5	M22X1,5	896,8	22		20,50	+0,130	22,25	M22X1,5	24,5	**ATSTHM-16**	17,75	4,75
	ATSKNHML16X1,5			855,2		12,4		-0,025						
ATSKNHM18X1,5		M18X1,5	M24X1,5	1084,4	24		22,50	+0,130	24,25	M24X1,5	26,5	**ATSTHM-18**	19,75	4,75
	ATSKNHML18X1,5			1051,5		16,8		-0,025						
ATSKNHM20X2,5		M20X2,5	M30X2.0	1774,3	30		28,00	+0,130	30,25	M30X2,0	34,5	**ATSTHM-20**	25,75	6,35
	ATSKNHML20X2,5			1736,4		17,5		-0,025						
ATSKNHM20X1,5		M20X1,5	M30X2.0	1774,3	30		28,00	+0,130	30,25	M30X2,0	34,5	**ATSTHM-20**	25,75	6,35
	ATSKNHML20X1,5			1736,4		17,5		-0,025						
ATSKNHM22X1,5		M22X1,5	M32X2.0	2045,9	32		30,00	+0,130	32,25	M32X2,0	36,5	**ATSTHM-22**	27,75	6,35
	ATSKNHML22X1,5			2014,7		18,3		-0,025						
ATSKNHM24X3,0		M24X3,0	M33X2.0	2189,4	33		31,00	+0,130	33,25	M33X2,0	37,5	**ATSTHM-24**	28,75	6,35
	ATSKNHML24X3,0			2161,9		19,0		-0,025						
ATSKNHM24X2,0		M24X2,0	M33X2.0	2189,4	33		31,00	+0,130	33,25	M33X2,0	37,5	**ATSTHM-24**	28,75	6,35
	ATSKNHML24X2,0			2161,9		19,0		-0,025						

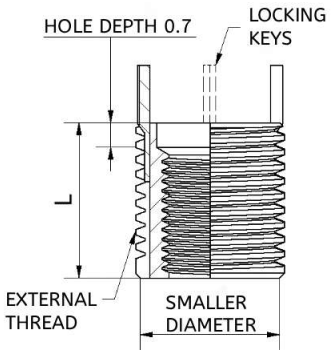
Threaded insert series ATSKNC

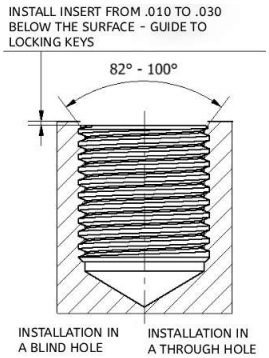


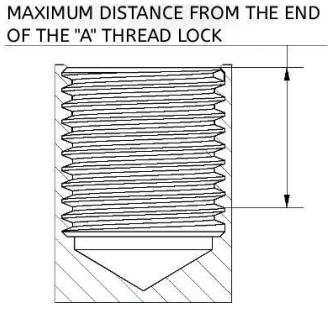


Code		Dimensions					Installation						Removal	
Standard	Clinching	Ø Internal thread	Ø External thread	Anchor	L	T	Ø Pre-drill tapping		Ø Countersunk +,010/-,000	Thread		Utensile Posa Cod.	Punta	
										Measure UNF-2B	Depth Min.		Ø	Profondità
ATSKNC0080J		0-80 UNJF-3B	6-40 UNF-3A	.0132	.10	.085	.120	+.003 -.001	.140	6-40	.130	ATSTKNC008	#38 (.101)	1/16
ATSKNCC0256J	ATSKNCCL0256J	2-56 UNJC-3B	6-40 UNF-3A	.0132	.10	.085	.120	+.003 -.001	.140	6-40	.130	ATSTKNCCL02	#38 (.101)	1/16
ATSKNCA0256J	ATSKNCAL0256J	2-56 UNJC-3B	8-32 UNF-3A	.0157	.12	.090	.134	+.003 -.001	.166	8-32 UNC-2B	.140	ATSTKNC02	#33 (.113)	1/16
ATSKNCA0440J	ATSKNCAL0440J	4-40 UNJC-3B	10-32 UNF-2A	.0302	.17	.125	.161	+.003 -.001	.194	10-32	.160	ATSTKNC04	#29 (.136)	3/32
ATSKNC0632J	ATSKNCL0632J	6-32 UNJC-3B	12-28 UNF-2A	.0329	.17	.125	.187	+.003 -.001	.220	12-28	.160	ATSTKNC06	#21 (.159)	3/32
ATSKNCA0832J	ATSKNCAL0832J	8-32 UNJC-3B	**1/4-28 UNF-2A	.0669	.22	.175	.228	+.003 -.001	.255	1/4-28	.210	ATSTKNC08	#8 (.199)	1/8

Threaded inserts series ATSKN

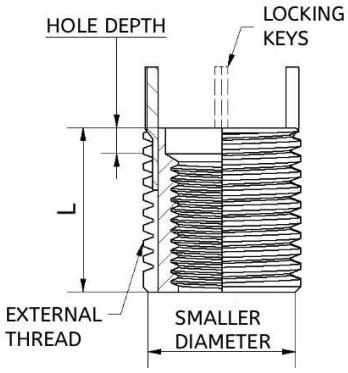


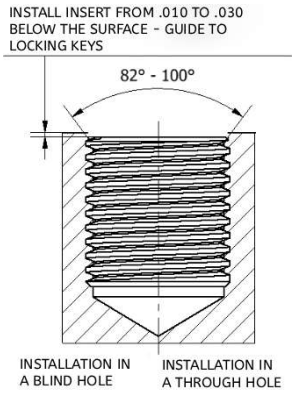


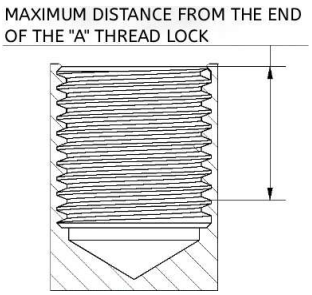


Code		Dimensions					Installation					Removal	
Standard	Clinching	Ø Internal thread 3B	Ø External thread 2A	Anchor	L	T	Ø Pre-drill tapping	Ø Countersunk +,010/-,000	Thread		Installation tool Cod.	Tip	
									Measure UNF-2B	Depth Min.		Ø	Depth
ATSKN1024J		10-24	5/16-18	.1517	.31		.272	.323	5/16-18	.37	ATSTD1024L	7/32	5/32
	ATSKNL1024J			.0945		.31							
ATSKN1032J		10-32		.1517							ATSTD1032OL		
	ATSKNL1032J			.0945		.31							
ATSKN420J		1/4-20	3/8-16	.2371	.37		.332	.385	3/8-16	.43	ATSTD420L	9/32	3/16
	ATSKNL420J			.1726		.36							
ATSKN428J		1/4-28		.2371							ATSTD428L		
	ATSKNL428J			.1726		.33							
ATSKN518J		5/16-18	7/16-14	.3049	.43		.397	.447	7/16-14	.50	ATSTD518L	11/32	
	ATSKNL518J			.2321		.37							
ATSKN524J		5/16-24		.3049							ATSTD524L		
	ATSKNL524J			.2321		.34							
ATSKN616J		3/8-16	1/2-13	.4299	.50		.453	.510	1/2-13	.56	ATSTD616L	13/32	
	ATSKNL616J			.3366		.40							
ATSKN624J		3/8-24		.4299							ATSTD624L		
	ATSKNL624J			.3366		.36							
ATSKN714J		7/16-14	9/16-12	.5665	.56		.516	.572	9/16-12	.62	ATSTD714L	15/32	
	ATSKNL714J			.4606		.45							
ATSKN720J		7/16-20		.5665							ATSTD720L		
	ATSKNL720J			.4606		.41							
ATSKN813J		1/2-13	5/8-11	.7175	.62		.578	.635	5/8-11	.68	ATSTD813L	17/32	
	ATSKNL813J			.5906		.47							
ATSKN820J		1/2-20		.7175							ATSTD820L		
	ATSKNL820J			.5906		.42							

Threaded inserts series ATSKNH



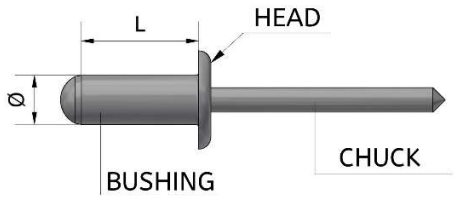




Code		Dimensions						Installation					Removal	
Standard	Clinching	Ø Internal thread 3B	Ø External thread 2A	Anchor	L	C depth hole	A	Ø Pre-drill tapping	Ø Countersunk +,010/-,000	Thread		Installation tool Cod.	Tip	
										Measure UNF-2B	Prof. Min.		Ø	Depth
ATSKNH0832J		8-32	5/16-18	.1517	.31	.40		.272	.323	5/16-18	.37	ATSTHD0832L	7/32	1/8
	ATSKNHL0832J			.0945		.70	.29							
ATSKNH1024J		10-24	3/8-16	.1901				.332	.385	3/8-16		ATSTHD1024L	9/32	
	ATSKNHL1024J			.1156			.31							
ATSKNH1032J		10-32		.1901								ATSTHD1032L		
	ATSKNHL1032J			.1156			.31							
ATSKNH420J		1/4-20	7/16-14	.2842	.37			.397	.447	7/16-14	.43	ATSTHD420L	11/32	3/16
	ATSKNHL420J			.1970			.36							
ATSKNH428J		1/4-28		.2842								ATSTHD428L		
	ATSKNHL428J			.1970			.33							
ATSKNH518J		5/16-18	1/2-13	.3588	.43			.453	.510	1/2-13	.50	ATSTHD518L	13/32	
	ATSKNHL518J			.2608			.37							
ATSKNH524J		5/16-24		.3588								ATSTHD524L		
	ATSKNHL524J			.2608			.34							
ATSKNH616J		3/8-16	9/16-12	.4975	.50			.516	.572	9/16-12	.56	ATSTHD616L	15/32	
	ATSKNHL616J			.3843			.41							
ATSKNH624J		3/8-24		.4975								ATSTHD624L		
	ATSKNHL624J			.3843			.37							

ATSKNH714J		7/16-14	5/8-11	.7172	.62	.10		.578	.635	5/8-11	.68	**ATSTHD714L**	17/32	
	ATSKNHL714J			.5831			.45							
ATSKNH720J		7/16-20		.7172								**ATSTHD720L**		
	ATSKNHL720J			.5831			.42							
ATSKNH813J		1/2-13	11/16-11 NS	.8884	.68			.641	.700	11/16-11 NS	.75	**ATSTHD813L**	19/32	
	ATSKNHL813J			.7368			.47							
ATSKNH820J		1/2-20		.8884								**ATSTHD820L**		
	ATSKNHL820J			.7368			.42							
ATSKNH912J		9/16-12	13/16-16	1.2493	.81			.766	.822	13/16-16 UN	.94	**ATSTHD912L**	23/32	
	ATSKNHL912J			1.0247			.54							
ATSKNH918J		9/16-18		1.2493								**ATSTHD918L**		
	ATSKNHL918J			1.0247			.48							
ATSKNH1011J		5/8-11	7/8-14	1.4866	.87			.828	.885	7/8-14 UNF	1.00	**ATSTHD1011L**	25/32	
	ATSKNHL1011J			1.2415			.57							
ATSKNH1018J		5/8-18		1.4866								**ATSTHD1018L**		
	ATSKNHL1018J			1.2415			.49							
ATSKNH1210J		3/4-10	1-1/8-12	2.4901	1.12			1.062	1.145	1-1/8-12 UNF	1.31	**ATSTHD1210L**	31/32	5/16
	ATSKNHL1210J			2.4478	1.25		.75				1.44			
ATSKNH1216J		3/4-16		2.4901	1.12						1.31	**ATSTHD1216L**		
	ATSKNHL1216J			2.4478	1.25		.68				1.44			
ATSKNH1409J		7/8-9	1-1/4-12	3.1370	1.25			1.187	1.270	1-1/4-12 UNF	1.44	**ATSTHD1409L**	1-3/32	
	ATSKNHL1409J			3.0775	1.37		.77				1.56			
ATSKNH1414J		7/8-14		3.1370	1.25						1.44	**ATSTHD1414L**		
	ATSKNHL1414J			3.0775	1.37		.69				1.56			
ATSKNH1608J		1-08	1-3/8-12	3.8381	1.37			1.312	1.395	1-3/8-12 UNF	1.56	**ATSTHD1608L**	1-7/32	
	ATSKNHL1608J			3.7929	1.50		.86				1.68			
ATSKNH1612J		1-12		3.8381	1.37						1.56	**ATSTHD1612L**		
	ATSKNHL1612J			3.7929	1.50		.78				1.68			

STANDARD BLIND RIVETS



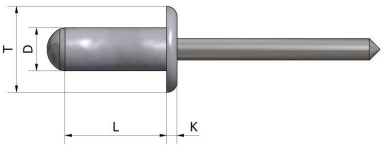
- **Selecting the hole diameter = Ø bushing + 0,1**
  EXAMPLE
  Ø 4,8 + 0,1= 4, 9 mm.
- **Selecting the rivet length = thickness to be fastened + Ø bushing**
  EXAMPLE
  4 mm. + Ø 6= 10 mm.

STANDARD BLIND RIVETS

ROUND HEAD
ALUMINIUM/STEEL

Bushing
Aluminium

Chuck
Galvanized steel



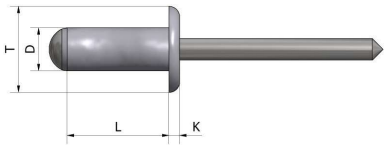
CODE	D	L	T	K	Ø HOLE	Thickness clamping
ATSRI2,4X5ALLACC		5				0,5 – 2,5
ATSRI2,4X6ALLACC		6				2 - 4
ATSRI2,4X8ALLACC	2,4	8	5	1	2,5 – 2,6	4 – 6
ATSRI2,4X10ALLACC		10				6 – 8
ATSRI2,4X12ALLACC		12				8 – 10
ATSRI3X5ALLACC		5				0,5 – 2
ATSRI3X6ALLACC		6				1 – 3
ATSRI3X8ALLACC		8				3 – 5
ATSRI3X10ALLACC		10				5 – 7
ATSRI3X12ALLACC	3,0	12	6,3	1,3	3,1 – 3,2	7 – 9
ATSRI3X14ALLACC		14				9 – 11
ATSRI3X16ALLACC		16				11 – 13
ATSRI3X18ALLACC		18				13 – 15
ATSRI3X20ALLACC		20				15 – 17
ATSRI3,2X6ALLACC		6				1 – 3
ATSRI3,2X8ALLACC		8				3 – 5
ATSRI3,2X10ALLACC		10				5 – 7
ATSRI3,2X12ALLACC		12				7 – 9
ATSRI3,2X14ALLACC	3,2	14	6,7	1,3	3,3 – 3,4	9 – 11
ATSRI3,2X16ALLACC		16				11 – 13
ATSRI3,2X18ALLACC		18				13 – 15
ATSRI3,2X20ALLACC		20				14 – 17
ATSRI3,2X25ALLACC		25				17 – 22
ATSRI3,4X5ALLACC		5				0,5 – 2
ATSRI3,4X7ALLACC		7				2 – 4
ATSRI3,4X9ALLACC		9				4 – 6
ATSRI3,4X11ALLACC	3,4	11	7,1	1,4	3,5 – 3,6	6 – 8
ATSRI3,4X14ALLACC		14				8 – 11
ATSRI3,4X16ALLACC		16				11 – 13
ATSRI3,4X18ALLACC		18				13 – 15

All dimensions are expressed in mm

ROUND HEAD
ALUMINIUM/STEEL

Bushing
Aluminium

Chuck
Galvanized steel



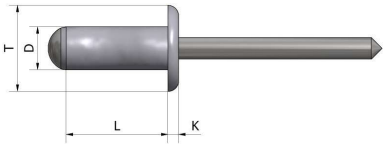
CODE	D	L	T	K	Ø HOLE	Thickness clamping
ATSRI4X5ALLACC		5				0,5 – 1,5
ATSRI4X6ALLACC		6				1 – 3
ATSRI4X8ALLACC		8				3 – 5
ATSRI4X10ALLACC		10				5 – 6,5
ATSRI4X12ALLACC		12				6,5 – 8,5
ATSRI4X14ALLACC		14				8,5 – 10,5
ATSRI4X16ALLACC		16				10,5 – 12,5
ATSRI4X18ALLACC	4,0	18	8,4	1,7	4,1 – 4,2	12,5 – 14,5
ATSRI4X20ALLACC		20				12,5 – 16,5
ATSRI4X22ALLACC		22				16,5 – 18,5
ATSRI4X24ALLACC		24				18,5 – 20,5
ATSRI4X26ALLACC		26				20,5 – 22,5
ATSRI4X28ALLACC		28				22 – 24,5
ATSRI4X30ALLACC		30				24 - 26,5
ATSRI4X35ALLACC		35				26,5 – 31,5
ATSRI4,8X6ALLACC		6				1 – 1,5
ATSRI4,8X8ALLACC		8				1,5 – 3,5
ATSRI4,8X10ALLACC		10				3,5 – 5,5
ATSRI4,8X12ALLACC		12				5,5 – 7,5
ATSRI4,8X14ALLACC		14				7,5 – 9
ATSRI4,8X16ALLACC		16				9 – 11
ATSRI4,8X18ALLACC		18				11 – 13
ATSRI4,8X20ALLACC		20				13 – 15
ATSRI4,8X22ALLACC	4,8	22	10,1	2	4,9 - 5,0	15 – 17
ATSRI4,8X24ALLACC		24				17 – 19
ATSRI4,8X26ALLACC		26				19 – 21
ATSRI4,8X28ALLACC		28				20 – 23
ATSRI4,8X30ALLACC		30				22 – 25
ATSRI4,8X35ALLACC		35				25 – 30
ATSRI4,8X40ALLACC		40				30 – 35
ATSRI4,8X45ALLACC		45				35 – 40
ATSRI4,8X50ALLACC		50				40 – 45

Tutte le dimensioni sono espresse in mm

ROUND HEAD
ALUMINIUM/STEEL

Bushing
Aluminium

Chuck
Galvanized steel



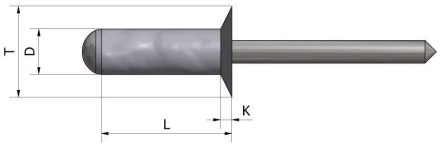
ATSRI6X8ALLACC		8				2 – 3
ATSRI6X10ALLACC		10				2,5 – 5
ATSRI6X12ALLACC		12				4,5 – 7
ATSRI6X14ALLACC		14				6 – 9
ATSRI6X18ALLACC		18				9,5 – 13
ATSRI6X20ALLACC	6,0	20	12,6	2,5	6,1 – 6,2	11 – 14
ATSRI6X22ALLACC		22				13 – 17
ATSRI6X26ALLACC		26				16,5 – 21
ATSRI6X30ALLACC		30				20,5 – 25
ATSRI6X35ALLACC		35				25 – 30
ATSRI6X40ALLACC		40				30 – 35
ATSRI6,4X10ALLACC		10				2 – 5
ATSRI6,4X12ALLACC		12				4,5 – 7
ATSRI6,4X16ALLACC		16				6,5 – 10
ATSRI6,4X18ALLACC		18				9,5 – 13
ATSRI6,4X22ALLACC	6,4	22	13,4	2,7	6,5 - 6,6	12,5 – 17
ATSRI6,4X26ALLACC		26				16,5 – 21
ATSRI6,4X30ALLACC		30				20 – 25
ATSRI6,4X35ALLACC		35				25 – 30
ATSRI6,4X40ALLACC		40				30 – 35

Alle dimensions are expressed in mm

COUNTERSUNK HEAD
ALUMINIUM/STEEL

Bushing
Aluminium

Chuck
Galvanized steel



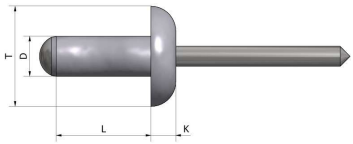
CODE	D	L	T	K	Ø HOLE	Thickness clamping
ATSRI2,4X6TSALLACC		6				2 – 4
ATSRI2,4X8TSALLACC	2,4	8	5	1	2,5 – 2,6	4 – 6
ATSRI2,4X10TSALLACC		10				6 – 8
ATSRI3X6TSALLACC		6				1,5 – 3,5
ATSRI3X7TSALLACC		7				2 – 4
ATSRI3X8TSALLACC		8				3,5 – 5,5
ATSRI3X9TSALLACC	3,0	9	6,3	1,3	3,1 – 3,2	4 – 6
ATSRI3X11TSALLACC		11				6 – 8
ATSRI3X12TSALLACC		12				7 – 9
ATSRI3X14TSALLACC		14				9 - 12
ATSRI3,2X6TSALLACC		6				1,5 – 3,5
ATSRI3,2X7TSALLACC		7				2 – 4
ATSRI3,2X8TSALLACC		8				3 – 5
ATSRI3,2X9TSALLACC		9				4 – 6
ATSRI3,2X10TSALLACC	3,2	10	6,7	1,3	3,3 – 3,4	5 – 7
ATSRI3,2X11TSALLACC		11				6 – 8
ATSRI3,2X12TSALLACC		12				7 - 9
ATSRI3,2X14TSALLACC		14				8 – 11
ATSRI3,2X16TSALLACC		16				10,5 - 13
ATSRI4X6TSALLACC		6				1,5 – 3
ATSRI4X7TSALLACC		7				2,5 – 4
ATSRI4X9TSALLACC		9				3,5 – 6
ATSRI4X10TSALLACC		10				5 – 7
ATSRI4X12TSALLACC	4,0	12	8,4	1,7	4,1 – 4,2	7 – 9
ATSRI4X14TSALLACC		14				8,5 – 11
ATSRI4X16TSALLACC		16				10,5 – 13
ATSRI4X18TSALLACC		18				12,5 – 15
ATSRI4X20TSALLACC		20				13 - 17
ATSRI4,8X7TSALLACC		7				2,5 – 4
ATSRI4,8X8TSALLACC		8				3 – 4
ATSRI4,8X10TSALLACC		10				4 – 6
ATSRI4,8X12TSALLACC		12				6 – 8
ATSRI4,8X14TSALLACC		14				7,5 – 10
ATSRI4,8X16TSALLACC	4,8	16	10,1	2	4,9 - 5	9,5 – 12
ATSRI4,8X18TSALLACC		18				11,5 – 14
ATSRI4,8X20TSALLACC		20				12 – 16
ATSRI4,8X26TSALLACC		26				16 – 22
ATSRI4,8X30TSALLACC		30				22 – 26
ATSRI4,8X35TSALLACC		35				25 - 30

All dimensions are expressed in mm

LARGE HEAD
ALUMINIUM/STEEL

Bushing
Aluminium

Chuck
Galvanized steel



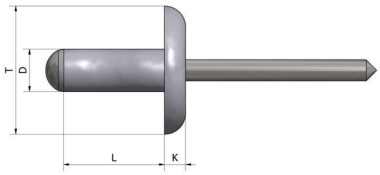
CODE	D	L	T	K	Ø HOLE	Thickness clamping
ATSRI3,2X6ALLACCTL	3,2	6	8,8 - 10	2	3,3 – 3,4	1 – 3
ATSRI3,2X8ALLACCTL		8				3 – 5
ATSRI3,2X10ALLACCTL		10				5 – 7
ATSRI3,2X12ALLACCTL		12				7 – 9
ATSRI3,2X14ALLACCTL		14				9 – 11
ATSRI3,2X16ALLACCTL		16				11 – 13
ATSRI4X6ALLACCTL	4,0	6	8,8 – 10,5	2,5	4,1	0,5 – 3
ATSRI4X8ALLACCTL		8				3 – 5
ATSRI4X10ALLACCTL		10				5 – 6,5
ATSRI4X12ALLACCTL		12				6,5 – 8,5
ATSRI4X14ALLACCTL		14				8,5 – 10,5
ATSRI4X16ALLACCTL		16				10,5 – 12,5
ATSRI4X20ALLACCTL		20				12,5 – 16,5
ATSRI4,8X8ALLACCTL	4,8	8	13 - 14	2,5	4,9 - 5	2,5 – 4
ATSRI4,8X10ALLACCTL		10				4 – 6
ATSRI4,8X12ALLACCTL		12				6 – 8
ATSRI4,8X14ALLACCTL		14				7,5 – 10
ATSRI4,8X16ALLACCTL		16				9,5 – 12
ATSRI4,8X18ALLACCTL		18				11,5 – 14
ATSRI4,8X20ALLACCTL		20				13,5 – 16
ATSRI4,8X24ALLACCTL		24				16 – 20
ATSRI4,8X26ALLACCTL		26				19,5 – 22
ATSRI4,8X30ALLACCTL		30				22 – 25
ATSRI4,8X35ALLACCTL		35				25 – 30
ARSRI4,8X40ALLACCTL		40				30 – 35

All dimensions are expressed in mm

EXTRA-LARGE HEAD
ALUMINIUM/STEEL

Bushing
Aluminium

Chuck
Galvanized steel



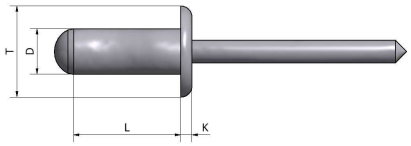
CODE	D	L	T	K	Ø HOLE	Thickness clamping
ATSRI4X8ALLACCTXL	4,0	8	11 - 12	2,5	4,1 – 4,2	3 – 5
ATSRI4X10ALLACCTXL		10				5 – 6,5
ATSRI4X12ALLACCTXL		12				6,5 – 8,5
ATSRI4X14ALLACCTXL		14				8,5 – 10,5
ATSRI4X16ALLACCTXL		16				10,5 – 12,5
ATSRI4X20ALLACCTXL		20				12,5 – 16,5
ATSRI4,8X8ALLACCTXL	4,8	8	15 - 16	2,5	4,9 - 5,0	2,5 – 4
ATSRI4,8X10ALLACCTXL		10				4 – 6
ATSRI4,8X12ALLACCTXL		12				6 – 8
ATSRI4,8X14ALLACCTXL		14				7,5 – 10
ATSRI4,8X16ALLACCTXL		16				9,5 – 12
ATSRI4,8X18ALLACCTXL		18				11,5 – 14
ATSRI4,8X20ALLACCTXL		20				13,5 – 16
ATSRI4,8X24ALLACCTXL		24				16 – 20
ATSRI4,8X26ALLACCTXL		26				19,5 – 22
ATSRI4,8X30ALLACCTXL		30				22 – 25
ATSRI4,8X35ALLACCTXL		35				25 – 30
ARSRI4,8X40ALLACCTXL		40				30 – 35

All dimensions are expressed in mm

ROUND HEAD
ALUMINIUM/ALUMINIUM

Bushing
Aluminium

Chuck
Aluminium



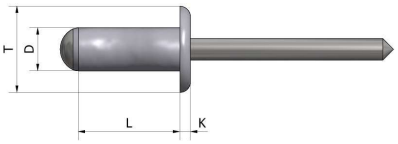
CODE	D	L	T	K	Ø HOLE	Thickness clamping
ATSRI3,2X6ALLALL	3,2	6	6,7	1,3	3,3 – 3,4	1,5 – 3,5
ATSRI3,2X8ALLALL		8				3,5 – 5,5
ATSRI3,2X10ALLALL		10				5,5 – 7
ATSRI3,2X12ALLALL		12				7 – 8,5
ATSRI3,2X14ALLALL		14				8,5 – 10,5
ATSRI3,2X16ALLALL		16				10,5 – 13
ATSRI4X6ALLALL	4	6	8,4	1,7	4,1 – 4,2	1,5 – 3,5
ATSRI4X8ALLALL		8				3 – 5
ATSRI4X10ALLALL		10				5 – 6,5
ATSRI4X12ALLALL		12				6,5 – 8,5
ATSRI4X14ALLALL		14				8,5 – 10,5
ATSRI4X16ALLALL		16				10,5 – 12,5
ATSRI4X18ALLALL		18				12,5 – 14,5
ATSRI4X20ALLALL		20				14,5 – 16,5
ATSRI4,8X8ALLALL	4,8	8	10,1	2	4,9 - 5	3 – 4,5
ATSRI4,8X10ALLALL		10				4,5 – 6
ATSRI4,8X12ALLALL		12				6 – 8
ATSRI4,8X14ALLALL		14				8 – 10
ATSRI4,8X16ALLALL		16				10 – 12
ATSRI4,8X18ALLALL		18				12 – 14
ATSRI4,8X20ALLALL		20				14 – 16
ATSRI4,8X25ALLALL		25				15 – 20
ATSRI4,8X30ALLALL		30				20 – 25

All dimensions are expressed in mm

ROUND HEAD
ALUMINIUM/INOX

Bushing
Aluminium

Chuck
Stainless steel A2



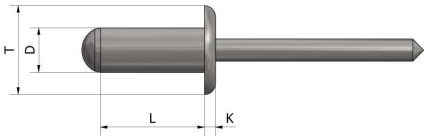
CODE	D	L	T	K	Ø HOLE	Thickness clamping
ATS3X6ALLINOX	3,0	6	6,3	1,3	3,1 – 3,2	1,5 – 3,5
ATS3X8ALLINOX		8				3,5 – 5
ATS3X10ALLINOX		10				5 – 7
ATS3X12ALLINOX		12				7 – 9
ATS3X14ALLINOX		14				9 – 11
ATSRI3,2X6ALLINOX	3,2	6	6,7	1,3	3,3 – 3,4	1,5 – 3,5
ATSRI3,2X8ALLINOX		8				3,5 – 5,5
ATSRI3,2X10ALLINOX		10				5,5 – 7
ATSRI3,2X12ALLINOX		12				7 – 9
ATSRI4X6ALLINOX	4,0	6	8,4	1,7	4,1 – 4,2	1,5 – 3
ATSRI4X8ALLINOX		8				3 – 5
ATSRI4X10ALLINOX		10				5 – 6,5
ATSRI4X12ALLINOX		12				6,5 – 8,5
ATSRI4X14ALLINOX		14				8,5 – 10,5
ATSRI4X16ALLINOX		16				10,5 – 12,5
ATSRI4X20ALLINOX		20				12,5 – 16,5
ATSRI4,8X6ALLINOX	4,8	6	10,1	2	4,9 - 5	0,5 – 2,5
ATSRI4,8X8ALLINOX		8				2,5 – 4
ATSRI4,8X10ALLINOX		10				4 – 6
ATSRI4,8X12ALLINOX		12				6 – 8
ATSRI4,8X14ALLINOX		14				8 – 10
ATSRI4,8X16ALLINOX		16				10 – 12
ATSRI4,8X18ALLINOX		18				12 – 14
ATSRI4,8X20ALLINOX		20				14 – 16
ATSRI4,8X26ALLINOX		26				16 – 22
ATSRI4,8X30ALLINOX		30				22 – 26

All dimensions are expressed in mm

ROUND HEAD
STEEL/STEEL

Bushing
Galvanized steel

Chuck
Galvanized steel



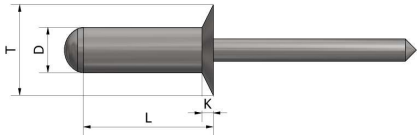
CODE	D	L	T	K	Ø HOLE	Thickness clamping
ATSRI3X6ACCACC	3,0	6	6,3	1,3	3,1 – 3,2	0,5 – 3
ATSRI3X8ACCACC		8				3 – 5
ATSRI3X10ACCACC		10				5 – 7
ATSRI3X12ACCACC		12				7 – 9
ATSRI3X14ACCACC		14				9 – 11
ATSRI3X16ACCACC		16				11 – 13
ATSRI3X20ACCACC		20				15 - 17
ATSRI3,2X6ACCACC	3,2	6	6,7	1,3	3,3 – 3,4	0,5 – 3
ATSRI3,2X8ACCACC		8				3 – 5
ATSRI3,2X10ACCACC		10				5 – 6,5
ATSRI3,2X12ACCACC		12				6,5 – 9
ATSRI3,2X14ACCACC		14				9 – 11
ATSRI3,2X16ACCACC		16				9 – 12
ATSRI4X6ACCACC	4,0	6	8,4	1,7	4,1 – 4,2	0,5 – 2,5
ATSRI4X8ACCACC		8				2,5 – 5
ATSRI4X10ACCACC		10				5 – 6,5
ATSRI4X12ACCACC		12				6,8 – 8,5
ATSRI4X14ACCACC		14				8,5 – 10,5
ATSRI4X16ACCACC		16				10,5 – 12,5
ATSRI4X18ACCACC		18				12,5 – 14,5
ATSRI4X20ACCACC		20				14 – 16,5
ATSRI4X24ACCACC		24				16 – 20,5
ATSRI4X30ACCACC		30				20 – 25
ATSRI4,8X6ACCACC	4,8	6	10,1	2	4,9 - 5	0,5 – 2
ATSRI4,8X8ACCACC		8				1,6 – 4
ATSRI4,8X10ACCACC		10				4 – 6
ATSRI4,8X12ACCACC		12				6 – 8
ATSRI4,8X14ACCACC		14				8 – 9,5
ATSRI4,8X16ACCACC		16				9,5 – 12
ATSRI4,8X18ACCACC		18				11,5 – 14
ATSRI4,8X20ACCACC		20				14 – 16
ATSRI4,8X24ACCACC		24				16 – 20
ATSRI4,8X26ACCACC		26				17,5 – 22
ATSRI4,8X30ACCACC		30				20 – 25
ATSRI6X12ACCACC	6,0	12	12,6	1,5	6,1	3,5 – 7
ATSRI6X15ACCACC		15				6,5 – 10
ATSRI6X18ACCACC		18				10 – 13
ATSRI6X22ACCACC		22				12,5 – 17
ATSRI6X26ACCACC		26				16,5 – 21
ATSRI6X30ACCACC		30				20,5 – 25
ATSRI6,4X10ACCACC	6,4	10	13,4	2,7	6,5 – 6,6	2 – 4
ATSRI6,4X12ACCACC		12				3,5 – 7
ATSRI6,4X15ACCACC		15				6,5 – 10
ATSRI6,4X18ACCACC		18				9,5 – 13
ATSRI6,4X22ACCACC		22				13 – 16
ATSRI6,4X26ACCACC		26				16,5 – 21
ATSRI6,4X30ACCACC		30				16 – 24

All dimensions are expressed in mm

COUNTERSUNK HEAD
STEEL/STEEL

Bushing
Galvanized steel

Chuck
Galvanized steel



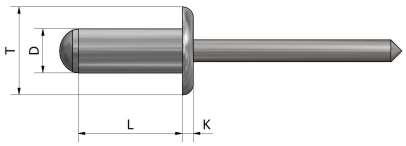
CODE	D	L	T	K	Ø HOLE	Thickness clamping
ATSRI3X6TSACCACC	3,0	6	6,3	1,3	3,1 – 3,2	1,5 – 3
ATSRI3X8TSACCACC		8				3 – 5
ATSRI3X10TSACCACC		10				5 – 7
ATSRI3X12ATSCCACC		12				7 – 9
ATSRI3,2X6TSACCACC	3,2	6	6,7	1,3	3,3 – 3,4	1,5 – 3
ATSRI3,2X8TSACCACC		8				3 – 5
ATSRI3,2X10TSACCACC		10				5 – 7
ATSRI3,2X12TSACCACC		12				7 – 9
ATSRI3,2X14TSACCACC		14				8 – 11
ATSRI4X6TSACCACC	4,0	6	8,4	1,7	4,1 – 4,2	1,5 – 2,5
ATSRI4X8TSACCACC		8				2,5 – 4,5
ATSRI4X10TSACCACC		10				4,5 – 6,5
ATSRI4X12TSACCACC		12				6,5 – 8,5
ATSRI4X14TSACCACC		14				8,5 – 10,5
ATSRI4X16TSACCACC		16				10,5 – 12,5
ATSRI4,8X8TSACCACC	4,8	8	10,1	2	4,9 - 5	1,5 – 4
ATSRI4,8X10TSACCACC		10				4 – 6
ATSRI4,8X12TSACCACC		12				5,5 – 7,5
ATSRI4,8X14TSACCACC		14				7 – 9
ATSRI4,8X16TSACCACC		16				9 – 11,5
ATSRI4,8X20TSACCACC		20				11 – 15
ATSRI4,8X22TSACCACC		22				15 – 17,5

All dimensions are expressed in mm

ROUND HEAD
COPPER-NICKEL ALLOY/INOX

Bushing
Copper-nickel alloy

Chuck
Stainless steel A2



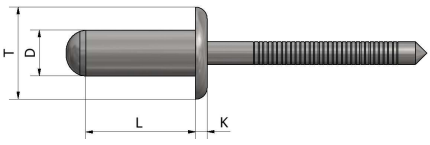
CODE	D	L	T	K	Ø HOLE	Thickness clamping
ATSRI3,2X6CUNIINOX	3,2	6	6,7	1,3	3,3 – 3,4	0,5 – 3
ATSRI3,2X7CUNIINOX		7				3 – 4
ATSRI3,2X9CUNIINOX		9				4 – 6
ATSRI3,2X11CUNIINOX		11				6 – 8
ATSRI3,2X12CUNIINOX		12				8 – 9
ATSRI4X7CUNIINOX	4,0	7	8,4	1,7	4,1 – 4,2	2 – 3,5
ATSRI4X9CUNIINOX		9				3 – 5,5
ATSRI4X11CUNIINOX		11				5 – 7,5
ATSRI4X12CUNIINOX		12				7 – 8,5
ATSRI4X14CUNIINOX		14				8 – 10,5
ATSRI4X16CUNIINOX		16				10 – 12,5
ATSRI4X18CUNIINOX		18				12 – 14,5
ATSRI4,8X7CUNIINOX	4,8	7	10,1	2	4,9 - 5	0,5 – 3
ATSRI4,8X9CUNIINOX		9				2,5 – 5
ATSRI4,8X11CUNIINOX		11				4,5 – 7
ATSRI4,8X12CUNIINOX		12				5,5 – 8
ATSRI4,8X14CUNIINOX		14				7,5 – 10
ATSRI4,8X16CUNIINOX		16				9,5 – 12
ATSRI4,8X18CUNIINOX		18				11,5 – 14
ATSRI4,8X20CUNIINOX		20				13,5 – 16

All dimensions are expressed in mm

ROUND HEAD
INOX/INOX

Bushing
Stainless steel A2

Chuck
Stainless steel A2



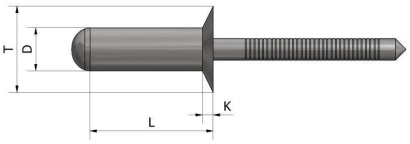
CODE	D	L	T	K	Ø HOLE	Thickness clamping
ATS3X6INOX		6				1,5 – 2,5
ATS3X8INOX		8				2,5 – 4,5
ATS3X10INOX	3,0	10	6,3	1,3	3,1 – 3,2	4,5 – 6,5
ATS3X12INOX		12				6,5 – 8,5
ATS3X16INOX		16				8,2 – 12,5
ATSRI3,2X6INOX		6				1,5 – 2,5
ATSRI3,2X8INOX		8				2,5 – 4,5
ATSRI3,2X10INOX		10				4,5 – 6,5
ATSRI3,2X12INOX	3,2	12	6,7	1,3	3,3 – 3,4	6,5 – 8,5
ATSRI3,2X14INOX		14				8,5 – 10,5
ATSRI3,2X16INOX		16				10,5 – 12,5
ATSRI3,2X18INOX		18				12 – 14
ATSRI4X6INOX		6				1 – 2
ATSRI4X8INOX		8				2 – 4
ATSRI4X10INOX		10				4 – 6
ATSRI4X12INOX		12				6 – 8
ATSRI4X14INOX	4,0	14	8,4	1,7	4,1 – 4,2	8 – 10
ATSRI4X16INOX		16				10 – 12,5
ATSRI4X18INOX		18				12 – 14
ATSRI4X20INOX		20				14 – 16
ATSRI4X25INOX		25				16 - 21
ATSRI4,8X8INOX		8				1,5 – 3
ATSRI4,8X10INOX		10				3 – 5
ATSRI4,8X12INOX		12				5 – 7
ATSRI4,8X14INOX		14				7 – 9
ATSRI4,8X16INOX		16				9 – 11
ATSRI4,8X18INOX	4,8	18	10,1	2	4,9 - 5	11 - 13
ATSRI4,8X20INOX		20				13 – 15
ATSRI4,8X22INOX		22				15 – 17
ATSRI4,8X25INOX		25				17 – 20
ATSRI4,8X30INOX		30				20 – 25
ATSRI4,8X35INOX		35				25 – 30
ATSRI4,8X40INOX		40				30 – 34
ATSRI6X10INOX		10				2 – 4
ATSRI6X12INOX	6	12	12,6	2,5	6,1 – 6,2	4 – 6
ATSRI6X14INOX		14				6 - 8
ATSRI6,4X12INOX		12				4 – 6
ATSRI6,4X14INOX		14				6 – 8
ATSRI6,4X16INOX	6,4	16	13,4	2,7	6,5 – 6,6	7 - 10
ATSRI6,4X18INOX		18				9 – 13
ATSRI6,4X20INOX		20				13 – 16
ATSRI6,4X25INOX		25				15 – 19

All dimensions are expressed in mm

COUNTERSUNK HEAD
INOX/INOX

Bushing
Stainless steel A2

Chuck
Stainless steel A2



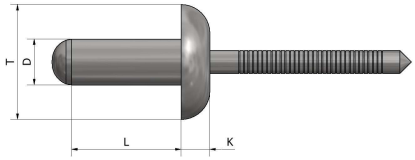
CODE	D	L	T	K	Ø HOLE	Thickness clamping
ATSRI3X6TSINOX	3,0	6	6,3	1,3	3,1 – 3,2	1,5 – 3
ATSRI3X8TSINOX		8				3 – 5
ATSRI3X10TSINOX		10				5 – 6,5
ATSRI3X12TSINOX		12				6,5 – 8,5
ATSRI3,2X6TSINOX	3,2	6	6,7	1,3	3,3 – 3,4	1,5 – 2,5
ATSRI3,2X8TSINOX		8				2,5 – 4,5
ATSRI3,2X10TSINOX		10				4,5 – 6,5
ATSRI3,2X12TSINOX		12				6,5 – 8,5
ATSRI4X8TSINOX	4,0	8	8,4	1,7	4,1 – 4,2	2 – 4
ATSRI4X10TSINOX		10				4 – 6
ATSRI4X12TSINOX		12				6 – 8
ATSRI4X14TSINOX		14				8 - 10
ATSRI4X16TSINOX		16				10 – 12
ATSRI4X18TSINOX		18				12 – 14
ATSRI4X20TSINOX		20				14 - 16
ATSRI4,8X8TSINOX	4,8	8	10,1	2	4,9 - 5	1,5 – 3
ATSRI4,8X10TSINOX		10				3 – 5
ATSRI4,8X12TSINOX		12				5 –7
ATSRI4,8X14TSINOX		14				7 – 9
ATSRI4,8X16TSINOX		16				9 - 11
ATSRI4,8X18TSINOX		18				11 – 13
ATSRI4,8X20TSINOX		20				13 – 15
ATSRI4,8X25TSINOX		25				15 – 17
ATSRI4,8X30TSINOX		30				17 - 19

All dimensions are expressed in mm

LARGE HEAD
INOX/INOX

Bushing
Stainless steel A2

Chuck
Stainless steel A2



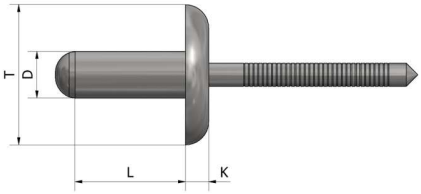
CODE	D	L	T	K	Ø HOLE	Thickness clamping
ATSRI3,2X6INOXTL	3,2	6	9,5	1,3	3,3 – 3,4	1,5 – 2,5
ATSRI3,2X8INOXTL		8				2,5 – 4,5
ATSRI3,2X10INOXTL		10				4,5 – 6,5
ATSRI3,2X12INOXTL		12				6,5 – 8,5
ATSRI3,2X14INOXTL		14				8,5 – 12
ATSRI4X6INOXTL	4,0	6	12	1,7	4,1 – 4,2	1 – 2
ATSRI4X8INOXTL		8				2 – 4
ATSRI4X10INOXTL		10				4 – 6
ATSRI4X12INOXTL		12				6 – 8
ATSRI4X14INOXTL		14				8 - 10
ATSRI4X16INOXTL		16				10 – 12
ATSRI4,8X8INOXTL	4,8	8	14	2	4 - 5	1,5 – 3
ATSRI4,8X10INOXTL		10				3 – 5
ATSRI4,8X12INOXTL		12				5 – 7
ATSRI4,8X14INOXTL		14				7 – 9
ATSRI4,8X16INOXTL		16				9 – 11
ATSRI4,8X18INOXTL		18				11 – 13
ATSRI4,8X20INOXTL		20				13 – 15

All dimensions are expressed in mm

EXTRA-LARGE HEAD
INOX/INOX

Bushing
Stainless steel A2

Mandrino
Stainless steel A2



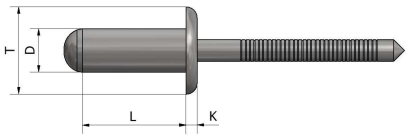
CODE	D	L	T	K	Ø HOLE	Thickness clamping
ATSRI4,8X8INOXTXL	4,8	8	16	2	4,9 - 5	1,5 – 3
ATSRI4,8X10INOXTXL		10				3 – 5
ATSRI4,8X12INOXTXL		12				5 – 7
ATSRI4,8X14INOXTXL		14				7 - 9
ATSRI4,8X16INOXTXL		16				9 – 11
ATSRI4,8X18INOXTXL		18				11 – 13
ATSRI4,8X20INOXTXL		20				13 - 15
ATSRI4,8X22INOXTXL		22				16 – 18
ATSRI4,8X25INOXTXL		25				18 – 20
ATSRI4,8X25INOXTXL		30				20 - 25

All dimensions are expressed in mm

ROUND HEAD
INOX/INOX

Bushing
Stainless steel A4

Chuck
Stainless steel A4



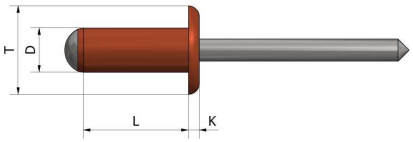
CODE	D	L	T	K	Ø HOLE	Thickness clamping
ATS3X6INOXA4	3,0	6	6,3	1,3	3,1 – 3,2	0,5 – 3
ATS3X8INOXA4		8				3 – 5
ATS3X10INOXA4		10				5 – 6,5
ATS3X12INOXA4		12				6,5 – 8,5
ATS3X14INOXA4		14				8,5 – 10,5
ATS3X16INOXA4		16				10,5 – 12,5
ATSRI3,2X6INOXA4	3,2	6	6,7	1,3	3,3 – 3,4	0,5 – 3
ATSRI3,2X8INOXA4		8				3 – 5
ATSRI3,2X10INOXA4		10				5 – 6,5
ATSRI3,2X12INOXA4		12				6,5 – 8,5
ATSRI3,2X14INOXA4		14				8,5 – 10,5
ATSRI3,2X16INOXA4		16				10,5 – 12,5
ATSRI3,2X18INOXA4		18				12 – 14
ATSRI4X6INOXA4	4,0	6	8,4	1,7	4,1 – 4,2	1 – 2,5
ATSRI4X8INOXA4		8				2,5 – 4,5
ATSRI4X10INOXA4		10				4,5 – 6,5
ATSRI4X12INOXA4		12				6,5 – 8,5
ATSRI4X14INOXA4		14				8,5 – 10
ATSRI4X16INOXA4		16				10 - 12
ATSRI4X18INOXA4		18				12 – 14
ATSRI4X20INOXA4		20				14 – 16
ATSRI4X25INOXA4		25				16 - 21
ATSRI4,8X6INOXA4	4,8	6	10,1	2	4,9 – 5	1,5 – 2
ATSRI4,8X8INOXA4		8				2 – 4
ATSRI4,8X10INOXA4		10				4 – 6
ATSRI4,8X12INOXA4		12				6 – 8
ATSRI4,8X14INOXA4		14				8 – 9,5
ATSRI4,8X16INOXA4		16				8 – 11
ATSRI4,8X18INOXA4		18				11 – 13
ATSRI4,8X20INOXA4		20				13 – 16
ATSRI4,8X25INOXA4		25				16 – 19
ATSRI4,8X30INOXA4		30				20 – 25
ATSRI6X8INOXA4	6	8	12,6	2,5	6,1 – 6,2	0,5 – 2
ATSRI6X10INOXA4		10				2 – 4
ATSRI6X12INOXA4		12				4 – 6
ATSRI6X14INOXA4		14				6 – 8
ATSRI6X16INOXA4		16				8 – 10
ATSRI6X18INOXA4		18				10 – 12
ATSRI6X20INOXA4		20				12 – 14
ATSRI6X22INOXA4		22				14 - 19
ATSRI6,4X10INOXA4	6,4	10	13,4	2,7	6,5 – 6,6	2 – 4
ATSRI6,4X12INOXA4		12				4 – 6
ATSRI6,4X14INOXA4		14				6 – 8
ATSRI6,4X16INOXA4		16				8 – 10
ATSRI6,4X18INOXA4		18				9 – 13
ATSRI6,4X20INOXA4		20				13 – 16
ATSRI6,4X22INOXA4		22				14 – 17
ATSRI6,4X25INOXA4		25				15 – 19

All dimensions are expressed in mm

ROUND HEAD
COPPER/STEEL

Bushing
Copper

Chuck
Galvanized steel



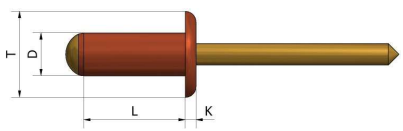
CODE	D	L	T	K	Ø HOLE	Thickness clamping
ATSRI3X5CUACC	3,0	5	6,3	1,3	3,1 – 3,2	0,5 – 2
ATSRI3X6CUACC		6				1 – 3
ATSRI3X7CUACC		7				2 – 4
ATSRI3X9CUACC		9				4 – 6
ATSRI3X11CUACC		11				6 – 8
ATSRI3X12CUACC		12				7 – 9
ATSRI3,2X6CUACC	3,2	6	6,7	1,3	3,3 – 3,4	1 – 3
ATSRI3,2X7CUACC		7				2 – 4
ATSRI3,2X9CUACC		9				4 – 6
ATSRI3,2X11CUACC		11				6 – 8
ATSRI3,2X12CUACC		12				7 – 9
ATSRI3,4X7CUACC	3,4	7	7,1	1,4	3,5 – 3,6	2 – 4
ATSRI3,4X9CUACC		9				4 – 6
ATSRI3,4X11CUACC		11				6 – 8
ATSRI3,4X12CUACC		12				7 – 9
ATSRI3,4X14CUACC		14				9 – 11
ATSRI4X6CUACC	4,0	6	8,4	1,7	4,1 – 4,2	1 – 2
ATSRI4X7CUACC		7				2 – 3,5
ATSRI4X9CUACC		9				4 – 5,5
ATSRI4X11CUACC		11				6 – 7,5
ATSRI4X12CUACC		12				7 – 8,5
ATSRI4X14CUACC		14				8 – 10,5
ATSRI4X16CUACC		16				10 – 12,5
ATSRI4,8X8CUACC	4,8	8	10,1	2	4,9 - 5	1,5 – 3,5
ATSRI4,8X10CUACC		10				3,5 – 5,5
ATSRI4,8X12CUACC		12				5,5 – 7,5
ATSRI4,8X14CUACC		14				7,5 – 9,5
ATSRI4,8X16CUACC		16				9,5 – 11,5
ATSRI4,8X18CUACC		18				11,5 – 13,5
ATSRI4,8X20CUACC		20				13,5 – 15,5

All dimensions are expressed in mm

ROUND HEAD
COPPER/BRASS

Boccola
Copper

Chuck
Brass



CODE	D	L	T	K	Ø HOLE	Thickness clamping
ATSRI3,2X6CUOTT	3,2	6	6,7	1,3	3,3 – 3,4	1 – 3
ATSRI3,2X7CUOTT		7				2 – 4
ATSRI3,2X9CUOTT		9				4 – 6
ATSRI3,2X11CUOTT		11				6 – 8
ATSRI3,2X12CUOTT		12				7 – 9
ATSRI3,4X7CUOTT	3,4	7	7,1	1,4	3,5 – 3,6	2 – 4
ATSRI3,4X9CUOTT		9				4 – 6
ATSRI3,4X11CUOTT		11				6 – 8
ATSRI3,4X12CUOTT		12				7 – 9
ATSRI3,4X14CUOTT		14				9 – 11
ATSRI4X6CUOTT	4,0	6	8,4	1,7	4,1 – 4,2	1 – 2
ATSRI4X7CUOTT		7				2 – 3,5
ATSRI4X9CUOTT		9				4 – 5,5
ATSRI4X11CUOTT		11				6 – 7,5
ATSRI4X12CUOTT		12				7 – 8,5
ATSRI4X14CUOTT		14				8 – 10,5
ATSRI4X16CUOTT		16				10 – 12,5

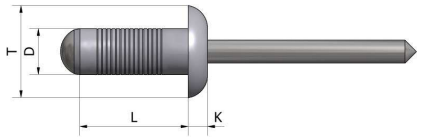
All dimensions are expressed in mm

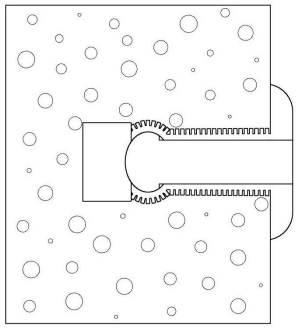
GROOVED DOME HEAD BLIND RIVET

ROUND HEAD
ALUMINIUM/STEEL

Bushing
Aluminium

Chuck
Galvanized steel





CODE	D	L	T	K	Ø HOLE	Thickness clamping
ATSRI3,2X10ALLACCRUL	3,2	10	6,7	1,3	3,4 – 3,5	MAX 6
ATSRI3,2X14ALLACCRUL		14				MAX 10
ATSRI4X8ALLACCRUL	4,0	8	8,4	1,7	4,3 – 4,4	MAX 4
ATSRI4X10ALLACCRUL		10				MAX 6
ATSRI4X12ALLACCRUL		12				MAX 8
ATSRI4X16ALLACCRUL		16				MAX 12
ATSRI4,8X8ALLACCRUL	4,8	8	10,1	2	5,1 – 5,2	MAX 4
ATSRI4,8X10ALLACCRUL		10				MAX 6
ATSRI4,8X11ALLACCRUL		11				MAX 7
ATSRI4,8X12ALLACCRUL		12				MAX 8
ATSRI4,8X14ALLACCRUL		14				MAX 10
ATSRI4,8X16ALLACCRUL		16				MAX 12
ATSRI4,8X18ALLACCRUL		18				MAX 14
ATSRI4,8X20ALLACCRUL		20				MAX 16
ATSRI4,8X25ALLACCRUL		25				MAX 21
ATSRI4,8X30ALLACCRUL		30				MAX 26

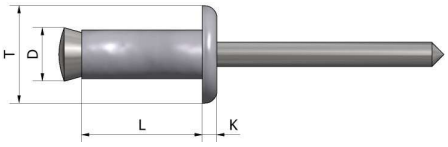
All dimensions are expressed in mm

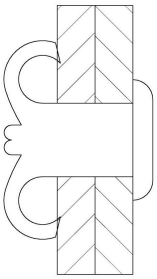
BLIND RIVET FOR PLASTIC MATERIALS

ROUND HEAD
ALUMINIUM/STEEL

Bushing
Aluminium

Chuck
Galvanized steel





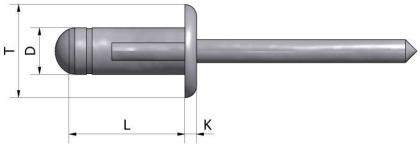
CODE	D	L	T	K	Ø HOLE	Thickness clamping
ATSRI3,2X8ALLACCFA	3,2	8	6,7	1,3	3,7	0,5 – 1
ATSRI3,2X10ALLACCFA		10				1 – 3
ATSRI3,2X12ALLACCFA		12				3 – 5
ATSRI4X10ALLACCFA	4,0	10	8,4	1,7	4,5	1,5 – 5
ATSRI4X12ALLACCFA		12				4 – 6
ATSRI4X14ALLACCFA		14				6 - 9
ATSRI4X16ALLACCFA		16				8 – 11
ATSRI4X18ALLACCFA		18				10 - 13
ATSRI4X20ALLACCFA		20				12 – 15
ATSRI4X25ALLACCFA		25				15 – 20
ATSRI4X30ALLACCFA		30				18 – 24
ATSRI4,8X10ALLACCFA	4,8	10	10,1	2	5,3	0,5 – 4
ATSRI4,8X12ALLACCFA		12				2 – 6
ATSRI4,8X14ALLACCFA		14				4 – 8
ATSRI4,8X16ALLACCFA		16				6 – 10
ATSRI4,8X20ALLACCFA		20				10 – 14
ATSRI4,8X24ALLACCFA		24				12 – 16
ATSRI4,8X25ALLACCFA		25				15 - 19
ATSRI4,8X30ALLACCFA		30				19 – 24
ATSRI4,8X35ALLACCFA		35				24 – 29
ATSRI4,8X40ALLACCFA		40				29 – 34
ATSRI4,8X45ALLACCFA		45				33 – 38
ATSRI4,8X50ALLACCFA		50				38 – 43

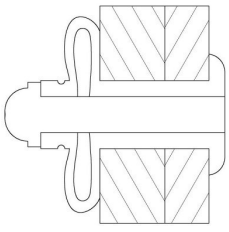
All dimensions are expressed in mm

ROUND HEAD
ALUMINIUM/ALUMINIUM

Bushing
Aluminium

Chuck
Aluminium





CODE	D	L	T	K	Ø HOLE	Thickness clamping
ATSRI4X14ALLALLTTS	4,0	13,6	8,2	1,8	4,2 – 4,5	1 – 3
ATSRI4X19ALLALLTTS		18,8				1,5 – 7
ATSRI4X21ALLALLTTS		20,5				1 – 8,5
ATSRI4X25ALLALLTTS		25,2				5 - 12
ATSRI4,8X15ALLALLTTS	4,8	15,3	10,3	2,3	5 – 5,3	1 – 4
ATSRI4,8X21ALLALLTTS		20,5				3 – 9
ATSRI4,8X25ALLALLTTS		24,5				4 – 12
ATSRI4,8X28ALLALLTTS		28				8 - 16

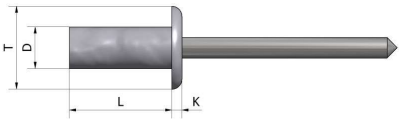
All dimensions are expressed in mm

SEALING BLIND RIVET

ROUND HEAD
ALUMINIUM/STEEL

Bushing
Aluminium

Chuck
Galvanized steel



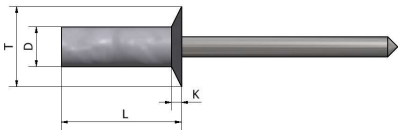
CODE	D	L	T	K	Ø HOLE	Thickness clamping
ATSRITST3,2X6ALLACC	3,2	6,5	6,7	1,3	3,3 – 3,4	0,5 – 2
ATSRITST3,2X8ALLACC		8				2 – 3,5
ATSRITST3,2X10ALLACC		9,5				3,5 – 5
ATSRITST3,2X11ALLACC		11				5 – 6,5
ATSRITST3,2X12ALLACC		12,5				6,5 – 8
ATSRITST4X8ALLACC	4,0	8	8,4	1,7	4,1 – 4,2	1 – 3,5
ATSRITST4X10ALLACC		9,5				3,5 – 5
ATSRITST4X11ALLACC		11				4,5 – 6,5
ATSRITST4X12ALLACC		12,5				6,5 – 8
ATSRITST4X14ALLACC		14				8 – 10,5
ATSRITST4,8X8ALLACC	4,8	8	10,1	2	4,9 - 5	1 – 3
ATSRITST4,8X10ALLACC		9,5				3 – 4,5
ATSRITST4,8X12ALLACC		12,5				4,5 – 7,5
ATSRITST4,8X14ALLACC		14				7,5 – 9
ATSRITST4,8X16ALLACC		16				9 - 11
ATSRITST4,8X18ALLACC		18				11 – 13
ATSRITST4,8X20ALLACC		20				13 - 16
ATSRITST4,8X25ALLACC		25				16 – 20
ATSRITST6,4X13ALLACC	6,4	12,5	13,4	2,7	6,5 – 6,6	1,5 – 6,5
ATSRITST6,4X16ALLACC		16				6,5 - 9,5

All dimensions are expressed in mm

COUNTERSUNK HEAD
ALUMINIUM/STEEL

Bushing
Aluminium

Chuck
Galvanized steel



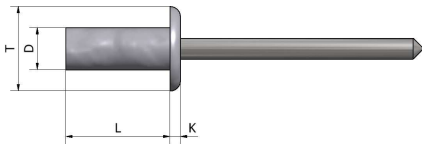
CODE	D	L	T	K	Ø HOLE	Thickness clamping
ATSRITST3,2X6TSALLACC	3,2	6	6,7	1,3	3,3 – 3,4	1 – 2,5
ATSRITST3,2X8TSALLACC		7,5				1,6 - 3,2
ATSRITST3,2X9TSALLACC		9				3,5 – 4,5
ATSRITST3,2X11TSALLACC		10,5				4,5 – 6,5
ATSRITST3,2X12TSALLACC		12				5,5 – 7,5
ATSRITST3,2X13TSALLACC		13				7,5 – 9
ATSRITST4X9TSALLACC	4,0	9,5	8,4	1,7	4,1 – 4,2	2 – 5
ATSRITST4X11TSALLACC		11				5 – 6,5
ATSRITST4X12TSALLACC		12,5				6,5 – 8
ATSRITST4X14TSALLACC		14				7,5 – 9
ATSRITST4,8X10TSALLACC	4,8	9,5	10,1	2	4,9 - 5	2,5 – 4,5
ATSRITST4,8X11TSALLACC		11				4,5 – 6
ATSRITST4,8X12TSALLACC		12,5				6 – 7,5
ATSRITST4,8X14TSALLACC		14				7,5 – 9
ATSRITST4,8X16TSALLACC		15,5				9 – 10,5
ATSRITST4,8X17TSALLACC		17				10,5 – 12
ATSRITST4,8X19TSALLACC		19				12 – 14
ATSRITST4,8X24TSALLACC		24				14 – 18,5

All dimensions are expressed in mm

ROUND HEAD
ALUMINIUM/INOX

Bushing
Aluminium

Chuck
Stainless steel A2



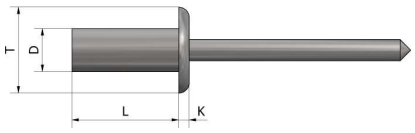
CODE	D	L	T	K	Ø HOLE	Thickness clamping
ATSRITST3,2X7ALLINOX		6,5				0,5 – 2
ATSRITST3,2X8ALLINOX		8				2 – 3,5
ATSRITST3,2X10ALLINOX	3,2	9,5	6,7	1,3	3,3 – 3,4	3,5 – 5
ATSRITST3,2X11ALLINOX		11				5 – 6,5
ATSRITST3,2X13ALLINOX		12,5				6,5 – 8
ATSRITST4X8ALLINOX		8				1 – 3,5
ATSRITST4X10ALLINOX		9,5				3,5 – 4,5
ATSRITST4X11ALLINOX	4,0	11	8,4	1,7	4,1 – 4,2	4,5 – 6,5
ATSRITST4X13ALLINOX		12,5				6,5 – 8
ATSRITST4X15ALLINOX		15				8 – 10,5
ATSRITST4,8X8ALLINOX		8				1 – 3
ATSRITST4,8X10ALLINOX		9,5				3 – 4,5
ATSRITST4,8X11ALLINOX		11				4,5 – 6
ATSRITST4,8X13ALLINOX		12,5				6 – 7,5
ATSRITST4,8X14ALLINOX	4,8	14	10,1	2	4,9 -5	7,5 – 9
ATSRITST4,8X16ALLINOX		16				9 – 11
ATSRITST4,8X18ALLINOX		18				11 – 13
ATSRITST4,8X21ALLINOX		21				13 – 16
ATSRITST4,8X25ALLINOX		25				16 - 20

All dimensions are expressed in mm

ROUND HEAD
STEEL/STEEL

Bushing
Galvanized steel

Chuck
Galvanized steel



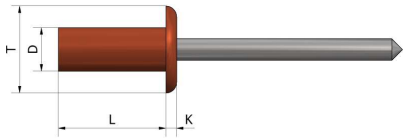
CODE	D	L	T	K	Ø HOLE	Thickness clamping
ATSRITST3,2X6ACCACC		6				0,5 – 1,5
ATSRITST3,2X8ACCACC	3,2	8	6,7	1,3	3,3 – 3,4	1,5 – 3
ATSRITST3,2X9ACCACC		9,5				3 – 5
ATSRITST3,2X12ACCACC		12				5 – 6,5
ATSRITST4X6ACCACC		6				0,5 – 1,5
ATSRITST4X8ACCACC		8				1,5 – 3
ATSRITST4X10ACCACC	4,0	10	8,4	1,7	4,1 – 4,2	3 – 5
ATSRITST4X12ACCACC		12				5 – 6,5
ATSRITST4X15ACCACC		15				6,5 – 10,5
ATSRITST4,8X8ACCACC		8				1 – 3
ATSRITST4,8X10ACCACC	4,8	10	10,1	2	4,9 - 5	3 – 4,5
ATSRITST4,8X12ACCACC		12				4,5 – 6
ATSRITST4,8X16ACCACC		16				6 – 10,5

All dimensions are expressed in mm

ROUND HEAD
COPPER/STEEL

Bushing
Copper

Chuck
Galvanized steel



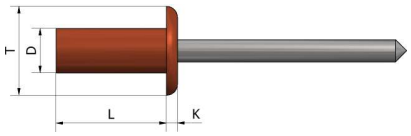
CODE	D	L	T	K	Ø HOLE	Thickness clamping
ATSRITST3,2X6CUACC **ATSRITST3,2X7CUACC** **ATSRITST3,2X9CUACC** **ATSRITST3,2X12CUACC**	3,2	6 7,5 9 12	6,7	1,3	3,3 – 3,4	1 – 1,6 1,6 – 3,2 3,2 – 4,8 4,8 – 8
ATSRITST4X8CUACC **ATSRITST4X9CUACC** **ATSRITST4X12CUACC**	4,0	8 9,5 12,5	8,4	1,7	4,1 – 4,2	0,5 – 3,5 3 – 4,8 4,8 – 8
ATSRITST4,8X8CUACC **ATSRITST4,8X11CUACC**	4,8	8,5 11,5	10,1	2	4,9 - 5	2 – 3,2 3,2 – 6,4

All dimensions are expressed in mm

ROUND HEAD
COPPER/INOX

Bushing
Copper

Chuck
Stainless steel A2



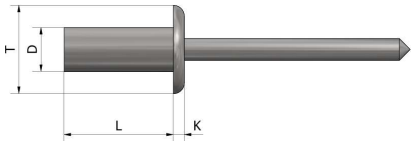
CODE	D	L	T	K	Ø HOLE	Thickness clamping
ATSRITST3,2X6CUINOX **ATSRITST3,2X7CUINOX** **ATSRITST3,2X9CUINOX** **ATSRITST3,2X12CUINOX**	3,2	6 7,5 9 12	6,7	1,3	3,3 – 3,4	1 – 1,6 1,6 – 3,2 3,2 – 4,8 4,8 – 8
ATSRITST4X8CUINOX **ATSRITST4X9CUINOX**	4,0	8 9,5	8,4	1,7	4,1 – 4,2	0,5 – 3,5 3 – 4,8

All dimensions are expressed in mm

ROUND HEAD
INOX/INOX

Bushing
Stainless steel A2

Chuck
Stainless steel A4



CODE	D	L	T	K	Ø HOLE	Thickness clamping
ATSRITST3,2X6IXIX4 **ATSRITST3,2X8IXIX4** **ATSRITST3,2X10IXIX4** **ATSRITST3,2X12IXIX4** **ATSRITST3,1X14IXIX4**	3,2	6 8 9,5 12 14	6,7	1,3	3,3 – 3,4	0,5 – 1,5 1,5 – 3 3 – 5 5 – 6,5 6,5 – 8
ATSRITST4X6IXIX4 **ATSRITST4X8IXIX4** **ATSRITST4X10IXIX4** **ATSRITST4X12IXIX4** **ATSRITST4X14IXIX4** **ATSRITST4X16IXIX4**	4,0	6 8 10 12 14 16	8,4	1,7	4,1 – 4,2	0,5 – 1,5 1,5 – 3 3 – 5 5 – 6,5 6,5 – 8 8 – 11
ATSRITST4,8X8IXIX4 **ATSRITST4,8X10IXIX4** **ATSRITST4,8X12IXIX4** **ATSRITST4,8X14IXIX4** **ATSRITST4,8X16IXIX4** **ATSRITST4,8X20IXIX4**	4,8	8 9,5 12 14 16 20	10,1	2	4,9 - 5	0,5 – 3 3 – 5 5 – 6,5 6 – 7,5 6,5 – 9 9 – 12
ATSRITST6,4X12IXIX4 **ATSRITST6,4X14IXIX4** **ATSRITST6,4X16IXIX4** **ATSRITST6,4X20IXIX4**	6,4	12 14 16 20	13,4	2,7	6,5 – 6,6	1,5 – 6,5 5 - 7 6,5 – 8 8 – 12

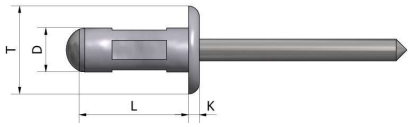
All dimensions are expressed in mm

MULTI-GRIP BLIND RIVET

ROUND HEAD
ALLUMINIO/ACCIAIO

Bushing
Aluminium Mg. 2,5

Chuck
Galvanized head



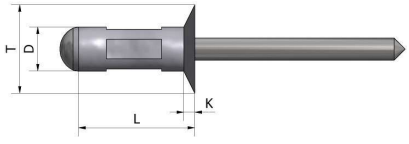
CODE	D	L	T	K	Ø HOLE	Thickness clamping
ATSRIMX3X6ALLACC	3,0	6	6,3	1,3	3,1 – 3,2	1 – 3
ATSRIMX3X8ALLACC		8				0,5 – 5
ATSRIMX3X10ALLACC		10				2 – 6,5
ATSRIMX3X12ALLACC		12				5 – 9,5
ATSRIMX3,2X6ALLACC	3,2	6	6,7	1,3	3,3 – 3,4	1 – 3,5
ATSRIMX3,2X8ALLACC		8				1 – 5
ATSRIMX3,2X10ALLACC		9,5				1,2 – 6,5
ATSRIMX3,2X11ALLACC		11				4 – 7,9
ATSRIMX3,2X12ALLACC		12				4,5 – 9
ATSRIMX3,2X14ALLACC		14				6,5 – 10,5
ATSRIMX3,2X16ALLACC		16				9 – 12,5
ATSRIMX4X8ALLACC	4,0	8	8,4	1,7	4,1 – 4,2	0,8 – 4,7
ATSRIMX4X10ALLACC		9,5				1,2 – 6,3
ATSRIMX4X13ALLACC		13				4 – 9,5
ATSRIMX4X17ALLACC		17				6,4 – 12,7
ATSRIMX4X18ALLACC		18				9,5 – 14,5
ATSRIMX4X20ALLACC		20				11,5 – 16,5
ATSRIMX4,8X10ALLACC	4,8	10	10,1	2	4,9 - 5	1 – 6
ATSRIMX4,8X11ALLACC		11				1 – 6,5
ATSRIMX4,8X13ALLACC		13				2 – 8
ATSRIMX4,8X15ALLACC		15				4,8 - 11
ATSRIMX4,8X17ALLACC		17				6,4 – 12,7
ATSRIMX4,8X25ALLACC		25				12,7 – 19,8
ATSRIMX4,8X27ALLACC		27				17 – 22
ATSRIMX4,8X30ALLACC		30				20 – 25

All dimensions are expressed *in mm*

COUNTERSUNK HEAD
ALUMINIUM/STEEL

Bushing
Aluminium Mg. 2,5

Chuck
Galvanized steel



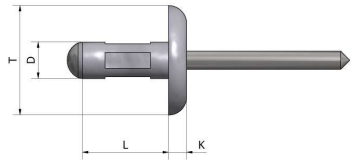
CODE	D	L	T	K	Ø HOLE	Thickness clamping
ATSRIMX3,2X8TSALLACC	3,2	8	6,7	1,3	3,3 – 3,4	1,5 – 5
ATSRIMX3,2X10TSALLACC		10				2,5 – 6,5
ATSRIMX3,2X12TSALLACC		12				5 – 9,5
ATSRIMX3,2X14TSALLACC		14				6,5 – 11
ATSRIMX3,2X16TSALLACC		16				8,5 – 13
ATSRIMX4X8TSALLACC	4,0	8	8,4	1,7	4,1 – 4,2	1,5 – 5
ATSRIMX4X10TSALLACC		10				2,5 – 6,5
ATSRIMX4X12TSALLACC		12				4 – 9
ATSRIMX4X14TSALLACC		14				5 – 10,5
ATSRIMX4X17TSALLACC		17				8,5 – 13,5
ATSRIMX4X18TSALLACC		18				9 – 14,5
ATSRIMX4X20TSALLACC		20				11 – 16,5
ATSRIMX4,8X10TSALLACC	4,8	10	10,1	2	4,9 - 5	2,5 – 5
ATSRIMX4,8X12TSALLACC		12				3 – 7,5
ATSRIMX4,8X15TSALLACC		15				5 – 10
ATSRIMX4,8X17TSALLACC		17				7 – 12
ATSRIMX4,8X20TSALLACC		20				10 – 15
ATSRIMX4,8X22TSALLACC		22				12 – 18
ATSRIMX4,8X24TSALLACC		24				14 – 20
ATSRIMX4,8X27TSALLACC		27				17 – 23
ATSRIMX4,8X30TSALLACC		30				20 – 25

All dimensions are expressed in mm

LARGE HEAD
ALLUMINIO/ACCIAIO

Boccola
Aluminium Mg. 2,5

Chuck
Galvanized steel



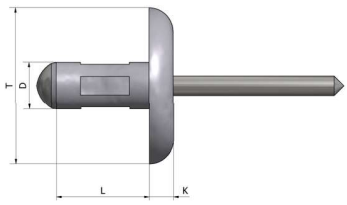
CODE	D	L	T	K	Ø HOLE	Thickness clamping
ATSRIMX3,2X8ALLACCTL	3,2	8	8,8 - 10	1,7	3,3 – 3,4	1 – 5
ATSRIMX3,2X10ALLACCTL		9,5				1,2 – 6,5
ATSRIMX3,2X11ALLACCTL		11				4 – 7,9
ATSRIMX3,2X13ALLACCTL		13				4,5 – 9,5
ATSRIMX3,2X14ALLACCTL		14				6,5 – 10,5
ATSRIMX3,2X16ALLACCTL		16				9 – 12,5
ATSRIMX4X8ALLACCTL	4,0	8	9,5 – 10,5	1,8	4,1 – 4,2	0,8 – 4,7
ATSRIMX4X10ALLACCTL		9,8				1,2 – 6,3
ATSRIMX4X13ALLACCTL		13				4 – 9,5
ATSRIMX4X14ALLACCTL		14				5 – 10
ATSRIMX4X17ALLACCTL		16,5				6,4 – 12,7
ATSRIMX4X18ALLACCTL		18				9,5 – 14,5
ATSRIMX4X20ALLACCTL		20				11,5 – 16,5
ATSRIMX4,8X10ALLACCTL	4,8	10	13,6 – 14,6	2,3	4,9 - 5	1 – 6
ATSRIMX4,8X12ALLACCTL		12,5				2 – 8
ATSRIMX4,8X14ALLACCTL		14				3,5 – 9,5
ATSRIMX4,8X15ALLACCTL		15				4,8 - 11
ATSRIMX4,8X17ALLACCTL		17				6,4 – 12,7
ATSRIMX4,8X20ALLACCTL		20				10 – 15
ATSRIMX4,8X22ALLACCTL		22				11,5 – 17
ATSRIMX4,8X25ALLACCTL		25				12,7 – 19,8

All dimensions are expressed in mm

EXTRA-LARGE HEAD
ALUMINIUM/STEEL

Bushing
Aluminium Mg. 2,5

Chuck
Galvanized steel



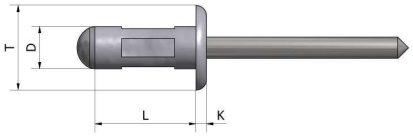
CODE	D	L	T	K	Ø HOLE	Thickness clamping
ATSRIMX4X8ALLACCTXL	4	8	11,5 – 12,5	1,9	4,1 – 4,2	0,8 – 4,7
ATSRIMX4X10ALLACCTXL		9,5				1,2 – 6,3
ATSRIMX4X13ALLACCTXL		13				4 – 9,5
ATSRIMX4X17ALLACCTXL		17				6,4 – 12,7
ATSRIMX4,8X10ALLACCTXL	4,8	10	15,4 – 16,6	2,4	4,9 - 5	1 – 6
ATSRIMX4,8X12ALLACCTXL		12,5				2 – 8
ATSRIMX4,8X14ALLACCTXL		14				3,2 – 9,3
ATSRIMX4,8X15ALLACCTXL		15				4,8 – 11,1
ATSRIMX4,8X17ALLACCTXL		17				6,4 – 12,7
ATSRIMX4,8X20ALLACCTXL		20				10 – 15
ATSRIMX4,8X25ALLACCTXL		25				12,7 – 19,8
ATSRIMX4,8X27ALLACCTXL		27				17 – 22,5
ATSRIMX4,8X30ALLACCTXL		30				20 – 25

All dimensions are expressed in mm

ROUND HEAD
ALUMINIUM/INOX

Bushing
Aluminium Mg. 2,5

Chuck
Stainless steel A2



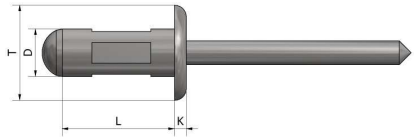
CODE	D	L	T	K	Ø HOLE	Thickness clamping
ATSRIMX3X8ALLINOX	3	8	6	1,3	3,1	0,5 – 5
ATSRIMX3X10ALLINOX		9,5				2 – 6,5
ATSRIMX3X13ALLINOX		12,5				5 – 9,5
ATSRIMX3,2X8ALLINOX	3,2	8	6	1,3	3,3	0,5 – 5
ATSRIMX3,2X10ALLINOX		9,5				2 – 6,5
ATSRIMX3,2X13ALLINOX		12,5				5 – 9,5
ATSRIMX4X9ALLINOX	4,0	9,5	8	1,7	4,1	1 – 6
ATSRIMX4X12ALLINOX		12,5				4 – 9
ATSRIMX4X16ALLINOX		16,9				8,5 – 13,5
ATSRIMX4,8X10ALLINOX	4,8	10	9,5	2	5	1 – 5
ATSRIMX4,8X13ALLINOX		12,5				3 – 7,5
ATSRIMX4,8X15ALLINOX		15				5,1 – 10
ATSRIMX4,8X16ALLINOX		16,9				6,9 – 12
ATSRIMX4,8X20ALLINOX		20				10 - 15
ATSRIMX4,8X24ALLINOX		24,8				14,5 – 19,5

All dimensions are expressed in mm

ROUND HEAD
STEEL/STEEL

Bushing
Galvanized steel

Chuck
Galvanized steel

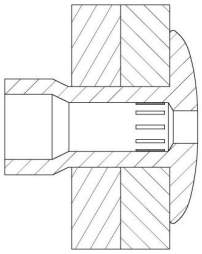


CODE	D	L	T	K	Ø HOLE	Thickness clamping
ATSRIMX3,2X11ACCACC	3,2	11	6,7	1,3	3,3 – 3,4	1 – 6
ATSRIMX4X11ACCACC	4,0	10,8	8,4	1,7	4,1 – 4,2	1,5 – 5
ATSRIMX4X15ACCACC		15				5,5 – 8,5
ATSRIMX4,8X14ACCACC	4,8	14	10,1	2	4,9 - 5	1,5 – 9
ATSRIMX4,8X18ACCACC		17,5				6,3 – 12,7

All dimensions are expressed in mm

HIGH-STRENGHT STRUCTURAL BLIND RIVET

Blind rivets with high vibration resistance
and good airtightness



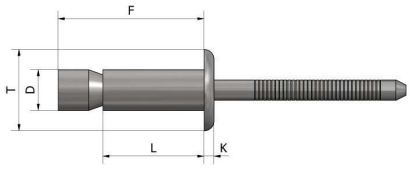
TESTA TONDA
STEEL/STEEL

Bushing
Galvanized steel

Chuck
Galvanized steel

CODE	D	L	T	K	F	Ø HOLE	Thickness clamping
ATSRIAMF4,8X10ACCACC	4,8	10	10,2	2,3	18,3	4,9 – 5,2	1,6 – 6,9
ATSRIAMF4,8X14ACCACC		14			25,5		1,6 – 11,1
ATSRIAMF6,4X14ACCACC	6,4	14	13,5	3	30	6,6 - 7	2 – 9,5
ATSRIAMF6,4X20ACCACC		20			36,2		2,3 – 15,9

All dimensions are expressed in mm



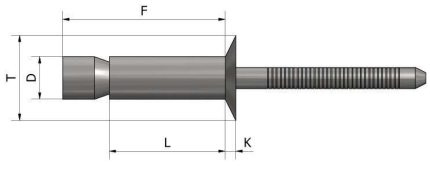
COUNTERSUNK HEAD
STEEL/STEEL

Bushing
Galvanized steel

Chuck
Galvanized steel

CODICE	D	L	T	K	F	Ø FORO	Thickness clamping
ATSRIAMF4,8X13TSACCACC	4,8	13	8,5	2,2	20	4,9 - 5,1	3,2 – 8,2
ATSRIAMF4,8X16TSACCACC		16			26,2		3,2 – 12,2
ATSRIAMF6,4X17TSACCACC	6,4	17	10,2	2,4	27	6,6 - 7	4,3 – 12
ATSRIAMF6,4X22TSACCACC		22			33		5 – 17,5

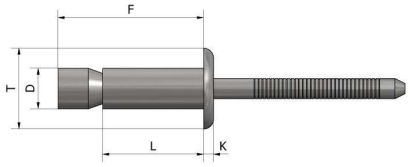
All dimensions are expressed in mm



ROUND HEAD
STEEL/STEEL

Bushing
Galvanized steel

Chuck
Galvanized steel



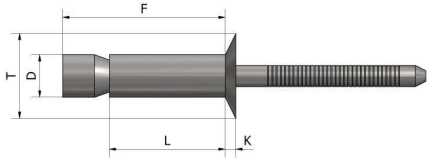
CODE	D	L	T	K	F	Ø HOLE	Thickness clamping
ATSRIAMFM4,8X10ACCACC	4,8	10	10,2	2,3	18,3	4,9 – 5,2	1,6 – 6,9
ATSRIAMFM4,8X14ACCACC		14			25,5		1,6 – 11,1
ATSRIAMFM6,4X14ACCACC	6,4	14	13,5	3	30	6,6 - 7	2 – 9,5
ATSRIAMFM6,4X20ACCACC		20			36,2		2 – 15,9

All dimensions are expressed in mm
TO BE USED WITH A SPECIAL NOZZLE

COUNTERSUNK HEAD
STEEL/STEEL

Bushing
Galvanized steel

Chuck
Galvanized steel



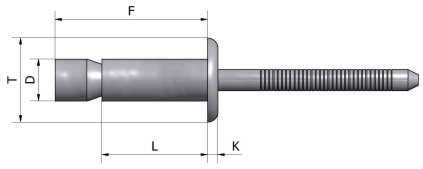
CODE	D	L	T	K	F	Ø HOLE	Thickness clamping
ATSRIAMFM4,8X13TSACCACC	4,8	13	8,5	2,2	20	4,9 - 5,1	3,2 – 8,2
ATSRIAMFM4,8X16TSACCACC		16			26,2		3,2 – 12,2
ATSRIAMFM6,4X17TSACCACC	6,4	17	10,2	2,4	27	6,6 - 7	3,2 – 12,2
ATSRIAMFM6,4X22TSACCACC		22			33		5 – 17,5

All dimensions are expressed in mm
TO BE USED WITH A SPECIAL NOZZLE

ROUND HEAD
ALLUMINIO/ALLUMINIO

Boccola
Alluminio

Mandrino
Alluminio



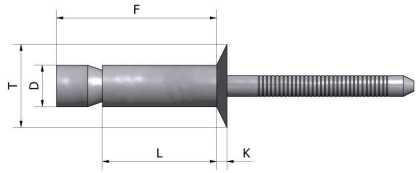
CODE	D	L	T	K	F	Ø HOLE	Thickness clamping
ATSRIAMF4,8X10ALLALL	4,8	10	10,2	2,3	21,4	4,9 - 5,2	1,6 – 6,9
ATSRIAMF4,8X14ALLALL		14			26,2		1,6 – 11,1
ATSRIAMF6,4X14ALLALL	6,4	14	13,5	3	30	6,6 – 6,9	2 – 9,5
ATSRIAMF6,4X20ALLALL		20			36,4		2 – 15,9

All dimensions are expressed in mm

TESTA SVASATA
ALLUMINIO/ALLUMINIO

Boccola
Alluminio

Mandrino
Alluminio



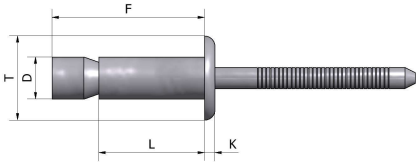
CODICE	D	L	T	K	F	Ø FORO	Thickness clamping
ATSRIAMF4,8X13TSALLALL	4,8	12,7	8,5	2,2	20	4,9 - 5,1	3,2 – 8,4
ATSRIAMF4,8X16TSALLALL		15,9			26,2		3,2 – 12,2
ATSRIAMF6,4X17TSALLALL	6,4	17,2	10,1	2,4	27,2	6,6 - 7	3,2 – 12,1

All dimensions are expressed in mm

ROUND HEAD
ALUMINIUM/ALUMINIUM

Bushing
Aluminium

Mandrino
Aluminium



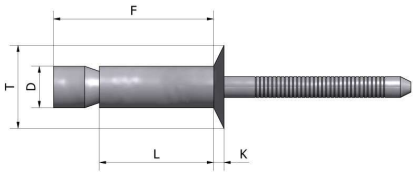
CODE	D	L	T	K	F	Ø HOLE	Thickness clamping
ATSRIAMFM4,8X10ALLALL	4,8	10	10,2	2,3	21,4	4,9 - 5,2	1,6 – 6,9
ATSRIAMFM4,8X14ALLALL		14			24,8		1,6 – 11,1
ATSRIAMFM6,4X14ALLALL	6,4	14	13,5	3	30	6,6 – 6,9	2 – 9,5
ATSRIAMFM6,4X20ALLALL		20			35,6		2 – 15,9

All dimensions are expressed in mm
TO BE USED WITH A SPECIAL NOZZLE

COUNTERSUNK HEAD
ALUMINIUM/ALUMINIUM

Bushing
Aluminium

Chuck
Aluminium



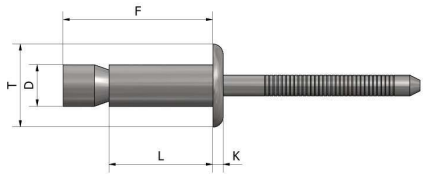
CODE	D	L	T	K	F	Ø HOLE	Thickness clamping
ATSRIAMFM4,8X13TSALLALL	4,8	12,7	8,5	2,2	20	4,9 - 5,1	3,2 – 8,4
ATSRIAMFM4,8X16TSALLALL		15,9			26,2		3,2 – 12,2
ATSRIAMFM6,4X17TSALLALL	6,4	17,2	10,1	2,4	27,2	6,6 - 7	3,2 – 12,1

All dimensions are expressed in mm
TO BE USED WITH A SPECIAL NOZZLE

ROUND HEAD
INOX/INOX

Bushing
Stainless steel A2

Chuck
Stainless steel A2



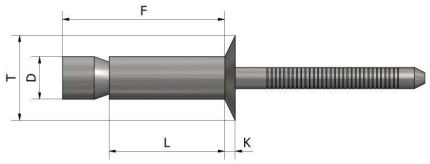
CODE	D	L	T	K	F	Ø HOLE	Thickness clamping
ATSRIAMF4,8X10IXIX	4,8	10	10,2	2,5	21,4	4,9 - 5,2	1,6 – 6,4
ATSRIAMF4,8X14IXIX		14			26,2		1,6 – 11,1
ATSRIAMF6,4X14IXIX	6,4	14	13,5	3,2	30	6,6 - 7	2 – 9,5
ATSRIAMF6,4X20IXIX		20			36,4		2 – 15,5

All dimensions are expressed in mm

COUNTERSUNK HEAD
INOX/INOX

Bushing
Stainless steel A2

Chuck
Stainless steel A2



CODE	D	L	T	K	F	Ø HOLE	Thickness clamping
ATSRIAMF4,8X12TSIXIX	4,8	12	9	2	20	4,9 - 5,1	3,6 – 7,9
ATSRIAMF4,8X16TSIXIX		16			26,5		3,6 – 12,7
ATSRIAMF6,4X16TSIXIX	6,4	16	11	2,2	28	6,6 - 7	5 – 12
ATSRIAMF6,4X22TSIXIX		22			30		5 – 17,5

All dimnesions are expressed in mm

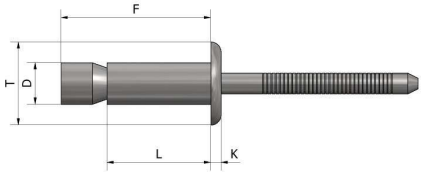
ROUND HEAD
INOX/INOX

Bushing
Stainless steel A2

Chuck
Stainless steel A2

CODE	D	L	T	K	F	Ø HOLE	Thickness clamping
ATSRIAMFM4,8X10IXIX	4,8	10	10,2	2,5	21,4	4,9 - 5,2	1,6 – 6,4
ATSRIAMFM4,8X14IXIX		14			26,2		1,6 – 11,1
ATSRIAMFM6,4X14IXIX	6,4	14	13,5	3,2	30	6,6 - 7	2 – 9,5
ATSRIAMFM6,4X20IXIX		20			36,4		2 – 15,5

All dimensions are expressed in mm
TO BE USED WITH A SPECIAL NOZZLE



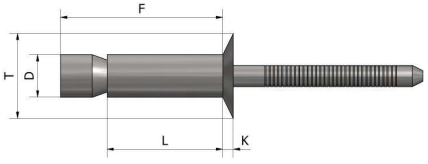
COUNTERSUNK HEAD
INOX/INOX

Bushing
Stainless steel A2

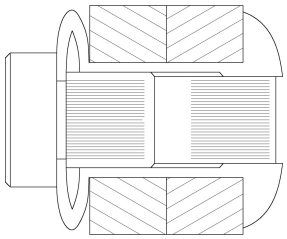
Chuck
Stainless steel A2

CODE	D	L	T	K	F	Ø HOLE	Thickness clamping
ATSRIAMFM4,8X12TSIXIX	4,8	12	9	2	20	4,9 - 5,1	3,6 – 7,9
ATSRIAMFM4,8X16TSIXIX		16			26,5		3,6 – 12,7
ATSRIAMFM6,4X16TSIXIX	6,4	16	11	2,2	28	6,6 - 7	5 – 12
ATSRIAMFM6,4X22TSIXIX		22			30		5 – 17,5

All dimensions are expressed in mm
TO BE USED WITH A SPECIAL NOZZLE



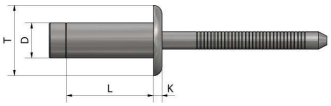
A blind rivet with a wider head that ensures a stronger hold and does not deform with thin sheet materials.
It is resistant to water and vibrations.



ROUND HEAD
STEEL/STEEL

Bushing
Galvanized steel

Chuck
Galvanized steel



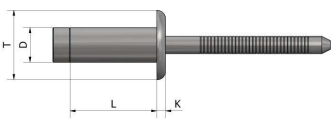
CODE	D	L	T	K	Ø HOLE	Thickness clamping
ATSRIAMB3,2X7ACCACC **ATSRIAMB3,2X9ACCACC** **ATSRIAMB3,2X11ACCACC**	3,2	7 9 11	6,7	1,3	3,3 – 3,4	1 – 3 3 – 5 5 – 7
ATSRIAMB4X8ACCACC **ATSRIAMB4X10ACCACC** **ATSRIAMB4X12ACCACC**	4,0	7,5 9,5 12,5	8,4	1,7	4,1 – 4,2	1 – 3 3 – 5 5 – 7
ATSRIAMB4,8X10ACCACC **ATSRIAMB4,8X12ACCACC** **ATSRIAMB4,8X14ACCACC**	4,8	10 12 14	10,1	2	4,9 - 5	1,5 – 3,5 3,5 – 6 6 – 8,5
ATSRIAMB6X10ACCACC **ATSRIAMB6X13ACCACC** **ATSRIAMB6X16ACCACC** **ATSRIAMB6X19ACCACC**	6,0	10 13 16 19	12,6	2,5	6,1 – 6,2	1,5 – 4 3 – 6 6 – 9 9 – 12
ATSRIAMB6,4X9ACCACC **ATSRIAMB6,4X10ACCACC** **ATSRIAMB6,4X12ACCACC** **ATSRIAMB6,4X14ACCACC** **ATSRIAMB6,4X16ACCACC** **ATSRIAMB6,4X18ACCACC** **ATSRIAMB6,4X20ACCACC**	6,4	9 10 12 14 16 18 20	13,4	3,3	6,5 – 6,6	1,5 – 3,5 2,8 – 4,8 4,8 – 6,8 6,8 – 8,8 8,8 – 10,8 10,8 – 12,8 12,8 – 14,8

All dimensions are expressed in mm

ROUND HEAD
INOX/INOX

Bushing
Stainless steel A2

Chuck
Stainless steel A2



CODE	D	L	T	K	Ø HOLE	Thickness clamping
ATSRIAMB3,2X7IXIX **ATSRIAMB3,2X9IXIX** **ATSRIAMB3,2X12IXIX**	3,2	6,6 9,2 11,5	6,7	1,3	3,3 – 3,4	1 – 3 3 – 5 5 – 7
ATSRIAMB4X8IXIX **ATSRIAMB4X10IXIX** **ATSRIAMB4X12IXIX**	4,0	8 10 12	8,4	1,7	4,1 – 4,2	1 – 3 3 – 5 5 – 7
ATSRIAMB4,8X10IXIX **ATSRIAMB4,8X12IXIX** **ATSRIAMB4,8X14IXIX** **ATSRIAMB4,8X16IXIX**	4,8	10 12 14,3 16	10,1	2	4,9 - 5	1,5 – 3,5 3,5 – 6 6 – 8,5 8,5 - 11
ATSRIAMB6,4X10IXIX **ATSRIAMB6,4X12IXIX** **ATSRIAMB6,4X14IXIX** **ATSRIAMB6,4X16IXIX** **ATSRIAMB6,4X18IXIX** **ATSRIAMB6,4X20IXIX** **ATSRIAMB6,4X22IXIX**	6,4	10,5 12,5 14,5 16,5 18,5 20,5 22,5	13,4	3,2	6,6 – 6,7	2 – 4,5 4 – 6,5 5 – 8,5 7 – 10,5 9 – 12,5 11 – 14 13 – 16

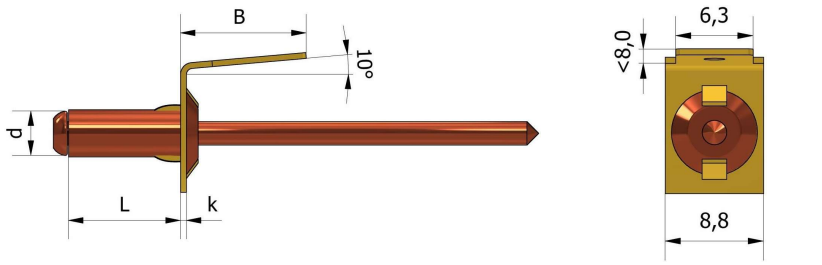
All dimensions are expressed in mm

GROUNDING BLIND RIVET

No. 1 TERMINAL
COPPER/BRASS

Bushing
Copper

Chuck / Faston
Copper-plated steel-brass



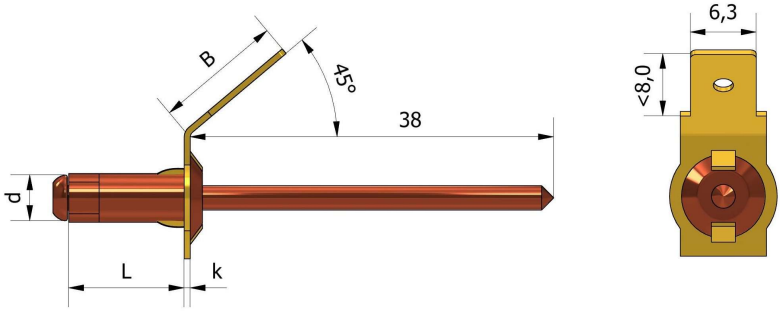
CODE	d	L	B	k	Ø HOLE	Thickness clamping
ATSRM1V90	4	6	10	0,8	5,4	0,8 – 1,5

All dimensions are expressed in mm

No. 1 TERMINAL 45°
COPPER/BRASS

Bushing
Copper

Chuck / Faston
Copper-plated steel-brass



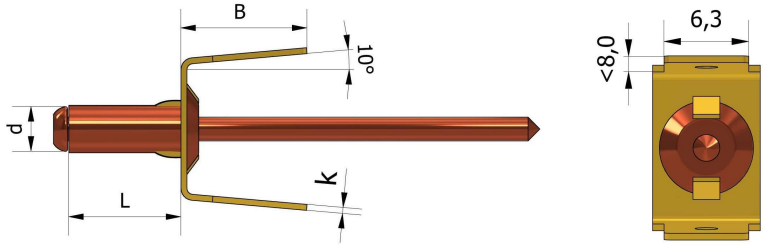
CODE	d	L	B	k	Ø HOLE	Thickness clamping
ATSRM1V45	3,8	7	10	0,8	5,2	0,6 – 1,5

All dimensions are expressed in mm

No. 2 TERMINALS
COPPER/BRASS

Bushing
Copper

Chuck / Faston
Copper-plated steel-brass



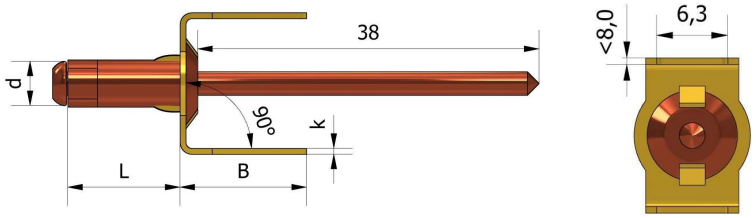
CODE	d	L	B	k	Ø HOLE	Thickness clamping
ATSRM2V90	4	6	10	0,8	5,4	0,8 – 1,5

All dimensions are expressed in mm

No. 2 TERMINALS 90°
COPPER/BRASS

Bushing
Copper

Chuck / Faston
Copper-plated steel-brass



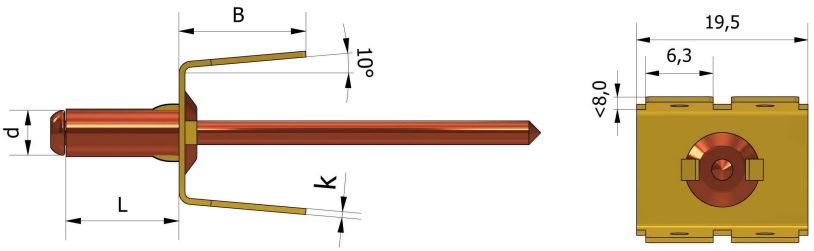
CODE	d	L	B	k	Ø HOLE	Thickness clamping
ATSRI3,8X8MAS2CUOTT	3,8	7	10	0,8	4,8 - 5	0,6 – 1,5

All dimensions are expressed in mm

No. 4 TERMINALS
COPPER/BRASS

Bushing
Copper

Chuck / Faston
Copper-plated steel-brass



CODE	d	L	B	k	Ø HOLE	Thickness clamping
ATSRM4V90	4	6	10	0,8	5,4	0,8 – 1,5

All dimensions are expressed in mm

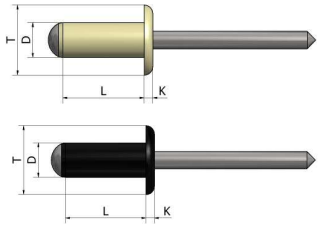
PAINTED BLIND RIVET

ROUND HEAD
ALUMINIUM/STEEL

Bushing
Aluminium

Chuck
Galvanized steel

Colors
White RAL 9010
Black RAL 9005



CODE	D	L	T	K	Ø HOLE	Thickness clamping
ATSRAL3X8	3,0	8	6	0,8	3,1	3 – 5
ATSRAL3X10		10				7 – 9
ATSRAL3X12		12				
ATSRAL3,2X8	3,2	8	6,5	0,8	3,3	3 – 5
ATSRAL3,2X10		10				5 – 7
ATSRAL3,2X12		12				7 – 9
ATSRAL4X8	4,0	8	8	1,0	4,1	3 – 4,5
ATSRAL4X10		10				5 – 6,5
ATSRAL4X12		12				7 – 8,5
ATSRAL4X14		14				8 – 10,5
ATSRAL4,8X8	4,8	8	10	1,1	5,0	2,5 – 4
ATSRAL4,8X10		10				4,5 – 6
ATSRAL4,8X12		12				6,5 – 8
ATSRAL4,8X14		14				7,5 – 10
ATSRAL4,8X16		16				9,5 – 12

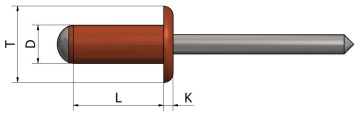
All dimensions are expressed in mm

ROUND HEAD
ALUMINIUM/STEEL

Bushing
Aluminium

Chuck
Galvanized steel

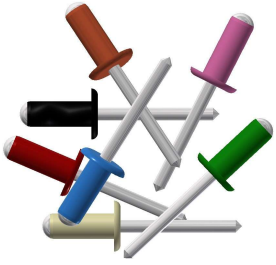
Color
Brown RAL 8017



CODE	D	L	T	K	Ø HOLE	Thickness clamping
ATSRAL3,4X9	3,4	9	7	0,8	3,5	4 – 6
ATSRAL4X8	4,0	8	8	1,0	4,1	3 – 4,5
ATSRAL4X10		10				5 – 6,5
ATSRAL4X12		12				7 – 8,5
ATSRAL4,8X12	4,8	12	10	1,1	5,0	6,5 – 8

All dimensions are expressed in mm

All standard aliminium rivets can be painted in colors from the RAL color chart; the minimum quantity required will be determined based on specific RAL color requested.



TOOLS FOR RIVET NUTS

	**RIVETER ATSRL4000SV** HYDRO-PNEUMATIC RIVETER FOR RIVETS FROM Ø 2,4 TO Ø 4,0 MM.
	**RIVETER ATSRL4000MV** HYDRO-PNEUMATIC RIVETER FOR RIVETS FROM Ø 3,2 TO Ø 4,8 MM.
	**RIVETER ATSRL4000HV** HYDRO-PNEUMATIC RIVETER FOR HIGH PERFORMANCE RIVETS, Ø 4,8 AND Ø 6,4 MM.
	**BATTERY-POWERED RIVETER ATSRL520** CORDLESS RIVETER POWERED BY A LITHIUM BATTERY, SUITABLE FOR SETTING RIVETS FROM Ø 2,4 TO Ø 6,4 IN ALL ALLOYS.
	**AUTOMATIC RIVETER** AUTOMATIC RIVETER SUITABLE FOR Ø 3,2 - 4,0 AND 4,8 RIVETS IN ALL ALLOYS.

A.T.S. S.n.c. was founded in 1983, initially as a technical support service in the spot-welding sector. Subsequently, in response to numerous customer requests, the company acquired a license to market welding systems and related spare parts. Today, A.T.S. S.r.l. with the support of skilled staff who regularly attend training and refresher courses, is a leading supplier of equipment and materials listed in its product data sheets as “standard” products. In addition, the company specializes in manufacturing custom parts to customer specifications, as well as any other items requested related to spot welding, stud welding and fastening. All equipment supplied is backed by support from specialized in-house technical staff who use certified instruments.

On 22/07/2002 the company achieved, with great satisfaction and pride, UNI EN ISO 9001:2000 quality management system certification, transitioning to the UNI EN ISO 9001:2008 standard on 01/07/2009 and subsequently to the news UNI EN ISO 9001:2015 standard on 03/04/2018.
The primary focus is on the costumer-on the ability to identify their needs and expectations- with the aim of meeting market expectations and striving to achieve set objectives through continuous improvement.

CONTACTS

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