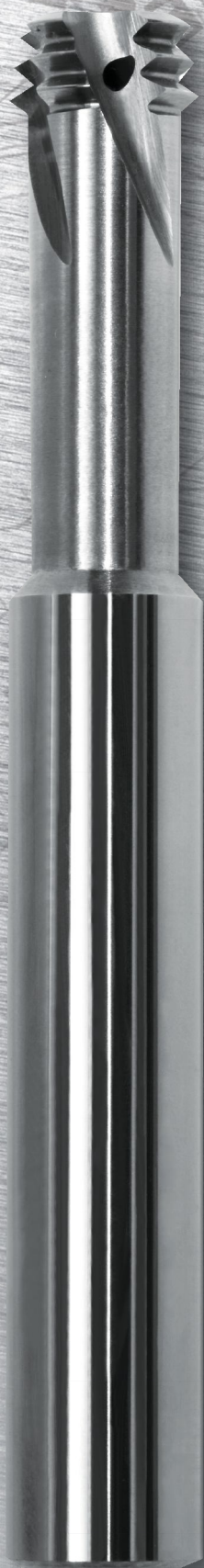


TECHNO THREAD
SX®



**XS
mini**

Velocità di taglio e avanzamenti

Cutting speed and feed advance

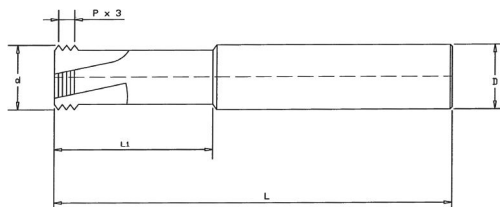
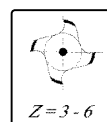
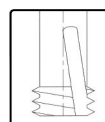
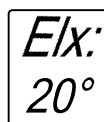
Materiale	Gruppo materiale						
		Non rivestita - Uncoated			Rivestita X-TOP - Coated X-TOP		
		Vc	Fz		Vc	Fz	
1	1.1 Acciaio Dolce Magnetico - Magnetic Soft Iron	80-120	0,015	0,05	100-150	0,03	0,1
	1.2 Acciaio da Costruzione - Structural Case Hardened Steel	80-120	0,015	0,05	100-150	0,03	0,1
	1.3 Acciaio al Carbonio - Carbon Steel	80-120	0,015	0,05	100-150	0,03	0,1
	1.4 Acciaio Legato - Alloy Steel	80-120	0,015	0,05	100-150	0,03	0,1
	1.5 Acciaio Legato Temprato - Alloy Heat Treated Steel	80-120	0,015	0,05	100-150	0,03	0,1
	1.6 Acciaio Legato Temprato - Alloy Heat Treated Steel						
	1.7 Acciaio Legato 45 HRC - Hardened Steel to 45 HRC						
	1.8 Acciaio Legato 58 HRC - Hardened Steel to 58 HRC						
2	2.1 Acciaio Inossidabile - Stainless steel						
	2.2 Austenico - Austenitic						
	2.3 Ferrico + Austenico - Ferritic Austenitic						
3	3.1 Ghisa lamellare - Grey Cast Iron	50-100	0,03	0,08	100-200	0,05	0,15
	3.2 Ghisa lamellare trattata - Grey Cast Iron heat treated	50-100	0,03	0,08	100-200	0,05	0,15
	3.3 Ghisa sferoidale - Spher Cast Iron	50-100	0,03	0,08	100-200	0,05	0,15
	3.4 Ghisa sferoidale trattata - Sphere Cast Iron heat treated	50-100	0,03	0,08	100-200	0,05	0,15
	3.5 Ghisa sferoidale trattata - Sphere Cast Iron heat treated	50-100	0,03	0,08	100-200	0,05	0,15
	3.6 Ghisa malleabile - Malleable Iron	50-100	0,03	0,08	100-200	0,05	0,15
	3.7 Ghisa Malleabile trattata - Malleable Iron treated	50-100	0,03	0,08	100-200	0,05	0,15
4	4.1 Titanio Non Legato - Pure Titanium						
	4.2 Titanio Legato - Titanium Alloys						
	4.3 Titanio Legato - Titanium Alloys						
5	5.1 Nichel non legato - Pure Nichel						
	5.2 Nichel legato - Nichel alloys heat resistant						
	5.3 Nichel legato - Nichel alloys high heat resistant						
6	6.1 Rame non legato - Non-alloy copper						
	6.2 Ottone, Bronzo - Short chip brass, bronze, red brass	50-100	0,03	0,08	100-200	0,05	0,15
	6.3 Ottone a truciolo lungo - long chip brass	50-100	0,03	0,08	100-200	0,05	0,15
	6.4 Bronzo alta resistenza - Cu-Al-Fe alloy (Ampco)						
7	7.1 Alluminio MG non legato - Alu MG Non Alloy	100-300	0,025	0,05	100-400	0,05	0,2
	7.2 Alluminio Legato ≤ 5% Si - Alu Cast Alloy Si ≤ 5%	100-300	0,025	0,05	100-400	0,05	0,2
	7.3 Alluminio Legato ≥ 5% ≤ 10 Si - Alu Cast Alloy Si ≥ 5% ≤ 10	100-300	0,025	0,05	100-400	0,05	0,2
	7.4 Alluminio Legato ≥ 10% Si - Alu Cast Alloy Si ≥ 10%	100-250	0,025	0,05	100-300	0,05	0,2
8	8.1 Termoplastici - Thermoplastics	50-100	0,025	0,05	100-200	0,05	0,2
	8.2 Plastiche termoindurenti - Thermosetting plastics	50-100	0,025	0,05	100-200	0,05	0,2
	8.3 Plastiche rinforzate - Fibre reinforced plastics	50-100	0,025	0,05	100-200	0,05	0,2

VC=Velocità di taglio in mm. Fz=Avanzamento al dente in mm.

VC=Cutting speed in mm. Fz=Milim feed in mm/tooth.



-  **Mini frese a filettare in metallo duro integrale, senza foro di lubrificazione.**
-  **Mini Solid carbide threading mill, without coolant hole.**



MA - Lunghezza 2 x Ø

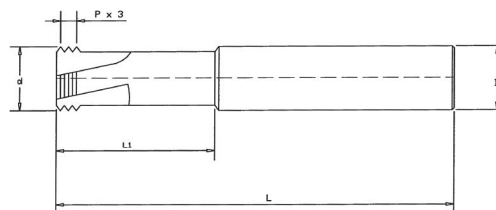
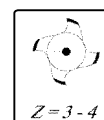
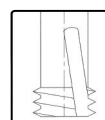
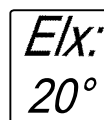
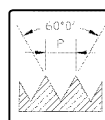
Filettatura	P	d	D	Lt	L1	Z	Non rivestita	Prezzo	Rivestita X-TOP	Prezzo
							Codice	€	Codice	€
M2x0,40	0,40	1,55	4	57	4,60	3	TTMSX20400000	70,00	TTMSX02040002	80,00
M2,2x0,45	0,45	1,72	4	57	5,10	3	TTMSX22450000	70,00	TTMSX22450002	80,00
M2,5x0,45	0,45	2,00	4	57	5,80	3	TTMSX25450000	70,00	TTMSX25450002	80,00
M3x0,50	0,50	2,70	6	57	6,50	3	TTMSX03050000	80,00	TTMSX03050002	85,00
M4x0.70	0.70	3.15	6	57	8.3	3	TTMSX04070000	80,00	TTMSX04070002	85,00
M5x0.80	0.80	4.05	6	57	10.4	3	TTMSX05080000	80,00	TTMSX05080002	85,00
M6x1.00	1.00	4.80	6	57	12.5	3	TTMSX06100000	80,00	TTMSX06100002	85,00
M8x1.25	1.25	6.50	8	63	16.6	3	TTMSX81250000	90,00	TTMSX81250002	100,00
M10x1.50	1.50	8.20	10	75	20.8	3	TTMSX10150000	110,00	TTMSX10150002	121,00
M12x1.75	1.75	9.90	10	75	25.0	3	TTMSX12175000	110,00	TTMSX12175002	121,00
M16x2,00	2.00	11,80	12	90	34,00	4	TTMSX16200000	130,00	TTMSX16200002	143,00
M20x2.50	2,50	15,00	16	120	43,00	5	TTMSX20250000	156,00	TTMSX20250002	174,00

MA - Lunghezza 3 x Ø

Filettatura	P	d	D	Lt	L1	Z	Non rivestita	Prezzo	Rivestita X-TOP	Prezzo
							Codice	€	Codice	€
M2x0,40	0,40	1,55	4	57	6,90	3	TTMSX02040001	70,00	TTMSX02040003	80,00
M2,2x0,45	0,45	1,72	4	57	7,65	3	TTMSX22450001	70,00	TTMSX22450003	80,00
M2,5x0,45	0,45	2,00	4	57	8,70	3	TTMSX25450001	70,00	TTMSX25450003	80,00
M3x0,50	0,50	2,70	6	57	9,50	3	TTMSX03050001	80,00	TTMSX03050003	85,00
M4x0.70	0.70	3.15	6	57	12.3	3	TTMSX04070001	80,00	TTMSX04070003	85,00
M5x0.80	0.80	4.05	6	57	15.4	3	TTMSX05080001	80,00	TTMSX05080003	85,00
M6x1.00	1.00	4.80	6	57	18.5	3	TTMSX06100001	80,00	TTMSX06100003	85,00
M8x1.25	1.25	6.50	8	63	24.6	3	TTMSX81250001	90,00	TTMSX81250003	100,00
M10x1.50	1.50	8.20	10	75	31,20	3	TTMSX10150001	110,00	TTMSX10150003	121,00
M12x1.75	1.75	9.90	10	80	37,50	3	TTMSX12175001	110,00	TTMSX12175003	121,00
M16x2,00	2,00	11,80	12	90	51,00	4	TTMSX16200001	130,00	TTMSX16200003	143,00
M20x2.50	2,50	15,00	16	120	64,50	5	TTMSX20250001	156,00	TTMSX20250003	174,00

Altri diametri e misure a richiesta Other size are available on request

-  Mini frese a filettare in metallo duro integrale, **senza foro di lubrificazione.**
-  Mini Solid carbide threading mill, **without coolant hole.**



GAS - Lunghezza 2 x Ø

Filettatura	fil x 1"	d	D	Lt	L1	Z	Non rivestita Codice	Prezzo €	Rivestita X-TOP Codice	Prezzo €
G 1/8	28"	7,80	8,00	63	19,50	3	TTMSX08285500	90,00	TTMSX08285502	100,00
G 1/4 - 3/8	19"	10,00	10,00	75	30,00	3	TTMSX10195500	110,00	TTMSX10195502	121,00
G 1/2 - 3/8	14"	12,00	12,00	90	37,00	3	TTMSX12145500	130,00	TTMSX12145502	143,00
G > 1	11"	16,00	16,00	120	44,00	3	TTMSX16115500	156,00	TTMSX16115502	174,00

GAS - Lunghezza 3 x Ø

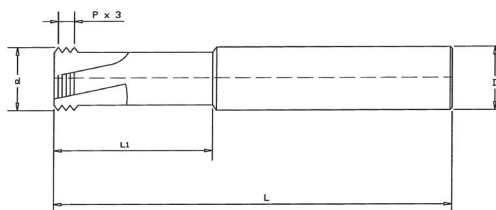
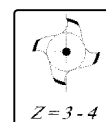
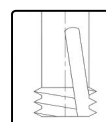
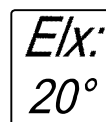
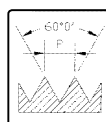
Filettatura	fil x 1"	d	D	Lt	L1	Z	Non rivestita Codice	Prezzo €	Rivestita X-TOP Codice	Prezzo €
G 1/8	28"	7,80	8,00	63	29,30	3	TTMSX08285501	90,00	TTMSX08285503	100,00
G 1/4 - 3/8	19"	10,00	10,00	75	45,00	3	TTMSX10195501	110,00	TTMSX10195503	121,00
G 1/2 - 3/8	14"	12,00	12,00	90	55,50	3	TTMSX12145501	130,00	TTMSX12145503	143,00
G > 1	11"	16,00	16,00	120	66,00	3	TTMSX16115501	156,00	TTMSX16115503	174,00

Altri diametri e misure a richiesta Other size are available on request



 **Mini frese a filettare in metallo duro integrale,
senza foro di lubrificazione.**

 **Mini Solid carbide threading mill,
without coolant hole.**



UNC - Lunghezza 2 x Ø - Z=3

Filettatura	filx1"	d	D	Lt	L1	Z	Non rivestita Codice	Prezzo €	Rivestita X-TOP Codice	Prezzo €
10-32"	32"	3,10	6	57	9,6	3	TTMSX132UN000	80,00	TTMSX132UN002	87,00
10-24"	24"	3,58	6	57	10,2	3	TTMSX1UNC0000	80,00	TTMSX1UNC0002	87,00
1/4-20"	20"	4,88	6	57	13,4	3	TTMSX1/4UNC00	80,00	TTMSX1/4UNC02	87,00
5/16-18"	18"	6,00	6	57	17,0	3	TTMSX5/16UNC0	80,00	TTMSX5/16UNC2	87,00
3/8-16"	16"	6,70	8	63	22,0	3	TTMSX3/8UNC00	91,00	TTMSX3/8UNC02	97,00
7/16-14"	14"	7,70	8	63	25,0	3	TTMSX716UNC00	91,00	TTMSX716UNC02	97,00
1/2-13"	13"	9,20	10	75	27,5	3	TTMSX1/2UNC00	110,00	TTMSX1/2UNC02	122,00
9/16-12"	12"	10,50	12	90	31,5	3	TTMSX916UNC00	132,00	TTMSX916UNC02	153,00
5/8-11"	11"	11,40	12	90	34,5	3	TTMSX5/8UNC00	132,00	TTMSX5/8UNC02	153,00
3/4-10"	10"	14,40	16	120	41,5	4	TTMSX3/4UNC00	156,00	TTMSX3/4UNC02	186,00

UNC - Lunghezza 3 x Ø - Z=3

Filettatura	filx1"	d	D	Lt	L1	Z	Non rivestita Codice	Prezzo €	Rivestita X-TOP Codice	Prezzo €
10-32"	32"	3,10	6	57	14,4	3	TTMSX132UN001	80,00	TTMSX132UN003	87,00
10-24"	24"	3,58	6	57	15,3	3	TTMSX1UNC0001	80,00	TTMSX1UNC0003	87,00
1/4-20"	20"	4,88	6	57	20,1	3	TTMSX1/4UNC01	80,00	TTMSX1/4UNC03	87,00
5/16-18"	18"	6,00	6	57	25,5	3	TTMSX5/16UNC1	80,00	TTMSX5/16UNC3	87,00
3/8-16"	16"	6,70	8	63	33,0	3	TTMSX3/8UNC01	91,00	TTMSX3/8UNC03	97,00
7/16-14"	14"	9,00	10	75	34,95	3	TTMSX716UNC01	91,00	TTMSX716UNC03	97,00
1/2-13"	13"	9,20	10	75	41,25	3	TTMSX1/2UNC01	110,00	TTMSX1/2UNC03	122,00
9/16-12"	12"	10,50	12	90	47,3	3	TTMSX916UNC01	132,00	TTMSX916UNC03	153,00
5/8-11"	11"	11,40	12	90	51,8	3	TTMSX5/8UNC01	132,00	TTMSX5/8UNC03	153,00
3/4-10"	10"	14,40	16	120	62,3	4	TTMSX3/4UNC01	156,00	TTMSX3/4UNC03	186,00

UNF - Lunghezza 2 x Ø - Z=3

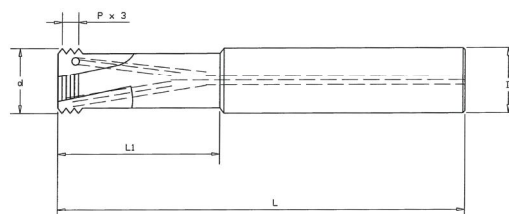
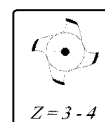
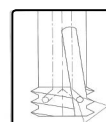
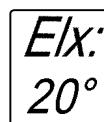
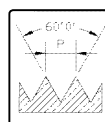
Filettatura	filx1"	d	D	Lt	L1	Z	Non rivestita Codice	Prezzo €	Rivestita X-TOP Codice	Prezzo €
8-32"	32"	3,10	6	57	9,6	3	TTMSX832UNF00	80,00	TTMSX832UNF02	87,00
1/4-28"	28"	5,25	6	57	19,6	3	TTMSX1/4UNF00	80,00	TTMSX1/4UNF02	87,00
5/16-24"	24"	6,68	8	63	24,5	3	TTMSX516UNF00	91,00	TTMSX516UNF02	97,00
7/16-20"	20"	9,55	10	75	28,5	3	TTMSX716UNF00	110,00	TTMSX716UNF02	122,00
5/8-18"	18"	12,00	12	90	35,00	3	TTMSX5/8UNF00	132,00	TTMSX5/8UNF02	153,00

UNF - Lunghezza 3 x Ø - Z=3

Filettatura	filx1"	d	D	Lt	L1	Z	Non rivestita Codice	Prezzo €	Rivestita X-TOP Codice	Prezzo €
8-32"	32"	3,10	6	57	14,40	3	TTMSX832UNF01	80,00	TTMSX832UNF03	87,00
1/4-28"	28"	5,25	6	57	29,40	3	TTMSX1/4UNF01	80,00	TTMSX1/4UNF03	87,00
5/16-24"	24"	6,68	8	63	36,75	3	TTMSX516UNF01	91,00	TTMSX516UNF03	97,00
7/16-20"	20"	9,55	10	75	42,75	3	TTMSX716UNF01	110,00	TTMSX716UNF03	122,00
5/8-18"	18"	12,00	12	90	52,50	3	TTMSX5/8UNF01	132,00	TTMSX5/8UNF03	153,00

Altri diametri e misure a richiesta Other size are available on request

-  Mini frese a filettare in metallo duro integrale,
con fori di lubrificazione laterali.
-  Mini solid carbide treading mill,
with lateral coolant holes.



MA - Lunghezza 2 x Ø

Filettatura	P	d	D	Lt	L1	Z	Non rivestita Codice	Prezzo €	Rivestita X-TOP Codice	Prezzo €
M8x1.25	1.25	6.50	8	63	16.6	3	TTMSX08125006	134,00	TTMSX08125007	151,00
M10x1.50	1.50	8.20	10	75	20.8	3	TTMSX10150006	148,00	TTMSX10150007	163,00
M12x1.75	1.75	9.90	10	75	25.0	3	TTMSX12175006	148,00	TTMSX12175007	163,00
M16x2,00	2,00	11,80	12	90	34,00	4	TTMSX16200006	156,00	TTMSX16200007	204,00
M20x2.50	2,50	15,00	16	120	43,00	5	TTMSX20250006	180,00	TTMSX20250007	229,00

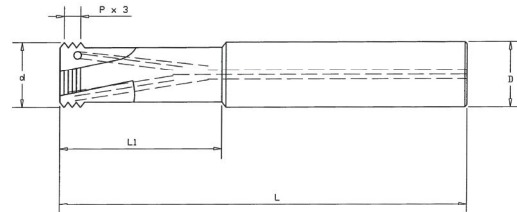
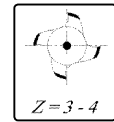
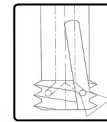
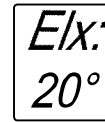
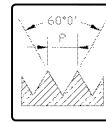
MA - Lunghezza 3 x Ø

Filettatura	P	d	D	Lt	L1	Z	Non rivestita Codice	Prezzo €	Rivestita X-TOP Codice	Prezzo €
M8x1.25	1.25	6.50	8	63	24.6	3	TTMSX08125008	134,00	TTMSX08125009	151,00
M10x1.50	1.50	8.20	10	75	31,20	3	TTMSX10150008	148,00	TTMSX10150009	163,00
M12x1.75	1.75	9.90	10	75	37,50	3	TTMSX12175008	148,00	TTMSX12175009	163,00
M16x2,00	2,00	11,80	12	90	51,00	4	TTMSX16200008	156,00	TTMSX16200009	204,00
M20x2.50	2,50	15,00	16	120	64,50	5	TTMSX20250008	180,00	TTMSX20250009	229,00

Altri diametri e misure a richiesta Other size are available on request



- Mini frese a filettare in metallo duro integrale, con fori di lubrificazione laterali.
- Mini solid carbide treading mill, with lateral coolant holes.



GAS - Lunghezza 2 x Ø

Filettatura	fil x 1"	d	D	Lt	L1	Z	Non rivestita Codice	Prezzo €	Rivestita X-TOP Codice	Prezzo €
G 1/8	28"	7,80	8,00	63	19,50	3	TTMSX82855006	120,00	TTMSX82855007	134,00
G 1/4 - 3/8	19"	10,00	10,00	75	30,00	3	TTMSX10195506	148,00	TTMSX10195507	163,00
G 1/2 - 3/8	14"	12,00	12,00	90	37,00	3	TTMSX12145506	157,00	TTMSX12145507	173,00
G > 1	11"	16,00	16,00	120	44,00	3	TTMSX16115506	170,00	TTMSX16115507	194,00

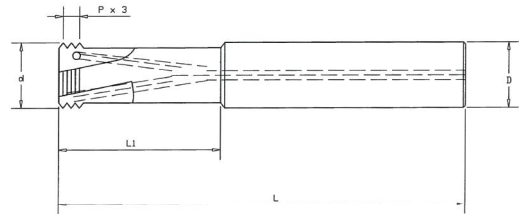
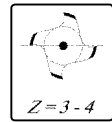
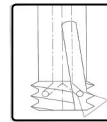
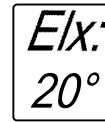
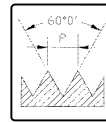
GAS - Lunghezza 3 x Ø

Filettatura	fil x 1"	d	D	Lt	L1	Z	Non rivestita Codice	Prezzo €	Rivestita X-TOP Codice	Prezzo €
G 1/8	28"	7,80	8,00	63	29,30	3	TTMSX82855008	120,00	TTMSX82855009	134,00
G 1/4 - 3/8	19"	10,00	10,00	75	45,00	3	TTMSX10195508	148,00	TTMSX10195509	163,00
G 1/2 - 3/8	14"	12,00	12,00	90	55,50	3	TTMSX12145508	157,00	TTMSX12145509	173,00
G > 1	11"	16,00	16,00	120	66,00	3	TTMSX16115508	170,00	TTMSX16115509	194,00

Altri diametri e misure a richiesta Other size are available on request



- Mini frese a filettare in metallo duro integrale,
con fori di lubrificazione laterali.
- Mini solid carbide treading mill,
with lateral coolant holes.



UNC - Lunghezza 2 x Ø - Z=3

Filettatura	fil x 1"	d	D	Lt	L1	Z	Non rivestita Codice	Prezzo €	Rivestita X-TOP Codice	Prezzo €
5/16-18"	18"	6,00	6	57	17,0	3	TTMSX5/16UNC6	108,00	TTMSX5/16UNC7	120,00
3/8-16"	16"	6,70	8	63	22,0	3	TTMSX3/8UNC06	134,00	TTMSX3/8UNC07	150,00
7/16-14"	14"	7,70	8	63	25,0	3	TTMSX716UNC06	134,00	TTMSX716UNC07	150,00
1/2-13"	13"	9,20	10	75	27,5	3	TTMSX1/2UNC06	148,00	TTMSX1/2UNC07	163,00
9/16-12"	12"	10,50	12	90	31,5	3	TTMSX916UNC06	157,00	TTMSX916UNC07	173,00
5/8-11"	11"	11,40	12	90	34,5	3	TTMSX5/8UNC06	157,00	TTMSX5/8UNC07	173,00
3/4-10"	10"	14,40	16	120	41,5	4	TTMSX3/4UNC06	170,00	TTMSX3/4UNC07	194,00

UNC - Lunghezza 3 x Ø - Z=3

Filettatura	fil x 1"	d	D	Lt	L1	Z	Non rivestita Codice	Prezzo €	Rivestita X-TOP Codice	Prezzo €
5/16-18"	18"	6,00	6	57	25,5	3	TTMSX5/16UNC8	108,00	TTMSX5/16UNC9	120,00
3/8-16"	16"	6,70	8	63	33,0	3	TTMSX3/8UNC08	134,00	TTMSX3/8UNC09	150,00
7/16-14"	14"	9,00	10	75	34,95	3	TTMSX716UNC08	134,00	TTMSX716UNC09	150,00
1/2-13"	13"	9,20	10	75	41,25	3	TTMSX1/2UNC08	148,00	TTMSX1/2UNC09	163,00
9/16-12"	12"	10,50	12	90	47,3	3	TTMSX916UNC08	157,00	TTMSX916UNC09	173,00
5/8-11"	11"	11,40	12	90	51,8	3	TTMSX5/8UNC08	157,00	TTMSX5/8UNC09	173,00
3/4-10"	10"	14,40	16	120	62,3	4	TTMSX3/4UNC08	170,00	TTMSX3/4UNC09	194,00

UNF - Lunghezza 2 x Ø - Z=3

Filettatura	fil x 1"	d	D	Lt	L1	Z	Non rivestita Codice	Prezzo €	Rivestita X-TOP Codice	Prezzo €
1/4-28"	28"	5,25	6	57	19,6	3	TTMSX1/4UNF06	109,00	TTMSX1/4UNF07	120,00
5/16-24"	24"	6,68	8	63	24,5	3	TTMSX516UNF06	134,00	TTMSX516UNF07	150,00
7/16-20"	20"	9,55	10	75	28,5	3	TTMSX716UNF06	148,00	TTMSX716UNF07	163,00
5/8-18"	18"	12,00	12	90	35,00	3	TTMSX5/8UNF06	157,00	TTMSX5/8UNF07	173,00

UNF - Lunghezza 3 x Ø - Z=3

Filettatura	fil x 1"	d	D	Lt	L1	Z	Non rivestita Codice	Prezzo €	Rivestita X-TOP Codice	Prezzo €
1/4-28"	28"	5,25	6	57	29,40	3	TTMSX1/4UNF08	109,00	TTMSX1/4UNF09	120,00
5/16-24"	24"	6,68	8	63	36,75	3	TTMSX516UNF08	134,00	TTMSX516UNF09	150,00
7/16-20"	20"	9,55	10	75	42,75	3	TTMSX716UNF08	148,00	TTMSX716UNF09	163,00
5/8-18"	18"	12,00	12	90	52,50	3	TTMSX5/8UNF08	157,00	TTMSX5/8UNF09	173,00

Altri diametri e misure a richiesta Other size are available on request