

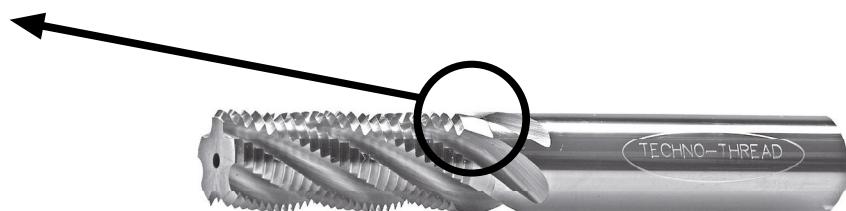
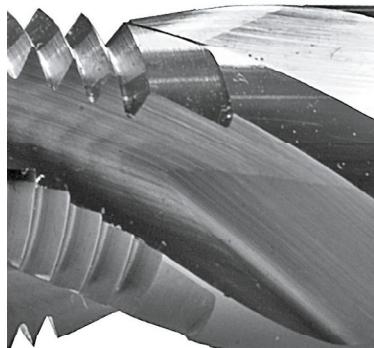
**TECHNO THREAD**  
**HPT<sup>®</sup>**



**TIPPOVON  
GEMEINSAM**

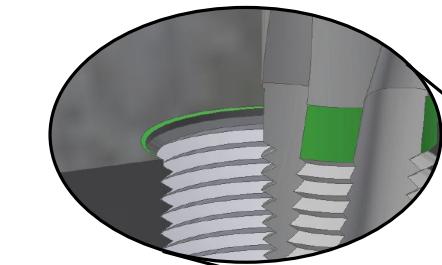
## Scarico radiale

*Deburrer to remove incomplete*

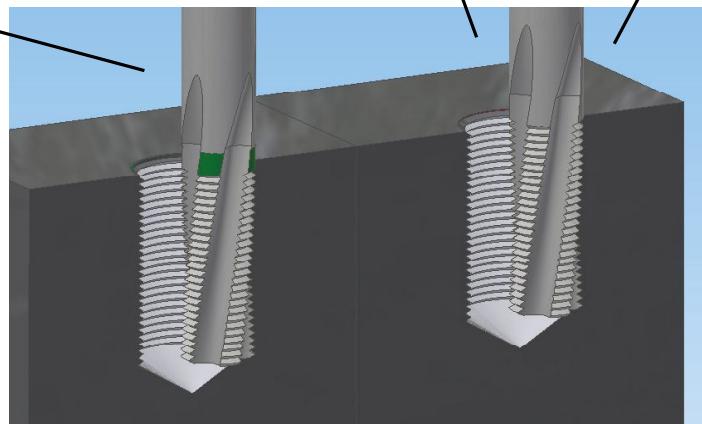
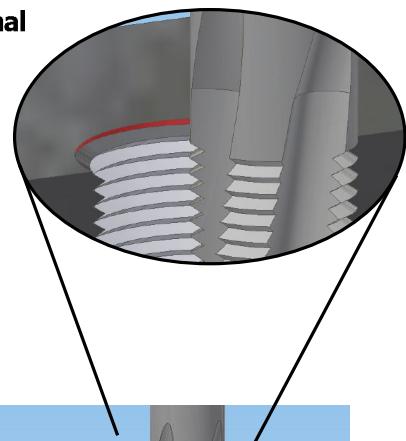


 Viene realizzato alla fine della parte filettante. Elimina il filetto incompleto, e la bava all'uscita del filetto.  
 Made at the end of the threading, by the shank side. It removes the incomplete thread with its burr.

 Senza Scarico Radiale  
 Conventional



 Con Scarico Radiale  
 With Deburrer



# Velocità di taglio e avanzamenti

## Cutting speed and feed advance

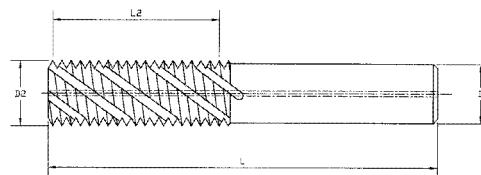
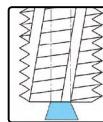
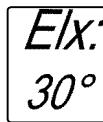
							
		Non rivestita - Uncoated			Rivestita X-TOP - Coated X-TOP		
Gruppo materiale		Vc	Fz		Vc	Fz	
1	1.1 Acciaio Dolce Magnetico - Magnetic Soft Iron	40-80	0,04	0,10	70-140	0,04	0,10
	1.2 Acciaio da Costruzione - Structural Case Hardened Steel	40-80	0,04	0,10	70-140	0,04	0,10
	1.3 Acciaio al Carbonio - Carbon Steel	30-60	0,03	0,08	50-100	0,03	0,08
	1.4 Acciaio Legato - Alloy Steel	30-60	0,03	0,08	40-80	0,03	0,08
	1.5 Acciaio Legato Temprato - Alloy Heat Treated Steel	20-40	0,02	0,08	40-80	0,02	0,08
	1.6 Acciaio Legato Temprato - Alloy Heat Treated Steel	20-40	0,02	0,05	40-80	0,02	0,05
	1.7 Acciaio Legato 45 HRC - Hardened Steel to 45 HRC	20-40	0,02	0,05	40-80	0,02	0,05
	1.8 Acciaio Legato 58 HRC - Hardened Steel to 58 HRC	20-40	0,02	0,05	40-80	0,02	0,05
2	2.1 Acciaio Inossidabile - Stainless steel	20-40	0,02	0,05	40-60	0,02	0,05
	2.2 Austenico - Austenitic	20-30	0,02	0,05	30-40	0,02	0,05
	2.3 Ferrico + Austenico - Ferritic Austenitic	20-30	0,02	0,05	30-40	0,02	0,05
3	3.1 Ghisa lamellare - Grey Cast Iron	70-100	0,04	0,10	80-150	0,04	0,10
	3.2 Ghisa lamellare trattata - Grey Cast iron heat treated	70-100	0,04	0,10	80-150	0,04	0,10
	3.3 Ghisa sferoidale - Spher Cast Iron	70-100	0,04	0,10	80-120	0,04	0,10
	3.4 Ghisa sferoidale trattata - Sphere Cast Iron heat treated	60-80	0,03	0,08	70-100	0,03	0,08
	3.5 Ghisa sferoidale trattata - Sphere Cast Iron heat treated	60-80	0,03	0,08	70-100	0,03	0,08
	3.6 Ghisa malleabile - Malleable Iron	60-80	0,03	0,08	70-100	0,03	0,08
	3.7 Ghisa Malleabile trattata - Malleable Iron treated	60-80	0,03	0,08	70-100	0,03	0,08
4	4.1 Titanio Non Legato - Pure Titanium	30-50	0,03	0,10	40-80	0,03	0,10
	4.2 Titanio Legato - Titanium Alloys	20-40	0,03	0,08	30-70	0,03	0,08
	4.3 Titanio Legato - Titanium Alloys	20-40	0,03	0,08	30-70	0,03	0,08
5	5.1 Nichel non legato - Pure Nickel	30-50	0,02	0,08	40-80	0,02	0,08
	5.2 Nichel legato - Nickel alloys heat resistant	20-40	0,02	0,08	30-60	0,02	0,08
	5.3 Nichel legato - Nickel alloys high heat resistant	15-25	0,02	0,08	20-40	0,02	0,08
6	6.1 Rame non legato - Non-alloy copper	100-200	0,05	0,12	140-300	0,05	0,12
	6.2 Ottone, Bronzo - Short chip brass, bronze, red brass	100-200	0,05	0,12	140-300	0,05	0,12
	6.3 Ottone a truciolo lungo - long chip brass	100-200	0,05	0,14	140-400	0,05	0,14
	6.4 Bronzo alta resistenza - Cu-Al-Fe alloy (Ampco)	70-120	0,04	0,10	100-200	0,04	0,10
7	7.1 Allumino MG non legato - Alu MG Non Alloy	100-300	0,03	0,12	100-400	0,03	0,12
	7.2 Alluminio Legato ≤ 5% Si - Alu Cast Alloy Si ≤ 5%	100-300	0,03	0,12	100-400	0,03	0,12
	7.3 Alluminio Legato > 5% < 10% Si - Alu Cast Alloy Si > 5% < 10%	100-250	0,03	0,12	100-350	0,03	0,12
	7.4 Alluminio Legato ≥ 10% Si - Alu Cast Alloy Si ≥ 10%	80-200	0,03	0,10	80-250	0,03	0,10
8	6.1 Termoplastici - Thermoplastics	80-100	0,04	0,10	90-120	0,04	0,10
	6.2 Plastiche termoidurenti - Thermosettings plastics	80-100	0,04	0,10	90-120	0,04	0,10
	6.3 Plastiche rinforzate - Fibre reinforced plastics	40-60	0,04	0,10	60-80	0,04	0,10

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

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

**ITALY** Fresa a filettare in metallo duro integrale,  
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del filetto incompleto.

**ENGLAND** Solid carbide threading mill, with central coolant hole,  
for high productions, vibration damper,  
with deburrer to remove first incomplete thread



## ISO

<b>Pmm</b>	<b>D2</b>	<b>D</b>	<b>L</b>	<b>L2</b>	<b>Z</b>	<b>Zt</b>	<b>Non rivestita</b>	<b>Prezzo</b>	<b>Rivestita X-TOP</b>	<b>Prezzo</b>
							<b>Codice</b>	<b>€</b>	<b>Codice</b>	<b>€</b>
0.80	<b>4</b>	6	72	6,40	3	9	TTEMG04080001	<b>107,00</b>	TTEMG04080003	<b>118,00</b>
1.00	<b>4.8</b>	6	72	8,00	3	9	TTEMG04810001	<b>107,00</b>	TTEMG04810003	<b>118,00</b>
1.00	<b>6</b>	6	72	8,00	3	9	TTEMG06100001	<b>106,00</b>	TTEMG06100003	<b>116,00</b>
1.00	<b>8</b>	8	71	12,00	3	13	TTEMG08100001	<b>120,00</b>	TTEMG08100003	<b>133,00</b>
1.00	<b>10</b>	10	75	16,00	4	17	TTEMG10100001	<b>146,00</b>	TTEMG10100003	<b>162,00</b>
1.00	<b>12</b>	12	78	20,00	4	21	TTEMG12100001	<b>195,00</b>	TTEMG12100003	<b>218,00</b>
1.00	<b>14</b>	14	93	22,00	5	23	TTEMG14100001	<b>233,00</b>	TTEMG14100003	<b>260,00</b>
1.00	<b>16</b>	16	92	25,00	5	26	TTEMG16100001	<b>271,00</b>	TTEMG16100003	<b>299,00</b>
1.00	<b>20</b>	20	94	32,00	5	33	TTEMG20100001	<b>336,00</b>	TTEMG20100003	<b>375,00</b>
1.25	<b>6</b>	6	72	7,50	3	7	TTEMG06125001	<b>107,00</b>	TTEMG06125003	<b>118,00</b>
1.25	<b>8</b>	8	71	12,50	3	11	TTEMG08125001	<b>120,00</b>	TTEMG08125003	<b>132,00</b>
1.25	<b>10</b>	10	75	16,25	4	14	TTEMG10125001	<b>146,00</b>	TTEMG10125003	<b>162,00</b>
1.50	<b>6</b>	6	72	7,50	3	6	TTEMG06150001	<b>102,00</b>	TTEMG06150003	<b>114,00</b>
1.50	<b>8</b>	8	70	12,00	3	9	TTEMG08150001	<b>116,00</b>	TTEMG08150003	<b>130,00</b>
1.50	<b>10</b>	10	75	15,00	4	11	TTEMG10150001	<b>141,00</b>	TTEMG10150003	<b>155,00</b>
1.50	<b>12</b>	12	79	19,50	4	14	TTEMG12150001	<b>195,00</b>	TTEMG12150003	<b>217,00</b>
1.50	<b>14</b>	14	92	21,00	5	15	TTEMG14150001	<b>233,00</b>	TTEMG14150003	<b>260,00</b>
1.50	<b>16</b>	16	92	24,00	5	17	TTEMG16150001	<b>270,00</b>	TTEMG16150003	<b>299,00</b>
1.50	<b>20</b>	20	94	31,50	5	22	TTEMG20150001	<b>336,00</b>	TTEMG20150003	<b>375,00</b>
1.75	<b>8</b>	8	71	12,25	3	8	TTEMG08175001	<b>116,00</b>	TTEMG08175003	<b>130,00</b>
2.00	<b>8</b>	8	71	12,00	3	7	TTEMG08200001	<b>116,00</b>	TTEMG08200003	<b>130,00</b>
2.00	<b>10</b>	10	74	16,00	4	9	TTEMG10200001	<b>141,00</b>	TTEMG10200003	<b>155,00</b>
2.00	<b>12</b>	12	79	20,00	4	11	TTEMG12200001	<b>187,00</b>	TTEMG12200003	<b>209,00</b>
2.00	<b>14</b>	14	92	22,00	5	12	TTEMG14200001	<b>225,00</b>	TTEMG14200003	<b>250,00</b>
2.00	<b>16</b>	16	92	24,00	5	13	TTEMG16200001	<b>259,00</b>	TTEMG16200003	<b>288,00</b>
2.00	<b>20</b>	20	95	32,00	5	17	TTEMG20200001	<b>336,00</b>	TTEMG20200003	<b>375,00</b>
2.50	<b>14</b>	14	92	22,50	5	10	TTEMG14250001	<b>225,00</b>	TTEMG14250003	<b>250,00</b>
2.50	<b>16</b>	16	92	25,00	5	11	TTEMG16250001	<b>259,00</b>	TTEMG16250003	<b>288,00</b>
3.00	<b>16</b>	16	91	24,00	5	9	TTEMG16300001	<b>249,00</b>	TTEMG16300003	<b>276,00</b>
3.00	<b>20</b>	20	96	30,00	5	11	TTEMG20300001	<b>323,00</b>	TTEMG20300003	<b>359,00</b>
3.50	<b>20</b>	20	94	31,50	5	10	TTEMG20350001	<b>312,00</b>	TTEMG20350003	<b>347,00</b>

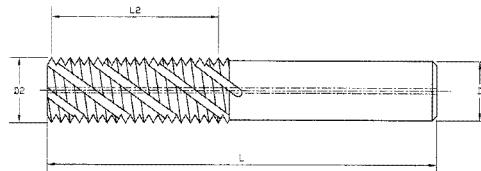
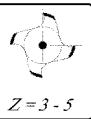
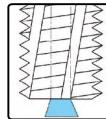
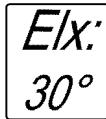
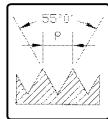
Nota: **Z** = numero dei taglienti - **Zt** = numero di creste utili per singolo tagliente

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



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## GAS

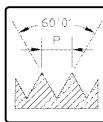
filx1"	D2	D	L	L2	Z	Zt	Non rivestita		Rivestita X-TOP	
							Codice	Prezzo	Codice	Prezzo
28	6	6	72	8,16	3	10	TTEMG06285501	<b>104,00</b>	TTEMG06285503	<b>118,00</b>
19	8	8	71	12,033	3	10	TTEMG08195501	<b>116,00</b>	TTEMG08195503	<b>133,00</b>
19	10	10	74	16,043	4	13	TTEMG10195501	<b>141,00</b>	TTEMG10195503	<b>162,00</b>
19	12	12	78	20,053	4	16	TTEMG12195501	<b>189,00</b>	TTEMG12195503	<b>218,00</b>
19	14	14	93	21,392	5	17	TTEMG14195501	<b>226,00</b>	TTEMG14195503	<b>260,00</b>
14	12	12	77	19,954	4	12	TTEMG12145501	<b>189,00</b>	TTEMG12145503	<b>219,00</b>
14	14	14	92	21,768	5	13	TTEMG14145501	<b>226,00</b>	TTEMG14145503	<b>260,00</b>
14	16	16	90	25,396	5	15	TTEMG16145501	<b>260,00</b>	TTEMG16145503	<b>299,00</b>
14	20	20	94	30,832	5	18	TTEMG20145501	<b>326,00</b>	TTEMG20145503	<b>375,00</b>
11	20	20	93	32,321	5	15	TTEMG20115501	<b>326,00</b>	TTEMG20115503	<b>375,00</b>

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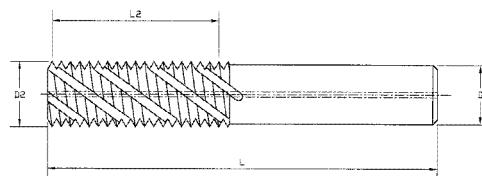
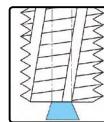
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**E/x:**  
**30°**



## UN

filx1"	D2	D	L	L2	Z	Zt	Non rivestita		Prezzo	Rivestita X-TOP		Prezzo
							Codice	€		Codice	€	
28	4	6	73	6,35	3	8	TTEMG04286001	<b>107,00</b>	TTEMG04286003	<b>118,00</b>		
27	6	6	72	7,53	3	9	TTEMG06276001	<b>107,00</b>	TTEMG06276003	<b>118,00</b>		
24	6	6	71	8,47	3	9	TTEMG06246001	<b>107,00</b>	TTEMG06246003	<b>118,00</b>		
20	4	6	72	6,35	3	6	TTEMG04206001	<b>107,00</b>	TTEMG04206003	<b>118,00</b>		
20	8	8	71	11,43	3	10	TTEMG08206001	<b>120,00</b>	TTEMG08206003	<b>133,00</b>		
18	4.8	6	73	5,64	3	5	TTEMG48186001	<b>102,00</b>	TTEMG48186003	<b>114,00</b>		
18	10	10	74	15,52	4	12	TTEMG10186001	<b>146,00</b>	TTEMG10186003	<b>162,00</b>		
18	12	12	77	19,76	4	15	TTEMG12186001	<b>195,00</b>	TTEMG12186003	<b>217,00</b>		
16	6	6	71	7,94	3	6	TTEMG06166001	<b>102,00</b>	TTEMG06166003	<b>114,00</b>		
16	12	12	78	19,05	4	13	TTEMG12166001	<b>195,00</b>	TTEMG12166003	<b>217,00</b>		
16	14	14	92	22,22	5	15	TTEMG14166001	<b>233,00</b>	TTEMG14166003	<b>260,00</b>		
13	8	8	71	11,72	3	7	TTEMG08136001	<b>116,00</b>	TTEMG08136003	<b>130,00</b>		
14	8	8	71	12,70	3	8	TTEMG08146001	<b>116,00</b>	TTEMG08146003	<b>130,00</b>		
14	16	16	92	23,59	5	14	TTEMG16146001	<b>270,00</b>	TTEMG16146003	<b>299,00</b>		
12	10	10	75	14,82	4	8	TTEMG10126001	<b>141,00</b>	TTEMG10126003	<b>155,00</b>		
12	16	16	91	23,28	5	12	TTEMG16126001	<b>270,00</b>	TTEMG16126003	<b>299,00</b>		
12	20	20	94	31,75	5	16	TTEMG20126001	<b>336,00</b>	TTEMG20126003	<b>373,00</b>		
11	10	10	75	16,16	4	8	TTEMG10116001	<b>141,00</b>	TTEMG10116003	<b>155,00</b>		
10	12	12	79	17,78	4	8	TTEMG12106001	<b>187,00</b>	TTEMG12106003	<b>209,00</b>		
10	14	14	92	20,32	5	9	TTEMG14106001	<b>234,00</b>	TTEMG14106003	<b>250,00</b>		
9	16	16	91	22,58	5	9	TTEMG16096001	<b>259,00</b>	TTEMG16096003	<b>296,00</b>		
8	16	16	90	25,40	5	9	TTEMG16086001	<b>259,00</b>	TTEMG16086003	<b>288,00</b>		
8	20	20	95	31,75	5	11	TTEMG20086001	<b>323,00</b>	TTEMG20086003	<b>359,00</b>		
7	20	20	94	29,03	5	9	TTEMG20076001	<b>323,00</b>	TTEMG20076003	<b>359,00</b>		

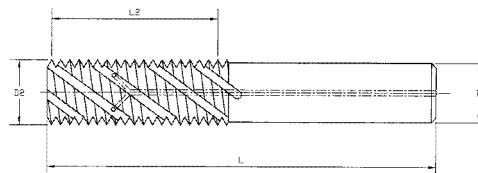
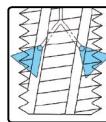
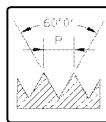
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## ISO

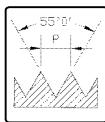
<b>Pmm</b>	<b>D2</b>	<b>D</b>	<b>L</b>	<b>L2</b>	<b>Z</b>	<b>Zt</b>	<b>Non rivestita</b>	<b>Prezzo</b>	<b>Rivestita X-TOP</b>	<b>Prezzo</b>
							<b>Codice</b>	<b>€</b>	<b>Codice</b>	<b>€</b>
1.00	<b>6</b>	6	72	8,00	3	9	TTEMG06100011	<b>131,00</b>	TTEMG06100013	<b>147,00</b>
1.00	<b>8</b>	8	71	12,00	3	13	TTEMG08100011	<b>151,00</b>	TTEMG08100013	<b>168,00</b>
1.00	<b>10</b>	10	75	16,00	4	17	TTEMG10100011	<b>183,00</b>	TTEMG10100013	<b>204,00</b>
1.00	<b>12</b>	12	78	20,00	4	21	TTEMG12100011	<b>246,00</b>	TTEMG12100013	<b>274,00</b>
1.00	<b>14</b>	14	93	22,00	5	23	TTEMG14100011	<b>291,00</b>	TTEMG14100013	<b>323,00</b>
1.00	<b>16</b>	16	92	25,00	5	26	TTEMG16100011	<b>344,00</b>	TTEMG16100013	<b>383,00</b>
1.00	<b>20</b>	20	94	32,00	5	33	TTEMG20100011	<b>420,00</b>	TTEMG20100013	<b>467,00</b>
1.25	<b>6</b>	6	72	7,50	3	7	TTEMG06125011	<b>131,00</b>	TTEMG06125013	<b>147,00</b>
1.25	<b>8</b>	8	71	12,50	3	11	TTEMG08125011	<b>151,00</b>	TTEMG08125013	<b>168,00</b>
1.25	<b>10</b>	10	75	16,25	4	14	TTEMG10125011	<b>183,00</b>	TTEMG10125013	<b>204,00</b>
1.50	<b>6</b>	6	72	7,50	3	6	TTEMG06150011	<b>128,00</b>	TTEMG06150013	<b>142,00</b>
1.50	<b>8</b>	8	70	12,00	3	9	TTEMG08150011	<b>144,00</b>	TTEMG08150013	<b>161,00</b>
1.50	<b>10</b>	10	75	15,00	4	11	TTEMG10150011	<b>176,00</b>	TTEMG10150013	<b>194,00</b>
1.50	<b>12</b>	12	79	19,50	4	14	TTEMG12150011	<b>236,00</b>	TTEMG12150013	<b>272,00</b>
1.50	<b>14</b>	14	92	21,00	5	15	TTEMG14150011	<b>280,00</b>	TTEMG14150013	<b>312,00</b>
1.50	<b>16</b>	16	92	24,00	5	17	TTEMG16150011	<b>329,00</b>	TTEMG16150013	<b>366,00</b>
1.50	<b>20</b>	20	94	31,50	5	22	TTEMG20150011	<b>404,00</b>	TTEMG20150013	<b>449,00</b>
1.75	<b>8</b>	8	71	12,25	3	8	TTEMG08175011	<b>144,00</b>	TTEMG08175013	<b>161,00</b>
2.00	<b>8</b>	8	71	12,00	3	7	TTEMG08200011	<b>144,00</b>	TTEMG08200013	<b>161,00</b>
2.00	<b>10</b>	10	74	16,00	4	9	TTEMG10200011	<b>176,00</b>	TTEMG10200013	<b>194,00</b>
2.00	<b>12</b>	12	79	20,00	4	11	TTEMG12200011	<b>236,00</b>	TTEMG12200013	<b>271,00</b>
2.00	<b>14</b>	14	92	22,00	5	12	TTEMG14200011	<b>280,00</b>	TTEMG14200013	<b>312,00</b>
2.00	<b>16</b>	16	92	24,00	5	13	TTEMG16200011	<b>329,00</b>	TTEMG16200013	<b>366,00</b>
2.00	<b>20</b>	20	95	32,00	5	17	TTEMG20200011	<b>404,00</b>	TTEMG20200013	<b>449,00</b>
2.50	<b>14</b>	14	92	22,50	5	10	TTEMG14250011	<b>270,00</b>	TTEMG14250013	<b>299,00</b>
2.50	<b>16</b>	16	92	25,00	5	11	TTEMG16250011	<b>315,00</b>	TTEMG16250013	<b>351,00</b>
3.00	<b>16</b>	16	91	24,00	5	9	TTEMG16300011	<b>315,00</b>	TTEMG16300013	<b>351,00</b>
3.00	<b>20</b>	20	96	30,00	5	11	TTEMG20300011	<b>386,00</b>	TTEMG20300013	<b>431,00</b>
3.50	<b>20</b>	20	94	31,50	5	10	TTEMG20350011	<b>386,00</b>	TTEMG20350013	<b>431,00</b>

Nota: **Z** = numero dei taglienti - **Zt** = numero di creste utili per singolo tagliente

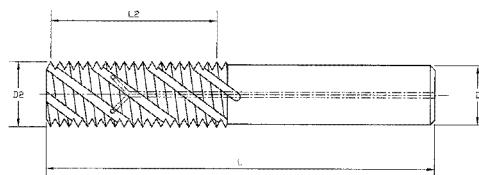
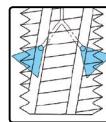
Altri diametri e misure a richiesta • Other size are available on request

**Fresa a filettare in metallo duro integrale, con fori di lubrificazione laterali, per alta produttività, antivibrante, e con scarico radiale per eliminazione del filetto incompleto.**

**Solid carbide threading mill, with lateral coolant holes, for high productions, vibration damper, with deburrer to remove first incomplete thread**



**El:**  
30°



## GAS

filx1"	<b>D2</b>	<b>D</b>	<b>L</b>	<b>L2</b>	<b>Z</b>	<b>Zt</b>	<b>Non rivestita</b>	<b>Prezzo</b>	<b>Rivestita X-TOP</b>	<b>Prezzo</b>
							<b>Codice</b>	<b>€</b>	<b>Codice</b>	<b>€</b>
28	<b>6</b>	6	72	8,16	3	10	TTEMG06285511	<b>131,00</b>	TTEMG06285513	<b>147,00</b>
19	<b>8</b>	8	71	12,03	3	10	TTEMG08195511	<b>151,00</b>	TTEMG08195513	<b>168,00</b>
19	<b>10</b>	10	74	16,04	4	13	TTEMG10195511	<b>183,00</b>	TTEMG10195513	<b>203,00</b>
19	<b>12</b>	12	78	20,05	4	16	TTEMG12195511	<b>246,00</b>	TTEMG12195513	<b>274,00</b>
19	<b>14</b>	14	93	21,39	5	17	TTEMG14195511	<b>291,00</b>	TTEMG14195513	<b>323,00</b>
14	<b>12</b>	12	77	19,95	4	12	TTEMG12145511	<b>246,00</b>	TTEMG12145513	<b>274,00</b>
14	<b>14</b>	14	92	21,77	5	13	TTEMG14145511	<b>291,00</b>	TTEMG14145513	<b>323,00</b>
14	<b>16</b>	16	90	25,40	5	15	TTEMG16145511	<b>344,00</b>	TTEMG16145513	<b>383,00</b>
14	<b>20</b>	20	94	30,83	5	18	TTEMG20145511	<b>420,00</b>	TTEMG20145513	<b>472,00</b>
11	<b>20</b>	20	93	32,32	5	15	TTEMG20115511	<b>420,00</b>	TTEMG20115513	<b>472,00</b>

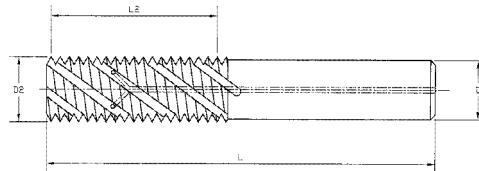
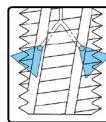
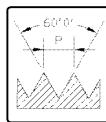
Nota: **Z** = numero dei taglienti - **Zt** = numero di creste utili per singolo tagliente

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



**Fresa a filettare in metallo duro integrale,  
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antivibrante, e con scarico radiale per eliminazione  
del filetto incompleto.**

**Solid carbide threading mill, with lateral coolant holes,  
for high productions, vibration damper,  
with deburrer to remove first incomplete thread**



## UN

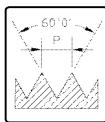
filx1"	D2	D	L	L2	Z	Zt	Non rivestita		Rivestita X-TOP	
							Codice	€	Codice	€
27	6	6	72	7,53	3	9	TTEMG06276011	131,00	TTEMG06276013	147,00
24	6	6	71	8,47	3	9	TTEMG06246011	131,00	TTEMG06246013	147,00
20	8	8	71	11,43	3	10	TTEMG08206011	151,00	TTEMG08206013	167,00
18	10	10	74	15,52	4	12	TTEMG10186011	183,00	TTEMG10186013	204,00
18	12	12	77	19,76	4	15	TTEMG12186011	246,00	TTEMG12186013	274,00
16	6	6	71	7,94	3	6	TTEMG06166011	131,00	TTEMG06166013	147,00
16	12	12	78	19,05	4	13	TTEMG12166011	246,00	TTEMG12166013	274,00
16	14	14	92	22,23	5	15	TTEMG14166011	291,00	TTEMG14166013	323,00
13	8	8	71	11,72	3	7	TTEMG08136011	144,00	TTEMG08136013	161,00
14	8	8	71	12,70	3	8	TTEMG08146011	144,00	TTEMG08146013	161,00
14	16	16	92	23,59	5	14	TTEMG16146011	344,00	TTEMG16146013	383,00
12	10	10	75	14,82	4	8	TTEMG10126011	183,00	TTEMG10126013	204,00
12	16	16	91	23,28	5	12	TTEMG16126011	344,00	TTEMG16126013	383,00
12	20	20	94	31,75	5	16	TTEMG20126011	404,00	TTEMG20126013	449,00
11	10	10	75	16,16	4	8	TTEMG10116011	183,00	TTEMG10116013	204,00
10	12	12	79	17,78	4	8	TTEMG12106011	235,00	TTEMG12106013	263,00
10	14	14	92	20,32	5	9	TTEMG14106011	280,00	TTEMG14106013	312,00
9	16	16	91	22,58	5	9	TTEMG16096011	329,00	TTEMG16096013	366,00
8	16	16	90	25,40	5	9	TTEMG16086011	329,00	TTEMG16086013	366,00
8	20	20	95	31,75	5	11	TTEMG20086011	398,00	TTEMG20086013	431,00
7	20	20	94	29,03	5	9	TTEMG20076011	398,00	TTEMG20076013	431,00

Nota: **Z** = numero dei taglienti - **Zt** = numero di creste utili per singolo tagliente

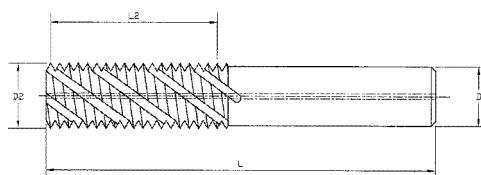
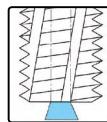
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**Solid carbide threading mill, with central coolant hole,**  
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with deburrer to remove first incomplete thread



**E<sub>x</sub>:**  
**30°**



## ISO

<b>Pmm</b>	<b>D2</b>	<b>D</b>	<b>L</b>	<b>L2</b>	<b>Z</b>	<b>Zt</b>	<b>Non rivestita</b>	<b>Prezzo</b>	<b>Rivestita X-TOP</b>	<b>Prezzo</b>
							<b>Codice</b>	<b>€</b>	<b>Codice</b>	<b>€</b>
0.80	<b>4</b>	6	75	8,80	3	12	TTEMG04080021	<b>116,00</b>	TTEMG04080023	<b>129,00</b>
1.00	<b>4.8</b>	6	75	11,00	3	12	TTEMG04810021	<b>116,00</b>	TTEMG04810023	<b>129,00</b>
1.00	<b>6</b>	6	75	11,00	3	12	TTEMG06100021	<b>115,00</b>	TTEMG06100023	<b>127,00</b>
1.00	<b>8</b>	8	75	16,00	3	17	TTEMG08100021	<b>132,00</b>	TTEMG08100023	<b>146,00</b>
1.00	<b>10</b>	10	80	21,00	4	22	TTEMG10100021	<b>160,00</b>	TTEMG10100023	<b>178,00</b>
1.00	<b>12</b>	12	80	27,00	4	28	TTEMG12100021	<b>215,00</b>	TTEMG12100023	<b>240,00</b>
1.00	<b>14</b>	14	100	29,00	5	30	TTEMG14100021	<b>256,00</b>	TTEMG14100023	<b>286,00</b>
1.00	<b>16</b>	16	100	33,00	5	34	TTEMG16100021	<b>296,00</b>	TTEMG16100023	<b>329,00</b>
1.00	<b>20</b>	20	105	43,00	5	44	TTEMG20100021	<b>369,00</b>	TTEMG20100023	<b>412,00</b>
1.25	<b>6</b>	6	75	10,00	3	9	TTEMG06125021	<b>116,00</b>	TTEMG06125023	<b>129,00</b>
1.25	<b>8</b>	8	75	16,25	3	14	TTEMG08125021	<b>131,00</b>	TTEMG08125023	<b>146,00</b>
1.25	<b>10</b>	10	80	21,25	3	18	TTEMG10125021	<b>160,00</b>	TTEMG10125023	<b>178,00</b>
1.50	<b>6</b>	6	75	10,50	3	8	TTEMG06150021	<b>112,00</b>	TTEMG06150023	<b>124,00</b>
1.50	<b>8</b>	8	75	16,50	3	12	TTEMG08150021	<b>127,00</b>	TTEMG08150023	<b>142,00</b>
1.50	<b>10</b>	10	80	19,50	4	14	TTEMG10150021	<b>154,00</b>	TTEMG10150023	<b>171,00</b>
1.50	<b>12</b>	12	80	25,50	4	18	TTEMG12150021	<b>215,00</b>	TTEMG12150023	<b>238,00</b>
1.50	<b>14</b>	14	100	28,50	5	20	TTEMG14150021	<b>256,00</b>	TTEMG14150023	<b>286,00</b>
1.50	<b>16</b>	16	100	31,50	5	22	TTEMG16150021	<b>296,00</b>	TTEMG16150023	<b>329,00</b>
1.50	<b>20</b>	20	105	42,00	5	29	TTEMG20150021	<b>369,00</b>	TTEMG20150023	<b>412,00</b>
1.75	<b>8</b>	8	75	15,75	3	10	TTEMG08175021	<b>127,00</b>	TTEMG08175023	<b>142,00</b>
2.00	<b>8</b>	8	75	16,00	3	9	TTEMG08200021	<b>127,00</b>	TTEMG08200023	<b>142,00</b>
2.00	<b>10</b>	10	80	22,00	4	12	TTEMG10200021	<b>154,00</b>	TTEMG10200023	<b>171,00</b>
2.00	<b>12</b>	12	80	26,00	4	14	TTEMG12200021	<b>205,00</b>	TTEMG12200023	<b>228,00</b>
2.00	<b>14</b>	14	80	30,00	5	16	TTEMG14200021	<b>247,00</b>	TTEMG14200023	<b>274,00</b>
2.00	<b>16</b>	16	100	32,00	5	17	TTEMG16200021	<b>284,00</b>	TTEMG16200023	<b>317,00</b>
2.00	<b>20</b>	20	105	42,00	5	22	TTEMG20200021	<b>369,00</b>	TTEMG20200023	<b>412,00</b>
2.50	<b>14</b>	14	100	30,00	5	13	TTEMG14250021	<b>247,00</b>	TTEMG14250023	<b>274,00</b>
2.50	<b>16</b>	16	100	32,50	5	14	TTEMG16250021	<b>284,00</b>	TTEMG16250023	<b>317,00</b>
3.00	<b>16</b>	16	100	33,00	5	12	TTEMG16300021	<b>273,00</b>	TTEMG16300023	<b>303,00</b>
3.00	<b>20</b>	20	105	39,00	5	14	TTEMG20300021	<b>355,00</b>	TTEMG20300023	<b>394,00</b>
3.50	<b>20</b>	20	105	42,00	5	13	TTEMG20350021	<b>343,00</b>	TTEMG20350023	<b>382,00</b>

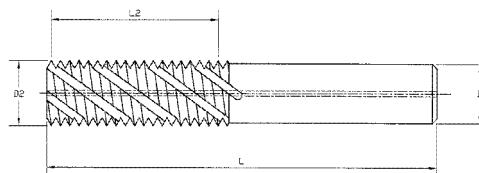
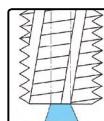
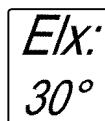
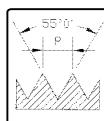
Nota: **Z** = numero dei taglienti - **Zt** = numero di creste utili per singolo tagliente

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



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**Solid carbide threading mill, with central coolant hole,  
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## GAS

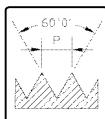
filx1"	D2	D	L	L2	Z	Zt	Non rivestita		Rivestita X-TOP	
							Codice	Prezzo €	Codice	Prezzo €
28	6	6	75	10,88	3	13	TTEMG06285521	113,00	TTEMG06285523	129,00
19	8	8	75	16,03	3	13	TTEMG08195521	127,00	TTEMG08195523	146,00
19	10	10	80	21,39	4	17	TTEMG10195521	154,00	TTEMG10195523	178,00
19	12	12	80	26,72	4	21	TTEMG12195521	208,00	TTEMG12195523	240,00
19	14	14	100	28,06	5	22	TTEMG14195521	248,00	TTEMG14195523	286,00
14	12	12	80	27,21	4	16	TTEMG12145521	208,00	TTEMG12145523	240,00
14	14	14	100	29,02	5	17	TTEMG14145521	248,00	TTEMG14145523	286,00
14	16	16	100	34,47	5	20	TTEMG16145521	286,00	TTEMG16145523	329,00
14	20	20	105	41,72	5	24	TTEMG20145521	358,00	TTEMG20145523	412,00
11	20	20	105	43,87	5	20	TTEMG20115521	358,00	TTEMG20115523	412,00

Nota: **Z** = numero dei taglienti - **Zt** = numero di creste utili per singolo tagliente

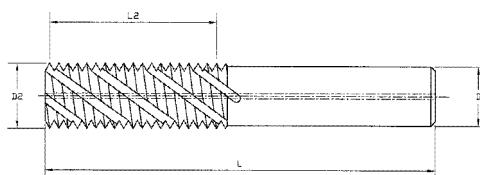
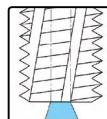
Altri diametri e misure a richiesta • Other size are available on request

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**E/x:**  
**30°**



## UN

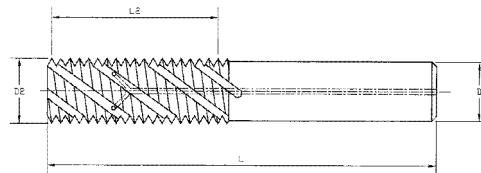
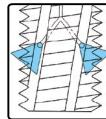
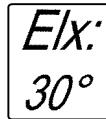
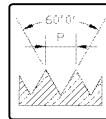
filx1"	<b>D2</b>	<b>D</b>	<b>L</b>	<b>L2</b>	<b>Z</b>	<b>Zt</b>	<b>Non rivestita</b>	<b>Prezzo</b>	<b>Rivestita X-TOP</b>	<b>Prezzo</b>
							<b>Codice</b>	<b>€</b>	<b>Codice</b>	<b>€</b>
28	<b>4</b>	6	75	8,16	3	10	TTEMG04286021	<b>116,00</b>	TTEMG04286023	<b>129,00</b>
27	<b>6</b>	6	75	10,34	3	12	TTEMG06276021	<b>116,00</b>	TTEMG06276023	<b>129,00</b>
24	<b>6</b>	6	75	11,64	3	12	TTEMG06246021	<b>116,00</b>	TTEMG06246023	<b>129,00</b>
20	<b>4</b>	6	75	8,89	3	8	TTEMG04206021	<b>116,00</b>	TTEMG04206023	<b>129,00</b>
20	<b>8</b>	8	75	15,24	4	13	TTEMG08206021	<b>131,00</b>	TTEMG08206023	<b>146,00</b>
18	<b>4,8</b>	6	75	7,06	3	6	TTEMG48186021	<b>112,00</b>	TTEMG48186023	<b>124,00</b>
18	<b>10</b>	10	80	21,17	4	16	TTEMG10186021	<b>160,00</b>	TTEMG10186023	<b>178,00</b>
18	<b>12</b>	12	80	26,81	4	20	TTEMG12186021	<b>215,00</b>	TTEMG12186023	<b>240,00</b>
16	<b>6</b>	6	75	11,11	3	8	TTEMG06166021	<b>112,00</b>	TTEMG06166023	<b>124,00</b>
16	<b>12</b>	12	80	25,39	4	17	TTEMG12166021	<b>215,00</b>	TTEMG12166023	<b>240,00</b>
16	<b>14</b>	14	100	30,15	5	20	TTEMG14166021	<b>256,00</b>	TTEMG14166023	<b>286,00</b>
13	<b>8</b>	8	75	15,62	3	9	TTEMG08136021	<b>127,00</b>	TTEMG08136023	<b>142,00</b>
14	<b>8</b>	8	75	16,33	3	10	TTEMG08146021	<b>127,00</b>	TTEMG08146023	<b>142,00</b>
14	<b>16</b>	16	100	30,84	5	18	TTEMG16146021	<b>296,00</b>	TTEMG16146023	<b>329,00</b>
12	<b>10</b>	10	80	19,04	4	10	TTEMG10126021	<b>154,00</b>	TTEMG10126023	<b>171,00</b>
12	<b>16</b>	16	100	31,74	5	16	TTEMG16126021	<b>296,00</b>	TTEMG16126023	<b>329,00</b>
12	<b>20</b>	20	105	42,32	5	21	TTEMG20126021	<b>369,00</b>	TTEMG20126023	<b>412,00</b>
11	<b>10</b>	10	80	20,78	4	10	TTEMG10116021	<b>154,00</b>	TTEMG10116023	<b>171,00</b>
10	<b>12</b>	12	80	22,86	4	10	TTEMG12106021	<b>205,00</b>	TTEMG12106023	<b>228,00</b>
10	<b>14</b>	14	100	27,94	5	12	TTEMG14106021	<b>247,00</b>	TTEMG14106023	<b>274,00</b>
9	<b>16</b>	16	100	31,04	5	12	TTEMG16096021	<b>284,00</b>	TTEMG16096023	<b>317,00</b>
8	<b>16</b>	16	100	34,93	5	12	TTEMG16086021	<b>284,00</b>	TTEMG16086023	<b>317,00</b>
8	<b>20</b>	20	105	41,28	5	14	TTEMG20086021	<b>354,00</b>	TTEMG20086023	<b>394,00</b>
7	<b>20</b>	20	105	39,91	5	12	TTEMG20076021	<b>354,00</b>	TTEMG20076023	<b>394,00</b>

Nota: **Z** = numero dei taglienti - **Zt** = numero di creste utili per singolo tagliente

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

**Fresa a filettare in metallo duro integrale,  
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antivibrante, e con scarico radiale per eliminazione  
del filetto incompleto.**

**Solid carbide threading mill, with lateral coolant holes,  
for high productions, vibration damper,  
with deburrer to remove first incomplete thread**



## ISO

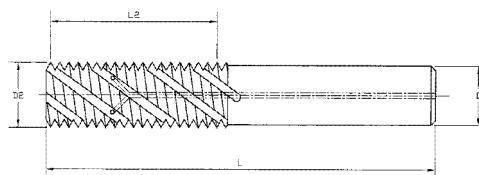
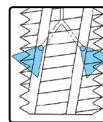
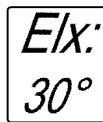
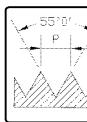
<b>Pmm</b>	<b>D2</b>	<b>D</b>	<b>L</b>	<b>L2</b>	<b>Z</b>	<b>Zt</b>	<b>Non rivestita</b>	<b>Prezzo</b>	<b>Rivestita X-TOP</b>	<b>Prezzo</b>
							<b>Codice</b>	<b>€</b>	<b>Codice</b>	<b>€</b>
1.00	<b>6</b>	6	75	11,00	3	12	TTEMG06100031	<b>145,00</b>	TTEMG06100033	<b>161,00</b>
1.00	<b>8</b>	8	75	16,00	3	17	TTEMG08100031	<b>164,00</b>	TTEMG08100033	<b>183,00</b>
1.00	<b>10</b>	10	80	21,00	4	22	TTEMG10100031	<b>201,00</b>	TTEMG10100033	<b>223,00</b>
1.00	<b>12</b>	12	80	27,00	4	28	TTEMG12100031	<b>269,00</b>	TTEMG12100033	<b>299,00</b>
1.00	<b>14</b>	14	100	29,00	5	30	TTEMG14100031	<b>320,00</b>	TTEMG14100033	<b>355,00</b>
1.00	<b>16</b>	16	100	33,00	5	34	TTEMG16100031	<b>377,00</b>	TTEMG16100033	<b>420,00</b>
1.00	<b>20</b>	20	105	43,00	5	44	TTEMG20100031	<b>461,00</b>	TTEMG20100033	<b>513,00</b>
1.25	<b>6</b>	6	75	10,00	3	9	TTEMG06125031	<b>145,00</b>	TTEMG06125033	<b>161,00</b>
1.25	<b>8</b>	8	75	16,25	3	14	TTEMG08125031	<b>164,00</b>	TTEMG08125033	<b>183,00</b>
1.25	<b>10</b>	10	80	21,25	4	18	TTEMG10125031	<b>201,00</b>	TTEMG10125033	<b>224,00</b>
1.50	<b>6</b>	6	75	10,50	3	8	TTEMG06150031	<b>140,00</b>	TTEMG06150033	<b>161,00</b>
1.50	<b>8</b>	8	75	16,50	3	12	TTEMG08150031	<b>157,00</b>	TTEMG08150033	<b>177,00</b>
1.50	<b>10</b>	10	80	19,50	4	14	TTEMG10150031	<b>192,00</b>	TTEMG10150033	<b>213,00</b>
1.50	<b>12</b>	12	80	25,50	4	18	TTEMG12150031	<b>258,00</b>	TTEMG12150033	<b>288,00</b>
1.50	<b>14</b>	14	100	28,50	5	20	TTEMG14150031	<b>307,00</b>	TTEMG14150033	<b>343,00</b>
1.50	<b>16</b>	16	100	31,50	5	22	TTEMG16150031	<b>361,00</b>	TTEMG16150033	<b>401,00</b>
1.50	<b>20</b>	20	105	42,00	5	29	TTEMG20150031	<b>444,00</b>	TTEMG20150033	<b>493,00</b>
1.75	<b>8</b>	8	75	15,75	3	10	TTEMG08175031	<b>157,00</b>	TTEMG08175033	<b>177,00</b>
2.00	<b>8</b>	8	75	16,00	3	9	TTEMG08200031	<b>157,00</b>	TTEMG08200033	<b>177,00</b>
2.00	<b>10</b>	10	80	22,00	4	12	TTEMG10200031	<b>192,00</b>	TTEMG10200033	<b>213,00</b>
2.00	<b>12</b>	12	80	26,00	4	14	TTEMG12200031	<b>258,00</b>	TTEMG12200033	<b>288,00</b>
2.00	<b>14</b>	14	80	30,00	5	16	TTEMG14200031	<b>307,00</b>	TTEMG14200033	<b>343,00</b>
2.00	<b>16</b>	16	100	32,00	5	17	TTEMG16200031	<b>361,00</b>	TTEMG16200033	<b>401,00</b>
2.00	<b>20</b>	20	105	42,00	5	22	TTEMG20200031	<b>444,00</b>	TTEMG20200033	<b>493,00</b>
2.50	<b>14</b>	14	100	30,00	5	13	TTEMG14250031	<b>295,00</b>	TTEMG14250033	<b>328,00</b>
2.50	<b>16</b>	16	100	32,50	5	14	TTEMG16250031	<b>346,00</b>	TTEMG16250033	<b>385,00</b>
3.00	<b>16</b>	16	100	33,00	5	12	TTEMG16300031	<b>346,00</b>	TTEMG16300033	<b>385,00</b>
3.00	<b>20</b>	20	105	39,00	5	14	TTEMG20300031	<b>424,00</b>	TTEMG20300033	<b>472,00</b>
3.50	<b>20</b>	20	105	42,00	5	13	TTEMG20350031	<b>424,00</b>	TTEMG20350033	<b>472,00</b>

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## GAS

filx1"	D2	D	L	L2	Z	Zt	Non rivestita	Prezzo	Rivestita X-TOP	Prezzo
							Codice	€	Codice	€
28	6	6	75	10,88	3	13	TTEMG06285531	145,00	TTEMG06285533	161,00
19	8	8	75	16,03	3	13	TTEMG08195531	164,00	TTEMG08195533	183,00
19	10	10	80	21,39	4	17	TTEMG10195531	200,00	TTEMG10195533	223,00
19	12	12	80	26,72	4	21	TTEMG12195531	270,00	TTEMG12195533	299,00
19	14	14	100	28,06	5	22	TTEMG14195531	320,00	TTEMG14195533	355,00
14	12	12	80	27,21	4	16	TTEMG12145531	270,00	TTEMG12145533	299,00
14	14	14	100	29,02	5	17	TTEMG14145531	320,00	TTEMG14145533	355,00
14	16	16	100	34,47	5	20	TTEMG16145531	274,00	TTEMG16145533	420,00
14	20	20	105	41,72	5	24	TTEMG20145531	461,00	TTEMG20145533	520,00
11	20	20	105	43,87	5	20	TTEMG20115531	461,00	TTEMG20115533	520,00

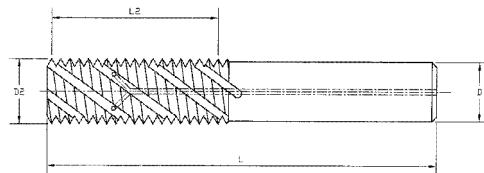
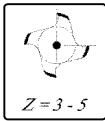
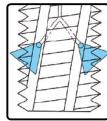
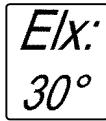
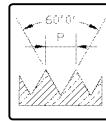
Nota: Z = numero dei taglienti - Zt = numero di creste utili per singolo tagliente

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with deburrer to remove first incomplete thread.**



## UN

filx1"	D2	D	L	L2	Z	Zt	Non rivestita	Prezzo	Rivestita X-TOP	Prezzo
							Codice	€	Codice	€
27	6	6	75	10,34	3	12	TTEMG06276031	145,00	TTEMG06276033	161,00
24	6	6	75	11,64	3	12	TTEMG06246031	145,00	TTEMG06246033	161,00
20	8	8	75	15,24	3	13	TTEMG08206031	164,00	TTEMG08206033	183,00
18	10	10	80	21,17	4	16	TTEMG10186031	200,00	TTEMG10186033	223,00
18	12	12	80	26,81	4	20	TTEMG12186031	270,00	TTEMG12186033	299,00
16	6	6	75	11,11	3	8	TTEMG06166031	140,00	TTEMG06166033	155,00
16	12	12	80	25,39	4	17	TTEMG12166031	270,00	TTEMG12166033	299,00
16	14	14	100	30,15	5	20	TTEMG14166031	320,00	TTEMG14166033	368,00
13	8	8	75	15,62	3	9	TTEMG08136031	157,00	TTEMG08136033	177,00
14	8	8	75	16,33	3	10	TTEMG08146031	157,00	TTEMG08146033	177,00
14	16	16	100	30,84	5	18	TTEMG16146031	377,00	TTEMG16146033	420,00
12	10	10	80	19,04	4	10	TTEMG10126031	192,00	TTEMG10126033	213,00
12	16	16	100	31,74	5	16	TTEMG16126031	377,00	TTEMG16126033	420,00
12	20	20	105	42,32	5	21	TTEMG20126031	493,00	TTEMG20126033	493,00
11	10	10	80	20,78	4	10	TTEMG10116031	192,00	TTEMG10116033	213,00
10	12	12	80	22,86	4	10	TTEMG12106031	258,00	TTEMG12106033	288,00
10	14	14	100	27,94	5	12	TTEMG14106031	307,00	TTEMG14106033	343,00
9	16	16	100	31,04	5	12	TTEMG16096031	361,00	TTEMG16096033	401,00
8	16	16	100	34,93	5	12	TTEMG16086031	361,00	TTEMG16086033	401,00
8	20	20	105	41,28	5	14	TTEMG20086031	424,00	TTEMG20086033	472,00
7	20	20	105	39,91	5	12	TTEMG20076031	424,00	TTEMG20076033	472,00

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

