

Un più vasto orizzonte

NUI UTENSILI EUROPA è la nuova società nata da Nui Utensili, ossia la Nuova Utensileria Italiana sorta a sua volta dallo scorporo dell'Utensileria Ansaldo dall'ambito dell'omonima grande industria genovese. La nuova realtà può quindi vantare una solida esperienza nella costruzione e nella commercializzazione di utensili per la lavorazione dei metalli e pertanto intende proporsi sul nuovo scenario dei mercati europei in via di integrazione, facendo valere questo prezioso "know-how" accumulato nei decenni passati. Per compiere questo importante passo avanti, sia quantitativo che qualitativo, NUI UTENSILI EUROPA si avvale di nuove risorse e sinergie il cui esito è immediatamente riscontrabile nel presente catalogo, dove la gamma è stata straordinariamente ampliata e approfondita. Con questa completezza dell'offerta, NUI UTENSILI EUROPA intende segnalarsi come partner affidabile e competente agli operatori dell'industria e della distribuzione industriale in ambito comunitario e globale.

Chi già conosceva e apprezzava i prodotti NUI, troverà qui numerose novità, come ad esempio l'intera sezione della fresatura (con l'aggiunta di un intero programma di metallo duro e frese ad alta velocità) e buona parte della sezione filettatura. Ma non mancano le innovazioni importanti anche nell'ambito della foratura (come le punte in metallo duro con fori di lubrificazione) e dell'alesatura che sono i campi in cui NUI è da sempre altamente specializzata e qualificata. Tutte queste importanti novità vanno pertanto ad aggiungersi alla qualità, alle garanzie e alla consulenza specializzata offerte da sempre dal marchio NUI, creando le premesse per la miglior riuscita della nuova impresa e della sua clientela vecchia e nuova.

A wider horizon

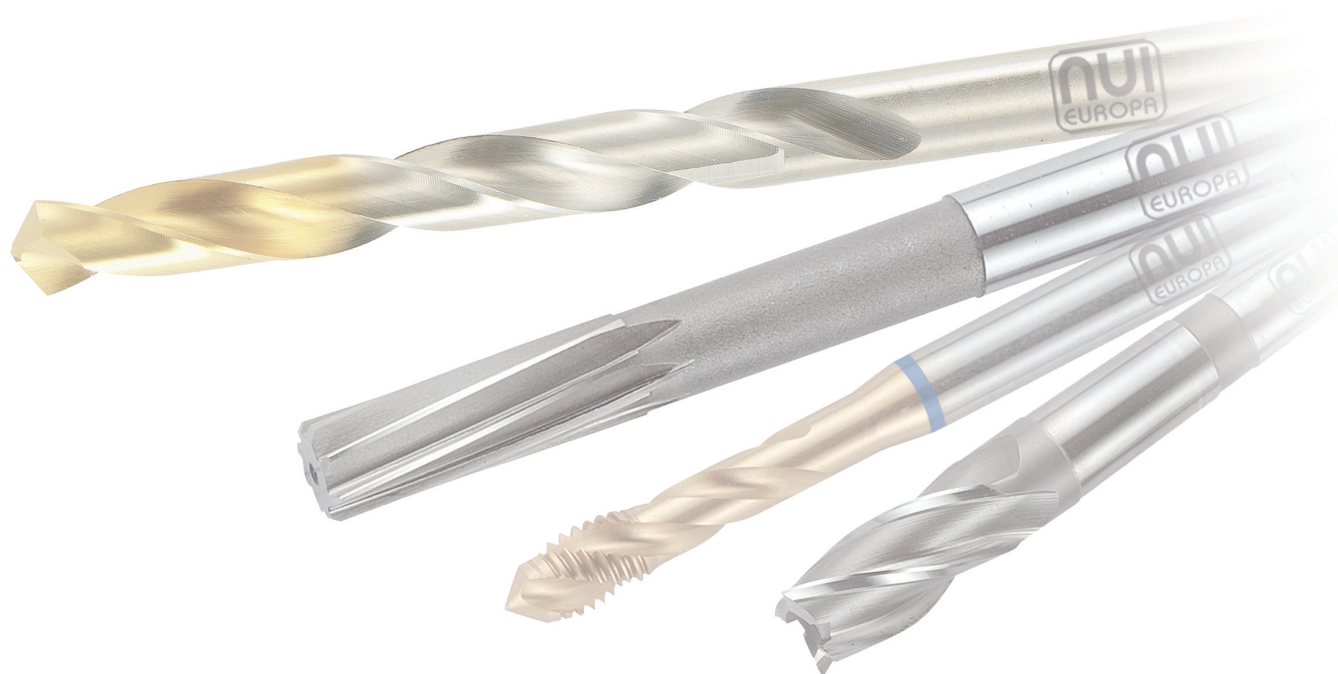
NUI UTENSILI EUROPA is a brand new company born from Nui Utensili, i.e. Nuova Utensileria Italiana (New Italian Tools) derived in turn from the break up of Ansaldo Tools from the homonymous great Genoese industry. The new company can boast its great experience in building and selling metal cutting tools and therefore aims to propose itself on the new European global markets, relying on this precious "know-how" gained during the past decades.

In order to take such an important step forward to both quantity and quality, NUI UTENSILI EUROPA avails itself of new resources and synergies, whose result can be easily seen in this catalogue, as the range has been exceptionally increased and extended.

With this complete offer, NUI UTENSILI EUROPA aims to stand out as a reliable and experienced partner for both industry and industrial distribution operators on EU and global markets.

Those who already know and appreciate NUI products, can find here numbers of novelties as, for instance, the entire milling section (with the addition of an entire program of solid carbide and high speed cutting tools) and a large part of taps. But important innovations are present in the drilling (as the solid carbide drills with internal cooling) and reaming sections as well, fields where NUI has always been specialized and qualified.

Therefore, all these important novelties are to be added to quality, guarantees and professional consulting that NUI brand has always offered, creating the ground for the best success of the new company and of its old and new customers.



Assortimenti
Sets



Pg. 6

Maschi a mano
Hand taps



Pg. 7 - 21

Filiere a mano
e a macchina
Round Dies



Pg. 22 - 33

MASCHI A MANO E FILIERE - HAND TAPS AND ROUND DIES

Scanalature dritte e imbocco corretto
Straight flutes and gun



Pg. 40 - 52

Elica 15° sinistra e destra
15° left and right spiral flutes



Pg. 53 - 58

Elica 35°, 40°
Spiral flutes 35°, 40°



Pg. 59 - 69

MASCHI A MACCHINA - MACHINE TAPS

Scanalature dritte e imbocco corretto
Straight flutes and gun



Pg. 74 - 79

Elica 10°-15°
10°-15° spiral flutes



Pg. 80

Elica 40°-50°
40°-50° spiral flutes



Pg. 81 - 86



MASCHI A MACCHINA "LINEA" - "LINEA" MACHINE TAPS

A rullare
Cold forming



Pg. 90

Scanalature dritte e imbocco corretto
Straight flutes and gun



Pg. 91 - 96

Elica 15° sinistra e destra
15° left and right spiral flutes



Pg. 97 - 98

Elica 40°, 45°
Spiral flutes 40°, 45°



Pg. 99 - 103

Punta maschi rotti
Broken taps drill



Pg. 104



MASCHI A MACCHINA AD ALTE PRESTAZIONI - HIGH PERFORMANCE MACHINE TAPS

maschi e filiere - taps and dies											
COD	pag.	COD	pag.	COD	pag.	COD	pag.	COD	pag.	COD	pag.
13000	7	13203	43	13354	69	13662	104	13760	76	14000	8
13001	7	13204	42	13400	40	13670	6	13761	80	14003	8
13002	7	13206	42	13400TIN	40	13680	6	13770	74	14051	92
13003	7	13207	43	13402	41	13685	21	13771	77	14052	99
13005	9	13210	46	13404	40	13690	6	13772	78	14054	99
13008	9	13214	46	13406	40	13700	74	13780	74	14070	91
13010	10	13216	46	13407	41	13702	81	13781	80	14080	92
13012	10	13220	48	13411	45	13703	77	13782	81	14081	99
13015	12	13225	49	13412	45	13704	84	13783	81	14090	90
13017	12	13226	49	13415	45	13705	78	13790	74	14090TIN	90
13020	13	13227	66	13500	54	13706	85	13792	81	14200	92
13023	13	13228	49	13500TIN	54	13707	79	13800	22	14204	91
13030	14	13240	50	13504	59	13708	86	13801	22	14210	93
13032	14	13244	50	13505	63	13710	75	13804	22	14215	92
13040	15	13250	51	13506	59	13712	83	13805	22	14225	94
13043	15	13280	52	13506TIN	59	13720	75	13810	24	14228	94
13050	16	13300	55	13507	59	13722	83	13813	24	14240	95
13052	16	13300TIN	55	13509	41	13730	75	13815	24	14247	102
13060	18	13305	60	13513	61	13731	80	13820	26	14250	96
13070	19	13306	60	13514	61	13732	80	13830	27	14257	103
13080	17	13306TIN	60	13515	61	13733	77	13831	27	14300	98
13082	17	13307	60	13530	41	13734	84	13835	27	14306	99
13090	20	13310	56	13550	53	13740	76	13840	28	14316	100
13091	20	13315	58	13600	44	13742	81	13850	29	14317	101
13200	42	13316	64	13601	62	13743	82	13856	33	14550	97
13200TIN	42	13317	67	13602	62	13744	82	13860	31		
13201	43	13325	64	13603	62	13750	76	13870	32		
13202	43	13344	68	13660	104	13752	82	13880	30		

Assortimenti
Sets



Pg. 6

Maschi a mano
Hand taps



Pg. 7 - 21

**Filiere a mano
e a macchina**
Round Dies



Pg. 22 - 33

MASCHI A MANO E FILIERE
HAND TAPS AND ROUND DIES

M-MF	Passo in mm - Pitch in mm											
	0,25	0,3	0,35	0,4	0,45	0,5	0,6	0,7	0,75	0,8	1	1,25
1	M #											
1,2	M											
1,4		M #										
1,6			M									
1,8			M §									
2	MF #			M								
2,2					M							
2,5			MF		M							
3			MF			M						
3,5			MF				M					
4						MF		M				
4,5									M			
5						MF				M		
5,5						MF						
6									MF		M	
7									MF		M	
8									MF		MF	M
9											MF	M
10									MF		MF	MF
11									MF		MF	
12											MF	MF
14											MF	MF
15											MF	
16											MF	
18											MF	
20											MF	
22											MF	
24											MF	
25												
27												
28												
30												
32												
33												
36												
39												
40												
42												
45												
48												
50												
52												
56												
60												
64												

=Filiera/Die

§ = Maschio/Tap

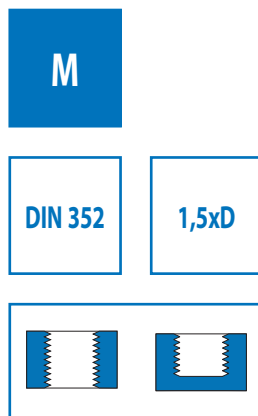
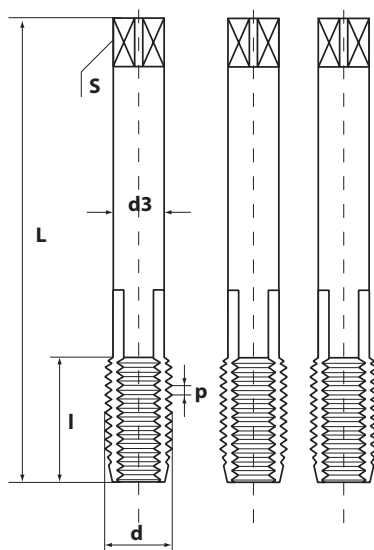
Passo in mm - Pitch in mm											M-MF
1,5	1,75	2	2,5	3	3,5	4	4,5	5	5,5	6	
											1
											1,2
											1,4
											1,6
											1,8
											2
											2,2
											2,5
											3
											3,5
											4
											4,5
											5
											5,5
											6
											7
											8
											9
M											10
M											11
MF	M										12
MF		M									14
MF											15
MF		M									16
MF			M								18
MF		MF	M								20
MF			M								22
MF		MF		M							24
MF		MF									25
MF		MF		M							27
MF		MF									28
MF		MF			M						30
MF		MF									32
MF		MF			M						33
MF		MF		MF		M					36
MF		MF		MF		M					39
MF		MF		MF							40
MF		MF		MF			M				42
MF		MF		MF			M				45
MF		MF		MF				M			48
MF		MF		MF							50
MF		MF		MF				M			52
									M #		56
									M #		60
										M #	64

=Filiera/Die

Pollici/ Inches	N° filetti per pollice - No° threads per inch											
	48	44	40	36	32	30	28	27	24	20	19	18
n°4	UNF		UNC									
n°5		UNF	UNC									
n°6			UNF		UNC							
n°8				UNF	UNC							
n°10					UNF				UNC			
n°12							UNF		UNC			
1/16"								NPT				
3/32"	BSP											
1/8"			BSW				BSP/BSPT	NPT				
5/32"					BSW		BSP					
3/16"									BSW			
7/32"									BSW			
1/4"							UNF			BSW/UNC	BSP/BSPT	NPT
5/16"									UNF			BSW/UNC
3/8"									UNF		BSP/BSPT	NPT
7/16"										UNF		
1/2"										UNF		
9/16"												UNF
5/8"												UNF
3/4"												
7/8"												
1"												
1-1/8"												
1-1/4"												
1-3/8"												
1-1/2"									PG	20	18	16
1-3/4"									7	PG		
2"									9		PG	
2-1/4"									11		PG	
2-1/2"									13,5		PG	
2-3/4"									16		PG	
3"									21			PG
3-1/4"									29			PG
3-1/2"									36			PG
3-3/4"									42			PG
4"									48			PG

N° filetti per pollice - No° threads per inch											Pollici/ Inches
16	14	13	12	11,1/2	11	10	9	8	7	6	
											n°4
											n°5
											n°6
											n°8
											n°10
											n°12
											1/16"
											3/32"
											1/8"
											5/32"
											3/16"
											7/32"
											1/4"
											5/16"
BSW/UNC											3/8"
	BSW/UNC										7/16"
	BSP/BSPT/NPT	UNC	BSW								1/2"
			BSW/UNC								9/16"
	BSP				BSW/UNC						5/8"
UNF	BSP/BSPT/NPT					BSW/UNC					3/4"
	BSP/UNF						BSW/UNC				7/8"
			UNF	NPT	BSP/BSPT			BSW/UNC			1"
			UNF		BSP				BSW/UNC		1-1/8"
			UNF	NPT	BSP/BSPT				BSW/UNC		1-1/4"
			UNF		BSP					BSW/UNC	1-3/8"
			UNF	NPT	BSP/BSPT					BSW/UNC	1-1/2"
					BSP						1-3/4"
				NPT	BSP/BSPT						2"
					BSP						2-1/4"
					BSP/BSPT §						2-1/2"
					BSP §						2-3/4"
					BSP/BSPT §						3"
					BSP §						3-1/4"
					BSP/BSPT §						3-1/2"
					BSP §						3-3/4"
					BSP/BSPT §						4"

§ = Maschi/Tap



13000



(1°)

13001



(2°)

13002



(3°)

13003

Codice - Code

Materiale - Material

Imbocco - Chamfer

Tolleranza - Tolerance

HSS

HSS

HSS

HSS

C

C

C

C

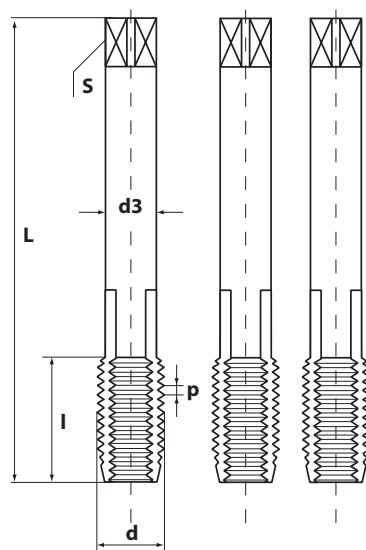
6H

6H

6H

6H

M d mm	p mm	L mm	I mm	d3 h9 mm	S h12 mm		in stock	in stock	in stock	in stock
1,2	0,25	32	5,5	2,5	2,1	1	o	o	o	o
1,6	0,35	32	8	2,5	2,1	1,25	o	o	o	o
1,8	0,35	32	8	2,5	2,1	1,4	o	o	o	o
2	0,4	36	8	2,8	2,1	1,6	o	o	o	o
2,2	0,45	36	9	2,8	2,1	1,75	o	o	o	o
2,5	0,45	40	9	2,8	2,1	2	o	o	o	o
3	0,5	40	10	3,5	2,7	2,5	o	o	o	o
3,5	0,6	45	12	4	3	2,9	o	o	o	o
4	0,7	45	12	4,5	3,4	3,3	o	o	o	o
4,5	0,75	50	14	6	4,9	3,7	o	o	o	o
5	0,8	50	14	6	4,9	4,2	o	o	o	o
6	1	50	16	6	4,9	5	o	o	o	o
7	1	50	18	6	4,9	6	o	o	o	o
8	1,25	56	22	6	4,9	6,8	o	o	o	o
9	1,25	63	22	7	5,5	7,8	o	o	o	o
10	1,5	70	24	7	5,5	8,5	o	o	o	o
11	1,5	70	24	8	6,2	9,5	o	o	o	o
12	1,75	75	29	9	7	10,2	o	o	o	o
14	2	80	30	11	9	12	o	o	o	o
16	2	80	32	12	9	14	o	o	o	o
18	2,5	95	40	14	11	15,5	o	o	o	o
20	2,5	95	40	16	12	17,5	o	o	o	o
22	2,5	100	40	18	14,5	19,5	o	o	o	o
24	3	110	50	18	14,5	21	o	o	o	o
27	3	110	50	20	16	24	o	o	o	o
30	3,5	125	56	22	18	26,5	o	o	o	o
33	3,5	125	56	25	20	29,5	o	o	o	o
36	4	150	63	28	22	32	o	o	o	o
39	4	150	63	32	24	35	o	o	o	o
42	4,5	150	63	32	24	37,5	o	o	o	o
45	4,5	160	70	36	29	40,5	o	o	o	o
48	5	180	75	36	29	43	o	o	o	o
52	5	180	75	40	32	47	o	o	o	o



M

DIN 352

1,5xD



HSSE

6HX



(3°)

14000

14003

Codice - Code

Material - *Material*

Imbocco - Chamfer

Tolleranza - *Tolerance*

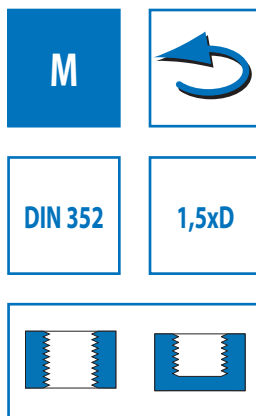
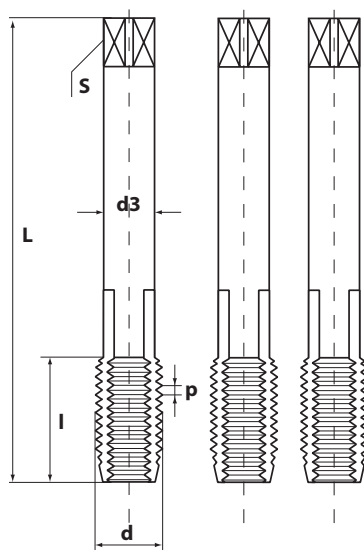
HSSE

HSSE

6HX

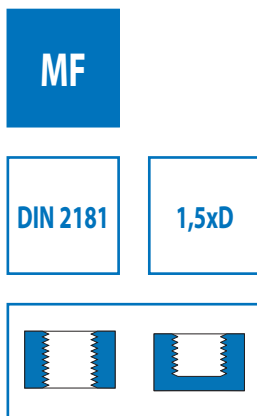
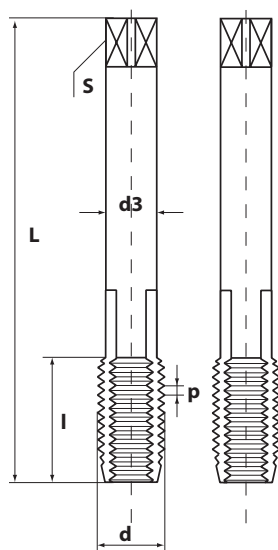
6HX

[illegible]

**Codice - Code**

Materiale - <i>Material</i>	HSS	HSS
Imbocco - <i>Chamfer</i>	C	C
Tolleranza - <i>Tolerance</i>	6H	6H

[illegible]



13010

13012

Codice - Code

Materiale - Material

Imbocco - Chamfer

Tolleranza - Tolerance

HSS

C

6H

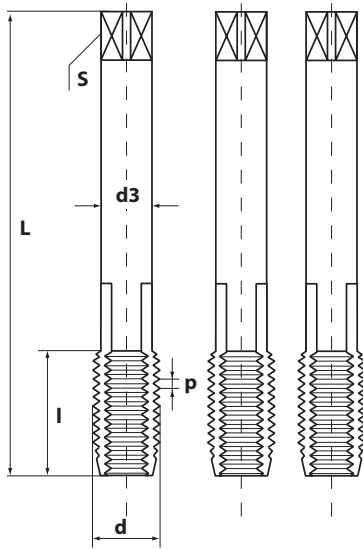
HSS

C

6H

MF d mm	p mm	L mm	I mm	d3 h9 mm	S h12 mm		in stock	in stock
2,5	0,35	40	9	2,8	2,1	2,1	o	o
3	0,35	40	9	3,5	2,7	2,6	o	o
3,5	0,35	45	10	4	3	3,1	o	o
4	0,5	45	10	4,5	3,4	3,5	o	o
5	0,5	50	12	6	4,9	4,5	o	o
5,5	0,5	50	12	6	4,9	5	o	o
6	0,75	50	14	6	4,9	5,2	o	o
7	0,75	50	14	6	4,9	6,2	o	o
8	0,75	50	19	6	4,9	7,2	o	o
8	1	56	22	6	4,9	7	o	o
9	0,75	56	19	7	5,5	8,2	o	o
9	1	63	22	7	5,5	8	o	o
10	0,75	63	20	7	5,5	9,2	o	o
10	1	63	20	7	5,5	9	o	o
10	1,25	70	24	7	5,5	8,8	o	o
11	0,75	63	20	8	6,2	10,2	o	o
11	1	63	20	8	6,2	10	o	o
12	1	70	22	9	7	11	o	o
12	1,25	70	22	9	7	10,75	o	o
12	1,5	70	22	9	7	10,5	o	o
14	1	70	22	11	9	13	o	o
14	1,25	70	22	11	9	12,75	o	o
14	1,5	70	22	11	9	12,5	o	o
15	1	70	22	12	9	14	o	o
15	1,5	70	22	12	9	13,5	o	o
16	1	70	22	12	9	15	o	o
16	1,5	70	22	12	9	14,5	o	o
18	1	80	22	14	11	17	o	o
18	1,5	80	22	14	11	16,5	o	o
20	1	80	22	16	12	19	o	o
20	1,5	80	22	16	12	18,5	o	o
20	2	80	22	16	12	18	o	o
22	1	80	22	18	14,5	21	o	o

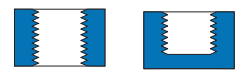
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BSW

≈DIN 352

1,5xD



(3°)

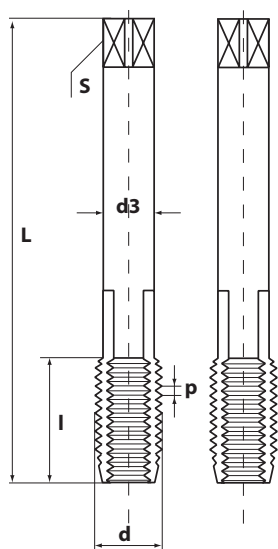
13020

13023

Codice - Code

Materiale - <i>Material</i>	HSS	HSS
Imbocco - <i>Chamfer</i>	C	C
Tolleranza - <i>Tolerance</i>	media-medium	media-medium

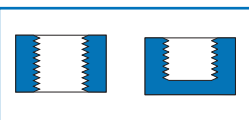
[illegible]



BSP

DIN 5157

1,5xD



(2°)

13030

13032

Codice - Code

Material - *Material*

Imbocco - Chamfer

Tolleranza - *Tolerance*

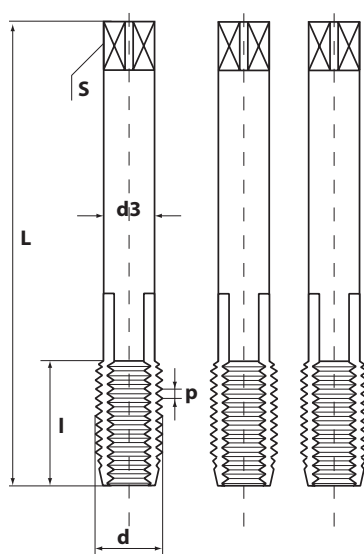
HSS

HSS

media-medium

media-medium

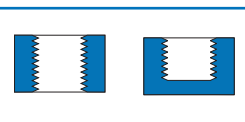
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UNC

≈DIN 352

1,5xD



(3°)

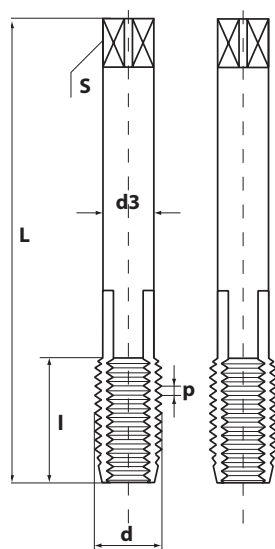
13040

13043

Codice - Code

Materiale - Material	HSS	HSS
Imbocco - Chamfer	C	C
Tolleranza - Tolerance	2B	2B

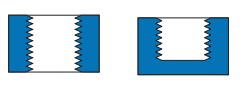
[illegible]



UNF

≈DIN
2181

1,5xD



(2°)

13050

13052

Codice - Code

Material - *Material*

Imbocco - Chamfer

Tolleranza - *Tolerance*

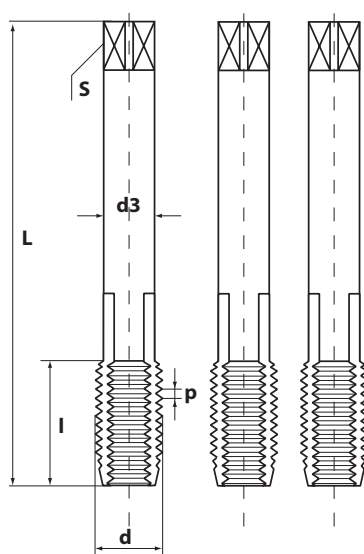
HSS

HSS

media-medium

media-medium

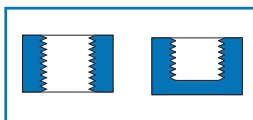
[illegible]



PG

**DIN
40432**

1,5xD



(2°)

13080

13082

Codice - Code

Material - *Material*

Imbocco - Chamfer

Tolleranza - *Tolerance*

HSS

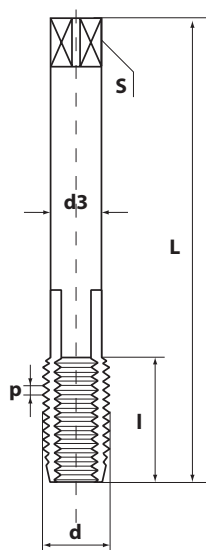
HSS

C

C

2B

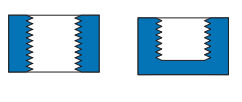
2B



BSPT

ISO Rc 7/1

1,5xD



13060

Codice - Code

Material - *Material*

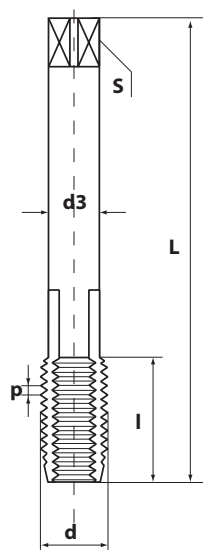
Imbocco - Chamfer

Tolleranza - *Tolerance*

HSSE

C

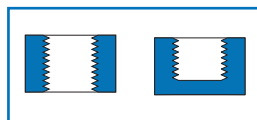
[illegible]



NPT

ANSI B 2.1

1,5xD

**Codice - Code**

Material - *Material*

Imbocco - Chamfer

Tolleranza - *Tolerance*

13070

HSSE

C

[illegible]

**DIN
1814**



13685

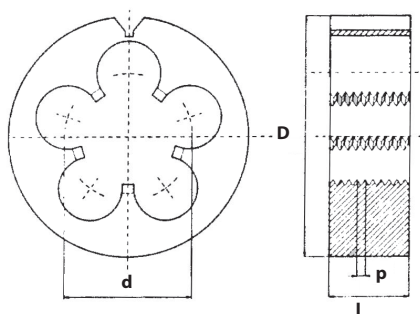
Codice - Code

Material - *Material*

Imbocco - Chamfer

Tolleranza - *Tolerance*

[illegible]



13801 = sinistra - LH

13804 = per macchine automatiche - for automatic machines

13805 = per inox - for stainless steel

Codice - Code

Materiale - Material

Imbocco - Chamfer

Tolleranza - Tolerance

Finitura - Finishing

13800

13801

13804

13805

HSS

HSS

HSSE

HSSE

i.c.-s.p.

i.c.-s.p.

i.c.-s.p.

i.c.-s.p.

6g

6g

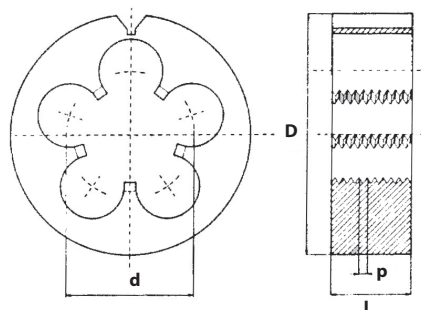
6g

6g

Vap-Ox

M d mm	p mm	D mm	l mm		in stock	in stock	D mm	in stock	in stock
1	0,25	16	5	0,96					
1,4	0,3	16	5	1,35					
1,6	0,35	16	5	1,55					
2	0,4	16	5	1,95					
2,2	0,45	16	5	2,15					
2,5	0,45	16	5	2,45					
3	0,5	20	5	2,93			16		
3,5	0,6	20	5	3,41					
4	0,7	20	5	3,91			16		
4,5	0,75	20	7	4,4					
5	0,8	20	7	4,9			20		
6	1	20	7	5,88			20		
7	1	25	9	6,88			25		
8	1,25	25	9	7,87			25		
9	1,25	25	9	8,86					
10	1,5	30	11	9,85			30		
11	1,5	30	11	10,85					
12	1,75	38	14	11,83			35		
14	2	38	14	13,82			35		
16	2	45	18	15,82			45		
18	2,5	45	18	17,79					
20	2,5	45	18	19,79					
22	2,5	55	22	21,79					
24	3	55	22	23,77					
27	3	65	25	26,77					
30	3,5	65	25	29,73					
33	3,5	65	25	32,73					
36	4	65	25	35,7					
39	4	75	30	38,7					
42	4,5	75	30	41,69					
45	4,5	90	36	44,69					
48	5	90	36	47,66					
52	5	90	36	51,66					

[illegible]



MF

**DIN-EN
22568**

2xD



13810

13815

13813

13815 = sinistra - LH

13813 = per inox - for stainless steel

Codice - Code

Materiale - Material

Imbocco - Chamfer

Tolleranza - Tolerance

Finitura - Finishing

HSS

i.c.-s.p.

6g

HSS

i.c.-s.p.

6g

HSSE

i.c.-s.p.

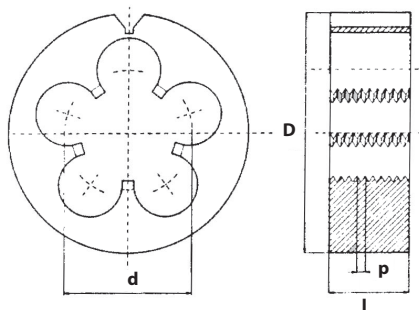
6g

Vap-Ox

MF d mm	p mm	D mm	l mm		in stock	in stock	in stock
2	0,25	16	5	1,97	o		
2,5	0,35	16	5	2,44	o		
3	0,35	20	5	2,94	o		
3,5	0,35	20	5	3,44	o		
4	0,5	20	5	3,92	o		
5	0,5	20	5	4,92	o		
5,5	0,5	20	5	5,42	o		
6	0,5	20	7	5,92	o		
6	0,75	20	7	5,90	o	o	
7	0,75	25	9	6,90	o		
8	0,75	25	9	7,90	o	o	
8	1	25	9	7,88	o	o	o
9	0,75	25	9	8,90	o		
9	1	25	9	8,88	o		
10	0,75	30	11	9,90	o		
10	1	30	11	9,88	o	o	o
10	1,25	30	11	9,86	o	o	
11	0,75	30	11	10,90	o		
11	1	30	11	10,88	o		
12	1	38	10	11,88	o	o	
12	1,25	38	10	11,86	o	o	o
12	1,5	38	10	11,85	o	o	o
14	1	38	10	13,88	o	o	
14	1,25	38	10	13,86	o	o	
14	1,5	38	10	13,85	o	o	o
15	1	38	10	14,88	o		
15	1,5	38	10	14,85	o		
16	1	45	14	15,88	o	o	
16	1,25	45	14	15,86	o		
16	1,5	45	14	15,85	o	o	o
18	1	45	14	17,88	o	o	
18	1,5	45	14	17,85	o	o	o
18	2	45	14	17,82	o	o	

 Nuove misure-New sizes

NUOVO - NEW



BSW

**DIN-EN
22568**

2xD



13820

Codice - Code

Material - *Material*

Imbocco - Chamfer

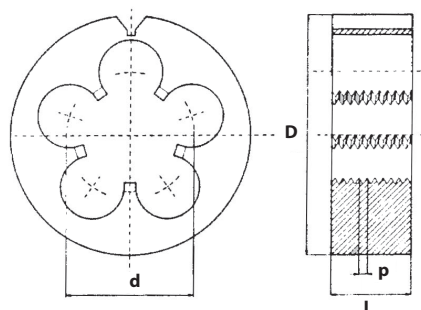
Tolleranza - *Tolerance*

Finitura - *Finishing*

HSS

i.c.-s.p.

media - *medium*



BSP

**DIN-EN
22568**

2xD

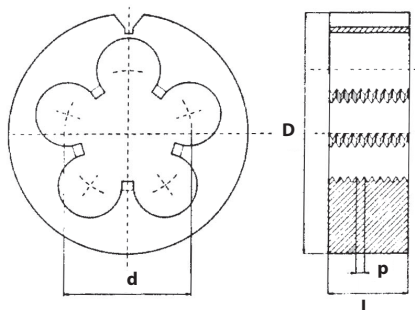


13831 = sinistra - LH

13835 = per inox - *for stainless steel*

Codice - Code

Materiali - Material	HSS	HSS	HSSE
Imbocco - Chamfer	i.c.-s.p.	i.c.-s.p.	i.c.-s.p.
Tolleranza - Tolerance	media - medium	media - medium	media - medium
Finitura - Finishing			Vap-Ox



UNF

**DIN-EN
22568**

2xD

**Codice - Code**

Material - *Material*

Imbocco - Chamfer

Tolleranza - *Tolerance*

Finitura - *Finishing*

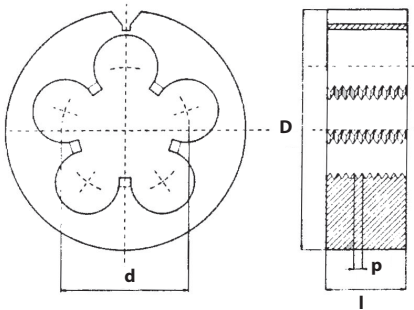
13850

HSS

i.c.-s.p.

2A

[illegible]



BSPT

**DIN-EN
24230**

2xD

Conicità 1:16

Taper 1:16



13860

Codice - Code

Material - *Material*

Imbocco - Chamfer

Tolleranza - *Tolerance*

Finitura - *Finishing*

HSS

DIN 225



13856

Codice - Code

Fonte - <i>Source</i>	
Materiale - <i>Material</i>	
Imbocco - <i>Chamfer</i>	
Tolleranza - <i>Tolerance</i>	
Finitura - <i>Finishing</i>	

[illegible]

Scanalature dritte e imbocco corretto
Straight flutes and gun



Pg. 40 - 52

Elica 15° sinistra e destra
15° left and right spiral flutes



Pg. 53 - 58

Elica 35°, 40°
Spiral flutes 35°, 40°



Pg. 59 - 69

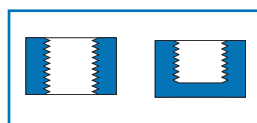
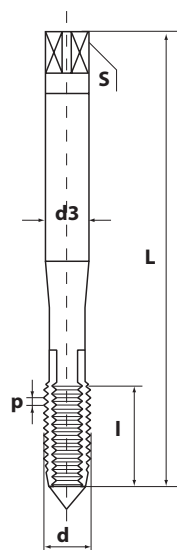
MASCHI A MACCHINA
MACHINE TAPS

M-MF	Passo in mm - Pitch in mm										
	0,25	0,3	0,35	0,4	0,45	0,5	0,6	0,7	0,75	0,8	1
1,6			M								
1,8			M								
2	MF			M							
2,2					M						
2,5			MF		M						
3			MF			M/MJ					
3,5			MF				M				
4						MF		M/MJ			
4,5									M		
5						MF				M/MJ	
5,5						MF					
6									MF		M/MJ
7									MF		M
8									MF		MF
9											MF
10									MF		MF
11									MF		MF
12											MF
14											MF
15											MF
16											MF
18											MF
20											MF
22											MF
24											MF
25											
27											
28											
30											
32											
33											
36											
38											
39											
40											
42											
45											
48											
50											
52											
48											
50											
52											

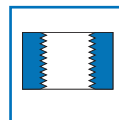
Passo in mm - Pitch in mm										M-MF
1,25	1,5	1,75	2	2,5	3	3,5	4	4,5	5	
										1,6
										1,8
										2
										2,2
										2,5
										3
										3,5
										4
										4,5
										5
										5,5
										6
										7
M/MJ										8
M										9
MF	M/MJ									10
	M									11
MF	MF	M								12
MF	MF		M							14
	MF									15
	MF		M							16
	MF			M						18
	MF		MF	M						20
	MF			M						22
	MF		MF		M					24
	MF		MF							25
	MF		MF		M					27
	MF		MF							28
	MF		MF			M				30
	MF		MF							32
	MF		MF			M				33
	MF		MF		MF		M			36
					MF					38
	MF		MF		MF		M			39
	MF		MF		MF					40
	MF		MF		MF			M		42
	MF		MF		MF			M		45
	MF		MF		MF				M	48
	MF		MF		MF					50
	MF		MF		MF				M	52
	MF		MF		MF				M	48
	MF		MF		MF					50
	MF		MF		MF				M	52

Pollici/ Inches	N° filetti per pollice - No° threads per inch											
	48	44	40	36	32	30	28	27	24	20	19	18
n°4	UNF		UNC									
n°5		UNF	UNC									
n°6			UNF		UNC							
n°8				UNF	UNC							
n°10					UNF				UNC			
n°12							UNF		UNC			
1/16"								NPT				
3/32"	BSP											
1/8"			BSW				BSP/BSPT	NPT				
5/32"					BSW		BSP					
3/16"									BSW			
7/32"									BSW			
1/4"							UNF			BSW/UNC	BSP/BSPT	NPT
5/16"									UNF			BSW/UNC
3/8"									UNF		BSP/BSPT	NPT
7/16"										UNF		
1/2"										UNF		
9/16"												UNF
5/8"												UNF
3/4"									PG	20	18	16
7/8"									7	PG		
1"									9		PG	
1-1/8"									11		PG	
1-1/4"									13,5		PG	
1-3/8"									16		PG	
1-1/2"									21			PG
1-3/4"									29			PG
2"									36			PG
									42			PG
									48			PG

N° filetti per pollice - No° threads per inch											Pollici/ Inches
16	14	13	12	11-1/2	11	10	9	8	7	6	
											n°4
											n°5
											n°6
											n°8
											n°10
											n°12
											1/16"
											3/32"
											1/8"
											5/32"
											3/16"
											7/32"
											1/4"
											5/16"
BSW/UNC											3/8"
	BSW/UNC										7/16"
	BSP/BSPT/ NPT	UNC	BSW								1/2"
			BSW/UNC								9/16"
	BSP				BSW/UNC						5/8"
UNF	BSP/BSPT/ NPT					BSW/UNC					3/4"
	BSP/UNF						BSW/UNC				7/8"
			UNF	NPT	BSP/BSPT			BSW			1"
					BSP				BSW		1-1/8"
				NPT	BSP/BSPT				BSW		1-1/4"
					BSP					BSW	1-3/8"
			UNF	NPT	BSP/BSPT					BSW	1-1/2"
					BSP						1-3/4"
				NPT	BSP/BSPT						2"



13404-13406



13400-13400TIN

13406 = sinistra - LH



13404



13406



13400

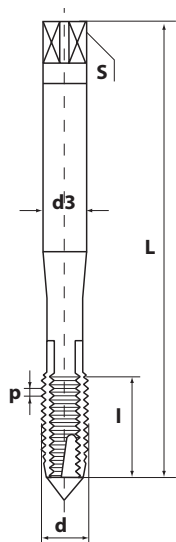


13400TIN

Codice - Code

Materiali - Material	HSSE	HSSE	HSSE	HSSE
Imbocco - Chamfer	C	C	B	B
Tolleranza - Tolerance	6H	6H	6H	6H
Rivestimento - Coating				TiN

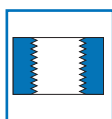
[illegible]



M

DIN 371

2,5xD



13530 = per lamiera - *for sheet iron*

13407 = sinistra - LH



13407



13509



13402

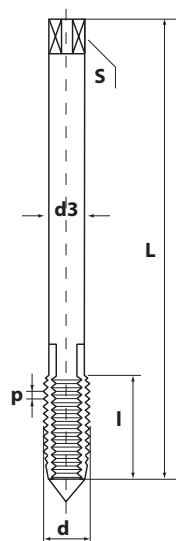


13530

Codice - Code

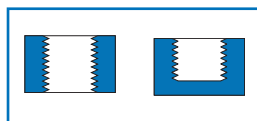
Materiali - Material	HSSE	HSSE	HSSE	HSSE
Imbocco - Chamfer	B	B AZ	B	B
Tolleranza - Tolerance	6H	6H	6G	6H
Rivestimento - Coating				

[illegible]

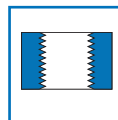


DIN 376

2xD



13204-13206



2,5xD

13200-13200TIN

13206 = sinistra - LH



13204



13206



13200



13200TIN

Codice - Code

Materiale - Material

Imbocco - Chamfer

Tolleranza - Tolerance

Rivestimento - Coating

HSSE

C

6H

HSSE

C

6H

HSSE

B

6H

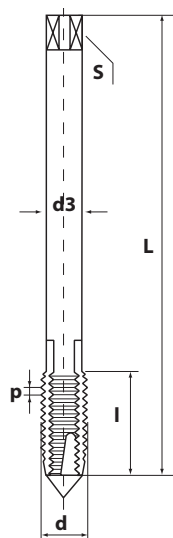
HSSE

B

6H

TiN

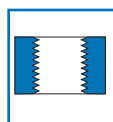
M d mm	p mm	L mm	I mm (C-B)	d3 h9 mm	S h12 mm		in stock	in stock	in stock	in stock
2	0,4	45	8	1,4	-	1,6	o		o	ro
2,5	0,45	50	9	1,8	-	2	o		o	ro
3	0,5	56	11	2,2	-	2,5	o		o	o
3,5	0,6	56	13	2,5	2,1	2,9	o		o	ro
4	0,7	63	12-13	2,8	2,1	3,3	o		o	o
4,5	0,75	70	13-16	3,5	2,7	3,7	o		o	ro
5	0,8	70	13-16	3,5	2,7	4,2	o		o	o
6	1	80	15-19	4,5	3,4	5	o		o	o
7	1	80	15-19	5,5	4,3	6	o		o	ro
8	1,25	90	18-22	6	4,9	6,8	o		o	o
9	1,25	90	18-22	7	5,5	7,8	o		o	ro
10	1,5	100	20-24	7	5,5	8,5	o		o	o
11	1,5	100	20-24	8	6,2	9,5	o		o	ro
12	1,75	110	23-29	9	7	10,2	o	o	o	o
14	2	110	25-30	11	9	12	o	o	o	o
16	2	110	25-32	12	9	14	o	o	o	o
18	2,5	125	30-34	14	11	15,5	o	o	o	ro
20	2,5	140	30-34	16	12	17,5	o	o	o	ro
22	2,5	140	30-34	18	14,5	19,5	o	o	o	ro
24	3	160	36-38	18	14,5	21	o	o	o	ro
27	3	160	36-38	20	16	24	o	o	o	ro
30	3,5	180	40-45	22	18	26,5	o	o	o	ro
33	3,5	180	42-50	25	20	29,5	o		o	ro
36	4	200	50-56	28	22	32	o		o	ro
39	4	200	50-60	32	24	35	o		o	ro
42	4,5	200	56-60	32	24	37,5	o		o	ro
45	4,5	220	56-65	36	29	40,5	o		o	ro
48	5	250	63-70	36	29	43	o		o	ro
52	5	250	63-70	40	32	47	o		o	ro



M

DIN 376

2,5xD



13203 = per lamiera - *for sheet iron*

13207 = sinistra - LH



13207



13201



13202

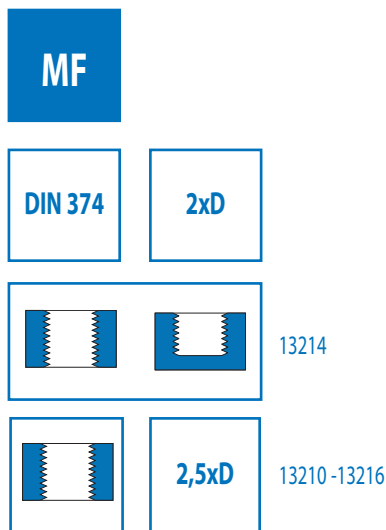
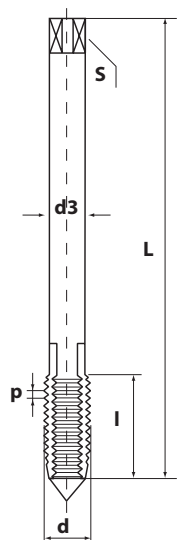


13203

Codice - Code

Materiali - Material	HSSE	HSSE	HSSE	HSSE
Imbocco - Chamfer	B	B AZ	B	B
Tolleranza - Tolerance	6H	6H	6G	6H
Rivestimento - Coating				

[illegible]



13216 = sinistra - LH



13214

13210

13216

Codice - Code

Materiale - Material

Imbocco - Chamfer

Tolleranza - Tolerance

Rivestimento - Coating

HSSE

C

6H

HSSE

B

6H

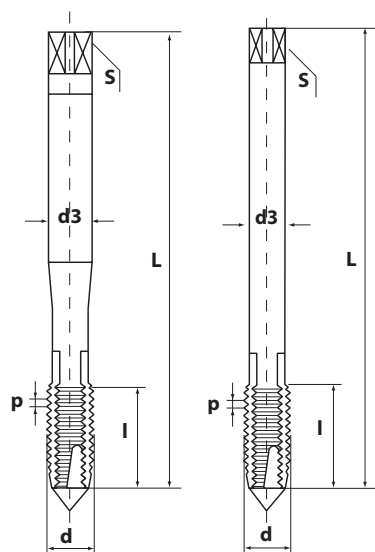
HSSE

B

6H

MF d mm	p mm	L mm	I mm	d3 h9 mm	S h12 mm		in stock	in stock	in stock
2	0,25	45	8	1,4	-	1,75	o	o	
3	0,35	56	8	2,2	-	2,6	o	o	o
3,5	0,35	56	8	2,5	2,1	3,1	o	o	
4	0,5	63	12	2,8	2,1	3,5	o	o	o
5	0,5	70	13	3,5	2,7	4,5	o	o	o
5,5	0,5	80	15	4	3	5	o	o	
6	0,5	80	15	4,5	3,4	5,5	o	o	o
6	0,75	80	15	4,5	3,4	5,2	o	o	o
7	0,75	80	15	5,5	4,3	6,2	o	o	o
8	0,75	80	15	6	4,9	7,2	o	o	o
8	1	90	18	6	4,9	7	o	o	o
9	1	90	18	7	5,5	8	o	o	o
10	0,75	90	20	7	5,5	9,2	o	o	o
10	1	90	20	7	5,5	9	o	o	o
10	1,25	100	20	7	5,5	8,8	o	o	o
11	1	90	20	8	6,2	10	o	o	o
12	1	100	21	9	7	11	o	o	o
12	1,25	100	21	9	7	10,75	o	o	o
12	1,5	100	21	9	7	10,5	o	o	o
14	1	100	21	11	9	13	o	o	o
14	1,25	100	21	11	9	12,75	o	o	o
14	1,5	100	21	11	9	12,5	o	o	o
15	1	100	21	12	9	14	o	o	o
15	1,5	100	21	12	9	13,5	o	o	o
16	1	100	21	12	9	15	o	o	o
16	1,25	100	21	12	9	14,75	o	o	
16	1,5	100	21	12	9	14,5	o	o	o
17	1	100	21	12	9	16	o		
18	1	110	24	14	11	17	o	o	o
18	1,5	110	24	14	11	16,5	o	o	o
18	2	125	24	14	11	16	o	o	o
20	1	125	24	16	12	19	o	o	o
20	1,5	125	24	16	12	18,5	o	o	o

 Nuove misure-*New sizes*

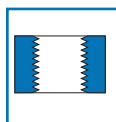


BSW

≈DIN371
≤3/8"

≈DIN376
≥7/16"

2,5xD



13220

Codice - Code

Material - *Material*

Imbocco - Chamfer

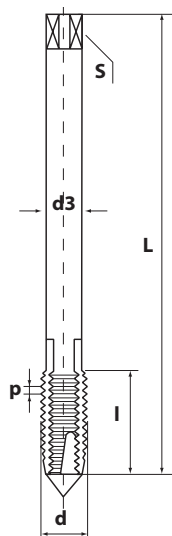
Tolleranza - *Tolerance*

HSSE

B

media-medium

BSW d"	filetti x 1" p	L mm	l mm	d3 h9 mm	S h12 mm		in stock
1/8"	40	56	16	3,5	2,7	2,5	●
5/32"	32	63	18	4,5	3,4	3,1	●
3/16"	24	70	20	6	4,9	3,6	●
7/32"	24	80	20	6	4,9	4,4	●
1/4"	20	80	22	7	5,5	5,1	●
5/16"	18	90	25	8	6,2	6,5	●
3/8"	16	100	28	9	7	7,9	●
7/16"	14	100	28	8	6,2	9,3	●
1/2"	12	110	32	9	7	10,5	●
9/16"	12	110	32	11	9	12	●
5/8"	11	110	32	12	9	13,5	●
3/4"	10	125	36	14	11	16,5	●
7/8"	9	140	40	18	14,5	19,25	●
1"	8	160	45	20	16	22	●
1-1/8"	7	180	50	22	18	24,75	●
1-1/4"	7	180	50	22	20	27,75	●
1-3/8"	6	200	56	28	22	30,5	●
1-1/2"	6	200	56	32	24	33,5	●

**Codice - Code**

Material - *Material*

Imbocco - Chamfer

Tolleranza - *Tolerance*

Rivestimento - Coating

BSP

DIN 5156

2xD



13226 - 13228



2,5xD

13225

13228= sinistra - LH



13226



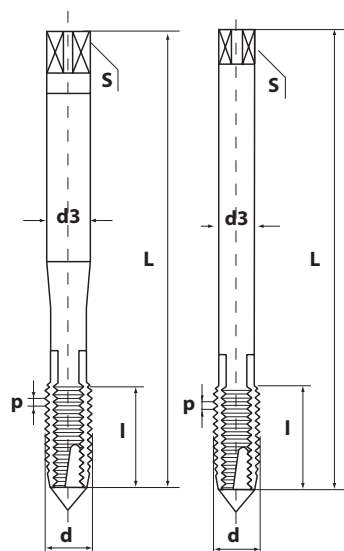
13228



13225

Materiali - <i>Material</i>	HSSE	HSSE	HSSE
Imbocco - <i>Chamfer</i>	C	C	B
Tolleranza - <i>Tolerance</i>	media-medium	media-medium	media-medium
Rivestimento - <i>Coating</i>			

[illegible]

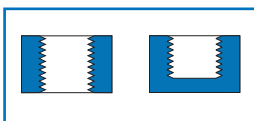


UNC

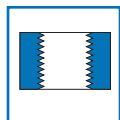
≈DIN371
≤3/8"

≈DIN376
≥7/16"

2xD



13244



2,5xD

13240

Codice - Code

Material - *Material*

Imbocco - Chamfer

Tolleranza - *Tolerance*

Rivestimento - Coating

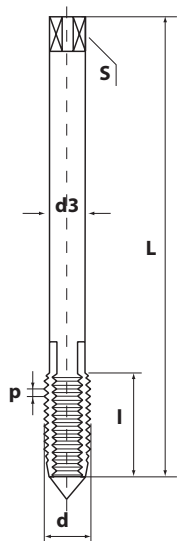


13244



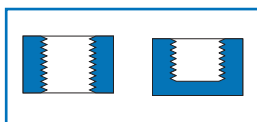
13240

[illegible]



PG

**DIN
40433**



13280

Codice - Code

Material - *Material*

Imbocco - Chamfer

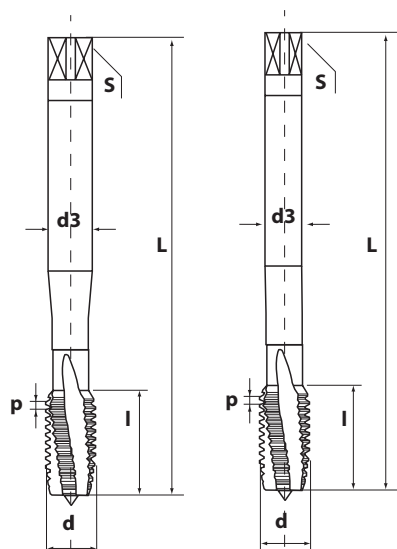
Tolleranza - *Tolerance*

Rivestimento - Coating

HSSE

C

[illegible]

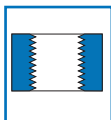


M

DIN 371
≤ M10

DIN 376
≥ M11

3xD

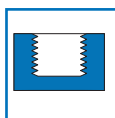
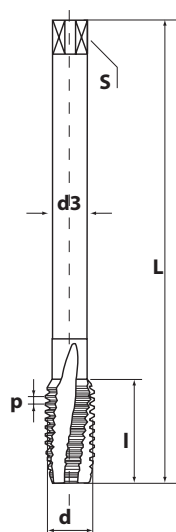


13550

Codice - Code

Fonte - <i>Source</i>	
Materiale - <i>Material</i>	HSSE
Imbocco - <i>Chamfer</i>	D L15
Tolleranza - <i>Tolerance</i>	6H
Rivestimento - <i>Coating</i>	

[illegible]



13300

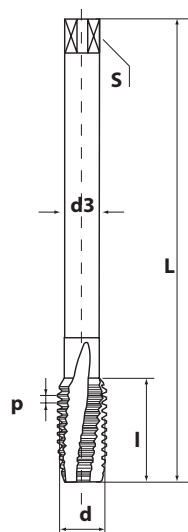


13300TIN

Codice - Code

Materiale - Material	HSSE	HSSE
Imbocco - Chamfer	C R15	C R15
Tolleranza - Tolerance	6H	6H
Rivestimento - Coating		TiN

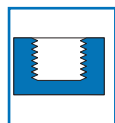
M d mm	p mm	L mm	I mm	d3 h9 mm	S h12 mm		in stock	in stock
2	0,4	45	8	1,4	-	1,6	o	ro
2,5	0,45	50	9	1,8	-	2	o	ro
3	0,5	56	5	2,2	-	2,5	o	o
3,5	0,6	56	6	2,5	2,1	2,9	o	ro
4	0,7	63	7	2,8	2,1	3,3	o	o
4,5	0,75	70	8	3,5	2,7	3,7	o	ro
5	0,8	70	8	3,5	2,7	4,2	o	o
6	1	80	10	4,5	3,4	5	o	o
7	1	80	10	5,5	4,3	6	o	ro
8	1,25	90	13	6	4,9	6,8	o	o
9	1,25	90	13	7	5,5	7,8	o	ro
10	1,5	100	15	7	5,5	8,5	o	o
11	1,5	100	15	8	6,2	9,5	o	ro
12	1,75	110	18	9	7	10,2	o	o
14	2	110	20	11	9	12	o	o
16	2	110	20	12	9	14	o	o
18	2,5	125	25	14	11	15,5	o	ro
20	2,5	140	25	16	12	17,5	o	ro
22	2,5	140	25	18	14,5	19,5	o	ro
24	3	160	30	18	14,5	21	o	ro
27	3	160	30	20	16	24	o	ro
30	3,5	180	35	22	18	26,5	o	ro
33	3,5	180	35	25	20	29,5	o	ro
36	4	200	40	28	22	32	o	ro
39	4	200	50	32	24	35	o	ro
42	4,5	200	56	32	24	37,5	o	ro
45	4,5	220	56	36	29	40,5	o	ro
48	5	250	63	36	29	43	o	ro
52	5	250	63	40	32	47	o	ro



MF

DIN 374

2,5xD



13310

Codice - Code

Materiale - Material

Imbocco - Chamfer

Tolleranza - Tolerance

Rivestimento - Coating

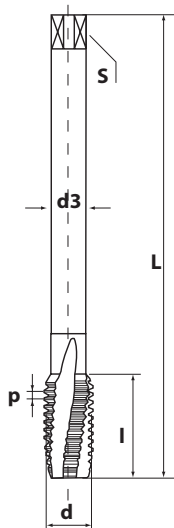
HSSE

C R15

6H

MF d mm	p mm	L mm	l mm	d3 h9 mm	S h12 mm		in stock
4	0,5	63	7	2,8	2,1	3,5	●
5	0,5	70	8	3,5	2,7	4,5	●
6	0,75	80	10	4,5	3,4	5,2	●
8	0,75	80	10	6	4,9	7,2	●
8	1	90	13	6	4,9	7	●
9	1	90	13	7	5,5	8	●
10	0,75	90	12	7	5,5	9,2	●
10	1	90	12	7	5,5	9	●
10	1,25	100	12	7	5,5	8,8	●
12	1	100	14	9	7	11	●
12	1,25	100	14	9	7	10,75	●
12	1,5	100	14	9	7	10,5	●
14	1	100	16	11	9	13	●
14	1,25	100	16	11	9	12,75	●
14	1,5	100	16	11	9	12,5	●
15	1	100	16	12	9	14	●
15	1,5	100	16	12	9	13,5	●
16	1	100	16	12	9	15	●
16	1,5	100	16	12	9	14,5	●
18	1	110	20	14	11	17	●
18	1,5	110	20	14	11	16,5	●
20	1	125	20	16	12	19	●
20	1,5	125	20	16	12	18,5	●
20	2	140	20	16	12	18	●
22	1	125	20	18	14,5	21	●
22	1,5	125	20	18	14,5	20,5	●
24	1	140	22	18	14,5	23	●
24	1,5	140	22	18	14,5	22,5	●
24	2	140	22	18	14,5	22	●
25	1,5	140	22	18	14,5	23,5	●
25	2	140	22	18	14,5	23	●
27	1,5	140	22	20	16	25,5	●
27	2	140	22	20	16	25	●

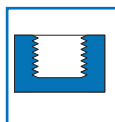
[illegible]



BSP

DIN 5156

2,5xD



13315

Codice - Code

Material - *Material*

Imbocco - Chamfer

Tolleranza - *Tolerance*

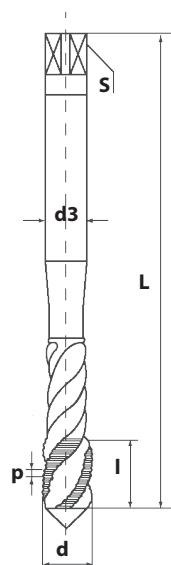
Rivestimento - Coating

HSSE

CR15

media-medium

[illegible]



Codice - Code

Material - *Material*

Imbocco - Chamfer

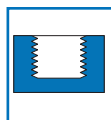
Tolleranza - *Tolerance*

Rivestimento - Coating

M

DIN 371

2,5XD



13504 = sinistra - LH



13506



13506TIN



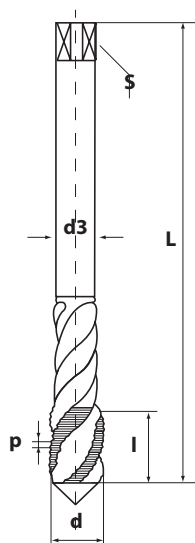
13504



13507

Materiali - Material	HSSE	HSSE	HSSE	HSSE
Imbocco - Chamfer	C R35	C R35	C R35	C R35
Tolleranza - Tolerance	6H	6H	6H	6G
Rivestimento - Coating		TiN		

[illegible]

**Codice - Code**

Material - *Material*

Imbocco - Chamfer

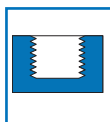
Tolleranza - *Tolerance*

Rivestimento - Coating

M

DIN 376

2,5xD



13305 = sinistra - LH



13306



13306TIN



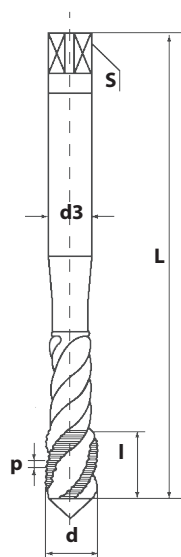
 13305



13307

Counters - <i>Conte</i>				
Materiali - <i>Material</i>	HSSE	HSSE	HSSE	HSSE
Imbocco - <i>Chamfer</i>	C R35	C R35	C R35	C R35
Tolleranza - <i>Tolerance</i>	6H	6H	6H	6G
Rivestimento - <i>Coating</i>		TiN		

[illegible]

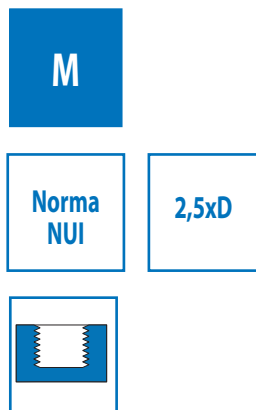
**Codice - Code**

Material - *Material*

Imbocco - Chamfer

Tolleranza - *Tolerance*

Rivestimento - Coating



L=100mm



13513

L=120mm



13514

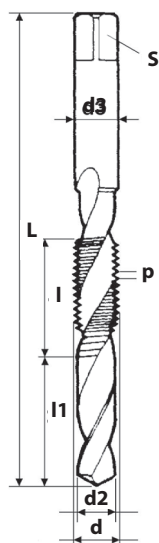
L=150mm



13515

Fonte - <i>Source</i>			
Materiale - <i>Material</i>	HSSE	HSSE	HSSE
Imbocco - <i>Chamfer</i>	C R35	C R35	C R35
Tolleranza - <i>Tolerance</i>	6H	6H	6H
Rivestimento - <i>Coating</i>			

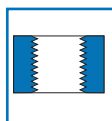
[illegible]



M

Norma NUI

1xD



13601

13602

13603

Codice - Code

Material - *Material*

Imbocco - Chamfer

Tolleranza - *Tolerance*

Rivestimento - Coating

HSS

HSS

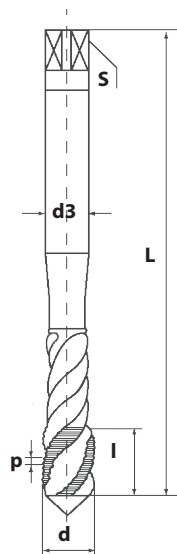
HSSF

6H

6H

6H

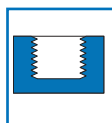
[illegible]



MJ

DIN 371

2,5xD

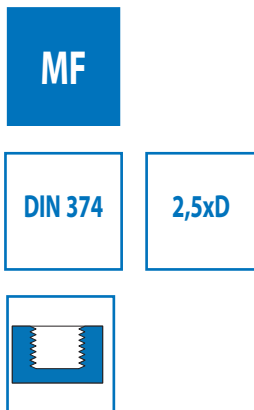
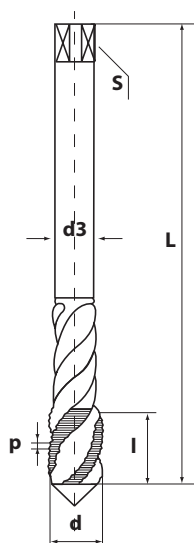


13505

Codice - Code

Fonte - <i>Source</i>	
Materiale - <i>Material</i>	HSSE
Imbocco - <i>Chamfer</i>	C R40
Tolleranza - <i>Tolerance</i>	6H
Rivestimento - <i>Coating</i>	

[illegible]



13325 LH



13316



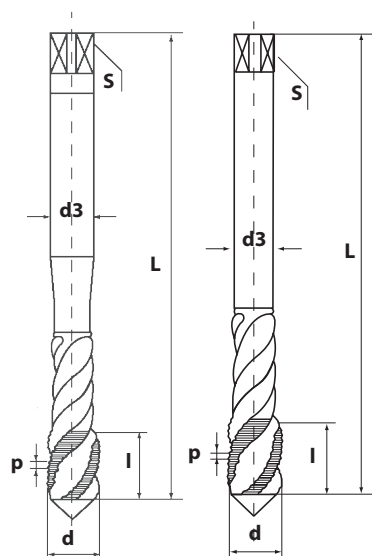
13325

Codice - Code

Materiale - Material	HSSE	HSSE
Imbocco - Chamfer	C R35	C R35
Tolleranza - Tolerance	6H	6H
Rivestimento - Coating		

MF d mm	p mm	L mm	I mm	d3 h9 mm	S h12 mm		in stock	in stock
3	0,35	56	5	2,2	-	2,6	o	o
4	0,5	63	7	2,8	2,1	3,5	o	o
5	0,5	70	8	3,5	2,7	4,5	o	o
6	0,5	80	10	4,5	3,4	5,5	o	o
6	0,75	80	10	4,5	3,4	5,2	o	o
7	0,75	80	10	5,5	4,3	6,2	o	o
8	0,75	80	10	6	4,9	7,2	o	o
8	1	90	13	6	4,9	7	o	o
9	1	90	13	7	5,5	8	o	o
10	0,75	90	12	7	5,5	9,2	o	o
10	1	90	12	7	5,5	9	o	o
10	1,25	100	15	7	5,5	8,8	o	o
11	1	90	12	8	6,2	10	o	o
12	1	100	14	9	7	11	o	o
12	1,25	100	14	9	7	10,75	o	o
12	1,5	100	14	9	7	10,5	o	o
14	1	100	16	11	9	13	o	o
14	1,25	100	16	11	9	12,75	o	o
14	1,5	100	16	11	9	12,5	o	o
15	1	100	16	12	9	14	o	o
15	1,5	100	17	12	9	13,5	o	o
16	1	100	16	12	9	15	o	o
16	1,25	100	16	12	9	14,75	o	o
16	1,5	100	16	12	9	14,5	o	o
18	1	110	20	14	11	17	o	o
18	1,5	110	20	14	11	16,5	o	o
18	2	110	20	14	11	16	o	o
20	1	125	20	16	12	19	o	o
20	1,5	125	20	16	12	18,5	o	o
20	2	125	20	16	12	18	o	o
22	1	125	20	18	14,5	21	o	o
22	1,5	125	20	18	14,5	20,5	o	o
22	2	125	20	18	14,5	20	o	o

[illegible]

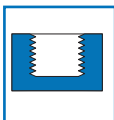


BSW

≈DIN371
≤3/8"

≈DIN376
≥7/16"

2,5xD



13227

Codice - Code

Material - *Material*

Imbocco - Chamfer

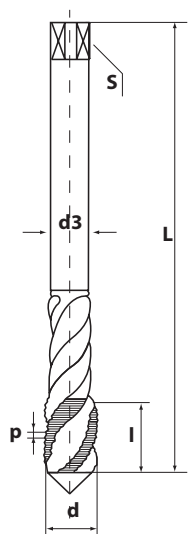
Tolleranza - *Tolerance*

Rivestimento - Coating

HSSE

C R35

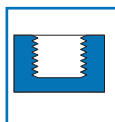
media-medium



BSP

DIN 5156

2,5xD

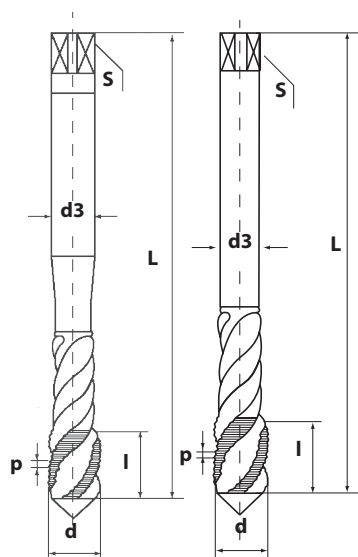


13317

Codice - Code

Materiale - <i>Material</i>	HSSE
Imbocco - <i>Chamfer</i>	C R35
Tolleranza - <i>Tolerance</i>	media-medium
Rivestimento - <i>Coating</i>	

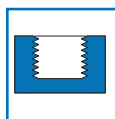
BSP G	d mm	filetti x 1" p	L mm	l mm	d3 h9 mm	S h12 mm		in stock
G 1/8"	9,73	28	90	20	7	5,5	8,8	●
G 1/4"	13,16	19	100	22	11	9	11,8	●
G 3/8"	16,66	19	100	22	12	9	15,25	●
G 1/2"	20,96	14	125	25	16	12	19	●
G 5/8"	22,91	14	125	25	18	14,5	21	●
G 3/4"	26,44	14	140	28	20	16	24,5	●
G 7/8"	30,2	14	150	28	22	18	28,25	●
G 1"	33,25	11	160	30	25	20	30,75	●
G 1-1/8"	37,9	11	170	30	28	22	35,5	●
G 1-1/4"	41,9	11	170	30	32	24	39,5	●
G 1-3/8"	44,3	11	180	32	36	29	42	●
G 1-1/2"	47,8	11	190	32	36	29	45	●
G 1-3/4"	53,8	11	200	32	40	32	51	●
G 2"	59,61	11	220	40	45	35	57	●



UNF

≈DIN371
≤3/8"

≈DIN376
≥7/16"



2,5xD



13354

Codice - Code

Materiale - <i>Material</i>	HSSE
Imbocco - <i>Chamfer</i>	C R35
Tolleranza - <i>Tolerance</i>	2B
Rivestimento - <i>Coating</i>	

Scanalature diritte e imbocco corretto
Straight flutes and gun



Pg. 74 - 79

Elica 10°-15°
15°-10° spiral flutes

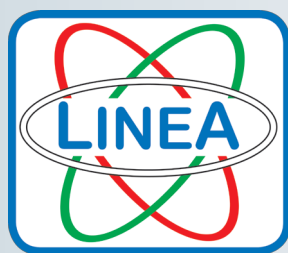


Pg. 80

Elica 40°-50°
40°-50° spiral flutes



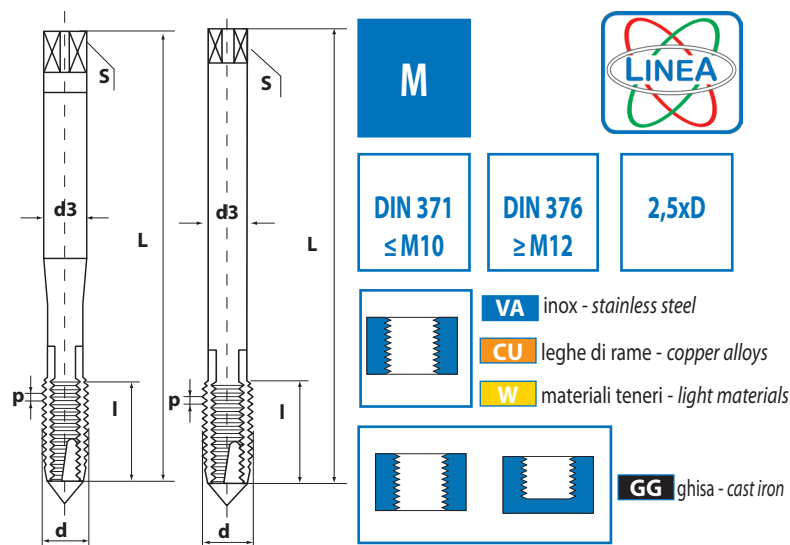
Pg. 81 - 86



MASCHI A MACCHINA "LINEA"
"LINEA" MACHINE TAPS

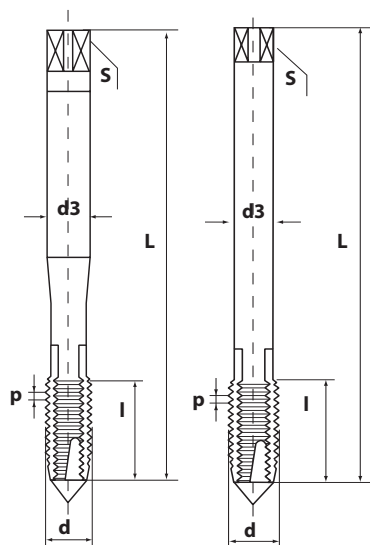
M-MF	Passo in mm - Pitch in mm							
	0,25	0,3	0,35	0,4	0,45	0,5	0,6	0,7
2	MF			M				
2,5			MF		M			
3			MF			M		
3,5			MF				M	
4						MF		M
5						MF		
6								
8								
10								
12								
14								
16								
18								
20								
22								
24								
Pollici/ Inches	N° filetti per pollice - No° threads per inch							
	40	32	28	24	19	18	16	14
n°4	UNC							
n°6		UNC						
n°8		UNC						
n°10				UNC				
1/8"			BSP					
1/4"					BSP			
5/16"						UNC		
3/8"					BSP		UNC	UNC
7/16"								
1/2"								BSP
5/8"								BSP
3/4"								BSP
7/8"								BSP
1"								

Passo in mm - Pitch in mm									M-MF
0,75	0,8	1	1,25	1,5	1,75	2	2,5	3	
									2
									2,5
									3
									3,5
									4
	M								5
MF		M							6
MF		MF	M						8
		MF	MF	M					10
		MF	MF	MF	M				12
			MF	MF		M			14
				MF		M			16
				MF			M		18
				MF			M		20
				MF			M		22
				MF				M	24
N° filetti per pollice - No° threads per inch									Pollici/ Inches
13	11	10	9	8					
									n°4
									n°6
									n°8
									n°10
									1/8"
									1/4"
									5/16"
									3/8"
UNC									7/16"
UNC									1/2"
	UNC								5/8"
		UNC							3/4"
			UNC						7/8"
	BSP			UNC					1"

**Codice - Code**

Materiali - <i>Material</i>	HSSE	HSSE	HSSE	HSSE
Imbocco - <i>Chamfer</i>	B	B	B	C
Tolleranza - <i>Tolerance</i>	6H	6H	6H	6H
Rivestimento - <i>Coating</i>	Vap-Ox	CrN		Nitr+Vap-Ox

[illegible]



M

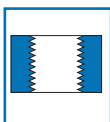


DIN 371
≤ M10

DIN 376
≥ M12

2,5xD

PM HSS



UN tutti i materiali - *all materials*

HR alta resistenza - *heat resistant*

IK lubrificazione interna - *internal cooling*

IK



UN

13710



UN

13720



HR

13730

Codice - Code

Material - *Material*

Imbocco - Chamfer

Tolleranza - *Tolerance*

Rivestimento - Coating

PM HSS

B

6H

PM HSS

B

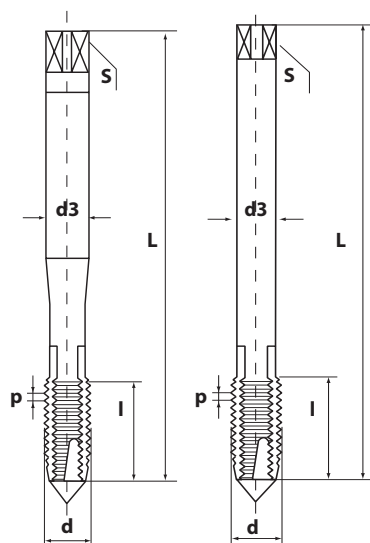
6H

PM HSS

B

6HX

[illegible]



M

DIN 371
≤ M10

DIN 376
≥ M12

3xD

PM HSS

VA inox - stainless steel

TI per titanio e leghe - *for titanium and alloys*

SYN per maschiatura rigida - *synchronized*



VA
13740

SYN

VA
13750



TI
13760

Codice - Code

Material - *Material*

Imbocco - Chamfer

Tolleranza - *Tolerance*

Rivestimento - Coating

PM HSS

B

6H

TiC

PM HSS

8

64

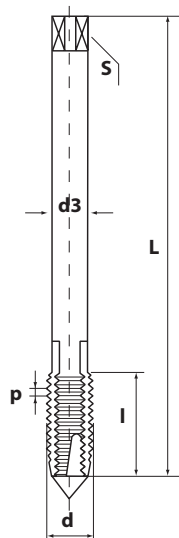
TiO₂

PM HSS

E

64

TiO₂[illegible]

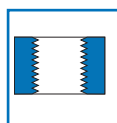


MF



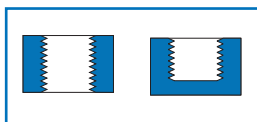
DIN 374

2,5xD



VA inox - stainless steel

HR alta resistenza - *heat resistant*



GG ghisal - cast iron



VA

13703



HR

13733



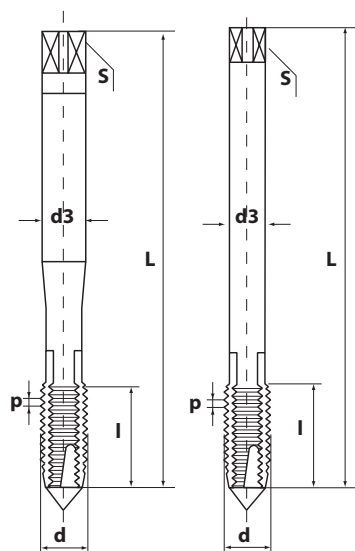
GG

13771

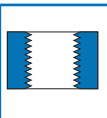
Codice - Code

Materiali - <i>Material</i>	HSSE	HSSE	HSSE
Imbocco - <i>Chamfer</i>	B	B	C
Tolleranza - <i>Tolerance</i>	6H	6H	6H
Rivestimento - <i>Coating</i>	Vap-Ox	TiN	Nitr+Vap-Ox

[illegible]



2,5xD



VA inox - stainless steel

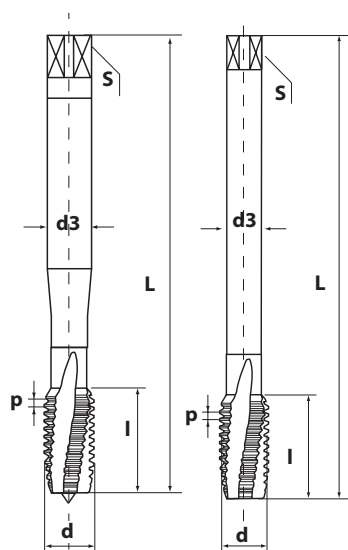


VA
13707

Codice - Code

Materiali - Material	HSSE
Imbocco - Chamfer	B
Tolleranza - Tolerance	2B
Rivestimento - Coating	Vap-Ox

[illegible]

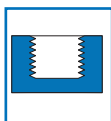


M

DIN 371

DIN 376

2xD



W materiali teneri - *light materials*

PM HSS

HR alta resistenza - *heat resistant*

TI per titanio e leghe - *for titanium and alloys*

IK lubrificazione interna - *internal cooling*



W
13781



HR
13731



HR
13732

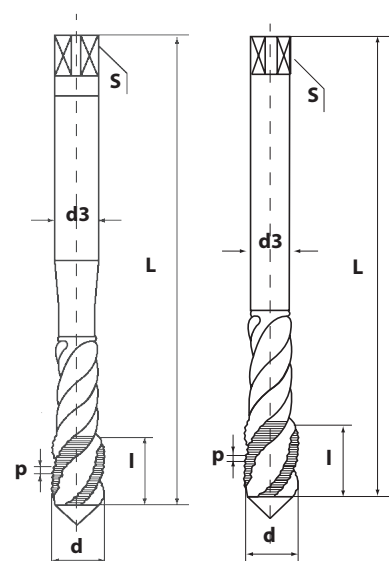


TI
13761

Codice - Code

Materiali - Material	HSSE	PMHSS	PM HSS	PM HSS
Imbocco - Chamfer	C R15	C R15	C R15	C R10
Tolleranza - Tolerance	6H	6HX	6HX	6HX
Rivestimento - Coating		Vap-Ox	TiCN	TiCN

[illegible]

**Codice - Code**

Material - *Material*

Imbocco - Chamfer

Tolleranza - *Tolerance*

Rivestimento - Coating

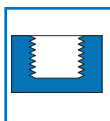
M



DIN 371
≤ M10

DIN 376
≥ M12

2,5xD



VA inox - stainless steel

CU leghe di rame - *copper alloys*

AL 2 eliche per alluminio e leghe
2 flutes for aluminium and alloys

W materiali teneri - *light materials*

13702-13742 = rastremato - back chamfer **3xD**



VA
13702



VA
13742



CU
13792



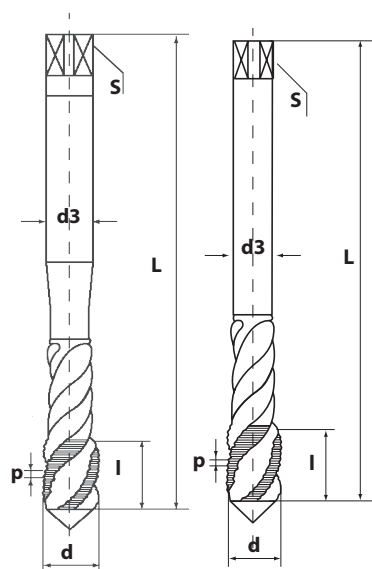
AL
13782



W
13783

Fonte - <i>Coat</i>	Materiali - <i>Material</i>	HSSE	HSSE	HSSE	HSSE	HSSE
	Imbocco - <i>Chamfer</i>	C R40	C R40	C R40	C R40	C R40
	Tolleranza - <i>Tolerance</i>	6H	6H	6H	6H	6H
	Rivestimento - <i>Coating</i>	Vap-Ox	TiCN	CrN		

[illegible]



M

DIN 371
≤ M10

DIN 376

$\geq M12$

2,5xD

PM HSS

VA inox - stainless steel

SYN per maschiatura rigida - *synchronized*

IK lubrificazione interna - *internal cooling*



SYN



VA

13752

IK

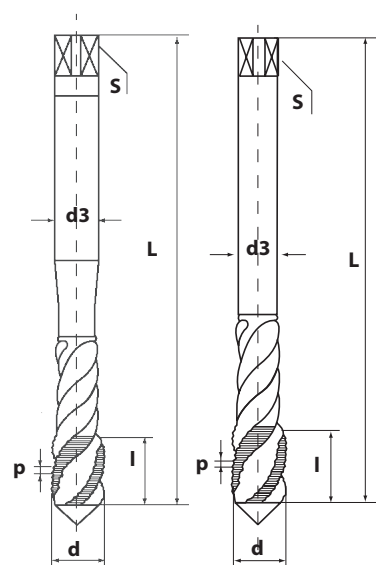


13744

Codice - Code

Materiali - Material	PM HSS	PM HSS	PM HSS
Imbocco - Chamfer	C R45	C R50	C R50
Tolleranza - Tolerance	6H	6HX	6HX
Rivestimento - Coating	TiN	TiCN	TiCN

[illegible]



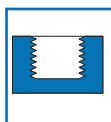
M

DIN 371
≤ M10

DIN 376
≥ M12

2,5xD

PM HSS



UN tutti i materiali - *all materials*

VA inox - stainless steel

IK lubrificazione interna - *internal cooling*

UN
13712UN
13722**Codice - Code**

Material - *Material*

Imbocco - Chamfer

Tolleranza - *Tolerance*

Rivestimento - Coating

PM HSS

PM HSS

C R40

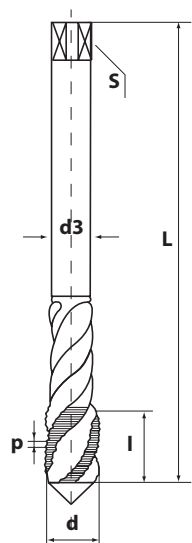
C R40

6H

6H

TiAlN

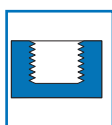
[illegible]



MF

DIN 374

2,5xD



HR alta resistenza - *heat resistant*

VA inox - stainless steel



13734

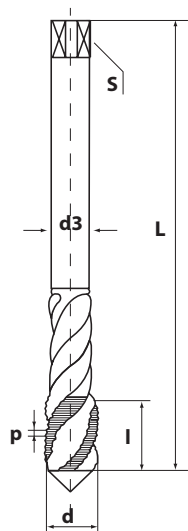


VA

13704

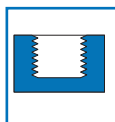
Codice - Code

Materiali - Material	HSSE	HSSE
Imbocco - Chamfer	C R35	C R40
Tolleranza - Tolerance	6H	6H
Rivestimento - Coating	TiN	Vap-Ox



BSP

DIN 5156



VA inox - stainless steel

13706 = rastremato - *back chamfer*

3xD

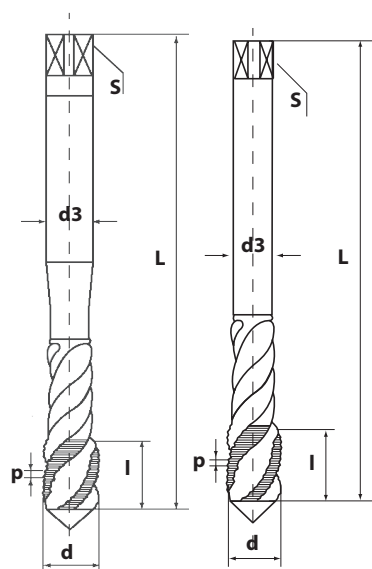


VA
13706

Codice - Code

Materiale - <i>Material</i>	HSSE
Imbocco - <i>Chamfer</i>	C R40
Tolleranza - <i>Tolerance</i>	<i>media-medium</i>
Rivestimento - <i>Coating</i>	Vap-Ox

[illegible]

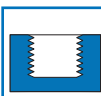


UNC

≈DIN371
≤3/8"

≈DIN376

≥7/16"



2,5xD

VA inox - stainless steel

13708 = rastremato - *back chamfer*

3xD



VA
13708

Codice - Code

Materiali - <i>Material</i>	HSSE
Imbocco - <i>Chamfer</i>	C R45
Tolleranza - <i>Tolerance</i>	2B
Rivestimento - <i>Coating</i>	Vap-Ox

[illegible]

A rullare
Cold forming

Scanalature diritte e imbocco corretto
Straight flutes and gun

Elica 15° sinistra e destra
15° left and right spiral flutes

Elica 40°,45°
Spiral flutes 40°,45°

Punta maschi rotti
Broken taps drill



Pg. 90



Pg. 91 - 96



Pg. 97 - 98



Pg. 99 - 103



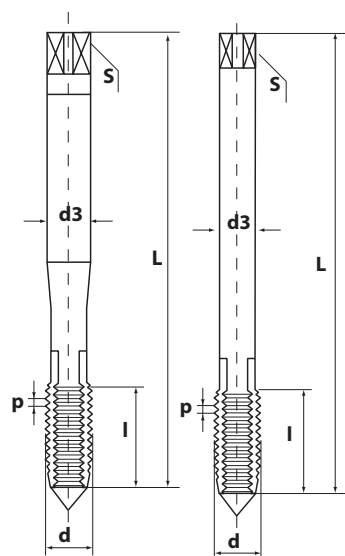
Pg. 104

**HIGH
TEC**

MASCHI A MACCHINA AD ALTE PRESTAZIONI
HIGH PERFORMANCE MACHINE TAPS

M-MF	Passo in mm - Pitch in mm						
	0,35	0,4	0,45	0,5	0,6	0,7	0,75
1,6	MF						
2		M					
2,5			M				
3				M			
3,5					M		
4				MF		M	
5				MF			
6				MF			MF
7							
8				MF			MF
10							MF
12							
14							
16							
18							
20							
22							
24							
26							
28							
30							
Pollici/ Inches	N° filetti per pollice - No° threads per inch						
	40	32	28	24	20	19	18
n°4	40	32	28	24	20	19	18
n°6							
n°8							
n°10		UNC					
1/8"	BSP						
1/4"			BSP				
5/16"				UNC			
3/8"			BSP		UNC	UNC	
7/16"							
1/2"						BSP	
5/8"						BSP	
3/4"						BSP	
1"						BSP	

Passo in mm - Pitch in mm								M-MF
0,8	1	1,25	1,5	1,75	2	2,5	3	
								1,6
								2
								2,5
								3
								3,5
								4
M								5
	M							6
	M							7
	MF	M						8
	MF	MF	M					10
	MF	MF	MF	M				12
	MF	MF	MF		M			14
	MF		MF		M			16
	MF		MF			M		18
	MF		MF			M		20
			MF			M		22
			MF				M	24
			MF					26
			MF					28
			MF					30
N° filetti per pollice - No° threads per inch								Pollici/ Inches
16	14	13	11	10	9	8		
								n°4
								n°6
								n°8
								n°10
								1/8"
								1/4"
								5/16"
UNC								3/8"
	UNC							7/16"
	BSP	UNC						1/2"
			UNC					5/8"
	BSP			UNC				3/4"
			BSP			UNC		1"

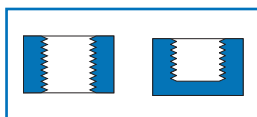


M

DIN 371
≤ M10

DIN 376
≥ M12

2,5xD



14070 = ghisā - cast iron



14204

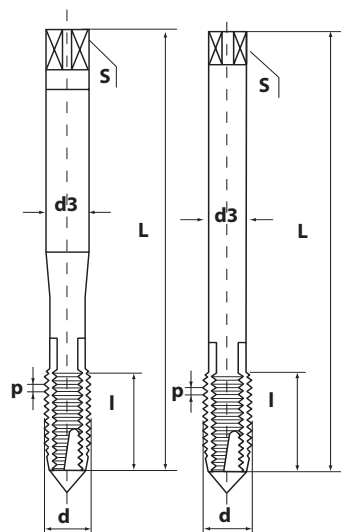


14070

Codice - Code

Materiale - <i>Material</i>	HSSE	HSSE
Imbocco - <i>Chamfer</i>	C	C
Tolleranza - <i>Tolerance</i>	6H	6H
Rivestimento - <i>Coating</i>		Nitr

[illegible]

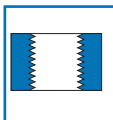


M

DIN 371
≤ M10

DIN 376
≥ M12

2,5xD



14051 = per inox - for stainless steel

14080 = per alluminio - *for aluminium*



14200

14215

14051

14080

Codice - Code

Material - *Material*

Imbocco - Chamfer

Tolleranza - *Tolerance*

Rivestimento - Coating

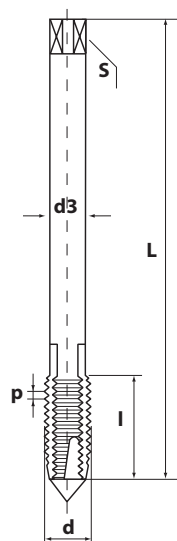
HSSE

HSSE

HSSE

HSSE

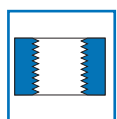
[illegible]



MF

DIN 374

2,5xD



**HIGH
TEC**



14210

Codice - Code

Materiale - Material

Imbocco - Chamfer

Tolleranza - Tolerance

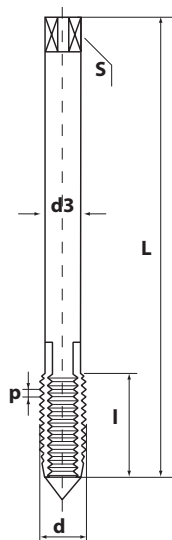
Rivestimento - Coating

HSSE

B

6H

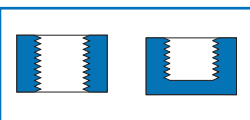
MF d mm	p mm	L mm	I mm	d3 h9 mm	S h12 mm		in stock
4	0,5	63	10	2,8	2,1	3,5	o
5	0,5	70	11	3,5	2,7	4,5	o
6	0,5	80	13	4,5	3,4	5,5	o
6	0,75	80	13	4,5	3,4	5,2	o
8	0,5	80	14	6	4,9	7,5	o
8	0,75	80	14	6	4,9	7,2	o
8	1	90	17	6	4,9	7	o
10	0,75	90	18	7	5,5	9,2	o
10	1	90	18	7	5,5	9	o
10	1,25	100	22	7	5,5	8,8	o
12	1	100	18	9	7	11	o
12	1,25	100	22	9	7	10,75	o
12	1,5	100	22	9	7	10,5	o
14	1	100	18	11	9	13	o
14	1,25	100	22	11	9	12,75	o
14	1,5	100	22	11	9	12,5	o
16	1	100	18	12	9	15	o
16	1,5	100	22	12	9	14,5	o
18	1	110	20	14	11	17	o
18	1,5	110	25	14	11	16,5	o
20	1	125	20	16	12	19	o
20	1,5	125	25	16	12	18,5	o
22	1,5	125	25	18	14,5	20,5	o
24	1,5	140	27	18	14,5	22,5	o
26	1,5	140	28	20	16	24,5	o
28	1,5	140	28	20	16	27	o
30	1,5	150	28	22	18	28,5	o



BSP

DIN 5156

2,5xD



14228 = per ghisa - *cast iron*



14228

14225

Codice - Code

code	code
Materiale - Material	

Imbocco - Chamfer

Tolleranza - *Tolerance*

Rivestimento - Coating

HSSE

C

media-medium

Nitr

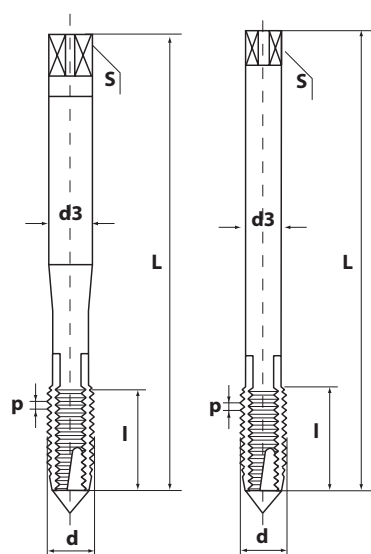
HSSE

B

media-medium

Safe medium

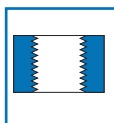
[illegible]



UNC

≈DIN371
≤3/8"

≈DIN376
≥7/16"



2,5xD

**Codice - Code**

Material - *Material*

Imbocco - Chamfer

Tolleranza - *Tolerance*

Rivestimento - Coating

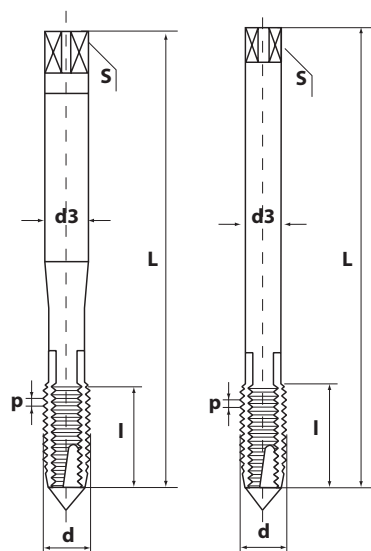
14240

HSSE

B

2B

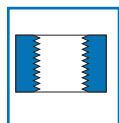
[illegible]



UNF

≈DIN371
≤3/8"

≈DIN376
≥7/16"



2,5xD



14250

Codice - Code

Material - *Material*

Imbocco - Chamfer

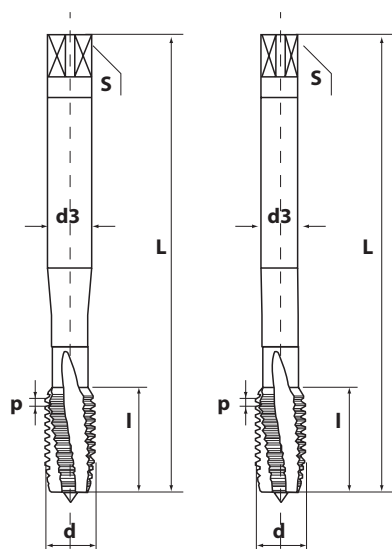
Tolleranza - *Tolerance*

Rivestimento - Coating

HSSE

B

2B

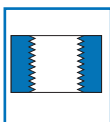


M

DIN 371
≤ M10

DIN 376
≥ M12

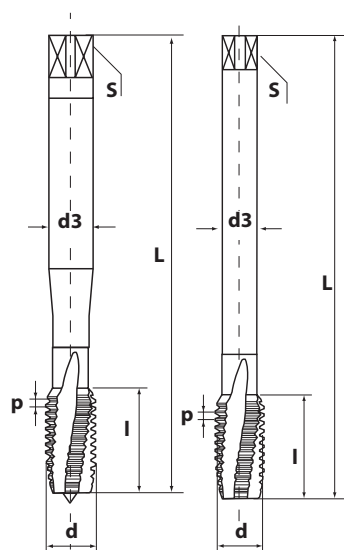
3xD



14550

Codice - Code

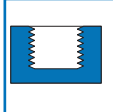
Materiali - Material	HSSE
Imbocco - Chamfer	D L15
Tolleranza - Tolerance	6H
Rivestimento - Coating	



M

DIN 371
≤ M10

DIN 376
≥ M12



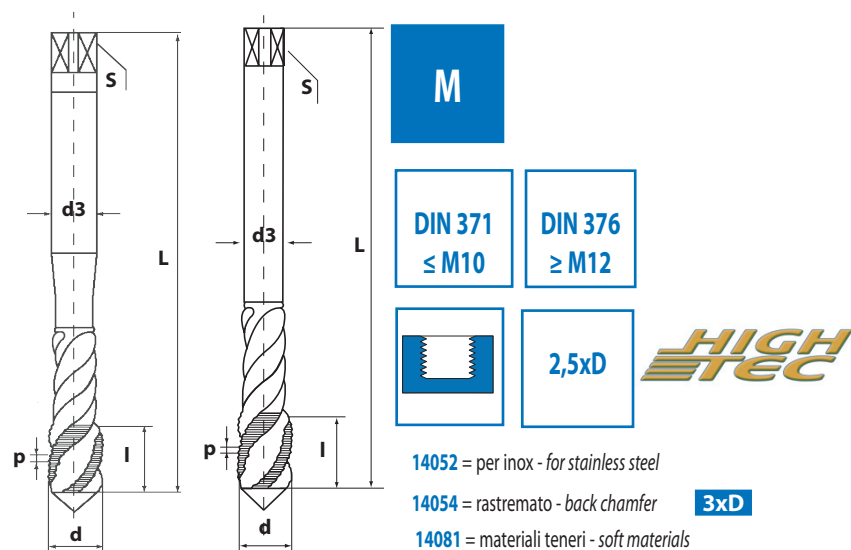
2xD



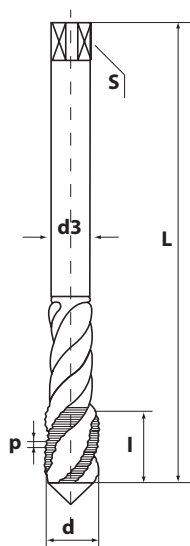
14300

Codice - Code

Materiale - Material	HSSE
Imbocco - Chamfer	C R15
Tolleranza - Tolerance	6H
Rivestimento - Coating	

**Codice - Code**

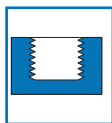
Materiali - Material	HSSE	HSSE	HSSE	HSSE
Imbocco - Chamfer	C R40	C R40	C R40	C R45
Tolleranza - Tolerance	6H	6H	6HX	6H
Rivestimento - Coating				



MF

DIN 374

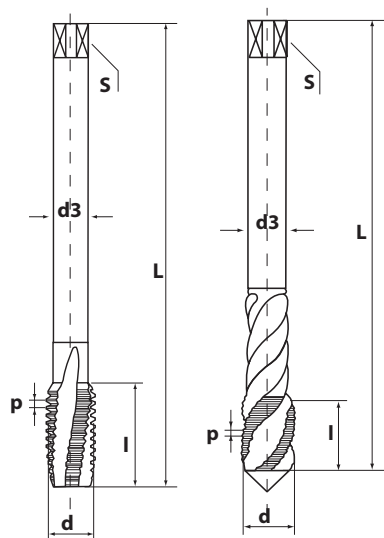
2,5xD



14316

Codice - Code

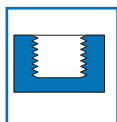
Materiale - <i>Material</i>	HSSE
Imbocco - <i>Chamfer</i>	C R40
Tolleranza - <i>Tolerance</i>	6H
Rivestimento - <i>Coating</i>	



BSP

DIN 5156

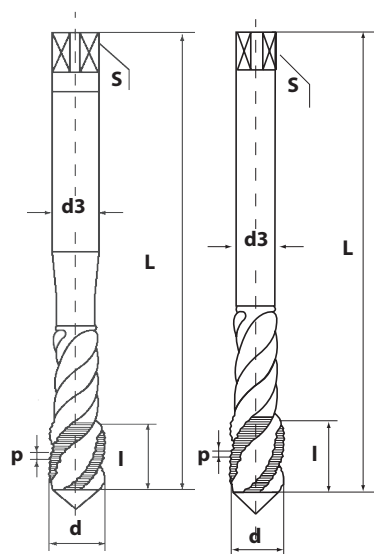
2,5xD



14317

Codice - Code

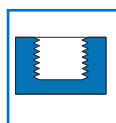
Materiale - <i>Material</i>	HSSE
Imbocco - <i>Chamfer</i>	C R40
Tolleranza - <i>Tolerance</i>	media-medium
Rivestimento - <i>Coating</i>	



UNC

≈DIN371
≤3/8"

≈DIN376
≥7/16"



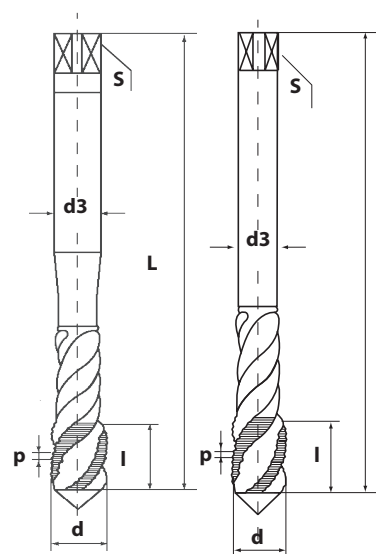
2,5xD



14247

Codice - Code

Materiale - Material	HSSE
Imbocco - Chamfer	C R40
Tolleranza - Tolerance	2B
Rivestimento - Coating	

**Codice - Code**

Imbocco - Chamfer

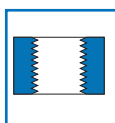
Tolleranza - *Tolerance*

Rivestimento - Coating

UNF

≈DIN371
≤3/8"

≈DIN376
≥7/16"



2,5xD

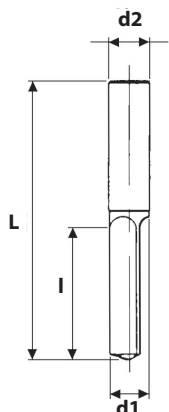


14257

HSSE

C R40

2B



**Norma
NUI**

UTILIZZO:

spianare il maschio rotto e creare un incavo con una fresa, quindi perforare con questa punta, infine togliere i frammenti e ripassare la punta da preforo.

velocità: 120/150 m/min; avanzamento 0,03-0,05 mm/giro

**HIGH
TEC**

USAGE:

flatten the broken tap and chase it with a mill, then drill with this tool and eventually take the chips out and drill again with the tapping drill.

speed: 120/150 m/min; feed: 0,03-0,05 mm/rev



13660

Codice - Code

Materiale - Material

Imbocco - Chamfer

Tolleranza - Tolerance

Rivestimento - Coating

HM

TiN

M	d1 e9 mm	d2 h6 mm	L mm	l mm	z n°	in stock
M4	3,3	6	50	15	3	o
M5	4,2	6	50	15	3	o
M6	5	6	50	15	3	o
M8	6,8	8	60	20	3	o
M10	8,5	10	70	25	3	o
M12	10,2	12	75	30	3	o

Assortimenti di punte per frantumazione maschi rotti

Broken taps crunching drills sets



13662

Codice - Code

Materiale - Material

Imbocco - Chamfer

Tolleranza - Tolerance

Rivestimento - Coating

Amplezza gamma - Size range

N° di punte - No. of drills

HM

TiN

M 4-5-6-8

4

in stock

o

NUOVO - NEW

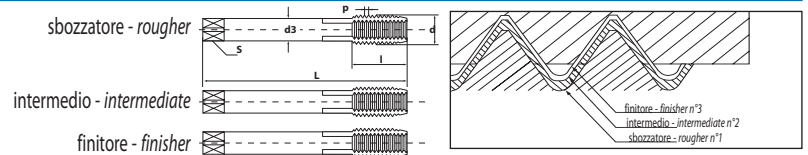
Materiali - Materials

HSS = acciaio super rapido - *high speed steel (AISI M2)*
 HSSE = acciaio super rapido al cobalto - *high speed steel with cobalt (AISI M35)*
 PM HSS = acciaio da polveri super rapido - *powder metal high speed steel*
 HM = metallo duro - *solid carbide*

Imbocco - Chamfer

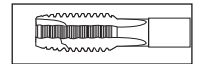
Maschi a mano - *Hand taps:*

C = 2-3 filetti del finitore (6-8 sbozzatore, 4-5 intermedio)
 2-3 *finisher threads (6-8 rougher, 4-5 intermediate)*

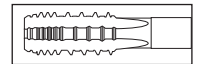


Maschi a macchina - *Machine taps:*

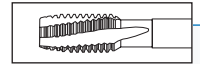
B = imbocco corretto, 4-5 filetti, per fori passanti - *spiral point nose, 4-5 threads, for through holes*



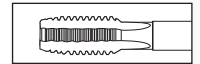
B AZ = imbocco corretto a filetti alternati, 4-5 filetti, per fori passanti - *spiral point and interrupted threads, 4-5 threads for through holes*



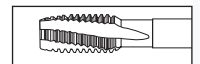
D L15 = elica 15° sinistra, 4-5 filetti, per fori passanti - *15° left handed flutes, 4-5 threads, for through holes*



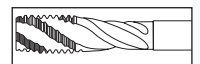
C = scanalature diritte, 2-3 filetti, per fori ciechi e passanti - *straight flutes, 2-3 threads for through and blind holes*



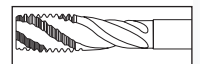
C R15 = elica destra 15°, 2-3 filetti, per fori ciechi - *15° right handed flutes, 2-3 threads for blind holes*



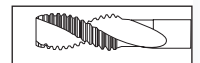
C R35-40 = elica destra 35-40°, 2-3 filetti, per fori ciechi profondi - *right handed flutes, 2-3 threads for deep blind holes*



C R45-50 = elica destra 45-50°, 2-3 filetti per fori ciechi in materiali tenaci - *right handed flutes, 2-3 threads, for long chipping materials*



C R45 = 2 eliche destre 45°, 2-3 filetti per fori ciechi in alluminio e leghe leggere - *2 right handed flutes, 2-3 threads, for aluminium and soft materials*



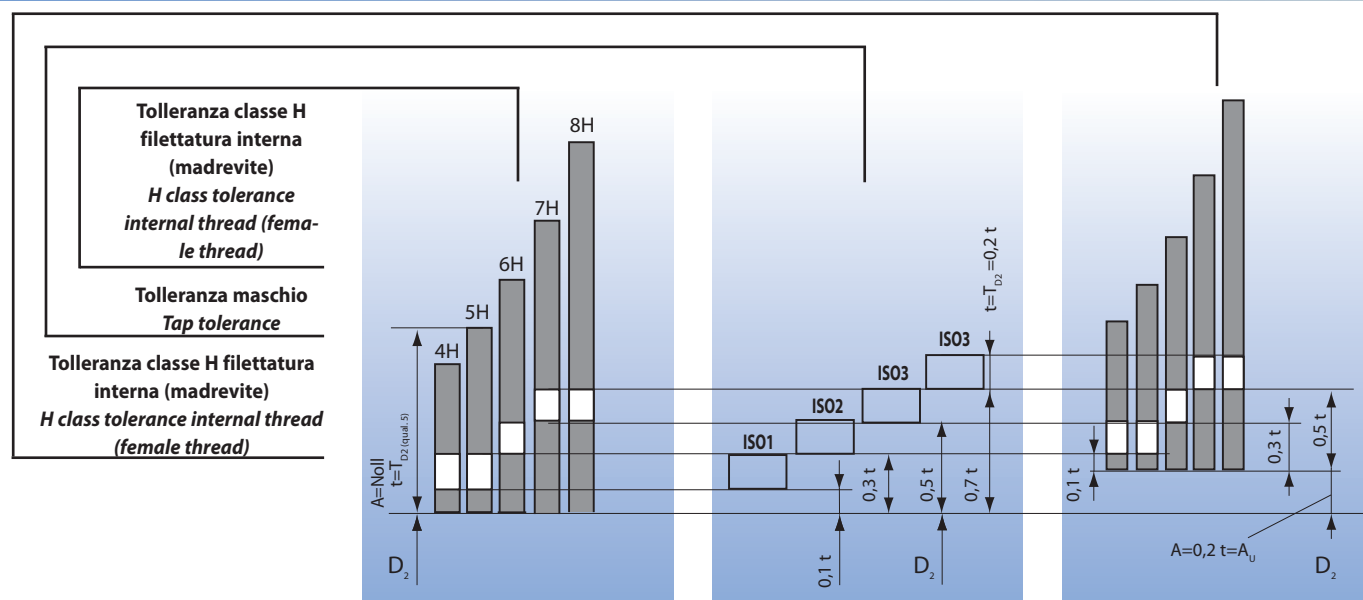
Filiere-Dies:

i.c.- s.p.= imbocco corretto, 1,75 filetti (2,25 nella filiera per inox 13805) - *spiral point, 1,75 threads (2,25 in die for stainless steel 13805)*

Classe di tolleranza del maschio - Tap tolerance class

ISO	DIN	ANSI BS	Classe di tolleranza del filetto interno Internal thread tolerance			
ISO 1	4 H	3 B	4 H	5 H		
ISO 2	6 H	2 B	4 G	5 G	6 H	
ISO 3	6 G	1 B			6 G	7 H 8 H
-	7 G	-			7 G	8 G

Classi di tolleranza per maschi e filetti interni - Tolerance class of taps and internal threads



Rivestimento - Coating

Vap-Ox = vaporizzato - oxidized (steam tempered)
 TiN = nitrato di titanio - titanium nitride
 TiCN = nitrato di titanio e carbonio - titanium and carbon nitride
 TiAlN = nitrato di titanio e alluminio - titanium and aluminium nitride
 Nitr = nitrato - nitrided
 CrN = nitrato di cromo - chromium nitride

Filiere-Dies:
 Lap = lappata, lucida - lapped, bright
 Vap-Ox = vaporizzato - oxidized (steam tempered)



Tutti i maschi High Tech possono venir ricoperti TiN o TiAlN su richiesta
 All High Tech taps can be coated TiN or TiAlN on demand

Offerte

Le offerte sono sempre senza impegno, salvo diverse indicazioni in contrario, e sono subordinate alle presenti condizioni di vendita che si considerano conosciute e accettate senza riserva da tutti i committenti e valide a tutti gli effetti di legge. I prezzi specificati nelle stesse potranno essere riveduti qualora prima dell'eventuale ordinazione o durante il corso della fornitura dovessero verificarsi aumenti nei costi dei materiali o in quelli della mano d'opera. Quando trattasi di utensili normali gli impegni delle offerte si intendono da noi assunti salvo venduto.

Ordinazioni

Ordine minimo Euro 150,00.

Ogni ordinazione è da ritenersi accettata tacitamente alle nostre condizioni di vendita. Per forniture di utensili in esecuzione speciale e non prodotti in serie, ci riserviamo, per esigenze di produzione, la facoltà di fornire un quantitativo in più o in meno rispetto a quello ordinato.

Consegna

I termini di consegna si intendono sempre e unicamente informativi. Essi verranno prorogati in caso di forza maggiore senza che il committente abbia diritto di annullare l'ordine o di esigere alcun indennizzo di nessuna specie. E' facoltà della NUI UTENSILI EUROPA s.r.l. derogare al punto di cui sopra. Le spedizioni vengono sempre eseguite per conto del committente e i materiali viaggiano a suo rischio e pericolo. I reclami per eventuali manomissioni e ammanchi devono essere sempre ed esclusivamente presentati dal destinatario al vettore. L'eventuale restituzione di materiale non ordinato o difettoso potrà essere attuata solamente dopo averci informato e aver richiesto il codice di restituzione.

Imballo

Viene sempre effettuato al costo.

Condizioni di vendita

L'azienda si riserva di poter modificare, in ogni momento, le condizioni di vendita accordate al cliente.

Pagamenti

Il pagamento dell'importo della fornitura sarà volta per volta concordato e confermato nella nostra conferma di ordinazione stessa. I pagamenti devono essere eseguiti al nostro domicilio di V. Ratto 17 Genova Prà. Resta convenuto che i pagamenti fatti a mezzo tratta o con accettazione di cambiali a firma del cliente non costituiscono modificazione al patto per il quale i pagamenti debbono essere fatti al predetto nostro domicilio. Sulle somme pagate in ritardo saranno conteggiati gli interessi bancari correnti, dalla data di scadenza a quella dell'effettivo incasso, maggiorati di eventuali spese accessorie.

Garanzie

Garantiamo la buona costruzione e la bontà dei materiali di nostra fornitura. Gli utensili riconosciuti difettosi da ambo le parti saranno da noi sostituiti gratuitamente. Si intende cessata ogni garanzia qualora l'inefficienza degli utensili provenisse da un'usura normale, da imperizia degli utilizzatori o dal non aver osservato le disposizioni che la buona regola e le norme vigenti prescrivono.

Foro Competente

Per ogni controversia viene riconosciuta l'esclusiva competenza del Foro di Genova.

NB: NUI UTENSILI EUROPA s.r.l. si riserva il diritto di apportare modifiche e variazioni ai dati contenuti nel presente listino senza obbligo di preavviso.

Offers

Offers are never binding, unless otherwise indicated, and are subordinated to these general sales conditions. These conditions shall be considered as being known to and accepted without reserve by all clients, and remain valid under all effects of law. The prices specified in these offers can be modified, either before ordering during supply, whenever the cost of material or manual labour increases. When dealing with normal tools, we mean the offer obligation to be subject to prior sale.

Orders

We will accept orders for not less than Euro 150,00.

Every order is meant as accepted under our sales conditions.

When supplying tools made on demand and non-standard items, we reserve the right to supply a quantity that may be slightly less or slightly more than the one quoted in the order, because of production requirements.

Delivery

The delivery terms are always and only informative. If the delivery terms extended because of greater forces, the client cannot cancel the order or request damages of any type. Shipments are always carried out by the client and the materials travel at his/her own risk of danger. Complaints for any tampering and missing pieces must always and only be presented by the receiver to the shipping agent. The articles not ordered or damaged will be returned only after having informed us and required our internal code of substitution.

Packaging

Always at cost.

Sales conditions

The company reserves the right to modify the sales conditions agreed upon with client at any moment.

Payments

Payment of the invoiced amount shall be agreed upon when ordering, and confirmed in our order confirmation.

Payments should be made to our address in V. G. Ratto 17 Genova Pr. It is agreed that payments made by draft or with the acceptance of promissory notes signed by the client do not modify the fact that payments must be made to our address, given above.

The current bank interest shall be added for delays in payment from the deadline to the true payment date, increased by possible additional costs.

Guarantees

We guarantee the good construction and quality of the material supplied by us. The tools which can not be used will be replaced free of charge. Any guarantee shall cease when the irregularity of the tools is caused by normal wear or wrong use by the user or when the laws and current standards are not observed.

Competent court

The Genoa Court shall have sole jurisdiction if any controversy should arise.

Important: NUI UTENSILI EUROPA s.r.l. reserves the right to modify and vary the data contained in this price list without having to forewarn the client.



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