

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

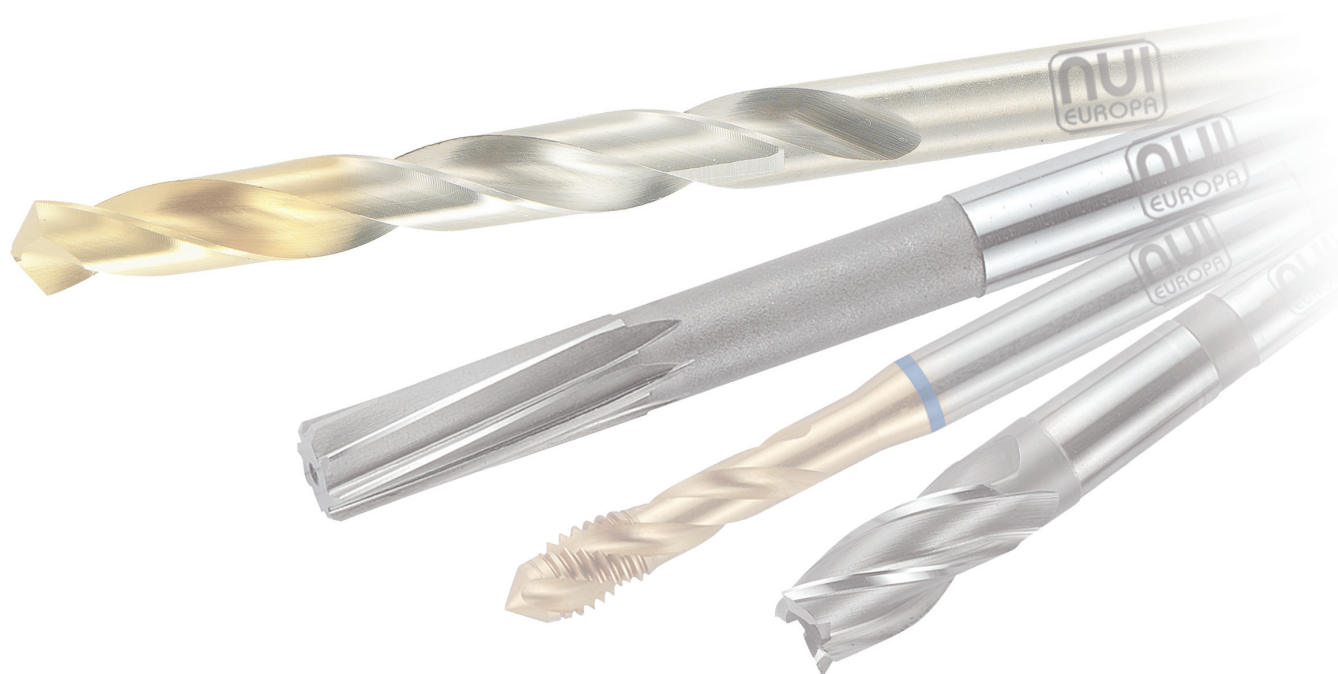
NUI UTENSILI EUROPA is a brand new company born from Nui Utensili, i.e. Nuova Utensileria Italiana (New Italian Tools) derived in turn from the break up of Ansaldo Tools from the homonymous great Genoese industry. The new company can boast its great experience in building and selling metal cutting tools 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.



Frese a 2, 3, 4 taglienti
2, 3, 4 flutes end mills



Pg. 8 - 17

Frese per alluminio
End mills for aluminium



Pg. 18-19

Frese per sgrossare /semifinire
End mills for roughing /semifinishing



Pg. 20--26

Frese ad angolo e per scanalature
Dovetail end mills and cutters



Pg. 27 - 31

FRESE A CODOLO CILINDRICO - STRAIGHT SHANK END MILLS

Frese a 2, 3, 4 taglienti
2, 3, 4 flutes end mills



Pg. 36 - 43

Frese per sgrossare e semifinire
End mills for roughing and semi-finishing



Pg. 44 - 49

Frese per scanalature
Milling cutters



Pg. 50

FRESE A CODOLO CONICO - MORSE TAPER SHANK END MILLS

Frese a manicotto DIN 841
DIN 841 shell end mills



Pg. 53

Frese a manicotto DIN 1880
DIN 1880 shell end mills



Pg. 54

Frese a disco
Side and face milling cutters



Pg. 55 - 56

FRESE A MANICOTTO E A DISCO - SHELL END MILLS AND SIDE AND FACE MILLING CUTTERS

Frese a 2, 3, 4 taglienti
2, 3, 4 flutes end mills



Pg. 60-74

Frese toroidali
End mills with corner radius



Pg. 75 - 76

Frese per alluminio e mini
Al end mills and micro series



Pg. 77 - 79

Frese per superfiniture
End mills for superfinishing



Pg. 80

Frese per sgrossare/s.finire e finire
End mills for roughing/s-finishing and finishing



Pg. 81 - 83

FRESE IN METALLO DURO - SOLID CARBIDE END MILLS

frese-mills											
COD	pag.	COD	pag.	COD	pag.	COD	pag.	COD	pag.	COD	pag.
15390	65	15530	68	15690	73	16524TIALN	22	16546	28	16628	47
15400	60	15540	68	15695	73	16525	13	16550	17	16630	42
15401	77	15550	69	16500	8	16525ALCRN	13	16550TIALN	17	16634	48
15402	77	15555	69	16500ALCRN	8	16525TIALN	13	16555	12	16635	40
15405	64	15560	78	16500TIALN	8	16526	24	16555TIALN	12	16636	49
15410	60	15561	79	16501	18	16526TIALN	24	16560	27	16638	41
15420	60	15570	78	16502	19	16528	25	16561	28	16645	39
15430	61	15571	79	16505	9	16528TIALN	25	16570	27	16645TIALN	39
15438	62	15590	75	16505TIALN	9	16530	16	16571	28	16650	43
15440	61	15603	81	16510	10	16530ALCRN	16	16575	29	16690	50
15450	61	15641	76	16510ALCRN	10	16530TIALN	16	16580	30	16700	53
15453	63	15651	76	16510TIALN	10	16532	23	16590	31	16705	54
15454	63	15655	80	16515	11	16532TIALN	23	16600	36	16722	53
15455	66	15656	80	16515TIALN	11	16534	26	16610	37	16724	54
15456	63	15658	80	16520	20	16534TIALN	26	16622	44	16726	53
15458	62	15661	67	16520ALCRN	20	16535	14	16624	45	16728	54
15460	82	15680	70	16520TIALN	20	16535TIALN	14	16625	38	16800	55
15520	81	15682	71	16522	21	16538	15	16625TIALN	38		
15522	81	15684	71	16522TIALN	21	16538TIALN	15	16626	46		
15525	74	15685	72	16524	22	16545	27	16626TIALN	46		

Frese a 2, 3, 4 taglienti
2, 3, 4 flutes end mills



Pg. 8 - 17

Frese per alluminio
End mills for aluminium



Pg. 18-19

Frese per sgrossare /semifinire
End mills for roughing /semifinishing



Pg. 20--26

Frese ad angolo e per scanalature
Dovetail end mills and cutters



Pg. 27-31

FRESE A CODOLO CILINDRICO ***STRAIGHT SHANK END MILLS***

Ø	Profondità di passata in mm - Milling depth in mm				
	≤5	≤10	≤15	≤20	≤25
1	DIN 327D/844BK/N.NUI				
1,5	DIN 327D/N. NUI				
2	DIN 327D	DIN 844 B/ ≈844B/844BK/N.NUI			
2,5	DIN 327D	≈DIN 844B/N.NUI			
3	DIN 327D	DIN 844 B/ ≈844B/844BK/N.NUI	DIN 844B/N.NUI		
3,5		DIN 327D/N. NUI			
4		DIN 327D	DIN 844 B/ ≈844B/844BK/N.NUI	DIN 844B	
4,5		DIN 327D	Norma NUI		
5		DIN 327D	DIN 844 B/ ≈844B/844BK/N.NUI		DIN 844B
5,5		DIN 327D	Norma NUI		
6		DIN 327D	DIN 844 B/ ≈844B/844BK/N.NUI		DIN 844B
6,5		DIN 327D		Norma NUI	
7		DIN 327D	Norma NUI	DIN 844 B/ ≈844B/844BK/N.NUI	
7,5		DIN 327D		Norma NUI	
8			DIN 327D/N.NUI	DIN 844 B/ ≈844B/844BK/N.NUI	
8,5			DIN 327D	Norma NUI	
9			DIN 327D/N.NUI	DIN 844 B/ ≈844B/844BK/N.NUI	
9,5			DIN 327D		
10			DIN 327D/N. NUI		DIN 844 B/ ≈844B/844BK/N.NUI
11			DIN 327D		DIN 844 B/ ≈844B/844BK/N.NUI
12				DIN 327D	
13				DIN 327D	
14				DIN 327D	
15				DIN 327D	
16	DIN 851 AB			DIN 327D	
17				DIN 327D	
18				DIN 327D	
19		DIN 851		DIN 327D	
20					DIN 327D
21					DIN 327D
22		DIN 851			DIN 327D
23					
24					
25			DIN 851 AB		
26					
28			DIN 851		
30					
32			DIN 851 AB		

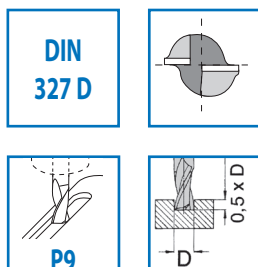
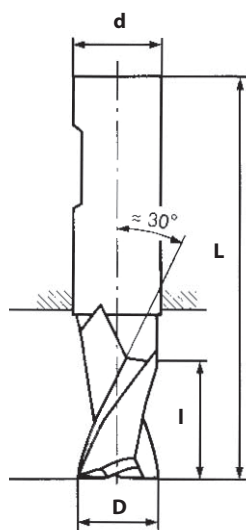
Profondità di passata in mm - Milling depth in mm				Ø
≤30	≤35	≤40	≤45	
				1
				1,5
				2
				2,5
				3
				3,5
				4
				4,5
				5
				5,5
				6
				6,5
DIN 844B				7
				7,5
		DIN 844B		8
				8,5
		DIN 844B		9
				9,5
			DIN 844B	10
			DIN 844B	11
DIN 844 B/ ≈844B/844BK/N.NUI				12
DIN 844 B/ ≈844B/844BK/N.NUI				13
DIN 844 B/ ≈844B/844BK/N.NUI				14
DIN 844 B/ ≈844B/844BK/N.NUI	≈DIN 844 B			15
	DIN 844 B/ ≈844B/844BK/N.NUI			16
	≈DIN 844 B/Norma NUI			17
	DIN 844 B/ ≈844B/844BK/N.NUI			18
	Norma NUI	≈DIN 844 B/Norma NUI		19
		DIN 844 B/ ≈844B/844BK/N.NUI		20
		≈DIN 844 B/Norma NUI		21
		DIN 844 B/ ≈844B/844BK/N.NUI		22
		Norma NUI		23
DIN 327D			DIN 844 B/ ≈844B/844BK/N.NUI	24
DIN 327D			DIN 844 B/ ≈844B/844BK/N.NUI	25
DIN 327D			DIN 844 B/ ≈844B/844BK/N.NUI	26
DIN 327D			DIN 844 B/ ≈844B/844BK/N.NUI	28
DIN 327D			DIN 844 B/ ≈844B/844BK/N.NUI	30
	DIN 327D			32

Ø	Profondità di passata in mm - Milling depth in mm				
	≤50	≤55	≤60	≤65	≤70
1					
1,5					
2					
2,5					
3					
3,5					
4					
4,5					
5					
5,5					
6			Norma NUI		
6,5					
7					
7,5					
8				Norma NUI	
8,5					
9					
9,5					
10					Norma NUI
11					
12		DIN 844B			
13		DIN 844B			
14		DIN 844B			
15		DIN 844B			
16				DIN 844B	
17				DIN 844B	
18				DIN 844B	
19				DIN 844B	
20					
21					
22					
23					
24					
25					
26					
28					
30					
32		DIN 844 B/ ≈844B/844BK/N.NUI			

Profondità di passata in mm - Milling depth in mm				Ø
≤75	≤80	≤90	≤110	
				1
				1,5
				2
				2,5
				3
				3,5
				4
				4,5
				5
				5,5
				6
				6,5
				7
				7,5
				8
				8,5
				9
				9,5
				10
				11
	Norma NUI			12
				13
	Norma NUI			14
				15
				16
				17
			Norma NUI	18
				19
DIN 844B			Norma NUI	20
				21
DIN 844B				22
				23
		DIN 844B		24
		DIN 844B		25
		DIN 844B		26
		DIN 844B		28
		DIN 844B		30
			DIN 844B	32

Ø	Raggio di passata in mm - Milling radius in mm								
	1	1,5	2	2,5	3	4	5	6	7
8	DIN 6518								
10		DIN 6518	DIN 6518	DIN 6518					
12					DIN 6518				
14						DIN 6518			
16							DIN 6518		
21								DIN 6518	
24									DIN 6518
28									
35									
48									
54									
58									
Ø	Profondità di passata in mm - Milling depth in mm								
	2	2,5	3	4	5	6	7	8	10
10,5	DIN 850D	DIN 850D	DIN 850D						
13,5	DIN 850D		DIN 850D	DIN 850D					
16,5			DIN 850D	DIN 850D	DIN 850D	DIN 850D			
19,5			DIN 850D	DIN 850D	DIN 850D	DIN 850D			
22,5				DIN 850D	DIN 850D	DIN 850D	DIN 850D	DIN 850D	
25,5					DIN 850D	DIN 850D	DIN 850D	DIN 850D	
28,5						DIN 850D	DIN 850D	DIN 850D	DIN 850D
32,5						DIN 850D	DIN 850D	DIN 850D	DIN 850D
45,5									DIN 850D

Raggio di passata in mm - Milling radius in mm							Ø
8	10	12	15	16	18	20	
							8
							10
							12
							14
							16
							21
DIN 6518							24
	DIN 6518						28
		DIN 6518					35
			DIN 6518	DIN 6518			48
					DIN 6518		54
						DIN 6518	58
				Angolo di passata in gradi - Milling angle degrees			Ø
				45°	60°	70°	
				DIN 1833C/DIN 1833D	DIN 1833C/DIN 1833D	DIN 1833C/DIN 1833D	16
				DIN 1833C/DIN 1833D	DIN 1833C/DIN 1833D	DIN 1833C/DIN 1833D	20
				DIN 1833C/DIN 1833D	DIN 1833C/DIN 1833D	DIN 1833C/DIN 1833D	25



16500



16500TIALN

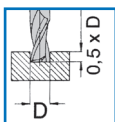
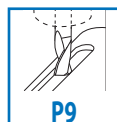
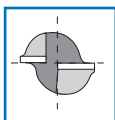
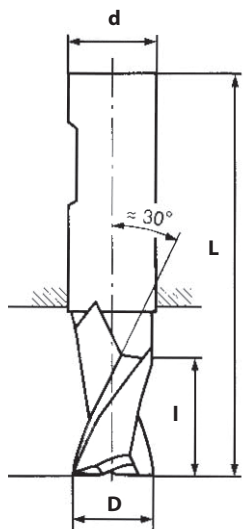


16500ALCRN

Codice - Code

Materiale - Material	HSSCO 8	HSSCO 8	PM HSS
N° taglienti - No. of flutes	2	2	2
Elica - Helix	30°	30°	30°
Tolleranza - Tolerance	e8	e8	e8
Rivestimento - Coating		TiAlN	AlCrN

D mm	L mm	d h6 mm	I mm	z	in stock	in stock	in stock
1	47	4	6	2	●	●	●
1,5	48	4	6	2	●	●	●
2	48	4	6	2	●	●	●
2,5	49	5	6	2	●	●	●
3	49	5	6	2	●	●	●
3,5	50	6	6	2	●	●	●
4	51	7	6	2	●	●	●
4,5	51	7	6	2	●	●	●
5	52	8	6	2	●	●	●
5,5	52	8	6	2	●	●	●
6	52	8	6	2	●	●	●
6,5	60	10	10	2	●	●	●
7	60	10	10	2	●	●	●
7,5	60	10	10	2	●	●	●
8	61	11	10	2	●	●	●
8,5	61	11	10	2	●	●	●
9	61	11	10	2	●	●	●
9,5	61	11	10	2	●	●	●
10	63	13	10	2	●	●	●
11	70	13	12	2	●	●	●
12	73	16	12	2	●	●	●
13	73	16	12	2	●	●	●
14	73	16	12	2	●	●	●
15	73	16	12	2	●	●	●
16	79	19	16	2	●	●	●
17	79	19	16	2	●	●	●
18	79	19	16	2	●	●	●
19	79	19	16	2	●	●	●
20	88	22	20	2	●	●	●
21	88	22	20	2	●	●	●
22	88	22	20	2	●	●	●
24	102	26	25	2	●	●	●
25	102	26	25	2	●	●	●
26	102	26	25	2	●	●	●
28	102	26	25	2	●	●	●
30	102	26	25	2	●	●	●
32	112	32	32	2	●	●	●



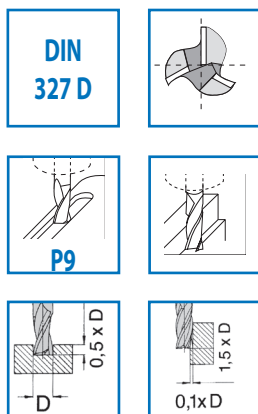
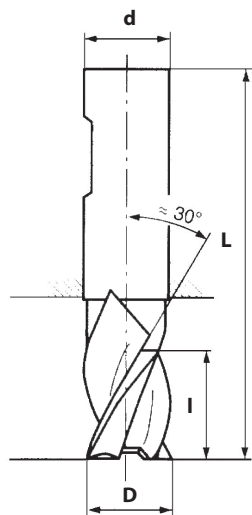
16505

16505TIALN

Codice - Code

Materiale - <i>Material</i>	HSSCO 8	HSSCO 8
N° taglienti - <i>No. of flutes</i>	2	2
Elica - <i>Helix</i>	30°	30°
Tolleranza - <i>Tolerance</i>	e8	e8
Rivestimento - <i>Coating</i>		TiAlN

D mm	L mm	I mm	d h6 mm	z	in stock	in stock
2	54	7	6	2		
2,5	56	8	6	2		
3	56	8	6	2		
4	63	11	6	2		
5	68	13	6	2		
6	68	13	6	2		
7	80	16	10	2		
8	88	19	10	2		
9	88	19	10	2		
10	95	22	10	2		
11	95	25	12	2		
12	110	26	12	2		
13	110	26	12	2		
14	110	26	12	2		
15	110	26	16	2		
16	123	32	16	2		
17	123	32	16	2		
18	123	32	16	2		
19	141	38	20	2		
20	141	38	20	2		
22	141	38	20	2		
24	166	45	25	2		
25	166	45	25	2		
26	166	45	25	2		
28	166	45	25	2		
30	166	45	25	2		
32	186	53	32	2		



16510



16510TIALN

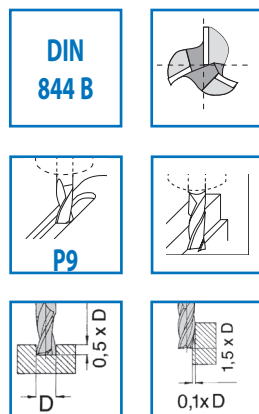
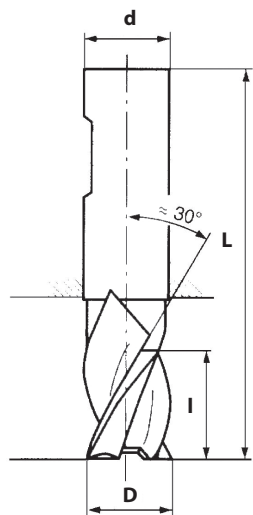


16510ALCRN

Codice - Code

Materiale - Material	HSSCO 8	HSSCO 8	PM HSS
N° taglienti - No. of flutes	3	3	3
Elica - Helix	30°	30°	30°
Tolleranza - Tolerance	e8	e8	e8
Rivestimento - Coating		TiAlN	AlCrN

D mm	L mm	I mm	d h6 mm	z	in stock	in stock	in stock
1	47	3	6	3			o
1,5	47	3	6	3	o	o	
2	48	4	6	3	o	o	o
2,5	49	5	6	3	o	o	
3	49	5	6	3	o	o	o
3,5	50	6	6	3	o	o	
4	51	7	6	3	o	o	o
4,5	51	7	6	3	o	o	
5	52	8	6	3	o	o	o
5,5	52	8	6	3	o	o	
6	52	8	6	3	o	o	o
6,5	60	10	10	3	o	o	
7	60	10	10	3	o	o	o
7,5	60	10	10	3	o	o	
8	61	11	10	3	o	o	o
8,5	61	11	10	3	o	o	
9	61	11	10	3			o
10	63	13	10	3	o	o	o
12	73	16	12	3	o	o	o
14	73	16	12	3	o	o	o
16	79	19	16	3	o	o	o
18	79	19	16	3	o	o	o
20	88	22	20	3	o	o	o
22	88	22	20	3	o	o	o
25	102	26	25	3	o	o	o
26	102	26	25	3	o	o	
28	102	26	25	3	o	o	
30	102	26	25	3	o	o	
32	112	32	32	3	o	o	



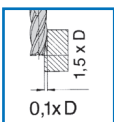
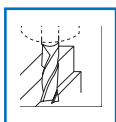
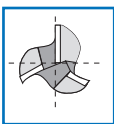
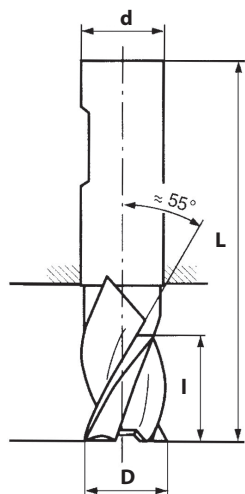
16515

16515TIALN

Codice - Code

Materiale - <i>Material</i>	HSSCO 8	HSSCO 8
N° taglienti - <i>No. of flutes</i>	3	3
Elica - <i>Helix</i>	30°	30°
Tolleranza - <i>Tolerance</i>	e8	e8
Rivestimento - <i>Coating</i>		TIAlN

[illegible]



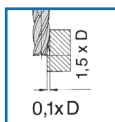
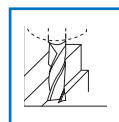
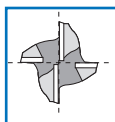
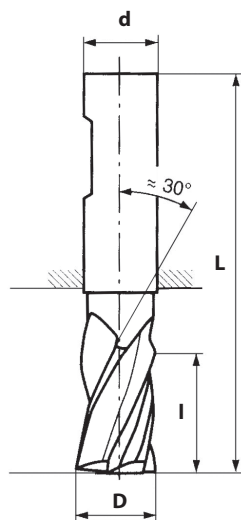
16555

16555TIALN

Codice - Code

Materiale - <i>Material</i>	HSSCO 8	HSSCO 8
N° taglienti - <i>No. of flutes</i>	3	3
Elica - <i>Helix</i>	55°	55°
Tolleranza - <i>Tolerance</i>	js14	js14
Rivestimento - <i>Coating</i>		TA1N

[illegible]



16525

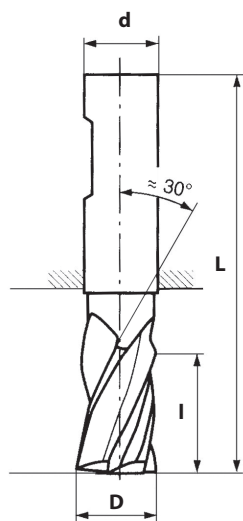
16525TIALN

16525ALCRN

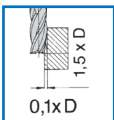
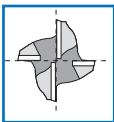
Codice - Code

Materiale - Material	HSSCO 8	HSSCO 8	PM HSS
N° taglienti - No. of flutes	4-6	4-6	4
Elica - Helix	30°	30°	30°
Tolleranza - Tolerance	js14	js14	+0,03/0
Rivestimento - Coating		TiAlN	AlCrN

[illegible]



**DIN
844 B**



16535

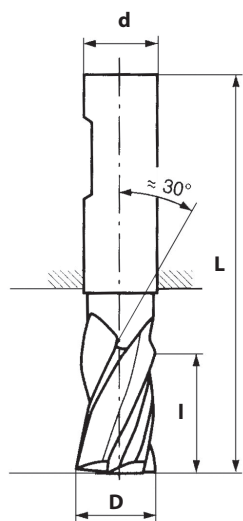


16535TIALN

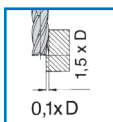
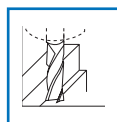
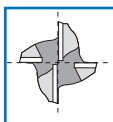
Codice - Code

Materiale - <i>Material</i>	HSSCO 8	HSSCO 8
N° taglienti - <i>No. of flutes</i>	4-6	4-6
Elica - <i>Helix</i>	30°	30°
Tolleranza - <i>Tolerance</i>	js14	js14
Rivestimento - <i>Coating</i>		TA1N

[illegible]



**Norma
NUI**



16538



16538TIALN

Codice - Code

Materiale - <i>Material</i>	HSSCO 8	HSSCO 8
N° taglienti - <i>No. of flutes</i>	4	4
Elica - <i>Helix</i>	30°	30°
Tolleranza - <i>Tolerance</i>	js14	js14
Rivestimento - <i>Coating</i>		TiAlN

[illegible]

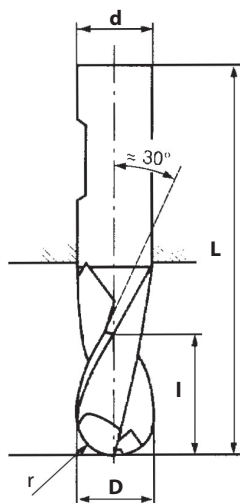


16530ALCRN

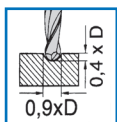
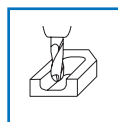
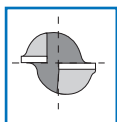
Codice - Code

Materiale - <i>Material</i>	HSSCO 8	HSSCO 8	PM HSS
N° taglienti - <i>No. of flutes</i>	2	2	2
Elica - <i>Helix</i>	30°	30°	0/-0.03
Tolleranza - <i>Tolerance</i>	e8	e8	e8
Rivestimento - <i>Coating</i>		TiAlN	AlCrN

D mm	L mm	I mm	d h6 mm	z	in stock	in stock	in stock
1	47	2,5	6	2			0
2	48	4	6	2			0
3	49	5	6	2	0	0	0
4	51	7	6	2	0	0	0
5	52	8	6	2	0	0	0
6	52	8	6	2	0	0	0
7	60	10	10	2	0	0	0
8	61	11	10	2	0	0	0
9	61	11	10	2	0	0	0
10	63	13	10	2	0	0	0
11	70	13	12	2	0	0	
12	73	16	12	2	0	0	0
13	73	16	12	2	0	0	
14	73	16	12	2	0	0	0
15	73	16	12	2	0	0	
16	79	19	16	2	0	0	0
17	79	19	16	2	0	0	
18	79	19	16	2	0	0	0
19	79	19	16	2	0	0	
20	88	22	20	2	0	0	0
22	88	22	25	2			0
25	102	26	25	2			0



≈ DIN
844 B



16550

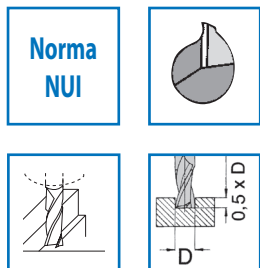
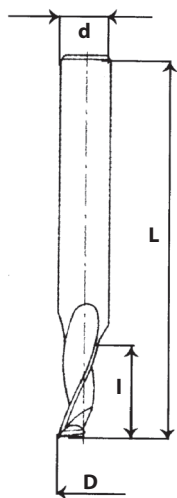


16550TIALN

Codice - Code

Materiale - <i>Material</i>	HSSCO 8	HSSCO 8
N° taglienti - <i>No. of flutes</i>	2	2
Elica - <i>Helix</i>	30°	30°
Tolleranza - <i>Tolerance</i>	e8	e8
Rivestimento - <i>Coating</i>		TiAlN

[illegible]

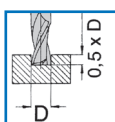
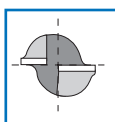
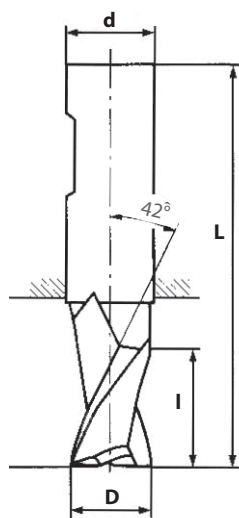


16501

Codice - Code

Materiale - <i>Material</i>	HSSCO 8
N° taglienti - <i>No. of flutes</i>	1
Elica - <i>Helix</i>	30°
Tolleranza - <i>Tolerance</i>	js14
Rivestimento - <i>Coating</i>	

[illegible]

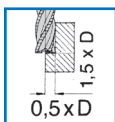
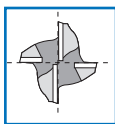


16502

Codice - Code

Materiale - Material	HSSCO 8
N° taglienti - No. of flutes	2
Elica - Helix	42°
Tolleranza - Tolerance	js14
Rivestimento - Coating	

D mm	L mm	l mm	d h6 mm	z	in stock
1	49	3	6	2	o
1,5	49	5	6	2	o
2	51	7	6	2	o
2,5	52	8	6	2	o
3	52	8	6	2	o
3,5	54	10	6	2	o
4	55	11	6	2	o
4,5	55	11	6	2	o
5	57	13	6	2	o
5,5	57	13	6	2	o
6	57	13	6	2	o
6,5	66	16	10	2	o
7	66	16	10	2	o
7,5	66	16	10	2	o
8	69	19	10	2	o
8,5	69	19	10	2	o
9	69	19	10	2	o
10	72	22	10	2	o
11	79	22	12	2	o
12	83	26	12	2	o
13	83	26	12	2	o
14	83	26	12	2	o
15	83	26	12	2	o
16	92	32	16	2	o
17	92	32	16	2	o
18	92	32	16	2	o
19	92	32	16	2	o
20	104	38	20	2	o
21	104	38	20	2	o
22	104	38	20	2	o
23	104	38	20	2	o
24	121	45	25	2	o
25	121	45	25	2	o
26	121	45	25	2	o
28	121	45	25	2	o
30	121	45	25	2	o
32	133	53	32	2	o



16520

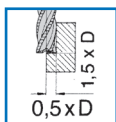
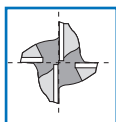
16520TIALN

16520ALCRN

Codice - Code

Materiale - <i>Material</i>	HSSCO 8	HSSCO 8	PM HSS
N° taglienti - <i>No. of flutes</i>	3-6	3-6	3-6
Elica - <i>Helix</i>	30°	30°	30°
Tolleranza - <i>Tolerance</i>	js14	js14	js14
Rivestimento - <i>Coating</i>		TiAlN	AlCrN

[illegible]

**Codice - Code**

Materiale - Material

N° taglienti - No. of flutes

Elica - Helix

Tolleranza - *Tolerance*

Rivestimento - Coating

16522

16522TIALN

HSSCO 8

HSSCO 8

3-4

3-4

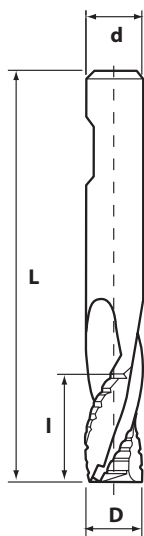
 30° 30°

is14

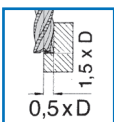
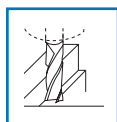
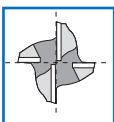
is14

TiAlN

[illegible]



**DIN
844 B**



NF



16524

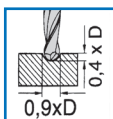
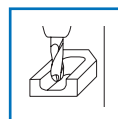
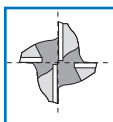
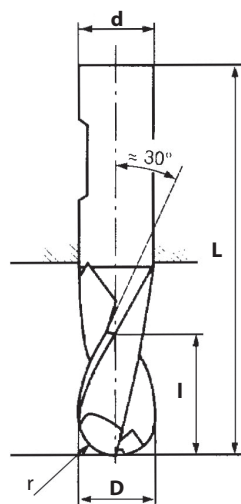


16524TIALN

Codice - Code

Materiale - <i>Material</i>	HSSCO 8	HSSCO 8
N° taglienti - <i>No. of flutes</i>	3-4	3-4
Elica - <i>Helix</i>	30°	30°
Tolleranza - <i>Tolerance</i>	js14	js14
Rivestimento - <i>Coating</i>		TA1N

[illegible]



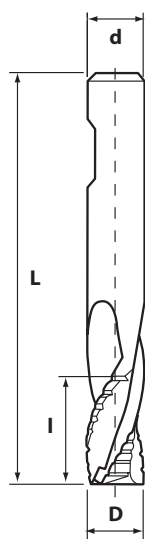
16532

16532TIALN

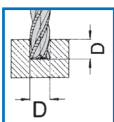
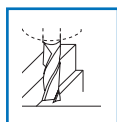
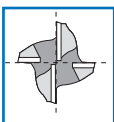
Codice - Code

Materiale - Material	HSSCO 8	HSSCO 8
N° taglienti - No. of flutes	4	4
Elica - Helix	30°	30°
Tolleranza - Tolerance	js14	js14
Rivestimento - Coating		TiAlN

[illegible]



**DIN
844 B
K**



16526

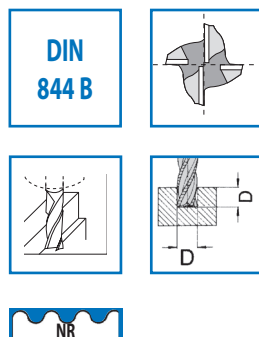


16526TIALN

Codice - Code

Materiale - <i>Material</i>	HSSCO 8	HSSCO 8
N° taglienti - <i>No. of flutes</i>	3-4	3-4
Elica - <i>Helix</i>	30°	30°
Tolleranza - <i>Tolerance</i>	js14	js14
Rivestimento - <i>Coating</i>		TA1N

[illegible]

**Codice - Code**

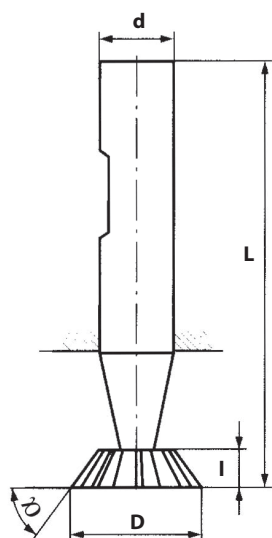
16528



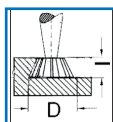
16528TIALN

Materiale - <i>Material</i>	HSSCO 8	HSSCO 8
N° taglienti - <i>No. of flutes</i>	3-4	3-4
Elica - <i>Helix</i>	30°	30°
Tolleranza - <i>Tolerance</i>	js14	js14
Rivestimento - <i>Coating</i>		TA1N

[illegible]



DIN
1833 C



16545

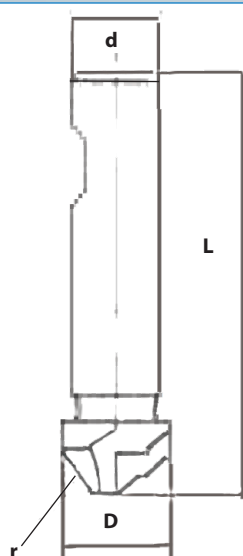
16560

16570

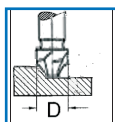
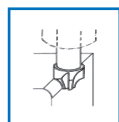
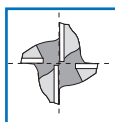
Codice - Code

Materiale - <i>Material</i>	HSSCO 8	HSSCO 8	HSSCO 8
N° taglienti - <i>No. of flutes</i>	8-10	8-10	8-10
Elica - <i>Helix</i>	45°	60°	70°
Tolleranza - <i>Tolerance</i>	js16	js16	js16
Rivestimento - <i>Coating</i>			

[illegible]



**DIN
6518**



16575

Codice - Code

Materiale - Material

N° taglienti - No. of flutes

Elica - Helix

Tolleranza - *Tolerance*

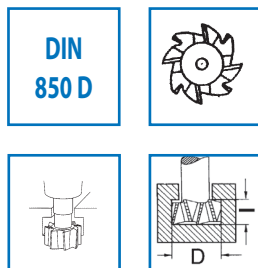
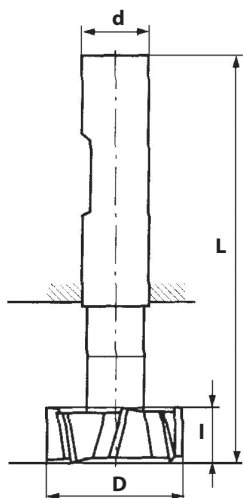
Rivestimento - Coating

HSSCO 8

4-6

js16

[illegible]

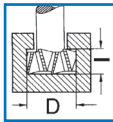
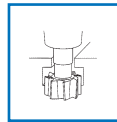
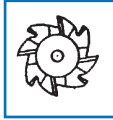
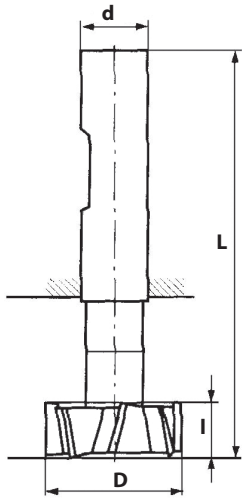


16580

Codice - Code

Materiale - Material	HSSCO 8
N° taglienti - No. of flutes	8-12
Elica - Helix	
Tolleranza - Tolerance	h12
Rivestimento - Coating	

D mm	L mm	l mm	d h6 mm	z	in stock
10,5	50	2	6	8	o
10,5	50	2,5	6	8	o
10,5	50	3	6	8	o
13,5	56	2	10	8	o
13,5	56	3	10	8	o
13,5	56	4	10	8	o
16,5	56	3	10	8	o
16,5	56	4	10	8	o
16,5	56	5	10	8	o
16,5	56	6	10	8	o
19,5	63	3	10	8	o
19,5	63	4	10	8	o
19,5	63	5	10	8	o
19,5	63	6	10	8	o
22,5	63	4	10	10	o
22,5	63	5	10	10	o
22,5	63	6	10	10	o
22,5	63	7	10	10	o
22,5	63	8	10	10	o
25,5	63	5	10	10	o
25,5	63	6	10	10	o
25,5	63	7	10	10	o
25,5	63	8	10	10	o
28,5	63	6	10	10	o
28,5	63	7	10	10	o
28,5	63	8	10	10	o
28,5	71	10	12	10	o
32,5	71	6	12	10	o
32,5	71	7	12	10	o
32,5	71	8	12	10	o
32,5	71	10	12	10	o
45,5	71	10	12	12	o



16590

Codice - Code

Materiale - <i>Material</i>	HSSCO 8
N° taglienti - <i>No. of flutes</i>	6-8
Elica - <i>Helix</i>	
Tolleranza - <i>Tolerance</i>	d11
Rivestimento - <i>Coating</i>	

[illegible]

Frese a 2, 3, 4 taglienti
2, 3, 4 flutes end mills



Pg. 36 - 43

Frese per sgrossare e semifinire
End mills for roughing and semi-finishing



Pg. 44 - 49

Frese per scanalature
Milling cutters

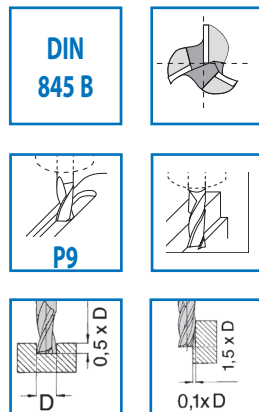
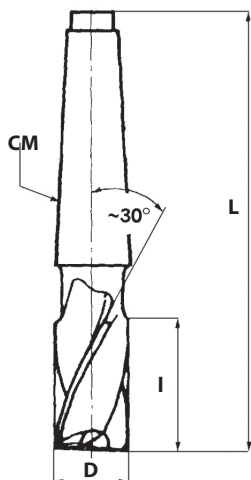


Pg. 50

FRESE A CODOLO CONICO **MORSE TAPER SHANK END MILLS**

Ø	Profondità di passata in mm - Milling depth in mm							
	≤10	≤20	≤30	≤40	≤50	≤60	≤70	≤80
14		DIN 326D		DIN 845B		DIN 845B L		
15		DIN 326D		DIN 845B		DIN 845B L		
16	DIN 851B	DIN 326D		DIN 845B			DIN 845B L	
18		DIN 326D		DIN 845B			DIN 845B L	
19	DIN 851B							
20			DIN 326D	DIN 845B				DIN 845B L
21				DIN 845B				
22	DIN 851B		DIN 326D	DIN 845B				DIN 845B L
24			DIN 326D		DIN 845B			
25		DIN 851B	DIN 326D		DIN 845B			
26			DIN 326D		DIN 845B			
28		DIN 851B	DIN 326D		DIN 845B			
30			DIN 326D		DIN 845B			
32		DIN 851B		DIN 326D		DIN 845B		
34				DIN 326D		DIN 845B		
35				DIN 326D		DIN 845B		
36		DIN 851B		DIN 326D		DIN 845B		
38				DIN 326D			DIN 845B	
40		DIN 851B		DIN 326D			DIN 845B	
42							DIN 845B	
44							DIN 845B	
45		DIN 851B					DIN 845B	
50			DIN 851B					DIN 845B
56			DIN 851B					DIN 845B
63								

Profondità di passata in mm - Milling depth in mm								Ø
≤90	≤100	≤115	≤125	≤150	≤180	≤200	≤250	
								14
								15
NUI								16
	NUI							18
								19
		NUI						20
								21
		NUI						22
DIN 845B L								24
DIN 845B L			NUI					25
DIN 845B L			NUI					26
DIN 845B L				NUI				28
DIN 845B L				NUI				30
	DIN 845B L				NUI			32
	DIN 845B L							34
	DIN 845B L				NUI			35
	DIN 845B L							36
			DIN 845B L					38
			DIN 845B L			NUI		40
								42
								44
								45
				DIN 845B L		NUI		50
								56
DIN 845B					DIN 845B L		NUI	63

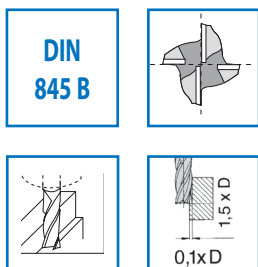
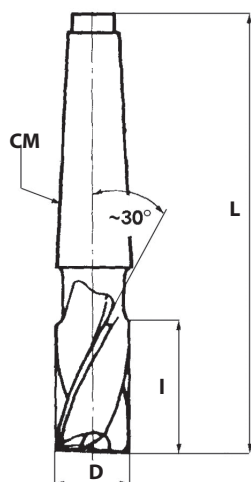


16610

Codice - Code

Materiale - <i>Material</i>	HSSCO 8
N° taglienti - <i>No. of flutes</i>	3
Elica - <i>Helix</i>	30°
Tolleranza - <i>Tolerance</i>	js14
Rivestimento - <i>Coating</i>	

[illegible]



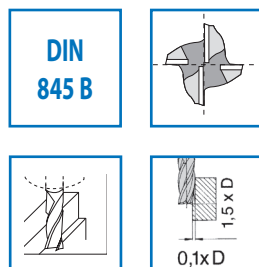
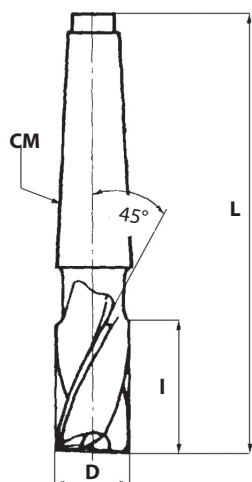
16625

16625TIALN

Codice - Code

Materiale - <i>Material</i>	HSSCO 8	HSSCO 8
N° taglienti - <i>No. of flutes</i>	4-8	4-8
Elica - <i>Helix</i>	30°	30°
Tolleranza - <i>Tolerance</i>		js14
Rivestimento - <i>Coating</i>	js14	TA1N

[illegible]



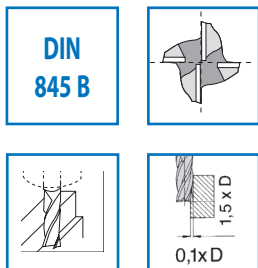
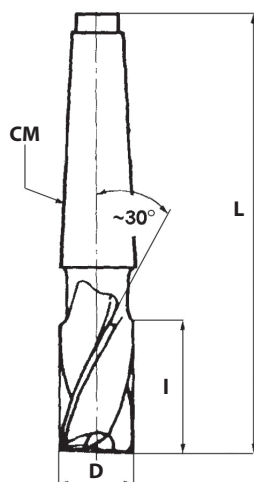
16645

16645TIALN

Codice - Code

Materiale - <i>Material</i>	HSSCO 8	HSSCO 8
N° taglienti - <i>No. of flutes</i>	4-8	4-8
Elica - <i>Helix</i>	45°	45°
Tolleranza - <i>Tolerance</i>	js14	js14
Rivestimento - <i>Coating</i>		TA1N

[illegible]

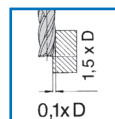
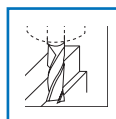
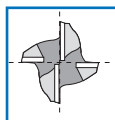
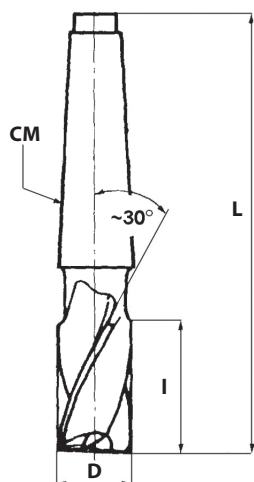


16635

Codice - Code

Materiale - <i>Material</i>	HSSCO 8
N° taglienti - <i>No. of flutes</i>	4-8
Elica - <i>Helix</i>	30°
Tolleranza - <i>Tolerance</i>	js14
Rivestimento - <i>Coating</i>	

[illegible]

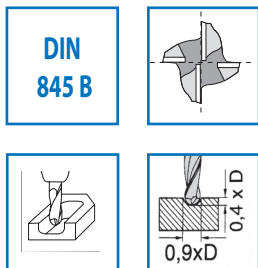
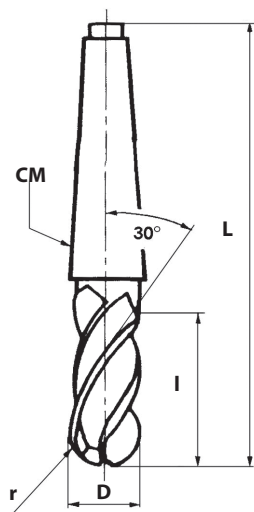


16638

Codice - Code

Materiale - <i>Material</i>	HSSCO 8
N° taglienti - <i>No. of flutes</i>	4-8
Elica - <i>Helix</i>	30°
Tolleranza - <i>Tolerance</i>	js14
Rivestimento - <i>Coating</i>	

[illegible]

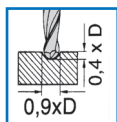
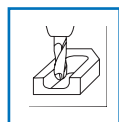
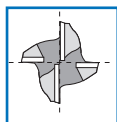
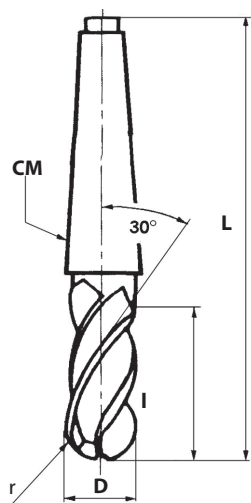


16630

Codice - Code

Materiale - <i>Material</i>	HSSCO 8
N° taglienti - <i>No. of flutes</i>	4-8
Elica - <i>Helix</i>	30°
Tolleranza - <i>Tolerance</i>	js14
Rivestimento - <i>Coating</i>	

[illegible]

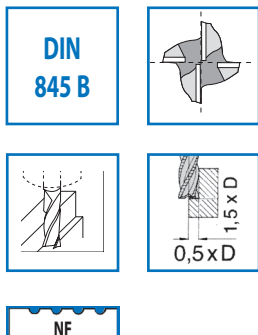
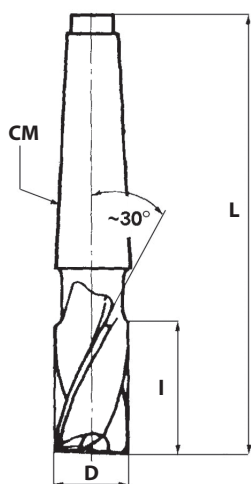


16650

Codice - Code

Materiale - <i>Material</i>	HSSCO 8
N° taglienti - <i>No. of flutes</i>	4-8
Elica - <i>Helix</i>	30°
Tolleranza - <i>Tolerance</i>	js14
Rivestimento - <i>Coating</i>	

[illegible]

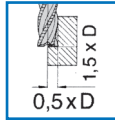
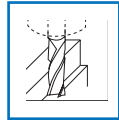
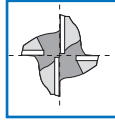
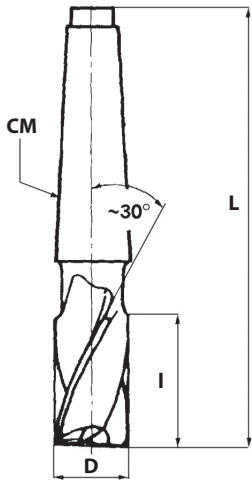


16622

Codice - Code

Materiale - <i>Material</i>	HSSCO 8
N° taglienti - <i>No. of flutes</i>	4-8
Elica - <i>Helix</i>	30°
Tolleranza - <i>Tolerance</i>	js14
Rivestimento - <i>Coating</i>	

[illegible]

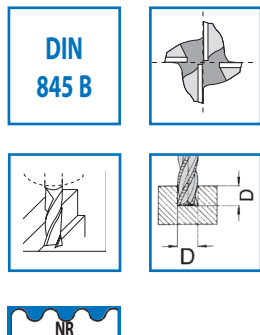
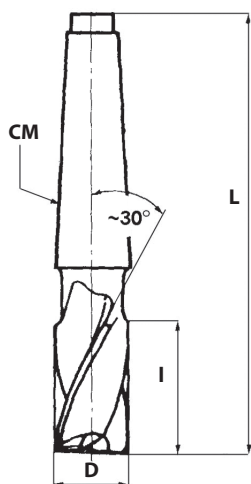


16624

Codice - Code

Materiale - <i>Material</i>	HSSCO 8
N° taglienti - <i>No. of flutes</i>	4-8
Elica - <i>Helix</i>	30°
Tolleranza - <i>Tolerance</i>	js14
Rivestimento - <i>Coating</i>	

D mm	L mm	I mm	CM	z	in stock
16	148	63	2	4	0
18	148	63	2	4	0
20	177	75	3	4	0
22	177	75	3	4	0
25	192	90	3	5	0
26	192	90	3	5	0
28	192	90	3	5	0
30	192	90	3	5	0
32	231	106	4	5	0
35	231	106	4	6	0
40	250	125	4	6	0
50	308	150	5	6	0
63	338	180	5	8	0



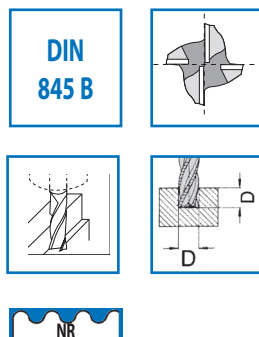
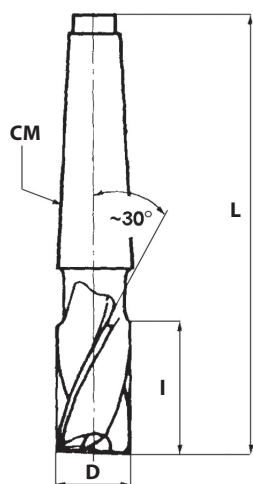
16626

16626TIALN

Codice - Code

Materiale - <i>Material</i>	HSSCO 8	HSSCO 8
N° taglienti - <i>No. of flutes</i>	4-8	4-8
Elica - <i>Helix</i>	30°	30°
Tolleranza - <i>Tolerance</i>	js14	js14
Rivestimento - <i>Coating</i>		TiAlN

[illegible]

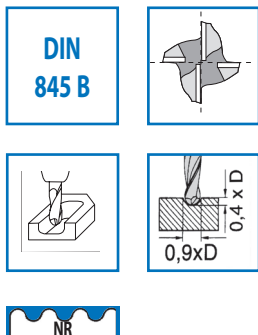
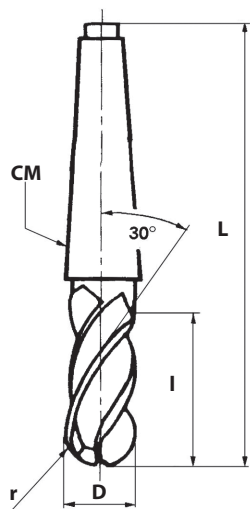


16628

Codice - Code

Materiale - <i>Material</i>	HSSCO 8
N° taglienti - <i>No. of flutes</i>	4-8
Elica - <i>Helix</i>	30°
Tolleranza - <i>Tolerance</i>	js14
Rivestimento - <i>Coating</i>	

[illegible]

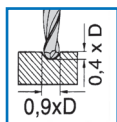
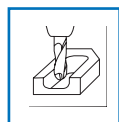
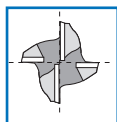
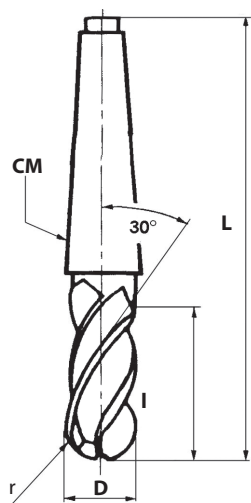


16634

Codice - Code

Materiale - <i>Material</i>	HSSCO 8
N° taglienti - <i>No. of flutes</i>	4-6
Elica - <i>Helix</i>	30°
Tolleranza - <i>Tolerance</i>	js14
Rivestimento - <i>Coating</i>	

[illegible]

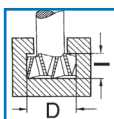
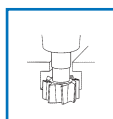
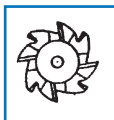
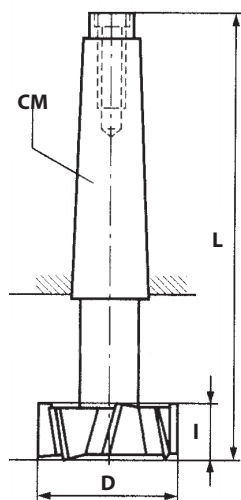


16636

Codice - Code

Materiale - <i>Material</i>	HSSCO 8
N° taglienti - <i>No. of flutes</i>	4-6
Elica - <i>Helix</i>	30°
Tolleranza - <i>Tolerance</i>	js14
Rivestimento - <i>Coating</i>	

[illegible]



16690

Codice - Code

Materiale - <i>Material</i>	HSSCO 8
N° taglienti - <i>No. of flutes</i>	8-10
Elica - <i>Helix</i>	
Tolleranza - <i>Tolerance</i>	d11
Rivestimento - <i>Coating</i>	

[illegible]

Frese a manicotto DIN 841
DIN 841 shell end mills



Pg. 53

Frese a manicotto DIN 1880
DIN 1880 shell end mills



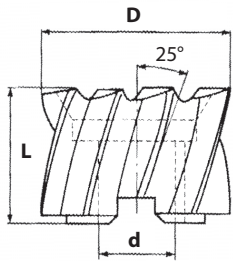
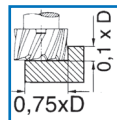
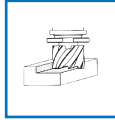
Pg. 54

Frese a disco
Side and face milling cutters



Pg. 55 - 56

FRESE A MANICOTTO E A DISCO
SHELL END MILLS AND SIDE AND FACE MILLING
CUTTERS

DIN
841

16700 = per finitura - for finishing
16722 = per sgrossare e semifinire - for roughing and finishing
16726 = per sgrossare - for roughing

**Codice - Code**

Materiale - Material

N° taglienti - *No. of flutes*

Elica - Helix

Tolleranza - *Tolerance*

Rivestimento - Coating

16700

16722

16726

HSSCO 8

HSSCO 8

HSSCO 8

6-10

6-10

6-10

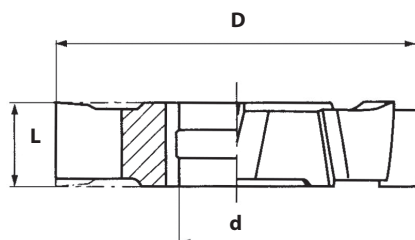
 25° 25° 25°

js16

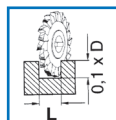
js16

js16

[illegible]



DIN
885 A



16800

Codice - Code

Materiale - Material

HSSCO 8

N° taglienti - No. of flutes

14-22

Elica - Helix

Tolleranza - Tolerance

js16

Rivestimento - Coating

D mm	L k11 mm	d H7 mm	z	in stock
50	5	16	14	o
50	6	16	14	o
50	7	16	14	o
50	8	16	14	o
50	9	16	14	o
50	10	16	14	o
63	5	22	16	o
63	6	22	16	o
63	7	22	16	o
63	8	22	16	o
63	9	22	16	o
63	10	22	16	o
63	12	22	16	o
63	14	22	16	o
63	16	22	16	o
63	18	22	16	o
63	20	22	16	o
80	5	22	18	o
80	6	22	18	o
80	7	22	18	o
80	8	22	18	o
80	9	22	18	o
80	10	22	18	o
80	12	22	18	o
80	14	22	18	o
80	16	22	18	o
80	18	22	18	o
80	20	22	18	o
100	5	27	20	o
100	6	27	20	o
100	7	27	20	o
100	8	27	20	o
100	9	27	20	o

Frese a 2, 3, 4 taglienti
2, 3, 4 flutes end mills



Pg. 60 - 74

Frese toroidali
End mills with corner radius



Pg. 75 - 76

Frese per alluminio e mini
Al end mills and micro series



Pg. 77 - 79

Frese per superfinire
End mills for superfinishing



Pg. 80

Frese per sgrossare/s.finire e finire
End mills for roughing/s-finishing and finishing

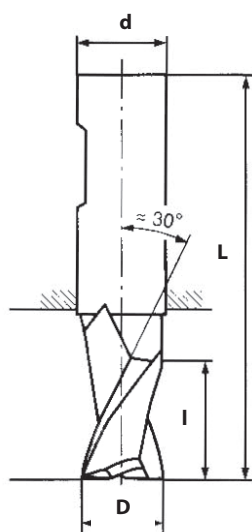


Pg. 81 - 83

FRESE IN METALLO DURO **SOLID CARBIDE END MILLS**

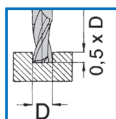
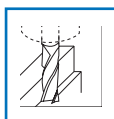
Ø	Tipologia di frese in MD - Solid carbide end mills types			
	Z=2	Z=3	Z=4	
1	DIN 6527B L	DIN 6527B L/NUI	DIN 6527B L	
1,5	DIN 6527B L	DIN 6527B L	DIN 6527B L	
2	DIN 6527B/DIN 6527B L/NUI	DIN 6527B/DIN 6527B L/NUI	DIN 6527B/DIN 6527B L/NUI	
2,5	DIN 6527B L	DIN 6527B L	DIN 6527B L	
3	DIN 6527B/DIN 6527B L/NUI	DIN 6527B/DIN 6527B L/NUI	DIN 6527B/DIN 6527B L/NUI	
3,5	DIN 6527B L	DIN 6527B L	DIN 6527B L	
4	DIN 6527B/DIN 6527B L/NUI	DIN 6527B/DIN 6527B L/NUI	DIN 6527B/DIN 6527B L/NUI	
4,5	DIN 6527B L	DIN 6527B L	DIN 6527B L	
5	DIN 6527B/DIN 6527B L/NUI	DIN 6527B/DIN 6527B L/NUI	DIN 6527B/DIN 6527B L/NUI	
5,5	DIN 6527B L	DIN 6527B L	DIN 6527B L	
6	DIN 6527B/DIN 6527B L/NUI	DIN 6527B/DIN 6527B L/NUI	DIN 6527B/DIN 6527B L/NUI	
7	DIN 6527B L	DIN 6527B L/NUI	DIN 6527B L	
8	DIN 6527B/DIN 6527B L/NUI	DIN 6527B/DIN 6527B L/NUI	DIN 6527B/DIN 6527B L/NUI	
9	DIN 6527B L	DIN 6527B L/NUI	DIN 6527B L	
10	DIN 6527B/DIN 6527B L/NUI	DIN 6527B/DIN 6527B L/NUI	DIN 6527B/DIN 6527B L/NUI	
12	DIN 6527B/DIN 6527B L/NUI	DIN 6527B/DIN 6527B L/NUI	DIN 6527B/DIN 6527B L/NUI	
14	DIN 6527B/DIN 6527B L/NUI	DIN 6527B/DIN 6527B L/NUI	DIN 6527B/DIN 6527B L/NUI	
16	DIN 6527B/DIN 6527B L/NUI	DIN 6527B/DIN 6527B L/NUI	DIN 6527B/DIN 6527B L/NUI	
18	DIN 6527B/DIN 6527B L/NUI	DIN 6527B/DIN 6527B L/NUI	DIN 6527B/DIN 6527B L/NUI	
20	DIN 6527B/DIN 6527B L/NUI	DIN 6527B/DIN 6527B L/NUI	DIN 6527B/DIN 6527B L/NUI	
45°	Z=3	Z=4	Z=6	Z=8
3	DIN 6527 B L/ALU	DIN 6527 B L		
4	DIN 6527 B L/ALU	DIN 6527 B L		
5	DIN 6527 B L/ALU	DIN 6527 B L	DIN 6527 B L	
6	DIN 6527 B L/ALU	DIN 6527 B L	DIN 6527 B L	
8	DIN 6527 B L/ALU	DIN 6527 B L	DIN 6527 B L	
10	DIN 6527 B L/ALU	DIN 6527 B L	DIN 6527 B L	
12	DIN 6527 B L/ALU	DIN 6527 B L	DIN 6527 B L	
14	DIN 6527 B L	DIN 6527 B L	DIN 6527 B L	
16	DIN 6527 B L/ALU	DIN 6527 B L	DIN 6527 B L	
18	ALU	DIN 6527 B L		DIN 6527 B L
20	DIN 6527 B L/ALU	DIN 6527 B L		DIN 6527 B L
25	ALU			
35/38°	Z=4	r=0,5	r=1	r=1,5
3	NUI			
4	NUI	NUI		
5	NUI			
6	NUI		NUI	
7	NUI			
8	NUI			NUI
9	NUI			
10	NUI			NUI
11	NUI			
12	NUI			NUI
13	NUI			
14	NUI			
16	NUI			
18	NUI			
20	NUI			
25	NUI			

Tipologia di frese in MD - Solid carbide end mills types									
Ø									
T. S/sferica	Z=2	Z=4		Ø HSC	Z=2	Z=4			
3	NUI BALL END	NUI BALL END		1	NUI BALL/NUI SPHERIC/DRY				
4	NUI BALL END	NUI BALL END		1,5	NUI BALL/DRY				
5	NUI BALL END	NUI BALL END		2	NUI BALL/NUI SPHERIC/DRY				
6	NUI BALL END	NUI BALL END		2,5	NUI BALL/DRY				
8	NUI BALL END	NUI BALL END		3	NUI BALL/NUI SPHERIC/DRY	NUI BALL			
10	NUI BALL END	NUI BALL END		4	NUI BALL/NUI SPHERIC/DRY	NUI BALL			
12	NUI BALL END	NUI BALL END		5	NUI BALL/NUI SPHERIC/DRY	NUI BALL/NUI SPHERIC			
16	NUI BALL END	NUI BALL END		6	NUI BALL/NUI SPHERIC/DRY	NUI BALL/NUI SPHERIC			
20	NUI BALL END	NUI BALL END		8	NUI BALL/NUI SPHERIC/DRY	NUI BALL/NUI SPHERIC			
				10	NUI BALL/NUI SPHERIC/DRY	NUI BALL/NUI SPHERIC			
				12	NUI BALL/NUI SPHERIC/DRY	NUI BALL/NUI SPHERIC			
				14	NUI BALL				
				16	NUI BALL/NUI SPHERIC	NUI SPHERIC			
				18	NUI BALL				
				20	NUI BALL				
Ø Toroidali	r=0,1	r=0,2	r=0,3	r=0,5	r=1	r=1,5	r=2	r=3	r=4
2				NUI RADIUS					
3				NUI RADIUS					
4				NUI RADIUS	NUI RADIUS				
6	NUI RADIUS	NUI RADIUS	NUI RADIUS	NUI RADIUS	NUI RADIUS	NUI RADIUS	NUI RADIUS		
8				NUI RADIUS	NUI RADIUS	NUI RADIUS	NUI RADIUS		
10				NUI RADIUS	NUI RADIUS	NUI RADIUS	NUI RADIUS	NUI RADIUS	
12					NUI RADIUS	NUI RADIUS	NUI RADIUS		NUI RADIUS
16							NUI RADIUS		
Ø 55°	Z=2	Mini	Z=2	Superfinishing	Z=6	Z=8	HPC	Z=6	
3	DIN 6527B LONG	0,2	NUI MINI	5	NUI SUPER FINISHING		4	NUI	
4	DIN 6527B LONG	0,3	NUI MINI	6	NUI SUPER FINISHING		5	NUI	
5	DIN 6527B LONG	0,4	NUI MINI	7	NUI SUPER FINISHING		6	NUI	
6	DIN 6527B LONG	0,5	NUI MINI	8	NUI SUPER FINISHING		8	NUI	
8	DIN 6527B LONG	0,6	NUI MINI	9	NUI SUPER FINISHING		10	NUI	
10	DIN 6527B LONG	0,7	NUI MINI	10	NUI SUPER FINISHING		12	NUI	
12	DIN 6527B LONG	0,8	NUI MINI	12	NUI SUPER FINISHING		14	NUI	
14	DIN 6527B LONG	0,9	NUI MINI	14	NUI SUPER FINISHING		16	NUI	
16	DIN 6527B LONG	1	NUI MINI	16		NUI SUPER FINISHING	18	NUI	
18	DIN 6527B LONG	1,1	NUI MINI	18		NUI SUPER FINISHING	20	NUI	
		1,2	NUI MINI	20		NUI SUPER FINISHING			
		1,4	NUI MINI	Roughing	HR	NF			
		1,5	NUI MINI	3	NUI	NUI			
		1,6	NUI MINI	3,5		NUI			
		1,8	NUI MINI	4	NUI	NUI			
		2	NUI MINI	4,5		NUI			
		3	NUI MINI	5	NUI	NUI			
		4	NUI MINI	6	NUI	NUI			
				8	NUI	NUI			
				10	NUI	NUI			
				12	NUI	NUI			
				14	NUI	NUI			
				16	NUI	NUI			
				18	NUI				
				20	NUI	NUI			
				25	NUI				

**Codice - Code**

**DIN
6527 B**

p9



15400



15410



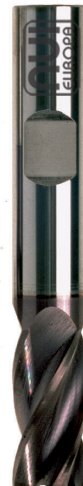
15420



15400



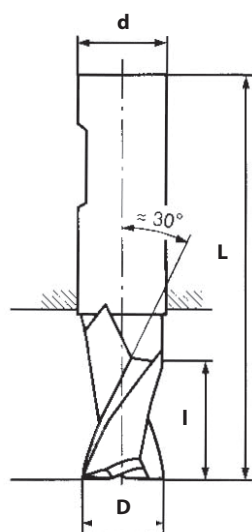
15410



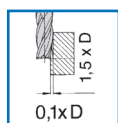
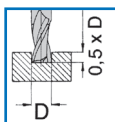
15420

Materiale - Material	HM	HM	HM
N° taglienti - No. of flutes	2	3	4
Elica - Helix	30°	30°	30°
Tolleranza - Tolerance	e8	h10	h10
Rivestimento - Coating	TiAlN	TiAlN	TiAlN

[illegible]

**Codice - Code**

**DIN
6527 B
L**



15430



15440



15450



15430



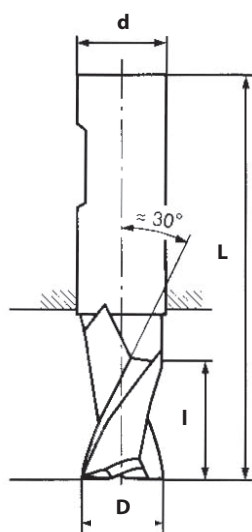
15440



15450

Materiale - <i>Material</i>	HM	HM	HM
N° taglienti - <i>No. of flutes</i>	2	3	4
Elica - <i>Helix</i>	30°	30°	30°
Tolleranza - <i>Tolerance</i>	e8	h10	h10
Rivestimento - <i>Coating</i>	TiAlN	TiAlN	TiAlN

[illegible]

**Codice - Code**

Materiale - Material

N° taglienti - No. of flutes

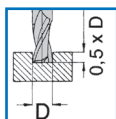
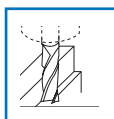
Elica - Helix

Tolleranza - *Tolerance*

Rivestimento - Coating

Norma
NUI

p9



15438



15458



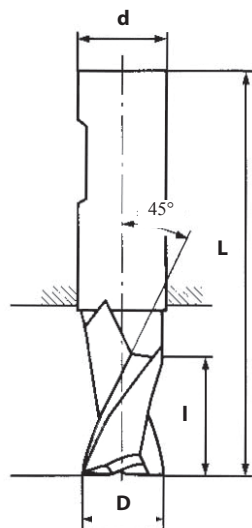
15438



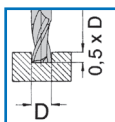
15458

Materiale - <i>Material</i>	HM	HM
N° taglienti - <i>No. of flutes</i>	2	4
Elica - <i>Helix</i>	30°	30°
Tolleranza - <i>Tolerance</i>	e8	h10
Rivestimento - <i>Coating</i>	TiAlN	TiAlN

[illegible]

**Codice - Code**

**DIN
6527 B
L**



15453



15454



15456



15454



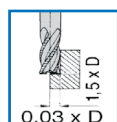
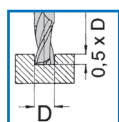
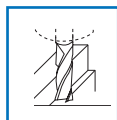
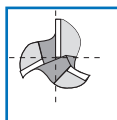
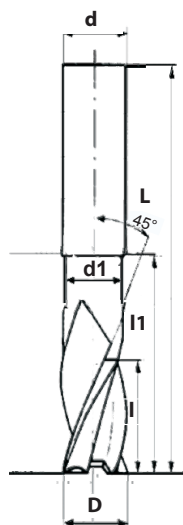
15456



15453

Materiale - Material	HM	HM	HM
N° taglienti - No. of flutes	4	6-8	3
Elica - Helix	45°	45°	45°
Tolleranza - Tolerance	h10	h10	e8
Rivestimento - Coating	TiAlN	TiAlN	TiAlN

[illegible]

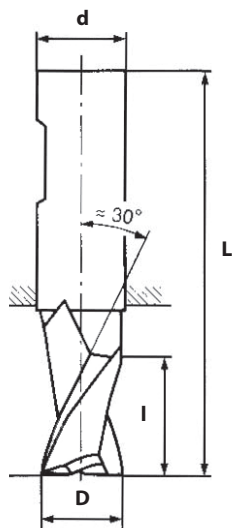
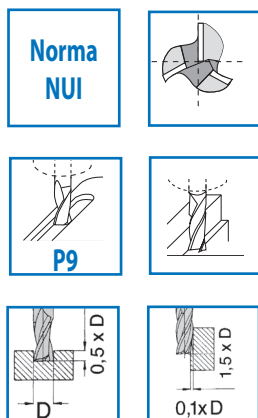


15405

Codice - Code

Materiale - <i>Material</i>	HM
N° taglienti - <i>No. of flutes</i>	3
Elica - <i>Helix</i>	45°
Tolleranza - <i>Tolerance</i>	h10
Rivestimento - <i>Coating</i>	ZrN

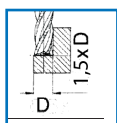
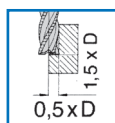
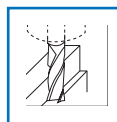
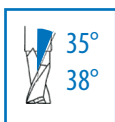
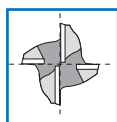
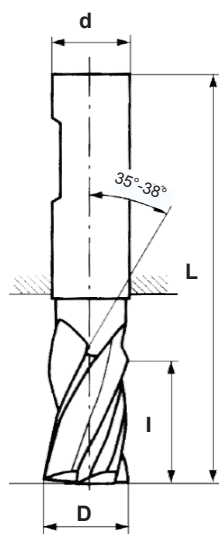
[illegible]

**Codice - Code**

15390

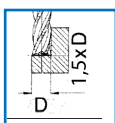
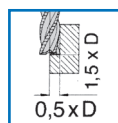
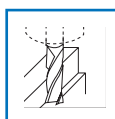
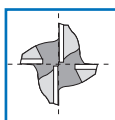
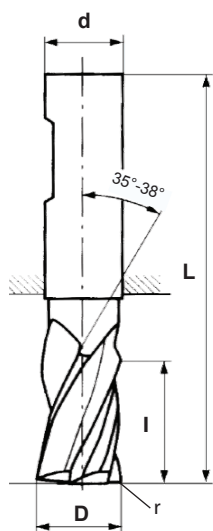
Materiali - <i>Material</i>	HM
N° taglienti - <i>No. of flutes</i>	3
Elica - <i>Helix</i>	30°
Tolleranza - <i>Tolerance</i>	e8
Rivestimento - <i>Coating</i>	naCrO

[illegible]

**Codice - Code**

Materiale - <i>Material</i>	HM
N° taglienti - <i>No. of flutes</i>	4
Elica - <i>Helix</i>	35°- 38°
Tolleranza - <i>Tolerance</i>	h10
Rivestimento - <i>Coating</i>	TiAlN

[illegible]

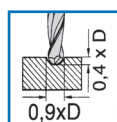
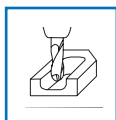
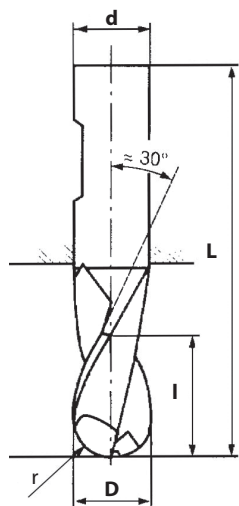


15661

Codice - Code

Materiale - <i>Material</i>	HM
N° taglienti - <i>No. of flutes</i>	4
Elica - <i>Helix</i>	35°- 38°
Tolleranza - <i>Tolerance</i>	
Rivestimento - <i>Coating</i>	TiAlN

[illegible]



15530



15540



15530

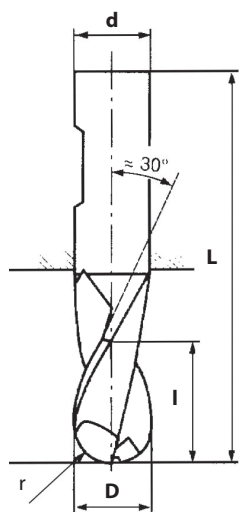
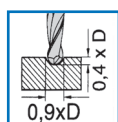
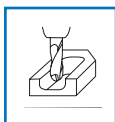


15540

Codice - Code

Materiale - <i>Material</i>	HM	HM
N° taglienti - <i>No. of flutes</i>	2	4
Elica - <i>Helix</i>	30°	30°
Tolleranza - <i>Tolerance</i>	e8	e8
Rivestimento - <i>Coating</i>	TiAlN	TiAlN

[illegible]

Norma
NUI

15550



15555



15550

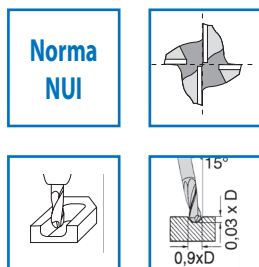
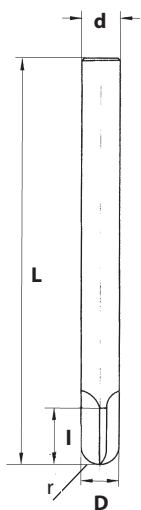


15555

Codice - Code

Materiale - Material	HM	HM
N° taglienti - No. of flutes	2	4
Elica - Helix	30°	30°
Tolleranza - Tolerance	e8	e8
Rivestimento - Coating	TiAlN	TiAlN

[illegible]

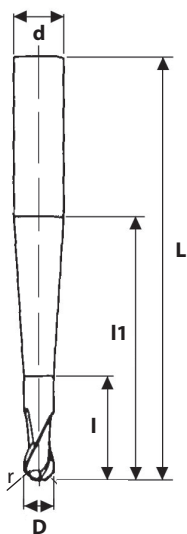


¶ 15680

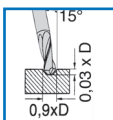
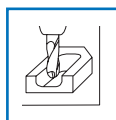
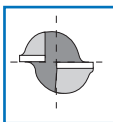
Codice - Code

Materiale - <i>Material</i>	HM
N° taglienti - <i>No. of flutes</i>	4
Elica - <i>Helix</i>	0°
Tolleranza - <i>Tolerance</i>	
Rivestimento - <i>Coating</i>	AlTiN

[illegible]

**Codice - Code**

**Norma
NUI**



15682 = serie corta - *short series*

15684 = serie lunga - *long series*



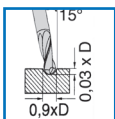
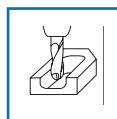
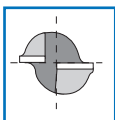
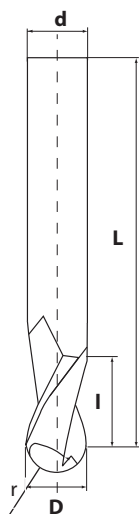
15682



¶ 15684

Materiale - <i>Material</i>	HM	HM
N° taglienti - <i>No. of flutes</i>	2	2
Elica - <i>Helix</i>	30°	30°
Tolleranza - <i>Tolerance</i>		
Rivestimento - <i>Coating</i>	AlTiN	AlTiN

[illegible]

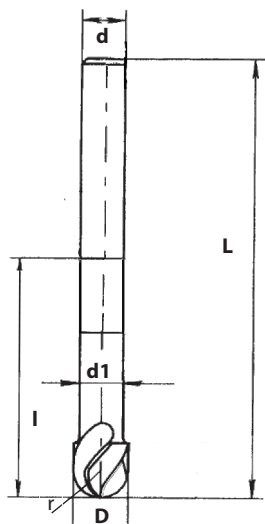


15685

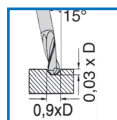
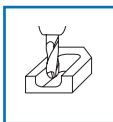
Codice - Code

Materiale - <i>Material</i>	HM
N° taglienti - <i>No. of flutes</i>	2
Elica - <i>Helix</i>	30°
Tolleranza - <i>Tolerance</i>	
Rivestimento - <i>Coating</i>	TiAlN

[illegible]



**Norma
NUI**



15690



15695



15690

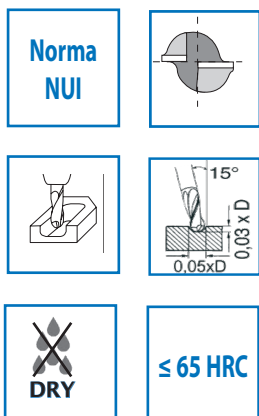
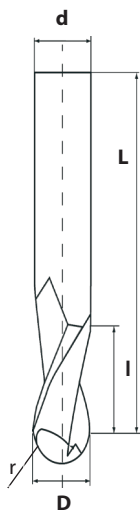


15695

Codice - Code

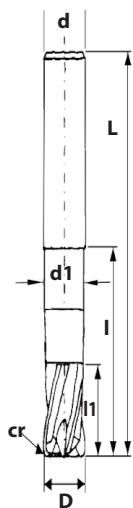
Materiale - <i>Material</i>	HM	HM
N° taglienti - <i>No. of flutes</i>	2	4
Elica - <i>Helix</i>	15°	15°
Tolleranza - <i>Tolerance</i>		
Rivestimento - <i>Coating</i>	AlTiN	AlTiN

[illegible]

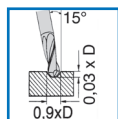
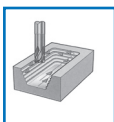
**Codice - Code**

Materiale - <i>Material</i>	HM
N° taglienti - <i>No. of flutes</i>	2
Elica - <i>Helix</i>	30°
Tolleranza - <i>Tolerance</i>	e8
Rivestimento - <i>Coating</i>	naCrO

[illegible]



**Norma
NUI**



≤ 60 HRC

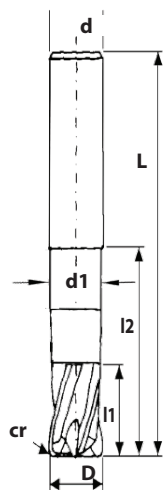


15590

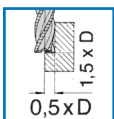
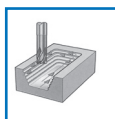
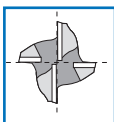
Codice - Code

Materiale - <i>Material</i>	HM
N° taglienti - <i>No. of flutes</i>	2
Elica - <i>Helix</i>	30°
Tolleranza - <i>Tolerance</i>	e8
Rivestimento - <i>Coating</i>	TiAlN

[illegible]



Norma
NUI



15641



15651

Codice - Code

Materiale - Material

N° taglienti - No. of flutes

Elica - Helix

Tolleranza - Tolerance

Rivestimento - Coating

HM

4

30°

TiAlN

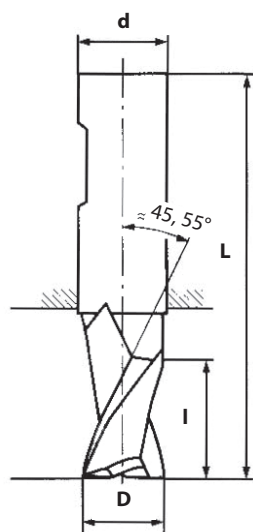
HM

4

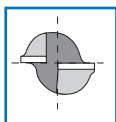
30°

TiAlN

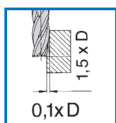
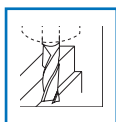
D mm	L mm	l1 mm	l2 mm	cr mm	d1 mm	d h6 mm	z	in stock	in stock
15641									
4	57	6	21	0,5	3,6	6	4	o	
4	57	6	21	1	3,6	6	4	o	
6	57	7	21	0,1	5,5	6	4	o	
6	57	7	21	0,2	5,5	6	4	o	
6	57	7	21	0,3	5,5	6	4	o	
6	57	7	21	0,5	5,5	6	4	o	
6	57	7	21	1	5,5	6	4	o	
6	57	7	21	1,5	5,5	6	4	o	
8	63	9	27	0,5	7,4	8	4	o	
8	63	9	27	1	7,4	8	4	o	
8	63	9	27	1,5	7,4	8	4	o	
8	63	9	27	2	7,4	8	4	o	
10	72	11	32	0,5	9,2	10	4	o	
10	72	11	32	1	9,2	10	4	o	
10	72	11	32	1,5	9,2	10	4	o	
10	72	11	32	2	9,2	10	4	o	
12	83	12	38	1	11	12	4	o	
12	83	12	38	1,5	11	12	4	o	
12	83	12	38	2	11	12	4	o	
16	92	16	44	2	15	16	4	o	
15651									
6	80	7	44	0,5	5,5	6	4		o
6	80	7	44	1	5,5	6	4		o
6	80	7	44	1,5	5,5	6	4		o
8	100	9	54	1	7,4	8	4		o
8	100	9	54	1,5	7,4	8	4		o
8	100	9	54	2	7,4	8	4		o
10	100	11	60	1	9,2	10	4		o
10	100	11	60	1,5	9,2	10	4		o
10	100	11	60	2	9,2	10	4		o
12	120	12	75	1	11	12	4		o
12	120	12	75	1,5	11	12	4		o
12	120	12	75	2	11	12	4		o
16	150	16	92	2	15	16	4		o

**Codice - Code**

**DIN
6527 B**



P9



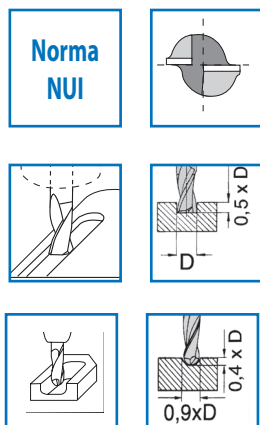
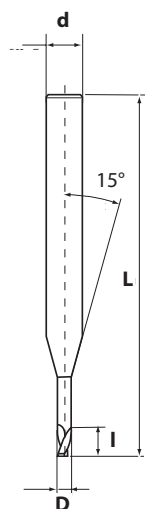
15401



¶ 15402

Conte - <i>Count</i>		
Materiale - <i>Material</i>	HM	HM
N° taglienti - <i>No. of flutes</i>	2	2
Elica - <i>Helix</i>	55°	45°
Tolleranza - <i>Tolerance</i>	h10	h10
Rivestimento - <i>Coating</i>		CrN

[illegible]



15560

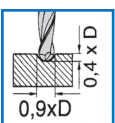
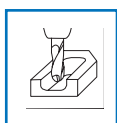
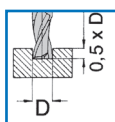
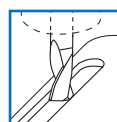
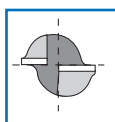
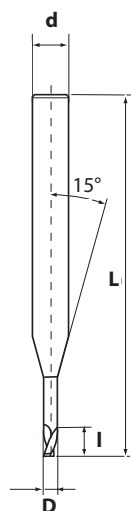


15570

Codice - Code

Materiale - <i>Material</i>	HM	HM
N° taglienti - <i>No. of flutes</i>	2	2
Elica - <i>Helix</i>	30°	30°
Tolleranza - <i>Tolerance</i>		
Rivestimento - <i>Coating</i>	TiAlN	TiAlN

[illegible]



15561

 $\leq 60 \text{ HRC}$ 

15561

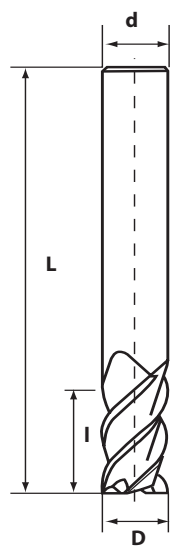


¶ 15571

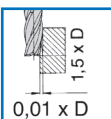
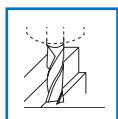
Codice - Code

Materiale - <i>Material</i>	HM	HM
N° taglienti - <i>No. of flutes</i>	2	2
Elica - <i>Helix</i>	30°	30°
Tolleranza - <i>Tolerance</i>		
Rivestimento - <i>Coating</i>	TiAlN	TiAlN

[illegible]



Norma
NUI



15655 = serie corta - short series

15656 = serie lunga - long series

15658 = serie extra lunga - extra long series



15655



15656

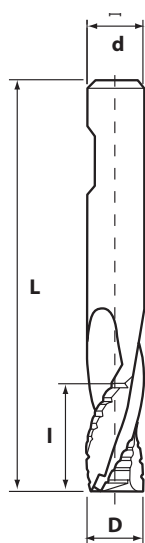


15658

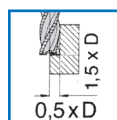
Codice - Code

Materiale - Material	HM	HM	HM
N° taglienti - No. of flutes	6-8	6-8	6-8
Elica - Helix	45°	45°	50°
Tolleranza - Tolerance			
Rivestimento - Coating	TiAIN	TiAIN	TiAIN

D mm	L mm	l mm	d h6 mm	z	in stock	in stock	in stock
15655							
5	54	10	6	6	o		
6	54	10	6	6	o		
8	58	12	8	6	o		
10	66	14	10	6	o		
12	73	16	12	6	o		
16	82	20	16	8	o		
20	92	25	20	8	o		
15656							
5	57	13	6	6		o	
6	57	13	6	6		o	
7	63	16	8	6		o	
8	63	19	8	6		o	
9	72	19	10	6		o	
10	72	22	10	6		o	
12	83	26	12	6		o	
14	83	26	16	6		o	
16	92	32	16	8		o	
18	92	32	18	8		o	
20	104	38	20	8		o	
15658							
6	57	18	6	6			o
8	63	24	8	6			o
10	75	30	10	6			o
12	83	36	12	6			o
12	150	36	12	6			o
16	104	48	16	8			o
16	150	65	16	8			o
20	110	55	20	8			o
20	150	65	20	8			o



**Norma
NUI**



15520



HR

15603



NF

15522

≤70 HRC



HR



15520



15603



15522

Codice - Code

Materiale - Material

N° taglienti - No. of flutes

Elica - Helix

Tolleranza - Tolerance

Rivestimento - Coating

HM

4

25°

js14

TiAlN

HM

4

30°

js14

TiAlN

HM

6

50°

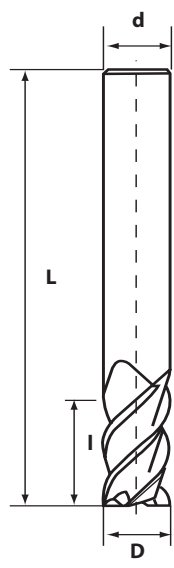
js14

AlTiN

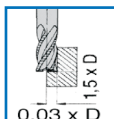
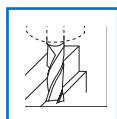
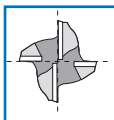
D mm	L mm	l mm	d h6 mm	z	in stock	in stock	in stock
15520							
3	57	6	6	4	o		
4	57	8	6	4	o		
5	57	10	6	4	o		
6	57	13	6	4	o		
8	63	16	8	4	o		
10	72	22	10	4	o		
12	83	26	12	4	o		
14	83	26	14	4	o		
16	92	32	16	4	o		
18	92	32	18	4	o		
20	104	38	20	4	o		
25	121	45	25	4	o		
15603							
3	38	9	3	4		o	
3,5	50	11	4	4		o	
4	50	11	4	4		o	
4,5	50	14	5	4		o	
5	50	14	5	4		o	
6	57	14	6	4		o	
8	63	19	8	4		o	
10	66	22	10	4		o	
12	73	26	12	4		o	
14	83	26	14	4		o	
16	92	32	16	4		o	
20	104	38	20	4		o	
15522							
6	57	13	6	6			o
8	63	19	8	6			o
10	66	22	10	6			o
12	73	26	12	6			o
16	92	32	16	6			o
20	104	38	20	6			o

o Nuove misure - New sizes

o In esaurimento - While stocks last

**Codice - Code**

**Norma
NUI**



≤ 65 HRC



15460

Materiale - <i>Material</i>	HM
N° taglienti - <i>No. of flutes</i>	4
Elica - <i>Helix</i>	52°
Tolleranza - <i>Tolerance</i>	h10
Rivestimento - <i>Coating</i>	AlTiN

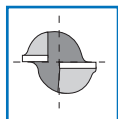
[illegible]

Materiali - Materials

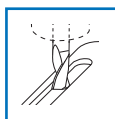
HSSCO 8 = acciaio super rapido al cobalto 8%- high speed steel with 8% cobalt (AISI M42)

PM HSS= acciaio da polveri super rapido - powder metal high speed steel
HM= metallo duro - solid carbide

N° di taglienti - No. of flutes

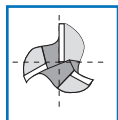


2 taglienti - 2 flutes

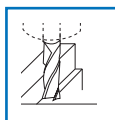
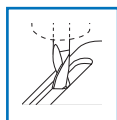


Per cave e per materiali a truciolo lungo

For slots and long chipping materials

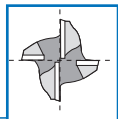


3 taglienti - 3 flutes



Per cave e finitura

For slots and finishing

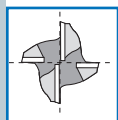


4 taglienti - 4 flutes

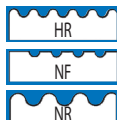


Per finitura

For finishing



4-8 taglienti - 4-8 flutes



Per sgrossature e semifinitura

For roughing and finishing



6-10 taglienti - 6-10 flutes



Per superfinitura o esecuzione speciale

For superfinishing or special feature

Elica - Helix

L'inclinazione standard dell'elica di 30°, ma per le frese di finitura e superfinitura o per l'alluminio e leghe si hanno inclinazioni di 45°-55°. Vi sono poi inclinazioni inferiori e anche tagli dritti.

The standard inclination is 30°, but mills for finishing, supefinishing and for aluminium and alloys have a 45°-55° inclination. Lower inclinations and straight flutes are also used.

Tolleranza - Tolerance

riferita alla fresa (mentre P9 riguarda la cava ottenuta).

It is referred to end mills (while P9 refers to the slot made).

Rivestimento - Coating

TiAlN = nitrato di titanio e alluminio - titanium and aluminium nitride
AlCrN= nitrato di alluminio e cromo - aluminium and chromium nitride
nACro = nanocristalli di AlCrN - AlCrN nanocrystals

AlTiN = nitrato di alluminio e titanio - aluminium and titanium nitride
ZrN = nitrato di zirconio - zirconium nitride
CrN = nitrato di cromo - chromium nitride

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.