



GWⁱ
SERIES 3000

GW
SERIES 3000

IT-ID-1017



LA SOLUZIONE OTTIMALE PER GLI ACCIAI INOSSIDABILI E LE SUPER LEGHE

Ø 0.8 - 6.5 mm

GW*i*
SERIES 3000



Ø 6.5 - 20 mm



Evacuazione del truciolo



Rendimento raddoppiato



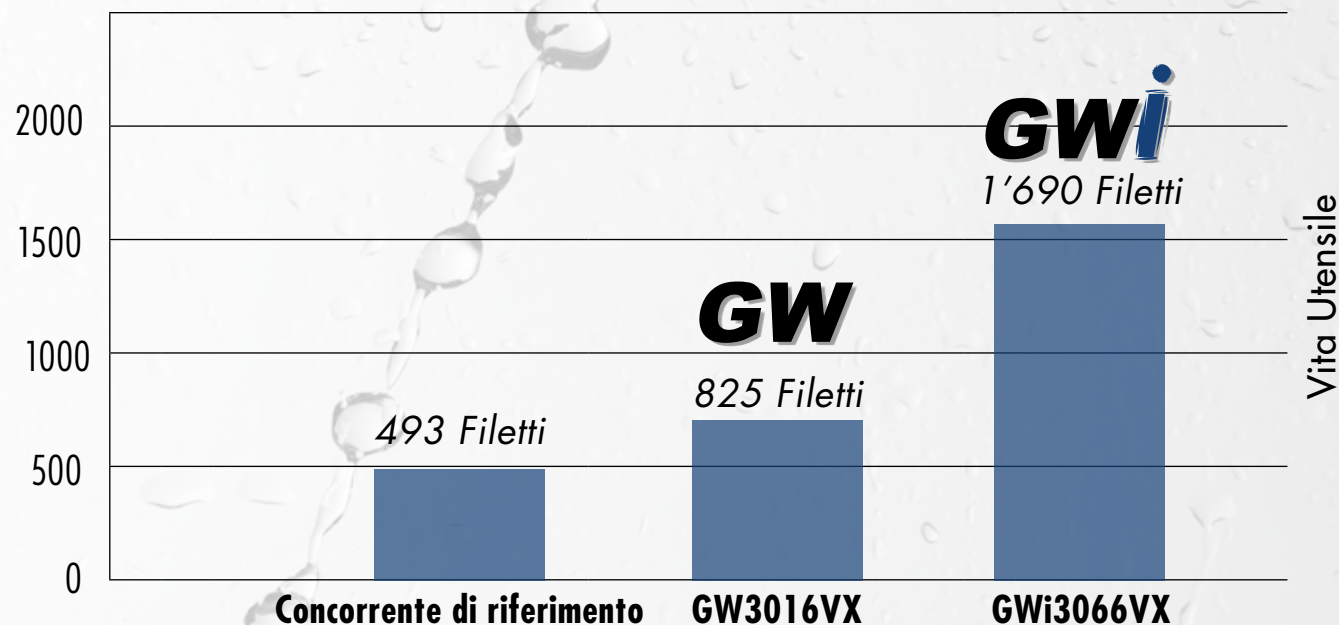
Processo sicuro



Nessun incollaggio

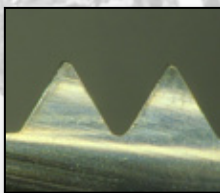
PRESTAZIONI

Materiale: Acciao Inossidabile 1.4301
Macchina: DMC 650V
Tipo di foro: Foro cieco
Dim. filetto: M3 6H
Lunghezza filetto: $2 \times D_1$
Lubrificante: Emulsione 8%
Vc & Avantamento: 50 m/min & 0.02 mm/dente

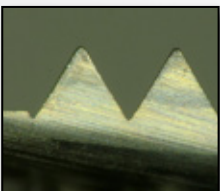


USURA

GWi VX
1'690 Filetti

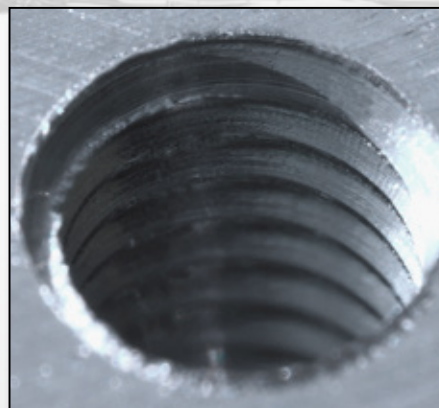


GW VX
825 Filetti



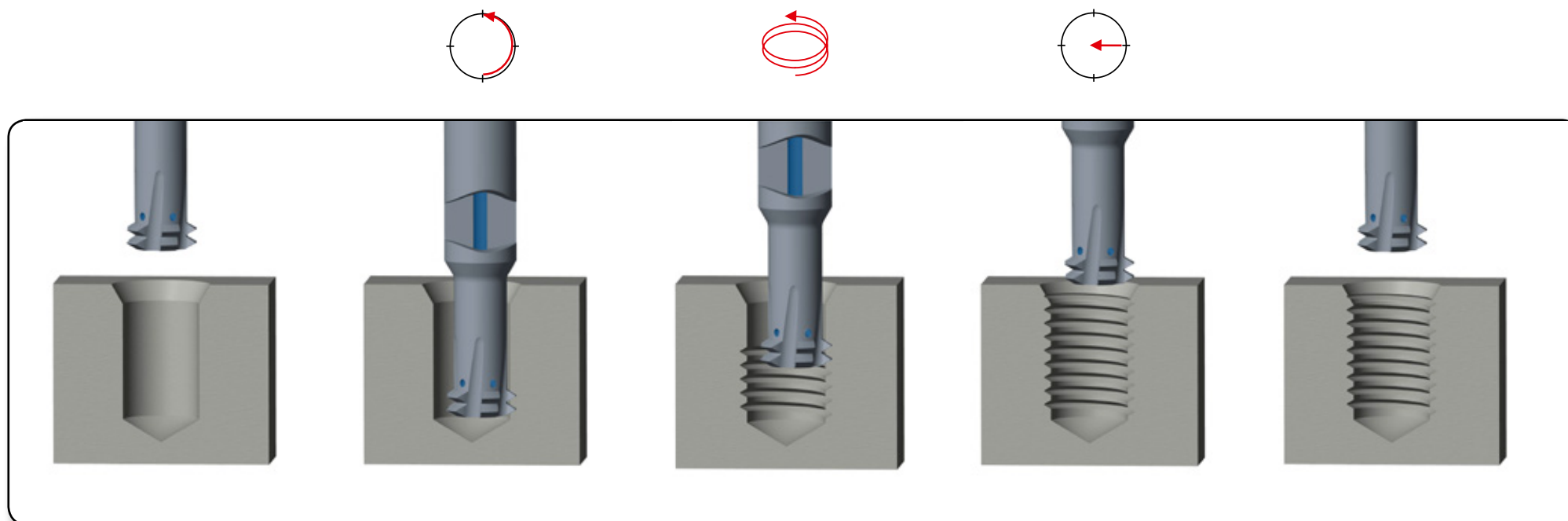
QUALITA' DELLA SUPERFICIE

1'690 Filetti



1'690 Filetti su Inox1.4301
Numero di correzioni NC: 2
(Concorrente 5)

CICLO DI FRESATURA DEL FILETTO



SIMBOLI



Lunghezza del filetto $2.5 \times D_1$



Lunghezza del filetto $3 \times D_1$



Lunghezza del filetto $4 \times D_1$



Rivestimento anti usura



Rivestimento anti usura



Metallo duro Integrale



Filettatura Interna



Classe di tolleranza



Alta Velocità di taglio



Lubrificazione interna GWi



Profilo GW



Disponibili in stock



Consegna in 3 settimane

APPLICAZIONI

USO

 Ottimale

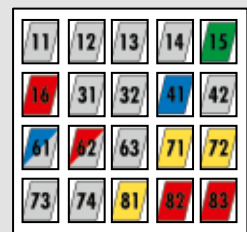
 Funzionale

CLASSIFICAZIONE DEI MATERIALI

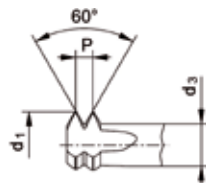
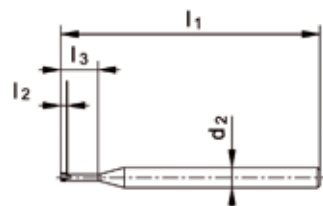
Materiali		Designazione dei materiali	Durezza (HB)	Resistenza Rm (N/mm ²)	Allungamento A (%)
Acciai	11	Acciai da tornitura	<200	<700	<10
	12	Acciai da costruzione / da cementazione	<200	<700	<30
	13	Acciai al carbonio	<300	<1000	<20
	14	Acciai legati <850 N/mm ²	<250	<850	<30
	15	Acciai legati / trattati >850 - <1150 N/mm ²	>250	>850	<30
	16	Acciai ad alta resistenza	>250	>850	<12
Acciai Inossidabili	21	Acciai inox allo zolfo	<250	<850	<25
	22	Acciai inox austenitici	<250	<850	>20
	23	Ferritici e martensitici <850 N/mm ²	<250	<850	>20
	24	Ferritici e martensitici >850 - <1150 N/mm ²	>250	>850	>15
Ghisa	31	Ghisa grigia	<250	<850	<10
	32	Ghisa grafitica sferoidale e malleabile	<250	<850	>10
Titanio	41	Titanio puro	<250	<850	>20
	42	Leghe al titanio	>250	>850	<20
Nickel	51	Leghe al Nickel 1 <850 N/mm ²	<250	<850	>25
	52	Leghe al Nickel 2 >850 - <1150 N/mm ²	>250	>850	<25
	53	Leghe al Nickel 3 >1150 - ≤ 1600 N/mm ²	>340	>1150	<20
Rame	61	Rame puro (elettrolitico)	<120	<400	>12
	62	Ottone, bronzo (trucioli corti)	<200	<700	<12
	63	Ottone (trucioli lunghi)	<200	<700	>12
Alluminio Magnesio	71	Alluminio non legato	<100	<350	>15
	72	Leghe di alluminio Si < 1.5 %	<150	<500	>15
	73	Leghe di alluminio Si > 1.5 % - < 10 %	<120	<400	<15
	74	Leghe di all. Si > 10 %, Leghe al magnesio	<120	<400	<10
Materie Plastiche	81	Materie termoplastiche	-	-	-
	82	Materie termoidurenti	-	-	-
	83	Materie plastiche rinforzate con fibre	-	-	-

GWi GW		Vc (m/min)		Avanzamento fz (mm/dente)			
VS	VX	VS	VX	Ø 0.3 - 1.0	Ø 1.01 - 3.0	Ø 3.01 - 6.0	Ø 6.01 - 20.0
				80 - 100	0.004 - 0.01	0.01 - 0.05	0.04 - 0.10
				80 - 100	0.004 - 0.01	0.01 - 0.05	0.04 - 0.10
				70 - 90	0.004 - 0.01	0.01 - 0.05	0.02 - 0.10
				70 - 90	0.004 - 0.01	0.01 - 0.05	0.02 - 0.10
				30 - 50	0.004 - 0.01	0.01 - 0.05	0.02 - 0.08
				15 - 40	0.003 - 0.01	0.006 - 0.03	0.008 - 0.05
				40 - 60	0.004 - 0.01	0.01 - 0.05	0.02 - 0.10
				30 - 50	0.004 - 0.01	0.01 - 0.03	0.02 - 0.05
				30 - 50	0.004 - 0.01	0.01 - 0.03	0.02 - 0.05
				30 - 50	0.004 - 0.01	0.01 - 0.03	0.02 - 0.05
				90 - 120	0.004 - 0.01	0.01 - 0.05	0.04 - 0.10
				70 - 90	0.004 - 0.01	0.01 - 0.05	0.02 - 0.10
				20 - 40	0.004 - 0.01	0.01 - 0.03	0.02 - 0.05
				15 - 35	0.004 - 0.01	0.01 - 0.03	0.02 - 0.05
				20 - 40	0.004 - 0.01	0.01 - 0.03	0.02 - 0.05
				20 - 40	0.004 - 0.01	0.01 - 0.03	0.02 - 0.05
				20 - 30	0.003 - 0.01	0.006 - 0.03	0.008 - 0.05
				200 - 250	0.004 - 0.01	0.01 - 0.05	0.02 - 0.10
				150 - 200	0.004 - 0.01	0.01 - 0.05	0.04 - 0.10
				150 - 200	0.004 - 0.01	0.01 - 0.05	0.02 - 0.10
				200 - 300	0.004 - 0.01	0.01 - 0.05	0.05 - 0.10
				200 - 300	0.004 - 0.01	0.01 - 0.05	0.05 - 0.10
				200 - 300	0.004 - 0.01	0.01 - 0.05	0.05 - 0.10
				200 - 300	0.004 - 0.01	0.01 - 0.05	0.04 - 0.10
				200 - 300	0.004 - 0.01	0.01 - 0.05	0.05 - 0.10
				100 - 200	0.004 - 0.01	0.01 - 0.05	0.04 - 0.10
				80 - 100	0.004 - 0.01	0.01 - 0.05	0.04 - 0.10

GWi3066VS
GWi3067VS
GWi3069VS



GWi3066VX
GWi3067VX



GWi3066VS

GWi3067VS

GWi3069VS

GWi3066VX

GWi3067VX



D ₁	P	d ₁	l ₁ 2.5 - 3 x D ₁	l ₃ 2.5 x D ₁	l ₃ 3 x D ₁	l ₁ 4 x D ₁	l ₃ 4 x D ₁	d ₂ h6	d ₃		
M 0.8	0.2	0.57	40	2.3	2.7	40	3.5	3	0.29	3	0.65
0.9	0.225	0.64	40	2.6	3.0	40	3.9	3	0.33	3	0.70
1	0.25	0.71	40	2.9	3.4	40	4.4	3	0.36	3	0.75
1.2	0.25	0.91	40	3.4	4.0	40	5.2	3	0.56	3	0.95
1.4	0.3	1.06	40	3.9	4.6	40	6.0	4	0.64	3	1.10
1.6	0.35	1.20	40	4.5	5.3	40	6.9	4	0.71	3	1.25
1.8	0.35	1.40	40	5.0	5.9	40	7.7	4	0.91	3	1.45
2	0.4	1.54	40	5.6	6.6	40	8.6	4	0.98	3	1.60
2.5	0.45	1.98	40	6.9	8.1	40	10.6	4	1.35	3	2.05
3	0.5	2.43	51	8.4	9.9	51	12.9	5	1.73	4	2.50
3.5	0.6	2.81	51	9.9	11.6	51	15.1	6	1.97	4	2.90
4	0.7	3.20	51	11.3	13.3	51	17.3	6	2.22	4	3.30
5	0.8	4.08	51	14.0	16.5	51	21.5	8	2.96	4	4.20
6	1	4.85	51	16.8	19.8	51	25.8	8	3.45	4	5.00
8	1.25	5.95	75	23.0	27.0	75	35.0	6	4.20	5	6.80
10	1.5	7.95	83	28.0	33.0	83	43.0	8	5.85	5	8.50
12	1.75	9.95	95	34.0	40.0	95	52.0	10	7.50	5	10.25
14	2	10.95	120	44.0	52.0	120	68.0	12	8.15	5	12.00
16	2	10.95	120	44.0	52.0	120	68.0	12	8.15	5	14.00
18	2.5	13.95	135	55.0	65.0	135	85.0	14	10.45	6	15.50
20	2.5	13.95	135	55.0	65.0	135	85.0	14	10.45	6	17.50

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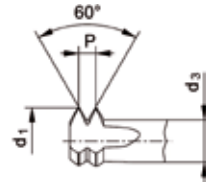
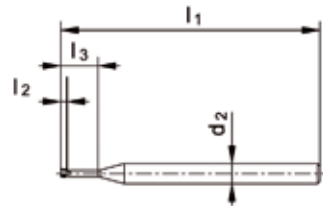
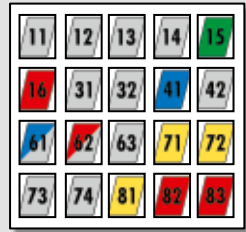
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GW3066VS
GW3067VS
GW3069VS



GW3066VX
GW3067VX



GW3066VS

GW3067VS

GW3069VS

GW3066VX

GW3067VX



D ₁	P	d ₁	l ₁ 2.5 - 3 x D ₁	l ₃ 2.5 x D ₁	l ₃ 3 x D ₁	l ₁ 4 x D ₁	l ₃ 4 x D ₁	d ₂ h6	d ₃		
MF2	0.2	1.77	40	5.3	6.3	40	8.3	4	1.49	3	1.80
2	0.25	1.71	40	5.4	6.4	40	8.4	4	1.36	3	1.75
2.5	0.2	2.27	40	6.6	7.8	40	10.3	4	1.99	3	2.30
2.5	0.25	2.21	40	6.6	7.9	40	10.4	4	1.86	3	2.25
3	0.35	2.60	51	8.2	9.7	51	12.7	5	2.11	4	2.65
4	0.5	3.43	51	10.9	12.9	51	16.9	6	2.73	4	3.50
5	0.5	4.43	51	13.4	15.9	51	20.9	8	3.73	4	4.50
6	0.75	4.95	51	16.4	19.4	51	25.4	8	3.90	4	5.25
8	1	5.95	75	22.0	26.0	75	34.0	6	4.55	5	7.00
10	1	7.95	83	27.0	32.0	83	42.0	8	6.55	5	9.00
10	1.25	7.95	83	28.0	33.0	83	43.0	8	6.20	5	8.75
12	1.5	9.95	95	33.0	39.0	95	51.0	10	7.85	5	10.50
14	1.5	10.95	120	43.0	51.0	120	67.0	12	8.85	5	12.50
16	1.5	10.95	120	43.0	51.0	120	67.0	12	8.85	5	14.50
18	1.5	13.95	135	53.0	63.0	135	83.0	14	11.85	6	16.50
20	1.5	13.95	135	53.0	63.0	135	83.0	14	11.85	6	18.50

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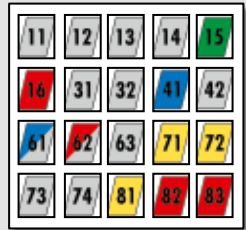
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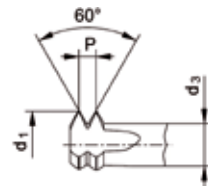
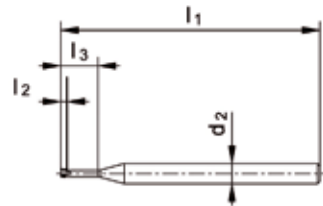
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GW3016VS
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GW3019VS



GW3016VX
GW3017VX



GW3016VS

GW3017VS

GW3019VS

GW3016VX

GW3017VX



D ₁	P	d ₁	l ₁ 2.5 - 3 x D ₁	l ₃ 2.5 x D ₁	l ₃ 3 x D ₁	l ₁ 4 x D ₁	l ₃ 4 x D ₁	d ₂ h5	d ₃		
MF2	0.2	1.77	39	5.3	6.3	39	8.3	3	1.49	3	1.80
2	0.25	1.71	39	5.4	6.4	39	8.4	3	1.36	3	1.75
2.5	0.2	2.27	39	6.6	7.8	39	10.3	3	1.99	3	2.30
2.5	0.25	2.21	39	6.6	7.9	39	10.4	3	1.86	3	2.25
3	0.35	2.60	51	8.2	9.7	51	12.7	5	2.11	4	2.65
4	0.5	3.43	51	10.9	12.9	51	16.9	5	2.73	4	3.50
5	0.5	4.43	51	13.4	15.9	51	20.9	5	3.73	4	4.50
6	0.75	4.95	51	16.4	19.4	51	25.4	5	3.90	4	5.25
8	1	5.95	63	22.0	26.0	75	34.0	6*	4.55	5	7.00
10	1	7.95	67	27.0	32.0	83	42.0	8*	6.55	5	9.00
10	1.25	7.95	67	28.0	33.0	83	43.0	8*	6.20	5	8.75
12	1.5	9.95	76	33.0	39.0	95	51.0	10*	7.85	5	10.50
14	1.5	10.95	95	43.0	51.0	120	67.0	12*	8.85	5	12.50
16	1.5	10.95	95	43.0	51.0	120	67.0	12*	8.85	5	14.50
18	1.5	13.95	105	53.0	63.0	135	83.0	14*	11.85	6	16.50
20	1.5	13.95	105	53.0	63.0	135	83.0	14*	11.85	6	18.50

* tol. h6

ID



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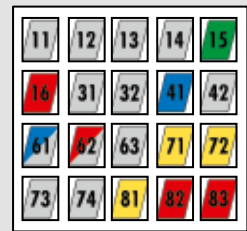
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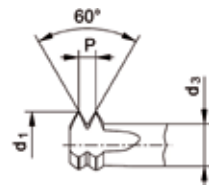
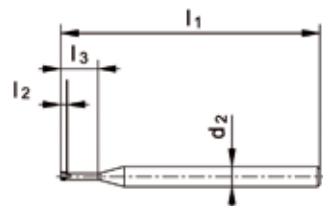
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GW3066VS
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GW3069VS



GW3066VX
GW3067VX



GW3066VS

GW3067VS

GW3069VS

GW3066VX

GW3067VX



D ₁	P	D ₁	d ₁	l ₁	l ₃	l ₃	l ₁	l ₃	d ₂ h6	d ₃		
TPI		mm		2.5 - 3 x D ₁	2.5 x D ₁	3 x D ₁	4 x D ₁	4 x D ₁				
UNC 2	56	2.18	1.66	40	6.1	7.2	40	9.4	4	1.02	3	1.80
3	48	2.51	1.90	40	7.0	8.3	40	10.8	4	1.16	3	2.00
4	40	2.84	2.11	40	8.0	9.4	40	12.2	5	1.22	3	2.30
5	40	3.17	2.44	51	9.1	10.7	51	13.9	5	1.55	4	2.60
6	32	3.50	2.59	51	10.2	12.0	51	15.5	6	1.48	4	2.80
8	32	4.16	3.25	51	11.9	14.0	51	18.1	6	2.14	4	3.40
10	24	4.82	3.60	51	14.0	16.4	51	21.2	8	2.12	4	3.80
12	24	5.48	4.26	51	15.7	18.4	51	23.9	8	2.78	4	4.50
1/4	20	6.35	4.89	51	18.2	21.4	51	27.7	8	3.11	4	5.10
5/16	18	7.93	5.95	75	23.0	27.0	75	35.0	6	3.97	5	6.60
3/8	16	9.52	7.10	83	27.0	32.0	83	41.0	8	4.87	5	8.00
7/16	14	11.11	7.95	83	32.0	37.0	83	48.0	8	5.41	5	9.30
1/2	13	12.70	9.95	95	36.0	42.0	95	55.0	10	7.21	5	10.80

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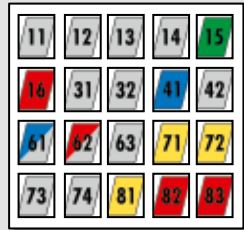
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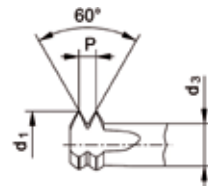
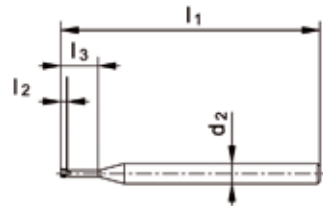
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GW3016VS
GW3017VS
GW3019VS



GW3016VX
GW3017VX



GW3016VS

GW3017VS

GW3019VS

GW3016VX

GW3017VX



D ₁	P	D ₁	d ₁	l ₁	l ₃	l ₃	l ₁	l ₃	d ₂ h5	d ₃		
TPI		mm		2.5 - 3 x D ₁	2.5 x D ₁	3 x D ₁	4 x D ₁	4 x D ₁				
UNC 2	56	2.18	1.66	39	6.1	7.2	39	9.4	3	1.02	3	1.80
3	48	2.51	1.90	39	7.0	8.3	39	10.8	3	1.16	3	2.00
4	40	2.84	2.11	39	8.0	9.4	39	12.2	3	1.22	3	2.30
5	40	3.17	2.44	51	9.1	10.7	51	13.9	5	1.55	4	2.60
6	32	3.50	2.59	51	10.2	12.0	51	15.5	5	1.48	4	2.80
8	32	4.16	3.25	51	11.9	14.0	51	18.1	5	2.14	4	3.40
10	24	4.82	3.60	51	14.0	16.4	51	21.2	5	2.12	4	3.80
12	24	5.48	4.26	51	15.7	18.4	51	23.9	5	2.78	4	4.50
1/4	20	6.35	4.89	51	18.2	21.4	51	27.7	5	3.11	4	5.10
5/16	18	7.93	5.95	63	23.0	27.0	75	35.0	6*	3.97	5	6.60
3/8	16	9.52	7.10	67	27.0	32.0	83	41.0	8*	4.87	5	8.00
7/16	14	11.11	7.95	67	32.0	37.0	83	48.0	8*	5.41	5	9.30
1/2	13	12.70	9.95	76	36.0	42.0	95	55.0	10*	7.21	5	10.80

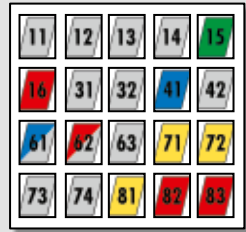
* tol. h6

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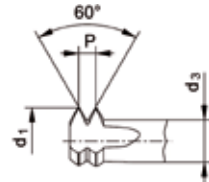
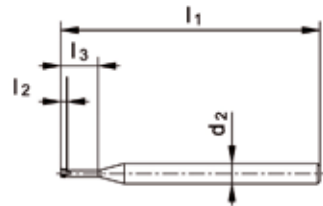


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186236	186366	186601	187299	187427
167501	186367	167508	187300	187428
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167502	186369	167509	187302	187430
167503	186370	167510	187303	187431
173986	186371	173979	187304	187432
186238	186372	186603	187305	187433
167504	186373	167511	187306	187434
175246	186374	175277	187307	187435
173546	186375	175278	187308	187436
186239	186376	186604	187309	187437
175247	186377	175279	187310	187438

GW3066VS
GW3067VS
GW3069VS



GW3066VX
GW3067VX



GW3066VS



GW3067VS



GW3069VS



GW3066VX



GW3067VX



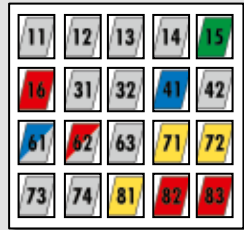
D ₁	P	D ₁	d ₁	l ₁	l ₃	l ₃	l ₁	l ₃	d ₂ h6	d ₃		
TPI		mm		2.5 - 3 x D ₁	2.5 x D ₁	3 x D ₁	4 x D ₁	4 x D ₁				
UNF 0	80	1.52	1.15	40	4.3	5.0	40	6.6	4	0.71	3	1.20
1	72	1.85	1.44	40	5.1	6.1	40	7.9	4	0.95	3	1.50
2	64	2.18	1.72	40	6.0	7.1	40	9.3	4	1.16	3	1.80
4	48	2.84	2.23	40	7.9	9.3	40	12.1	5	1.49	3	2.40
5	44	3.17	2.51	51	9.0	10.6	51	13.8	5	1.70	4	2.60
6	40	3.50	2.77	51	10.0	11.7	51	15.2	6	1.88	4	2.90
8	36	4.16	3.35	51	11.7	13.8	51	18.0	6	2.36	4	3.50
10	32	4.82	3.91	51	13.5	15.9	51	20.8	8	2.80	4	4.10
12	28	5.48	4.44	51	15.4	18.1	51	23.6	8	3.17	4	4.60
1/4	28	6.35	4.95	51	17.6	20.7	51	27.1	8	3.68	4	5.50
5/16	24	7.93	5.95	75	22.0	26.0	75	34.0	6	4.47	5	6.90
3/8	24	9.52	7.10	83	26.0	31.0	83	40.0	8	5.62	5	8.50
7/16	20	11.11	7.95	83	31.0	36.0	83	47.0	8	6.17	5	9.90
1/2	20	12.70	9.95	95	35.0	41.0	95	54.0	10	8.17	5	11.50

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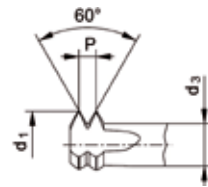
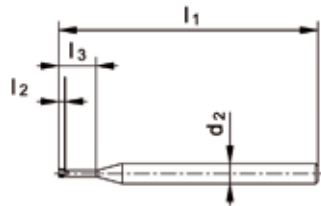


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186172	186561	186639	187499
186173	186562	186640	187500
186174	186563	186641	187501
186175	186564	186642	187502
186176	186565	186643	187503
186177	186566	186644	187504
186178	186567	186645	187505
186179	186568	186646	187506
186180	186569	186647	187507

GW3016VS
GW3017VS
GW3019VS



GW3016VX
GW3017VX



GW3016VS

GW3017VS

GW3019VS

GW3016VX

GW3017VX



D ₁	P	D ₁	d ₁	l ₁	l ₃	l ₃	l ₁	l ₃	d ₂ h5	d ₃		
TPI		mm		2.5 - 3 x D ₁	2.5 x D ₁	3 x D ₁	4 x D ₁	4 x D ₁				
UNF 0	80	1.52	1.15	39	4.3	5.0	39	6.6	3	0.71	3	1.20
1	72	1.85	1.44	39	5.1	6.1	39	7.9	3	0.95	3	1.50
2	64	2.18	1.72	39	6.0	7.1	39	9.3	3	1.16	3	1.80
4	48	2.84	2.23	39	7.9	9.3	39	12.1	3	1.49	3	2.40
5	44	3.17	2.51	51	9.0	10.6	51	13.8	5	1.70	4	2.60
6	40	3.50	2.77	51	10.0	11.7	51	15.2	5	1.88	4	2.90
8	36	4.16	3.35	51	11.7	13.8	51	18.0	5	2.36	4	3.50
10	32	4.82	3.91	51	13.5	15.9	51	20.8	5	2.80	4	4.10
12	28	5.48	4.44	51	15.4	18.1	51	23.6	5	3.17	4	4.60
1/4	28	6.35	4.95	51	17.6	20.7	51	27.1	5	3.68	4	5.50
5/16	24	7.93	5.95	63	22.0	26.0	75	34.0	6*	4.47	5	6.90
3/8	24	9.52	7.10	67	26.0	31.0	83	40.0	8*	5.62	5	8.50
7/16	20	11.11	7.95	67	31.0	36.0	83	47.0	8*	6.17	5	9.90
1/2	20	12.70	9.95	76	35.0	41.0	95	54.0	10*	8.17	5	11.50

* tol. h6

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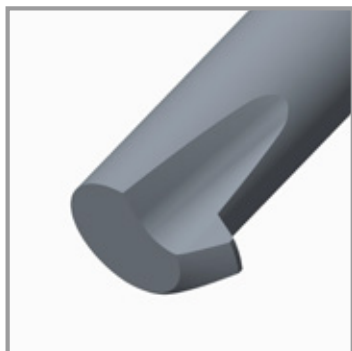
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187452

VASTO PROGRAMMA PER LA FRESATURA DI FILETTI

GW
SERIES 1000

VS

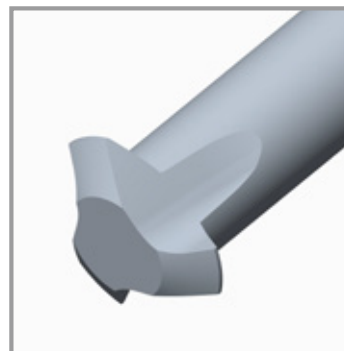


GW1116 / GW1116VS

S 0.3 – S 1.4

GW
SERIES 2000

VS



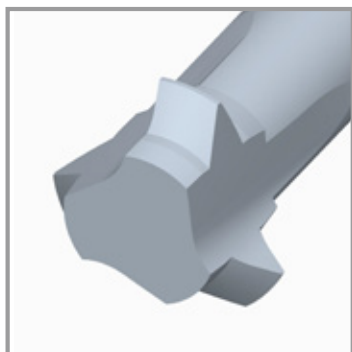
GW2016 / GW2016VS

M 0.8 – M 6

S 0.8 – S 1.4

GW
SERIES 4000

VS



GW4116 / GW4116VS

GW4119 / GW4119VS

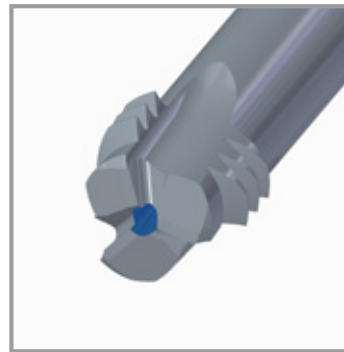
M 0.8 – M 6

UNC 2-56 – UNC 1/4-20

UNF 10-32 – UNF 1/4-28

ZBGF

VS



ZBGF6065VS / ZBGF6067VS

M 3 – M 16

UNC 4-40 – UNC 5/8-11

UNF 4-48 – UNF 5/8-18

► **CALIBRI FILETTATI**



► **MASCHI AD ASPORTAZIONE**



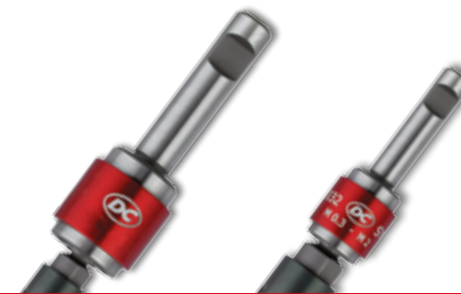
► **MASCHI A RULLARE**



► **FRESE A FILETTARE**



► **MANDRINI PER MASCHIATURA**



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