



GWⁱ
SERIES 3000

GW
SERIES 3000

FR-ID-1017



LA MEILLEURE SOLUTION POUR ACIERS INOXYDABLES ET ALLIAGES DE NICKEL

Ø 0.8 - 6.5 mm

GW*i*
SERIES 3000



Ø 6.5 - 20 mm



Évacuation de copeaux



Durée de vie doublée



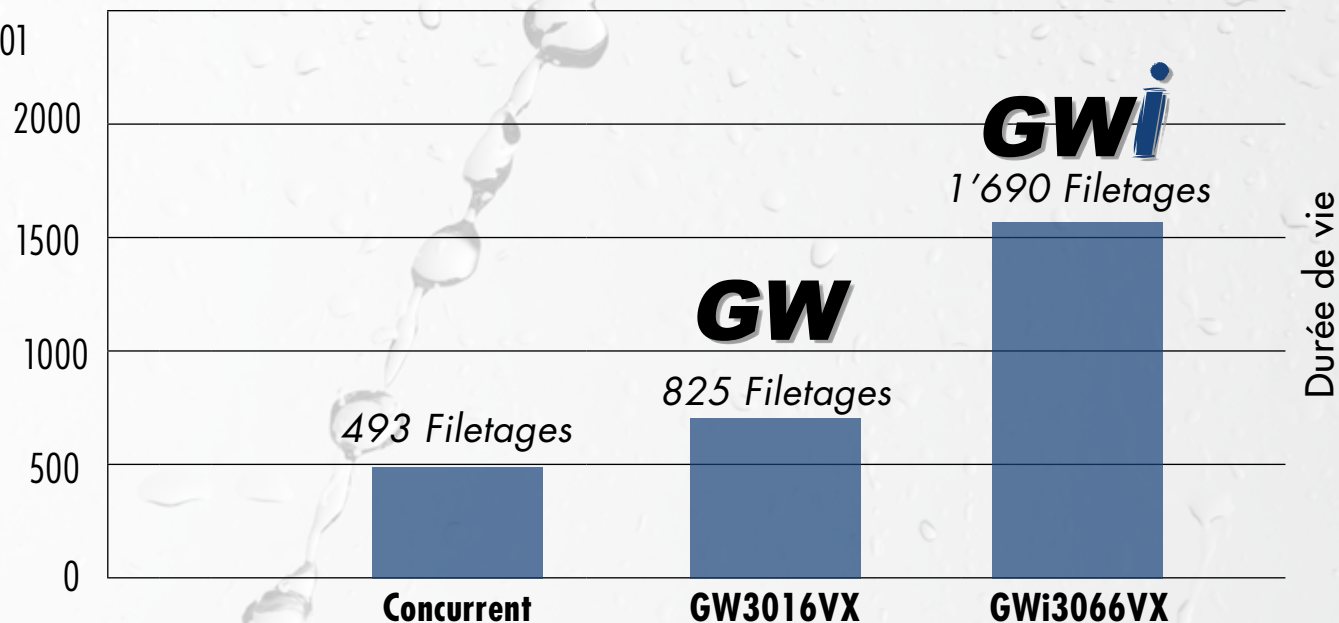
Processus sécurisé



Pas de soudure froide

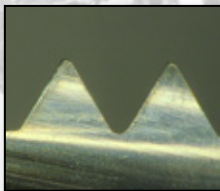
PERFORMANCE

Matière: Acier inoxydable (austénitique), 1.4301
Machine: DMC 650V
Genre de trou: Trou borgne
Dia. de filetage: M3 6H
Longueur fileté: $2 \times D_1$
Lubrifiant: Émulsion 8%
Vc & Avance: 50 m/min & 0.02 mm/dent

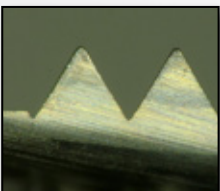


USURE

GWi VX
 1'690 Filetages

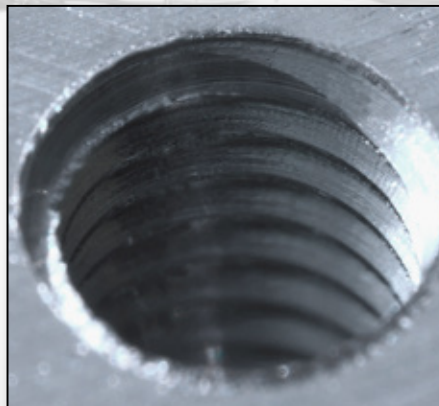


GW VX
 825 Filetages



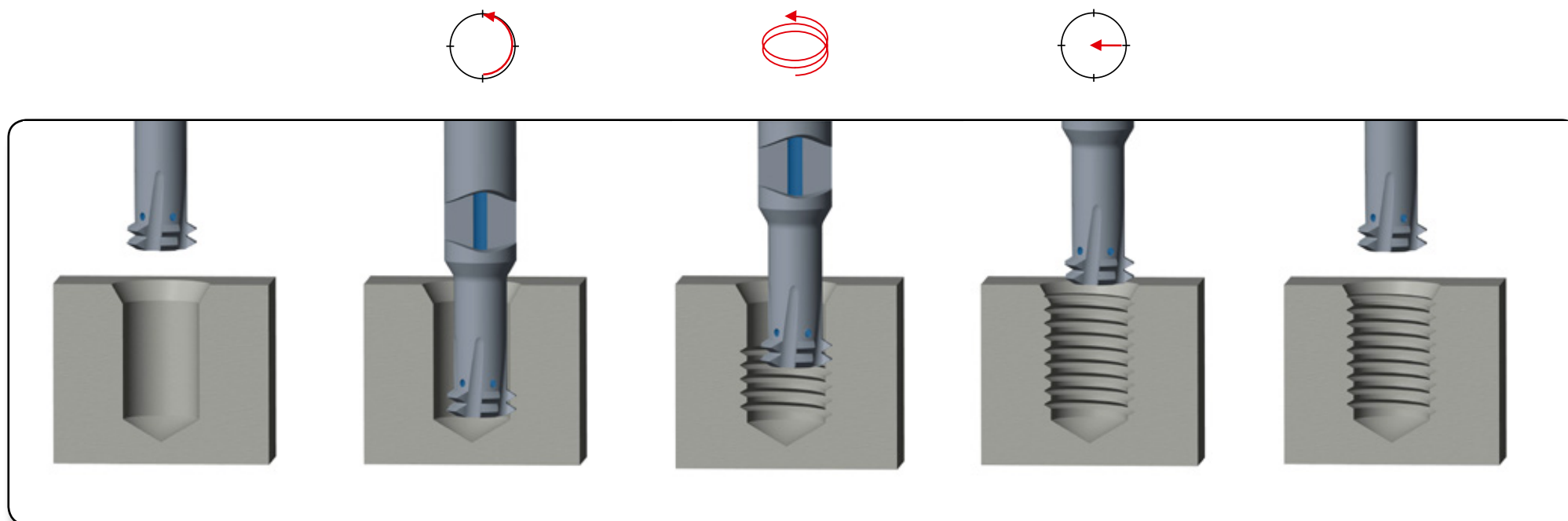
QUALITÉ DE SURFACE

1'690 Filetages



1'690 Filetages dans la matière 1.4301
Nombre de corrections NC: 2
 (Concurrent: 5)

CYCLE DE PROGRAMMATION



PICTOGRAMMES



Longueur filetée $2.5 \times D_1$



Longueur filetée $3 \times D_1$



Longueur filetée $4 \times D_1$



Protection contre l'usure



Protection contre l'usure



Carbure monobloc



Filetage intérieur



Classe de tolérance



Usinage HSC



Lubrification intérieure GWi



Profil GW



Du stock



Livraison en 3 semaines

TABELLE D'UTILISATION

UTILISATION

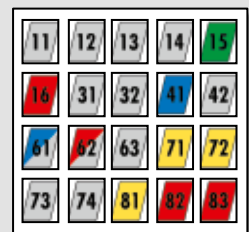
Optimale Fonctionnelle

CLASSIFICATION DES MATIÈRES

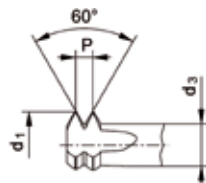
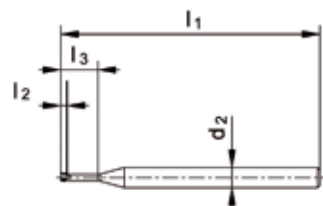
Matières		Désignation des matières	Dureté (HB)	Résistance Rm (N/mm²)	Allongement A (%)
Aciers	11	Aciers de décolletage	<200	<700	<10
	12	Aciers de construction / cémentation	<200	<700	<30
	13	Aciers au carbone	<300	<1000	<20
	14	Aciers alliés <850 N/mm²	<250	<850	<30
	15	Aciers alliés / traités >850 - <1150 N/mm²	>250	>850	<30
	16	Aciers haute résistance	>250	>850	<12
Aciers inoxydables	21	Aciers inoxydables / soufrés	<250	<850	<25
	22	Austénitiques	<250	<850	>20
	23	Ferritiques et martensitiques <850 N/mm²	<250	<850	>20
	24	Ferritiques et martensitiques >850 - <1150 N/mm²	>250	>850	>15
Fonte	31	Fonte grise	<250	<850	<10
	32	Fonte à graphite sphéroïdale et malléable	<250	<850	>10
Titane	41	Titane pur	<250	<850	>20
	42	Alliage de titane	>250	>850	<20
Nickel	51	Alliage de Nickel 1 <850 N/mm²	<250	<850	>25
	52	Alliage de Nickel 2 >850 - <1150 N/mm²	>250	>850	<25
	53	Alliage de Nickel 3 >1150 - ≤1600 N/mm²	>340	>1150	<20
Cuivre	61	Cuivre pur (électrolytique)	<120	<400	>12
	62	Laiton, bronze (copeaux courts)	<200	<700	<12
	63	Laiton (copeaux longs)	<200	<700	>12
Aluminium Magnésium	71	Al non allié	<100	<350	>15
	72	Al allié Si < 1.5 %	<150	<500	>15
	73	Al allié Si > 1.5 % - < 10 %	<120	<400	<15
	74	Al allié Si > 10 %, Alliages Magnésium	<120	<400	<10
Matières plastiques	81	Matières thermoplastiques	-	-	-
	82	Matières duroplastiques	-	-	-
	83	Matières plastiques renforcées par fibres	-	-	-

GWi GW		Vc (m/min)		Avance fz (mm/dent)			
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
				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 - 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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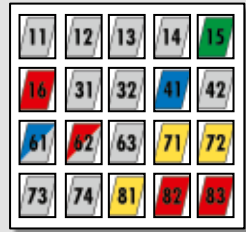
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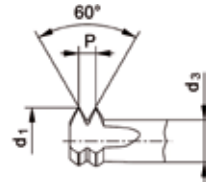
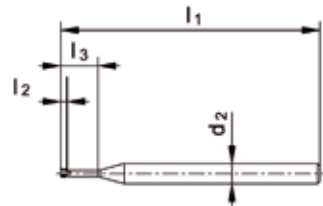
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GW3066VS
GW3067VS
GW3069VS



GW3066VX
GW3067VX



GW3066VS

GW3067VS

GW3069VS

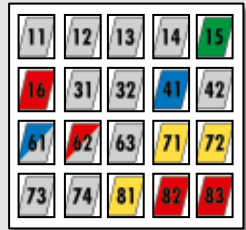
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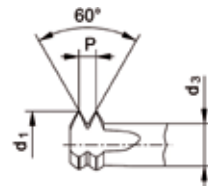
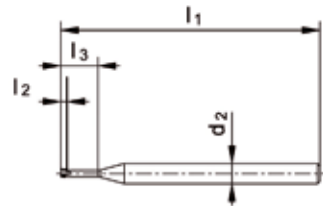


D ₁	P	d ₁	l ₁ 2.5 - 3 x D ₁	l ₃ 2.5 x D ₁	l ₃ 3 x D ₁	l ₁ 4 x D ₁	l ₃ 4 x D ₁	d ₂ h6	d ₃			ID					
MF2	0.2	1.77	40	5.3	6.3		40	8.3	4	1.49	3	1.80	186086	186488	187346	187470	
2	0.25	1.71	40	5.4	6.4		40	8.4	4	1.36	3	1.75	186087	186489	187347	187471	
2.5	0.2	2.27	40	6.6	7.8		40	10.3	4	1.99	3	2.30	186088	186490	187348	187472	
2.5	0.25	2.21	40	6.6	7.9		40	10.4	4	1.86	3	2.25	186089	186491	187349	187473	
3	0.35	2.60	51	8.2	9.7		51	12.7	5	2.11	4	2.65	186090	186492	186620	187350	187474
4	0.5	3.43	51	10.9	12.9		51	16.9	6	2.73	4	3.50	186091	186493	186621	187351	187475
5	0.5	4.43	51	13.4	15.9		51	20.9	8	3.73	4	4.50	186092	186494	186622	187352	187476
6	0.75	4.95	51	16.4	19.4		51	25.4	8	3.90	4	5.25	186093	186495	186623	187353	187477
8	1	5.95	75	22.0	26.0		75	34.0	6	4.55	5	7.00	186094	186496	186624	187354	187478
10	1	7.95	83	27.0	32.0		83	42.0	8	6.55	5	9.00	186095	186497	186625	187355	187479
10	1.25	7.95	83	28.0	33.0		83	43.0	8	6.20	5	8.75	186096	186498	186626	187356	187480
12	1.5	9.95	95	33.0	39.0		95	51.0	10	7.85	5	10.50	186097	186499	186627	187357	187481
14	1.5	10.95	120	43.0	51.0		120	67.0	12	8.85	5	12.50	186098	186500	186628	187358	187482
16	1.5	10.95	120	43.0	51.0		120	67.0	12	8.85	5	14.50	186819	186827	186835	187359	187483
18	1.5	13.95	135	53.0	63.0		135	83.0	14	11.85	6	16.50	186099	186501	186629	187360	187484
20	1.5	13.95	135	53.0	63.0		135	83.0	14	11.85	6	18.50	186820	186828	186836	187361	187485

GW3016VS
GW3017VS
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

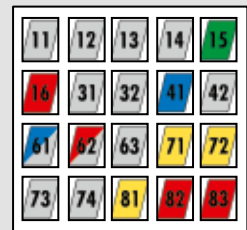
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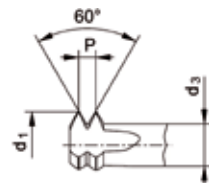
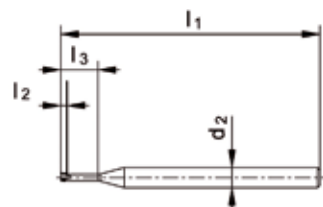


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GW3066VS
GW3067VS
GW3069VS



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				
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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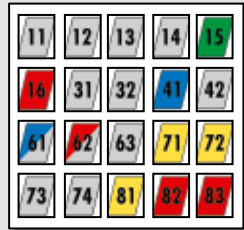
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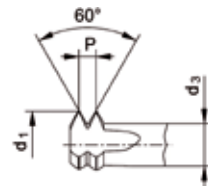
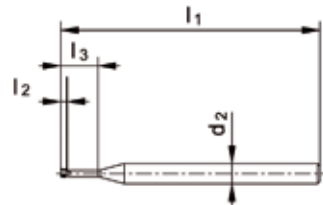
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GW3016VS
GW3017VS
GW3019VS



GW3016VX
GW3017VX



GW3016VS

GW3017VS

GW3019VS

GW3016VX

GW3017VX



D ₁	P	D ₁	d ₁	I ₁	I ₃	I ₃	I ₁	I 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

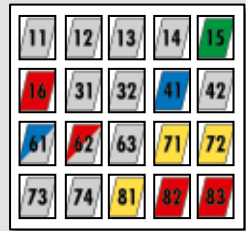
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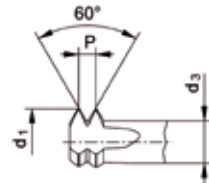
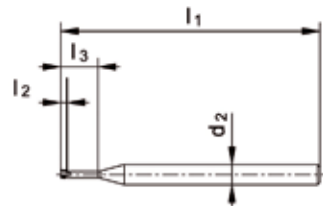


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186236	186366	186601	187299	187427
167501	186367	167508	187300	187428
186237	186368	186602	187301	187429
167502	186369	167509	187302	187430
167503	186370	167510	187303	187431
173986	186371	173979	187304	187432
186238	186372	186603	187305	187433
167504	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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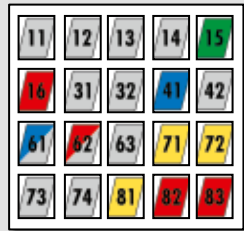


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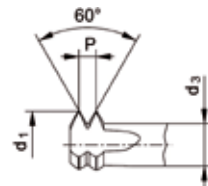
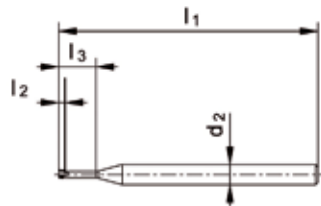
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GW3016VS
GW3017VS
GW3019VS



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				
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

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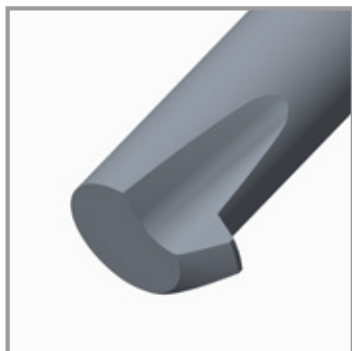
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PROGRAMME COMPLET FRAISES À FILETER

GW
SERIES 1000

VS

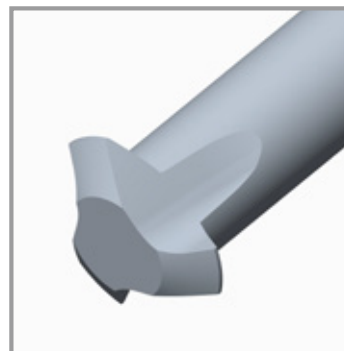


GW1116 / GW1116VS

S 0.3 – S 1.4

GW
SERIES 2000

VS



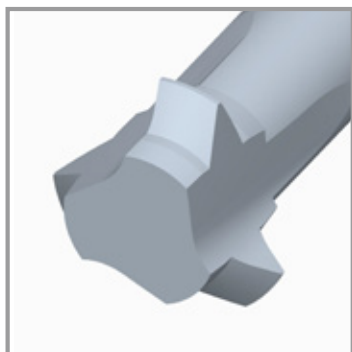
GW2016 / GW2016VS

M 0.8 – M 6

S 0.8 – S 1.4

GW
SERIES 4000

VS



GW4116 / GW4116VS

GW4119 / GW4119VS

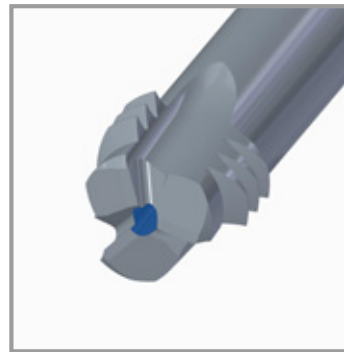
M 0.8 – M 6

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

► **JAUGES DE FILETAGE**



► **TARAUDS COUPANTS**



► **TARAUDS REFOULEUR**



► **FRAISES À FILETER**



► **MANDRINS DE TARAUDAGE**



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