



GW*i*
SERIES 3000

GW
SERIES 3000

 **SWISS**QUALITY



THREADING SOLUTIONS

DIE BESTE LÖSUNG FÜR ROSTFREIE STÄHLE UND SONDERLEGIERUNGEN



Ø 0.8 - 6.5 mm

GW*i*
SERIES 3000



Ø 6.5 - 20 mm



Spanabfuhr



Doppelte Standzeit



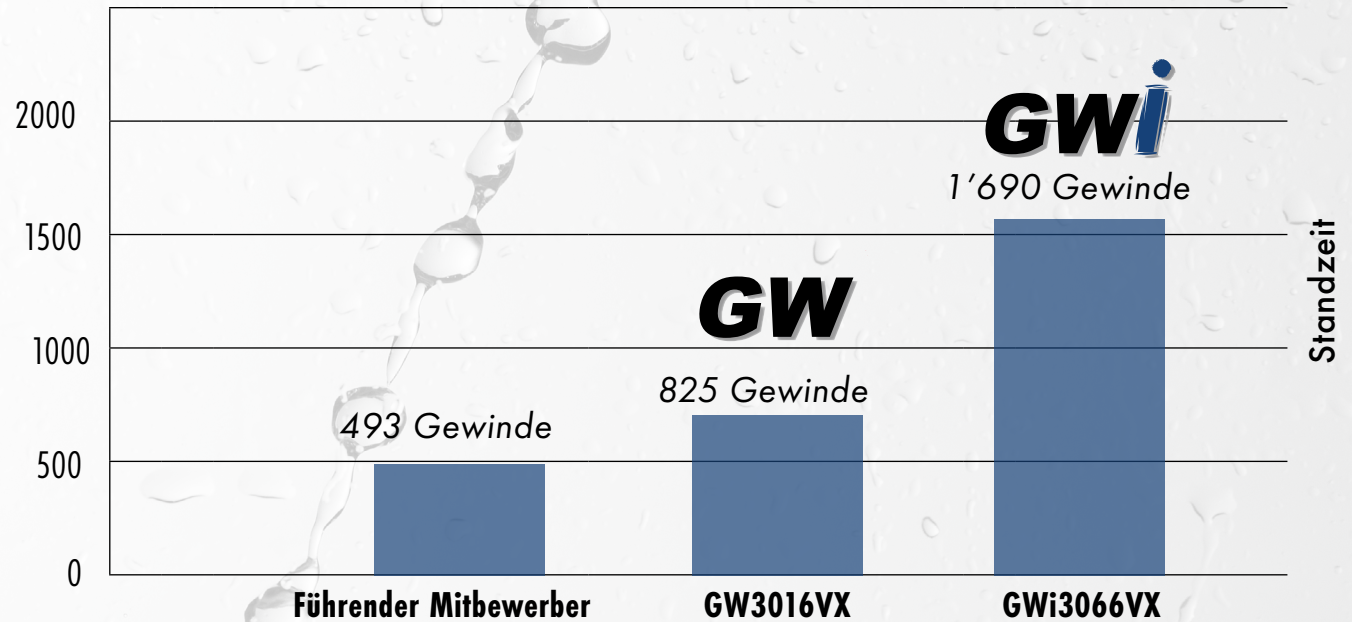
Prozesssicherheit



Keine Aufschweissungen

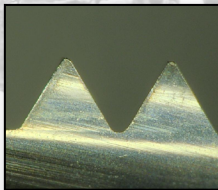
LEISTUNG

Material: Rostfreier Stahl, 1.4301
Maschine: DMC 650V
Lochart: Sackloch
Gewindeabmessung: M3 6H
Gewindetiefe: 2 x D₁
Kühlschmiermittel: Emulsion 8%
Vc & Vorschub: 50 m/min & 0.02 mm/Zahn

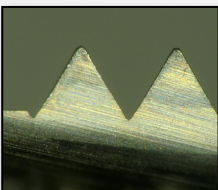


VERSCHLEISSBILD

GWi VX
 1'690 Gewinde

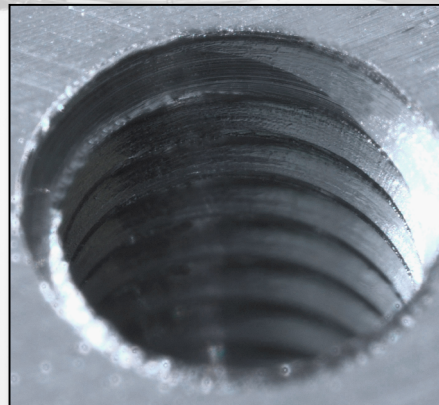


GW VX
 825 Gewinde



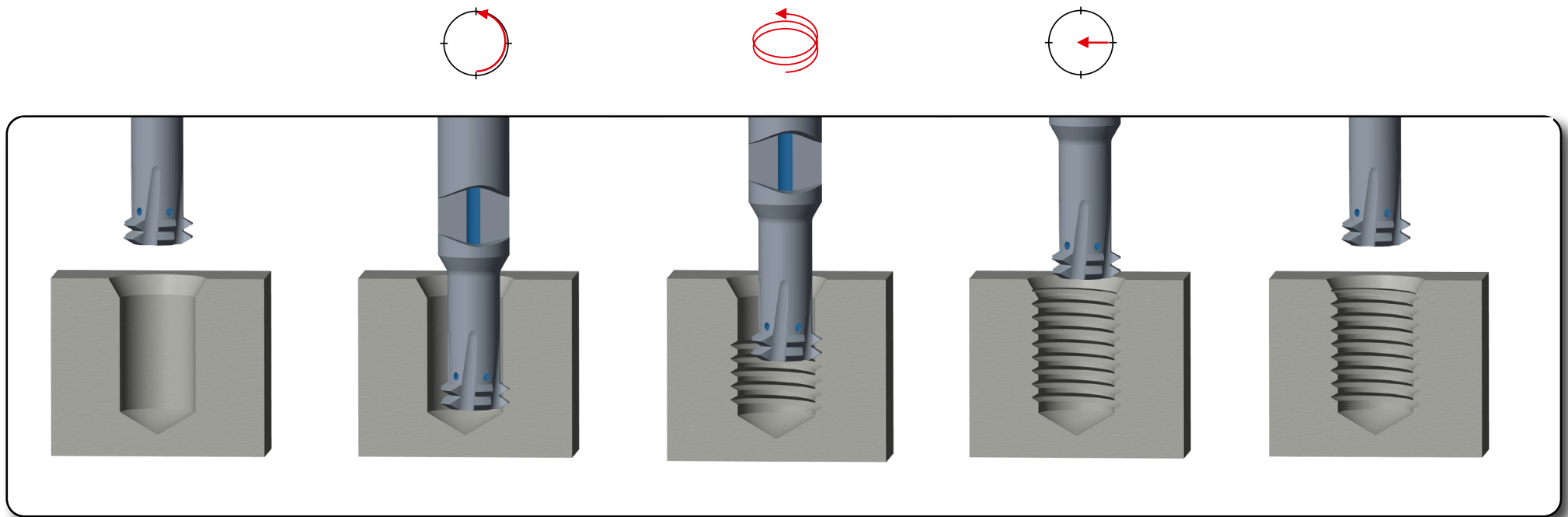
OBERFLÄCHENQUALITÄT

1'690 Gewinde



1'690 Gewinde in Material 1.4301
Anzahl CNC-Radius-Korrekturen: 2
(Mitbewerber: 5)

PROGRAMMIERZYKLUS



PIKTOGRAMME



Gewindelänge $2.5 \times D_1$



Gewindelänge $3 \times D_1$



Gewindelänge $4 \times D_1$



Verschleisschutzschicht



Verschleisschutzschicht



Vollhartmetall



Innengewinde



Toleranzklasse



HSC-Bearbeitung



Innenkühlung GWi



Profil GW



Ab Lager



Lieferung in 3 Wochen

ANWENDUNGSTABELLE




























EINSATZ

 Optimal

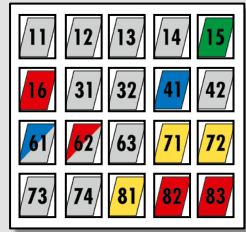
 Geeignet

ANWENDUNGSGRUPPEN

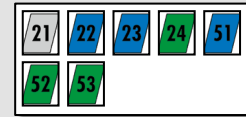
Werkstoff		Werkstoffbezeichnung	Härte (HB)	Festigkeit Rm (N/mm ²)	Dehnung A (%)
Stahl	11	Automatenstahl	< 200	< 700	< 10
	12	Baustahl, Einsatzstahl	< 200	< 700	< 30
	13	Kohlenstoffstahl	< 300	< 1000	< 20
	14	Stahl legiert <850 N/mm ²	< 250	< 850	< 30
	15	Stahl legiert / vergütet >850 - <1150 N/mm ²	> 250	> 850	< 30
	16	Hochfester Stahl	> 250	> 850	< 12
Rostfreier Stahl	21	Rostfreier Stahl / geschwefelt	< 250	< 850	< 25
	22	Austenitisch	< 250	< 850	> 20
	23	Ferritisch, martensitisch <850 N/mm ²	< 250	< 850	> 20
	24	Ferritisch, martensitisch >850 - <1150 N/mm ²	> 250	> 850	> 15
Guss	31	Grauguss	< 250	< 850	< 10
	32	Kugelgraphitguss, Temperguss	< 250	< 850	> 10
Titan	41	Reintitan	< 250	< 850	> 20
	42	Titanlegierung	> 250	> 850	< 20
Nickel	51	Nickellegierung 1 <850 N/mm ²	< 250	< 850	> 25
	52	Nickellegierung 2 >850 - <1150 N/mm ²	> 250	> 850	< 25
	53	Nickellegierung 3 >1150 - ≤1600 N/mm ²	> 340	> 1150	< 20
Kupfer	61	Reinkupfer (Elektrolytkupfer)	< 120	< 400	> 12
	62	Messing, Bronze, Rotguss (kurzspanend)	< 200	< 700	< 12
	63	Messing (langspanend)	< 200	< 700	> 12
Aluminium Magnesium	71	Al unlegiert	< 100	< 350	> 15
	72	Al legiert Si < 1.5 %	< 150	< 500	> 15
	73	Al legiert Si > 1.5 % - < 10 %	< 120	< 400	< 15
	74	Al legiert Si > 10 %, Mg-Legierung	< 120	< 400	< 10
Kunststoff	81	Thermoplaste	-	-	-
	82	Duroplaste	-	-	-
	83	Faserverstärkte Kunststoffe	-	-	-

GWi GW		Vc (m/min)		Vorschub fz (mm/Zahn)			
VS	VX	VS	VX	∅ 0.3 - 1.0	∅ 1.01 - 3.0	∅ 3.01 - 6.0	∅ 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



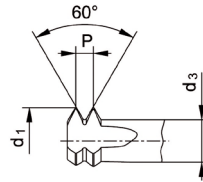
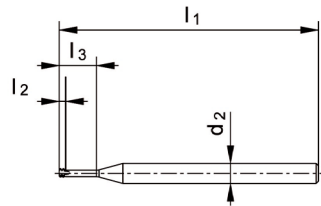
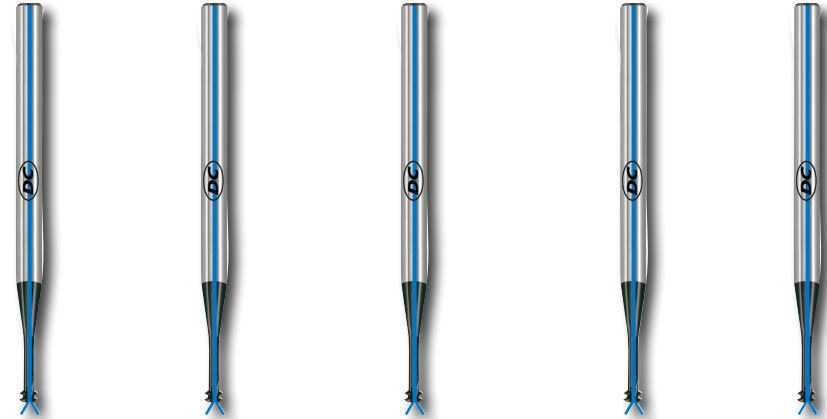
GWi3066VS

GWi3067VS

GWi3069VS

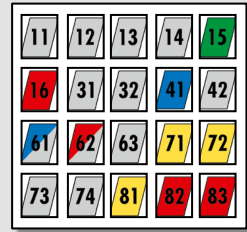
GWi3066VX

GWi3067VX

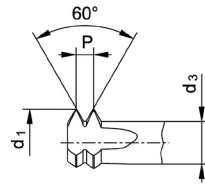
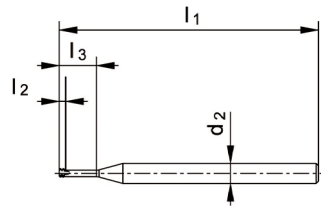
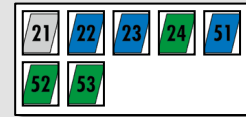


D ₁	P	d ₁	l ₁		l ₃		l ₃		d ₂ h6		d ₃	ID				
			2.5 · 3 x D ₁	2.5 x D ₁	3 x D ₁	4 x D ₁	4 x D ₁									
M 0.8	0.2	0.57	40	2.3	2.7	40	3.5	3	0.29	3	0.65	186029	187325			
0.9	0.225	0.64	40	2.6	3.0	40	3.9	3	0.33	3	0.70	186030	187326			
1	0.25	0.71	40	2.9	3.4	40	4.4	3	0.36	3	0.75	186031	187327			
1.2	0.25	0.91	40	3.4	4.0	40	5.2	3	0.56	3	0.95	186032	187328			
1.4	0.3	1.06	40	3.9	4.6	40	6.0	4	0.64	3	1.10	186033	186443	187329	187453	
1.6	0.35	1.20	40	4.5	5.3	40	6.9	4	0.71	3	1.25	186034	186444	187330	187454	
1.8	0.35	1.40	40	5.0	5.9	40	7.7	4	0.91	3	1.45	186035	186445	187331	187455	
2	0.4	1.54	40	5.6	6.6	40	8.6	4	0.98	3	1.60	186036	186446	187332	187456	
2.5	0.45	1.98	40	6.9	8.1	40	10.6	4	1.35	3	2.05	186037	186447	187333	187457	
3	0.5	2.43	51	8.4	9.9	51	12.9	5	1.73	4	2.50	186038	186448	186610	187334	187458
3.5	0.6	2.81	51	9.9	11.6	51	15.1	6	1.97	4	2.90	186039	186449	186611	187335	187459
4	0.7	3.20	51	11.3	13.3	51	17.3	6	2.22	4	3.30	186040	186450	186612	187336	187460
5	0.8	4.08	51	14.0	16.5	51	21.5	8	2.96	4	4.20	186041	186451	186613	187337	187461
6	1	4.85	51	16.8	19.8	51	25.8	8	3.45	4	5.00	186042	186452	186614	187338	187462
8	1.25	5.95	75	23.0	27.0	75	35.0	6	4.20	5	6.80	186043	186453	186615	187339	187463
10	1.5	7.95	83	28.0	33.0	83	43.0	8	5.85	5	8.50	186044	186454	186616	187340	187464
12	1.75	9.95	95	34.0	40.0	95	52.0	10	7.50	5	10.25	186045	186455	186617	187341	187465
14	2	10.95	120	44.0	52.0	120	68.0	12	8.15	5	12.00	186046	186456	186618	187342	187466
16	2	10.95	120	44.0	52.0	120	68.0	12	8.15	5	14.00	186817	186825	186833	187343	187467
18	2.5	13.95	135	55.0	65.0	135	85.0	14	10.45	6	15.50	186047	186457	186619	187344	187468
20	2.5	13.95	135	55.0	65.0	135	85.0	14	10.45	6	17.50	186818	186826	186834	187345	187469

GW3016VS
GW3017VS
GW3019VS



GW3016VX
GW3017VX



GW3016VS

GW3017VS

GW3019VS

GW3016VXX

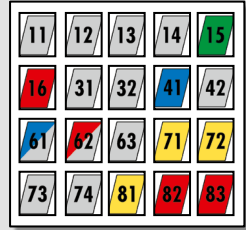
GW3017VXX



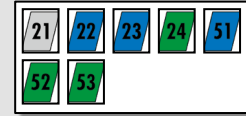
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			2.5 · 3 x D ₁	2.5 x D ₁	3 x D ₁	4 x D ₁	4 x D ₁									
M 0.8	0.2	0.57	39	2.3	2.7	39	3.5	3	0.29	3	0.65	167035	186266	167077	187261	187389
0.9	0.225	0.64	39	2.6	3.0	39	3.9	3	0.33	3	0.70	167036	186267	167078	187262	187390
1	0.25	0.71	39	2.9	3.4	39	4.4	3	0.36	3	0.75	167037	186268	167079	187263	187391
1.2	0.25	0.91	39	3.4	4.0	39	5.2	3	0.56	3	0.95	167038	186269	167080	187264	187392
1.4	0.3	1.06	39	3.9	4.6	39	6.0	3	0.64	3	1.10	167039	186270	167081	187265	187393
1.6	0.35	1.20	39	4.5	5.3	39	6.9	3	0.71	3	1.25	167040	186271	167082	187266	187394
1.8	0.35	1.40	39	5.0	5.9	39	7.7	3	0.91	3	1.45	167041	186272	167083	187267	187395
2	0.4	1.54	39	5.6	6.6	39	8.6	3	0.98	3	1.60	167042	186273	167084	187268	187396
2.5	0.45	1.98	39	6.9	8.1	39	10.6	3	1.35	3	2.05	167043	186274	167085	187269	187397
3	0.5	2.43	51	8.4	9.9	51	12.9	5	1.73	4	2.50	167044	186275	167086	187270	187398
3.5	0.6	2.81	51	9.9	11.6	51	15.1	5	1.97	4	2.90	167045	186276	167087	187271	187399
4	0.7	3.20	51	11.3	13.3	51	17.3	5	2.22	4	3.30	167046	186277	167088	187272	187400
5	0.8	4.08	51	14.0	16.5	51	21.5	5	2.96	4	4.20	167047	186278	167089	187273	187401
6	1	4.85	51	16.8	19.8	51	25.8	5	3.45	4	5.00	167048	186279	167090	187274	187402
8	1.25	5.95	63	23.0	27.0	75	35.0	6*	4.20	5	6.80	175243	186280	175274	187275	187403
10	1.5	7.95	67	28.0	33.0	83	43.0	8*	5.85	5	8.50	175244	186281	175275	187276	187404
12	1.75	9.95	76	34.0	40.0	95	52.0	10*	7.50	5	10.25	175245	186282	175276	187277	187405
14	2	10.95	95	44.0	52.0	120	68.0	12*	8.15	5	12.00	184748	186283	184751	187278	187406
16	2	10.95	95	44.0	52.0	120	68.0	12*	8.15	5	14.00	186813	186821	186829	187279	187407
18	2.5	13.95	105	55.0	65.0	135	85.0	14*	10.45	6	15.50	184503	186284	184754	187280	187408
20	2.5	13.95	105	55.0	65.0	135	85.0	14*	10.45	6	17.50	186814	186822	186830	187281	187409

* tol. h6

GWi3066VS
GWi3067VS
GWi3069VS



GWi3066VX
GWi3067VX



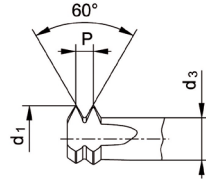
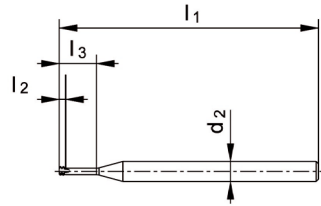
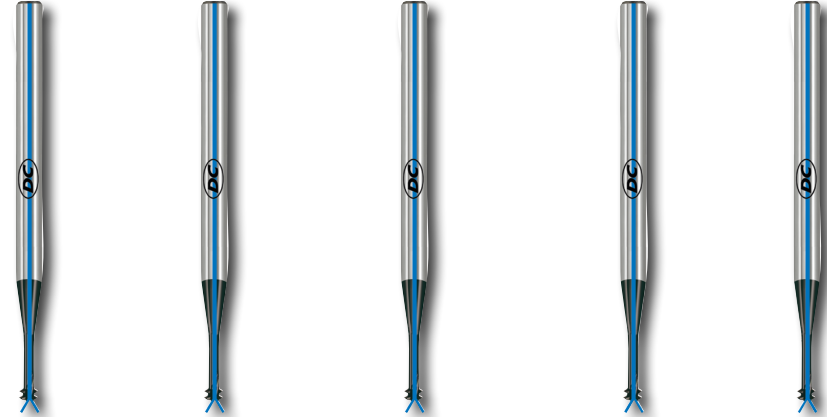
GWi3066VS

GWi3067VS

GWi3069VS

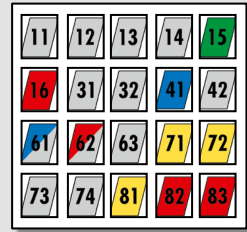
GWi3066VX

GWi3067VX

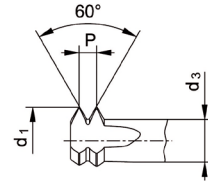
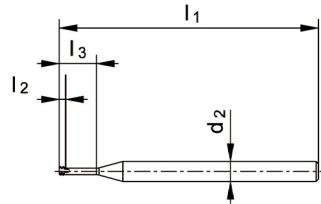
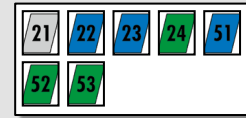


D ₁	P	d ₁	l ₁			l ₃		d ₂ h ₆		d ₃	ID					
			2.5 · 3 x D ₁	2.5 x D ₁	3 x D ₁	4 x D ₁	4 x D ₁									
MF 2	0.2	1.77	40	5.3	6.3	40	8.3	4	1.49	3	1.80	186086	186488	187346	187470	
2	0.25	1.71	40	5.4	6.4	40	8.4	4	1.36	3	1.75	186087	186489	187347	187471	
2.5	0.2	2.27	40	6.6	7.8	40	10.3	4	1.99	3	2.30	186088	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



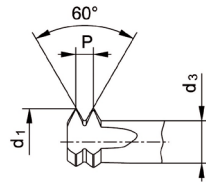
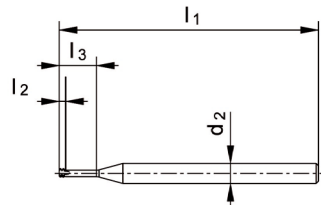
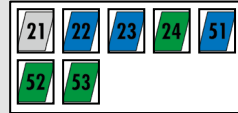
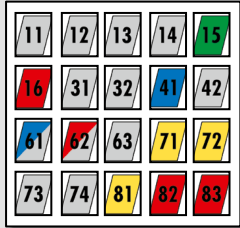
D ₁	P	d ₁	l ₁			l ₃		l ₂		d ₂ h5	d ₃	ID	
			2.5 · 3 x D ₁	2.5 x D ₁	3 x D ₁	4 x D ₁	4 x D ₁						
MF 2	0.2	1.77	39	5.3	6.3	39	8.3	3	1.49	3	1.80	171442	186325
2	0.25	1.71	39	5.4	6.4	39	8.4	3	1.36	3	1.75	186209	186326
2.5	0.2	2.27	39	6.6	7.8	39	10.3	3	1.99	3	2.30	175241	186327
2.5	0.25	2.21	39	6.6	7.9	39	10.4	3	1.86	3	2.25	167299	186328
3	0.35	2.60	51	8.2	9.7	51	12.7	5	2.11	4	2.65	175242	186329
4	0.5	3.43	51	10.9	12.9	51	16.9	5	2.73	4	3.50	184572	186330
5	0.5	4.43	51	13.4	15.9	51	20.9	5	3.73	4	4.50	186210	175199
6	0.75	4.95	51	16.4	19.4	51	25.4	5	3.90	4	5.25	186211	186331
8	1	5.95	63	22.0	26.0	75	34.0	6*	4.55	5	7.00	186212	181233
10	1	7.95	67	27.0	32.0	83	42.0	8*	6.55	5	9.00	186213	186332
10	1.25	7.95	67	28.0	33.0	83	43.0	8*	6.20	5	8.75	186214	186333
12	1.5	9.95	76	33.0	39.0	95	51.0	10*	7.85	5	10.50	186215	186334
14	1.5	10.95	95	43.0	51.0	120	67.0	12*	8.85	5	12.50	186216	186335
16	1.5	10.95	95	43.0	51.0	120	67.0	12*	8.85	5	14.50	186815	186823
18	1.5	13.95	105	53.0	63.0	135	83.0	14*	11.85	6	16.50	186217	186336
20	1.5	13.95	105	53.0	63.0	135	83.0	14*	11.85	6	18.50	186816	186824

* tol. h6

GWi3066VS
GWi3067VS
GWi3069VS



GWi3066VX
GWi3067VX



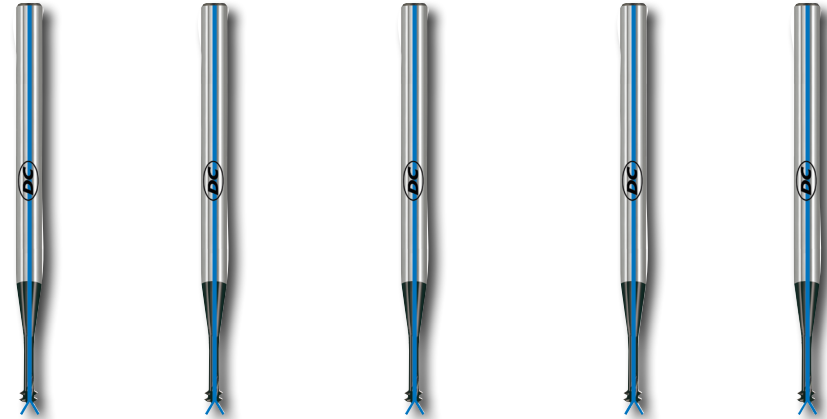
GWi3066VS

GWi3067VS

GWi3069VS

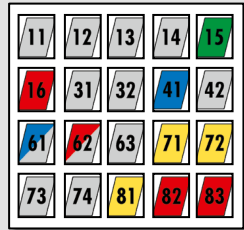
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GWi3067VX

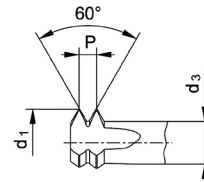
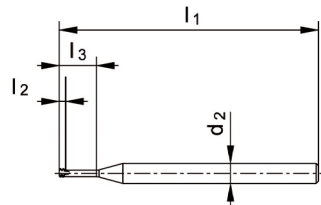
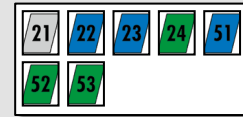


D ₁	P	D ₁	d ₁	l ₁	l ₃	l ₃	l ₁	l ₃	d ₂ h6	d ₃			ID				
TPI		mm		2.5 · 3 x D ₁	2.5 x D ₁	3 x D ₁	4 x D ₁	4 x D ₁									
UNC 2	56	2.18	1.66	40	6.1	7.2	40	9.4	4	1.02	3	1.80	186128		187362		
3	48	2.51	1.90	40	7.0	8.3	40	10.8	4	1.16	3	2.00	186129		187363		
4	40	2.84	2.11	40	8.0	9.4	40	12.2	5	1.22	3	2.30	186130	186526	187364	187486	
5	40	3.17	2.44	51	9.1	10.7	51	13.9	5	1.55	4	2.60	186131	186527	187365	187487	
6	32	3.50	2.59	51	10.2	12.0	51	15.5	6	1.48	4	2.80	186132	186528	186630	187366	187488
8	32	4.16	3.25	51	11.9	14.0	51	18.1	6	2.14	4	3.40	186133	186529	186631	187367	187489
10	24	4.82	3.60	51	14.0	16.4	51	21.2	8	2.12	4	3.80	186134	186530	186632	187368	187490
													186135	186531	186633	187369	187491
1/4	20	6.35	4.89	51	18.2	21.4	51	27.7	8	3.11	4	5.10	186136	186532	186634	187370	187492
5/16	18	7.93	5.95	75	23.0	27.0	75	35.0	6	3.97	5	6.60	186137	186533	186635	187371	187493
3/8	16	9.52	7.10	83	27.0	32.0	83	41.0	8	4.87	5	8.00	186138	186534	186636	187372	187494
7/16	14	11.11	7.95	83	32.0	37.0	83	48.0	8	5.41	5	9.30	186139	186535	186637	187373	187495
1/2	13	12.70	9.95	95	36.0	42.0	95	55.0	10	7.21	5	10.80	186140	186536	186638	187374	187496

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
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

ID

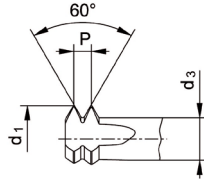
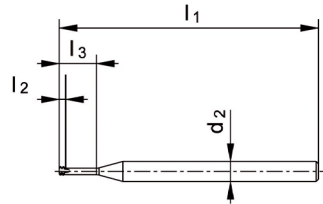
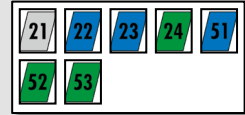
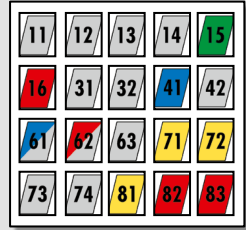


167500	186365	167507	187298	187426
186236	186366	186601	187299	187427
167501	186367	167508	187300	187428
186237	186368	186602	187301	187429
167502	186369	167509	187302	187430
167503	186370	167510	187303	187431
173986	186371	173979	187304	187432
186238	186372	186603	187305	187433
167504	186373	167511	187306	187434
175246	186374	175277	187307	187435
173546	186375	175278	187308	187436
186239	186376	186604	187309	187437
175247	186377	175279	187310	187438

GWi3066VS
GWi3067VS
GWi3069VS



GWi3066VX
GWi3067VX



GWi3066VS

GWi3067VS

GWi3069VS

GWi3066VX

GWi3067VX



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
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

ID



186167			187375	
186168			187376	
186169			187377	
186170	186559		187378	187497
186171	186560		187379	187498
186172	186561	186639	187380	187499
186173	186562	186640	187381	187500
186174	186563	186641	187382	187501
186175	186564	186642	187383	187502
186176	186565	186643	187384	187503
186177	186566	186644	187385	187504
186178	186567	186645	187386	187505
186179	186568	186646	187387	187506
186180	186569	186647	187388	187507

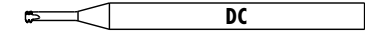
UNF

ANSI B1.1

GW

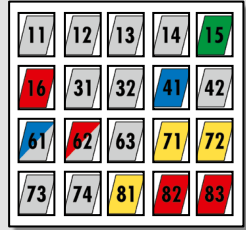
VHM
CAR

< 3µm

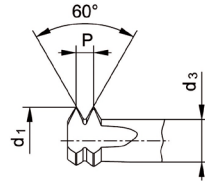
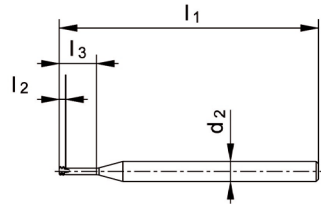
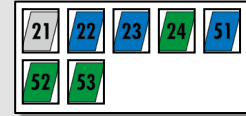


h5/h6

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
10	32	4.82	3.91	51	13.5	15.9	51	20.8	5	2.80	4	4.10
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

4. H7/h6

ID



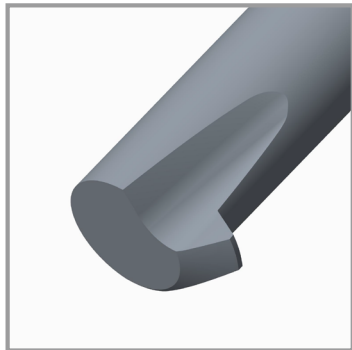
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175250	186407	172376	187314	187442
186249	186408	169815	187315	187443
186250	186409	186606	187316	187444
175251	186410	175282	187317	187445
167505	184633	167512	187318	187446
186251	186411	186607	187319	187447
167506	186412	167513	187320	187448
175252	186413	175283	187321	187449
175253	186414	175284	187322	187450
186252	186415	186608	187323	187451
186253	186416	186609	187324	187452



BREITES GEWINDEFRÄSER PROGRAMM

GW
SERIES 1000

VS

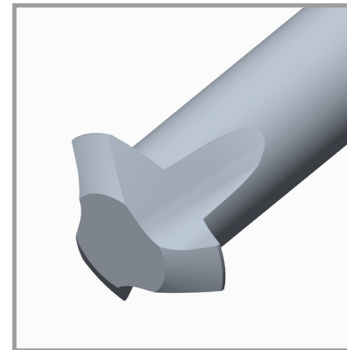


GW1116 / GW1116VS

S 0.3 – S 1.4

GW
SERIES 2000

VS



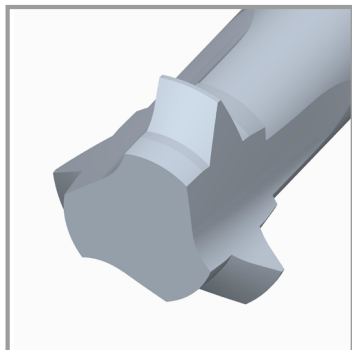
GW2016 / GW2016VS

M 0.8 – M 6

S 0.8 – S 1.4

GW
SERIES 4000

VS



GW4116 / GW4116VS

GW4119 / GW4119VS

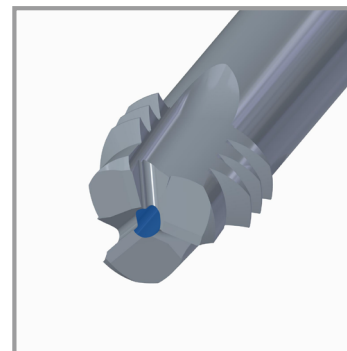
M 0.8 – M 6

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





THREADING SOLUTIONS

► GEWINDELEHREN



► GEWINDEBOHREN



► GEWINDEFORMEN



► GEWINDEFRÄSEN



► GEWINDESCHNEIDFUTTER



DC SWISS SA
Grand-Rue 19
CH-2735 Malleray
Tel. + 41 32 491 63 63
info@dcswiss.ch

DC Nano Tools SA
Grand-Rue 19
CH-2735 Malleray
Tel. + 41 32 491 63 63
info@dcswiss.ch

DC Swiss GmbH
Graseggerstrasse 125
DE-50737 Köln
Tel. + 49 221 995 532 0
info@dcswiss.de

DC Swiss s.r.l
Via Canova 10
IT-20017 Rho
Tel. + 39 02 669 40 41
info@dcswiss.it

DC Swiss UK Ltd
9 Orgreave Road
GB-Sheffield S13 9LQ
Tel. + 44 114 293 90 13
info@dcswiss.co.uk