

10. EROJET

11. PCM

12. DC SWISS

13. Manigley

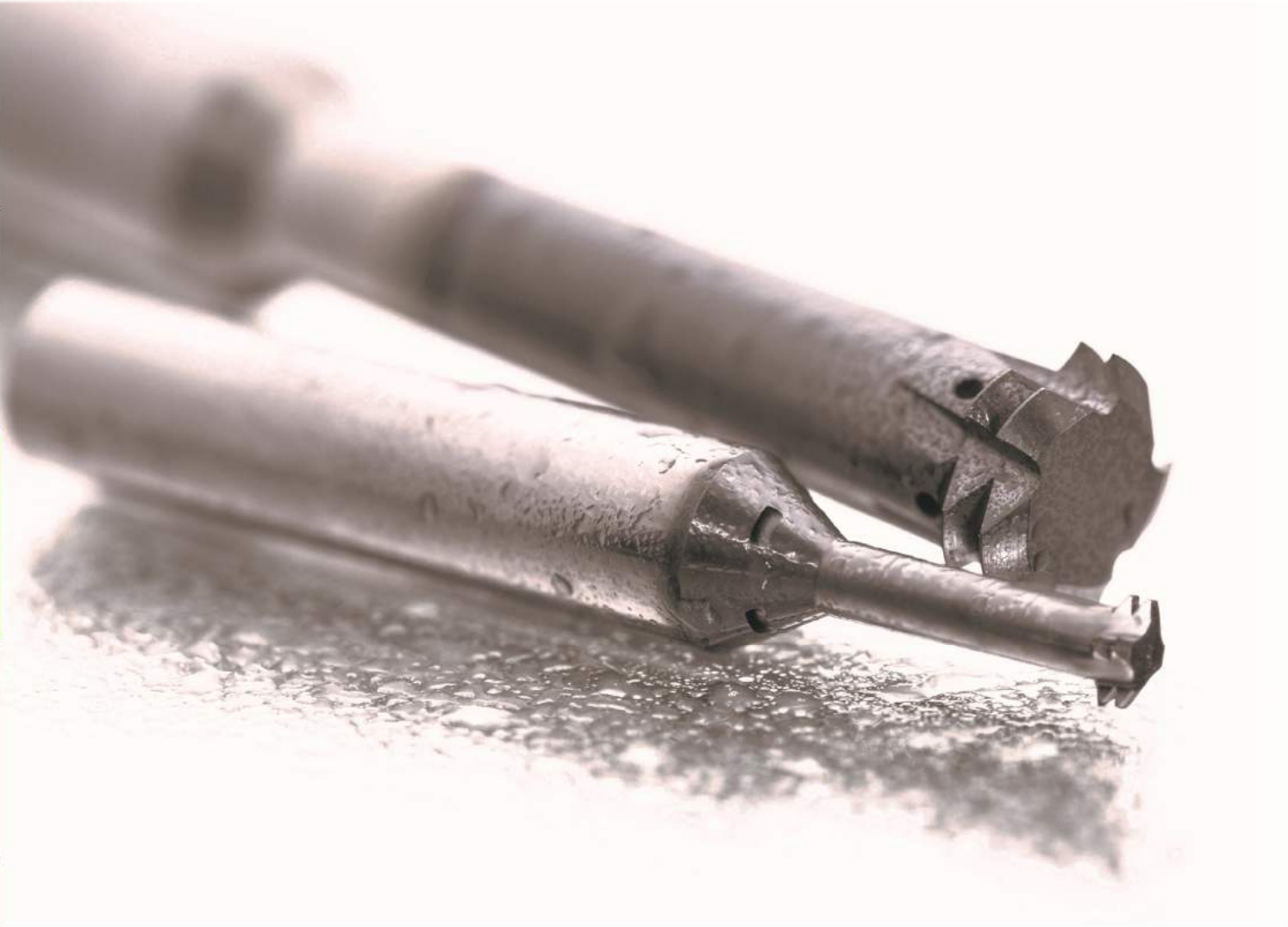
14. NS

15. LOUIS

16. REGO FIX

17. DAIYAK

18. GRIP



**GW*i***  
 SERIES 3000

**GW**  
 SERIES 3000



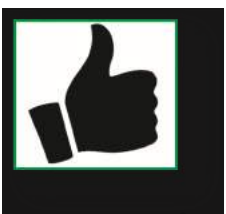
**GW*i***  
SERIES 3000



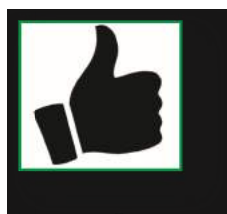
Ø 0.8 - 6.5 mm



6.5 - Ø20 mm



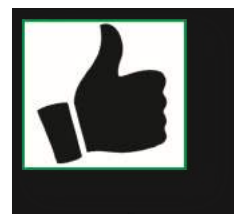
Chip evacuation



Double performance

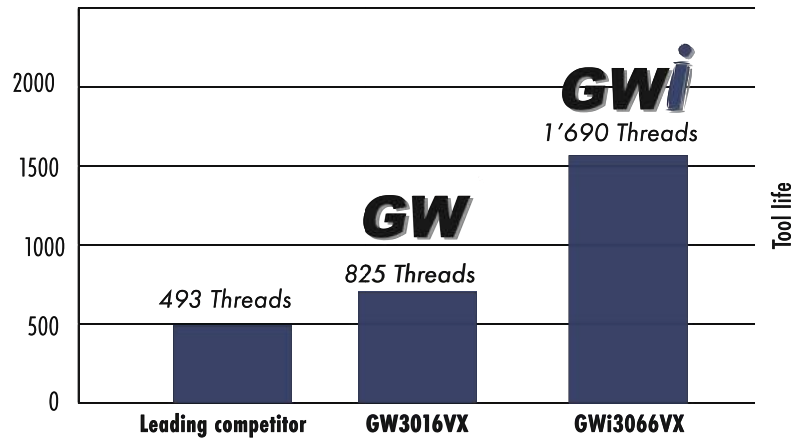


Process security

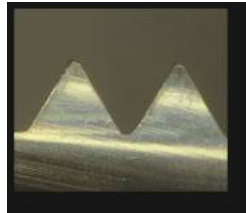


No sticking

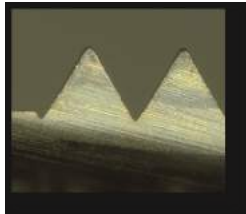
**Material:** Stainless steel, 1.4301  
**Machine:** DMC 650V  
**Kind of hole:** Blind hole  
**Thread size:** M3 6H  
**Thread length:** 2 x D<sub>1</sub>  
**Lubricant:** Emulsion 8%  
**Vc & Feed:** 50 m/min & 0.02 mm/tooth



**GWi VX**  
1'690 Threads

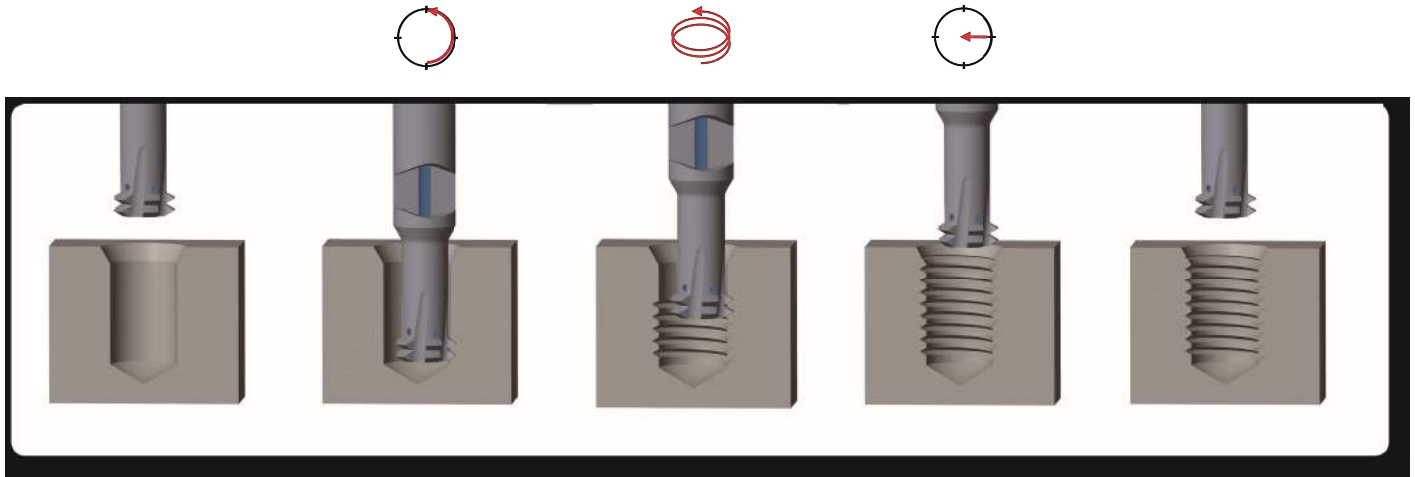


**GW VX**  
825 Threads



1'690 Threads

1'690 Threads in 1.4301  
**Numbers of NC-corrections: 2**  
 (Competitor 5)



### PICTOGRAPHS



Thread length  $2.5 \times D_1$



Thread length  $3 \times D_1$



Thread length  $4 \times D_1$



Internal thread



Tolerance class



High speed cutting



Wear-protective coating



Wear-protective coating



Solid carbide



Internal coolant GWi



GW profil



In Stock



Delivery in 3 weeks



**USE**
 Optimal




























 Suitable
**MATERIAL CLASSIFICATION**

Material groups		Material designation	Hardness (HB)	Tensile strength Rm (N/mm <sup>2</sup> )	Elongation A (%)
<b>Steels</b>	11	Free-cutting steels	< 200	< 700	< 10
	12	Structural / cementation steels	< 200	< 700	< 30
	13	Carbon steels	< 300	< 1000	< 20
	14	Alloy steels <850 N/mm <sup>2</sup>	< 250	< 850	< 30
	15	Alloy steels hard. / temp. >850 - <1150 N/mm <sup>2</sup>	> 250	> 850	< 30
	16	High tensile alloy steels	> 250	> 850	< 12
<b>Stainless Steels</b>	21	Free machining stainless steels	< 250	< 850	< 25
	22	Austenitic stainless steels	< 250	< 850	> 20
	23	Ferritic and martensitic <850 N/mm <sup>2</sup>	< 250	< 850	> 20
	24	Ferritic and martens. >850 - <1150 N/mm <sup>2</sup>	> 250	> 850	> 15
<b>Cast iron</b>	31	Cast iron	< 250	< 850	< 10
	32	Spheroidal graphite + malleable cast iron	< 250	< 850	> 10
<b>Titanium</b>	41	Pure titanium	< 250	< 850	> 20
	42	Titanium alloys	> 250	> 850	< 20
<b>Nickel</b>	51	Nickel alloys 1 <850 N/mm <sup>2</sup>	< 250	< 850	> 25
	52	Nickel alloys 2 >850 - <1150 N/mm <sup>2</sup>	> 250	> 850	< 25
	53	Nickel alloys 3 >1150 - ≤1600 N/mm <sup>2</sup>	> 340	> 1150	< 20
<b>Copper</b>	61	Pure copper (electrolitic copper)	< 120	< 400	> 12
	62	Short chip brass, phosphor bronze, gun metal	< 200	< 700	< 12
	63	Long chip brass	< 200	< 700	> 12
<b>Aluminium Magnesium</b>	71	Al unalloyed	< 100	< 350	> 15
	72	Al alloyed Si < 1.5 %	< 150	< 500	> 15
	73	Al alloyed Si > 1.5 % - < 10 %	< 120	< 400	< 15
	74	Al alloyed Si > 10 %, Mg-Alloys	< 120	< 400	< 10
<b>Plastic compounds</b>	81	Thermoplastics	-	-	-
	82	Duroplastics	-	-	-
	83	Glass fibre reinforced plastics	-	-	-

**USE**

 Optimal

 Suitable

GWi GW		Vc (m/min)		Milling fz (mm/tooth)			
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	0.08 – 0.15
		80 – 100		0.004 – 0.01	0.01 – 0.05	0.04 – 0.10	0.08 – 0.15
		70 – 90		0.004 – 0.01	0.01 – 0.05	0.02 – 0.10	0.05 – 0.15
		70 – 90		0.004 – 0.01	0.01 – 0.05	0.02 – 0.10	0.05 – 0.15
		30 – 50		0.004 – 0.01	0.01 – 0.05	0.02 – 0.08	0.04 – 0.15
		15 – 40		0.003 – 0.01	0.006 – 0.03	0.008 – 0.05	0.01 – 0.08
		40 – 60		0.004 – 0.01	0.01 – 0.05	0.02 – 0.10	0.05 – 0.15
		30 – 50		0.004 – 0.01	0.01 – 0.03	0.02 – 0.05	0.03 – 0.08
		30 – 50		0.004 – 0.01	0.01 – 0.03	0.02 – 0.05	0.03 – 0.08
		30 – 50		0.004 – 0.01	0.01 – 0.03	0.02 – 0.05	0.03 – 0.08
		90 – 120		0.004 – 0.01	0.01 – 0.05	0.04 – 0.10	0.08 – 0.15
		70 – 90		0.004 – 0.01	0.01 – 0.05	0.02 – 0.10	0.05 – 0.15
		20 – 40		0.004 – 0.01	0.01 – 0.03	0.02 – 0.05	0.03 – 0.08
		15 – 35		0.004 – 0.01	0.01 – 0.03	0.02 – 0.05	0.03 – 0.08
		20 – 40		0.004 – 0.01	0.01 – 0.03	0.02 – 0.05	0.03 – 0.08
		20 – 40		0.004 – 0.01	0.01 – 0.03	0.02 – 0.05	0.03 – 0.08
		20 – 30		0.003 – 0.01	0.006 – 0.03	0.008 – 0.05	0.01 – 0.08
		200 – 250		0.004 – 0.01	0.01 – 0.05	0.02 – 0.10	0.05 – 0.15
		150 – 200		0.004 – 0.01	0.01 – 0.05	0.04 – 0.10	0.08 – 0.15
		150 – 200		0.004 – 0.01	0.01 – 0.05	0.02 – 0.10	0.05 – 0.15
		200 – 300		0.004 – 0.01	0.01 – 0.05	0.05 – 0.10	0.10 – 0.20
		200 – 300		0.004 – 0.01	0.01 – 0.05	0.05 – 0.10	0.10 – 0.20
		200 – 300		0.004 – 0.01	0.01 – 0.05	0.05 – 0.10	0.10 – 0.20
		200 – 300		0.004 – 0.01	0.01 – 0.05	0.04 – 0.10	0.08 – 0.15
		200 – 300		0.004 – 0.01	0.01 – 0.05	0.05 – 0.10	0.10 – 0.20
		100 – 200		0.004 – 0.01	0.01 – 0.05	0.04 – 0.10	0.08 – 0.15
		80 – 100		0.004 – 0.01	0.01 – 0.05	0.04 – 0.10	0.08 – 0.15

10. EROJET

11. PCM

12. DC SWISS

13. Manigley

14. NS

15. LOUIS

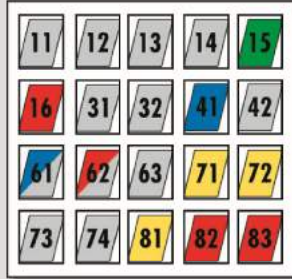
16. REGO FIX

17. DAIYAK

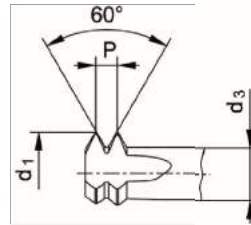
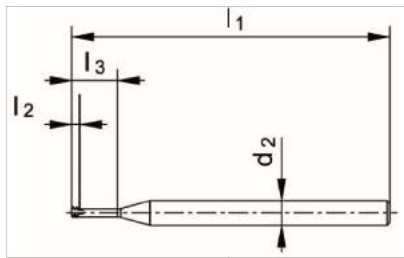
18. GRIP

# M ISO DIN 14 ISO DIN 13










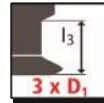


**GWi3066VS**  
**GWi3067VS**  
**GWi3069VS**



**GWi3066VX**  
**GWi3067VX**



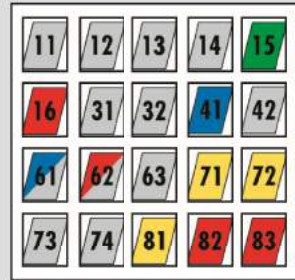
$D_1$	P	$d_1$	$l_1$ 2.5-3xD <sub>1</sub>	$l_3$ 2.5xD <sub>1</sub>	$l_3$ 3xD <sub>1</sub>	$l_1$ 4xD <sub>1</sub>	$l_3$ 4xD <sub>1</sub>	$d_2$ h6	$d_3$		
M 0.8	0.2	0.57	40	2.3	2.7	40	3.5	3	0.29	3	0.65
0.9	0.225	0.64	40	2.6	3.0	40	3.9	3	0.33	3	0.70
1	0.25	0.71	40	2.9	3.4	40	4.4	3	0.36	3	0.75
1.2	0.25	0.91	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

GWi3066VS	GWi3067VS	GWi3069VS	GWi3066VX	GWi3067VX
				
				
ID  				
186029			187325	
186030			187326	
186031			187327	
186032			187328	
186033	186443		187329	187453
186034	186444		187330	187454
186035	186445		187331	187455
186036	186446		187332	187456
186037	186447		187333	187457
186038	186448	186610	187334	187458
186039	186449	186611	187335	187459
186040	186450	186612	187336	187460
186041	186451	186613	187337	187461
186042	186452	186614	187338	187462
186043	186453	186615	187339	187463
186044	186454	186616	187340	187464
186045	186455	186617	187341	187465
186046	186456	186618	187342	187466
186817	186825	186833	187343	187467
186047	186457	186619	187344	187468
186818	186826	186834	187345	187469

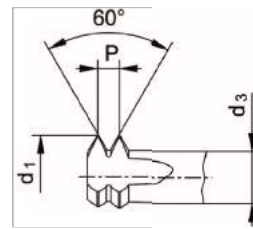
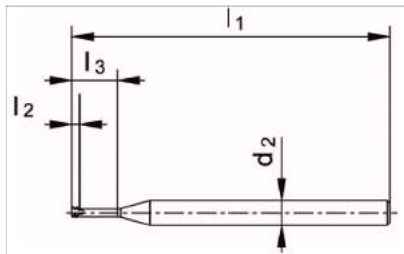
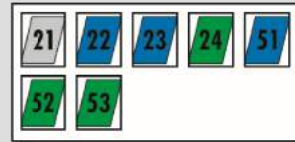


# M ISO DIN 14 ISO DIN 13

GW3016VS  
GW3017VS  
GW3019VS



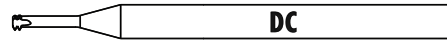
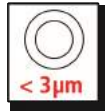
GW3016VX  
GW3017VX



$D_1$	P	$d_1$	$l_1$ <small>2.5 - 3 x <math>D_1</math></small>	$l_3$ <small>2.5 x <math>D_1</math></small>	$l_3$ <small>3 x <math>D_1</math></small>	$l_1$ <small>4 x <math>D_1</math></small>	$l_3$ <small>4 x <math>D_1</math></small>	$d_2$ h5	$d_3$		
M 0.8	0.2	0.57	39	2.3	2.7	39	3.5	3	0.29	3	0.65
0.9	0.225	0.64	39	2.6	3.0	39	3.9	3	0.33	3	0.70
1	0.25	0.71	39	2.9	3.4	39	4.4	3	0.36	3	0.75
1.2	0.25	0.91	39	3.4	4.0	39	5.2	3	0.56	3	0.95
1.4	0.3	1.06	39	3.9	4.6	39	6.0	3	0.64	3	1.10
1.6	0.35	1.20	39	4.5	5.3	39	6.9	3	0.71	3	1.25
1.8	0.35	1.40	39	5.0	5.9	39	7.7	3	0.91	3	1.45
2	0.4	1.54	39	5.6	6.6	39	8.6	3	0.98	3	1.60
2.5	0.45	1.98	39	6.9	8.1	39	10.6	3	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	5	1.97	4	2.90
4	0.7	3.20	51	11.3	13.3	51	17.3	5	2.22	4	3.30
5	0.8	4.08	51	14.0	16.5	51	21.5	5	2.96	4	4.20
6	1	4.85	51	16.8	19.8	51	25.8	5	3.45	4	5.00
8	1.25	5.95	63	23.0	27.0	75	35.0	6*	4.20	5	6.80
10	1.5	7.95	67	28.0	33.0	83	43.0	8*	5.85	5	8.50
12	1.75	9.95	76	34.0	40.0	95	52.0	10*	7.50	5	10.25
14	2	10.95	95	44.0	52.0	120	68.0	12*	8.15	5	12.00
16	2	10.95	95	44.0	52.0	120	68.0	12*	8.15	5	14.00
18	2.5	13.95	105	55.0	65.0	135	85.0	14*	10.45	6	15.50
20	2.5	13.95	105	55.0	65.0	135	85.0	14*	10.45	6	17.50
									* tol. h6		



# GW

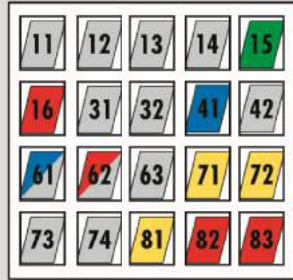


GW3016VS	GW3017VS	GW3019VS	GW3016VX	GW3017VX
ID				
167035 ●	186266 ●	167077 ●	187261 ●	187389 ●
167036 ●	186267 ●	167078 ●	187262 ●	187390 ●
167037 ●	186268 ●	167079 ●	187263 ●	187391 ●
167038 ●	186269 ●	167080 ●	187264 ●	187392 ●
167039 ●	186270 ●	167081 ●	187265 ●	187393 ●
167040 ●	186271 ●	167082 ●	187266 ●	187394 ●
167041 ●	186272 ●	167083 ●	187267 ●	187395 ●
167042 ●	186273 ●	167084 ●	187268 ●	187396 ●
167043 ●	186274 ●	167085 ●	187269 ●	187397 ●
167044 ●	186275 ●	167086 ●	187270 ●	187398 ●
167045 ●	186276 ●	167087 ●	187271 ●	187399 ●
167046 ●	186277 ●	167088 ●	187272 ●	187400 ●
167047 ●	186278 ●	167089 ●	187273 ●	187401 ●
167048 ●	186279 ●	167090 ●	187274 ●	187402 ●
175243 ●	186280 ●	175274 ●	187275 ●	187403 ●
175244 ●	186281 ●	175275 ●	187276 ●	187404 ●
175245 ●	186282 ●	175276 ●	187277 ●	187405 ●
184748 ●	186283 ●	184751 ●	187278 ●	187406 ●
186813 ●	186821 ●	186829 ●	187279 ●	187407 ●
184503 ●	186284 ●	184754 ●	187280 ●	187408 ●
186814 ●	186822 ●	186830 ●	187281 ●	187409 ●

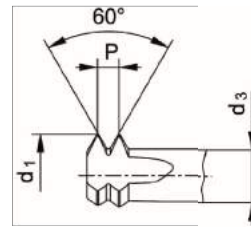
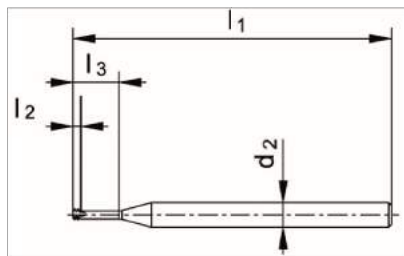
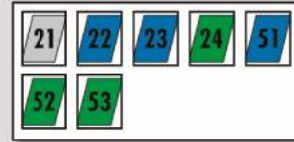
10. EROJET  
11. PCM  
12. DC SWISS  
13. Manigley  
14. NS  
15. LOUIS  
16. REGO FIX  
17. DAIYAK  
18. GRIP

# MF ISO DIN 13










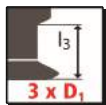


GWi3066VS  
GWi3067VS  
GWi3069VS



GWi3066VX  
GWi3067VX

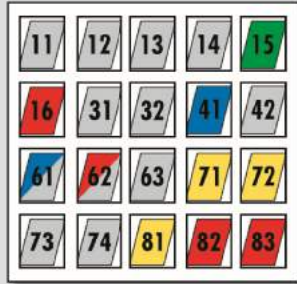


D <sub>1</sub>	P	d <sub>1</sub>	l <sub>1</sub> 2.5 - 3 x D <sub>1</sub>	l <sub>3</sub> 2.5 x D <sub>1</sub>	l <sub>3</sub> 3 x D <sub>1</sub>	l <sub>1</sub> 4 x D <sub>1</sub>	l <sub>3</sub> 4 x D <sub>1</sub>	d <sub>2</sub> h6	d <sub>3</sub>		
MF 2	0.2	1.77	40	5.3	6.3	40	8.3	4	1.49	3	1.80
2	0.25	1.71	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

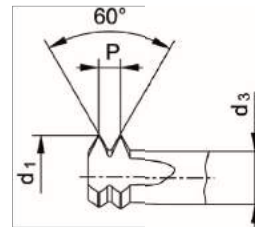
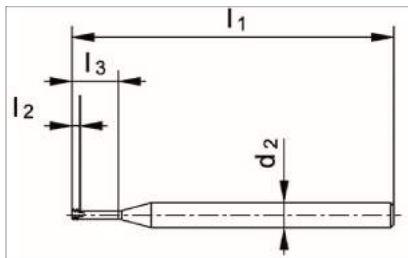
GWi3066VS	GWi3067VS	GWi3069VS	GWi3066VX	GWi3067VX
				
				
ID  				
186086 ●	186488 ●		187346 ●	187470 ●
186087 ●	186489 ●		187347 ●	187471 ●
186088 ●	186490 ●		187348 ●	187472 ●
186089 ●	186491 ●		187349 ●	187473 ●
186090 ●	186492 ●	186620 ●	187350 ●	187474 ●
186091 ●	186493 ●	186621 ●	187351 ●	187475 ●
186092 ●	186494 ●	186622 ●	187352 ●	187476 ●
186093 ●	186495 ●	186623 ●	187353 ●	187477 ●
186094 ●	186496 ●	186624 ●	187354 ●	187478 ●
186095 ●	186497 ●	186625 ●	187355 ●	187479 ●
186096 ●	186498 ●	186626 ●	187356 ●	187480 ●
186097 ●	186499 ●	186627 ●	187357 ●	187481 ●
186098 ●	186500 ●	186628 ●	187358 ●	187482 ●
186819 ●	186827 ●	186835 ●	187359 ●	187483 ●
186099 ●	186501 ●	186629 ●	187360 ●	187484 ●
186820 ●	186828 ●	186836 ●	187361 ●	187485 ●

# MF ISO DIN 13

GW3016VS  
GW3017VS  
GW3019VS



GW3016VX  
GW3017VX

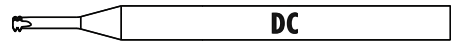


D <sub>1</sub>	P	d <sub>1</sub>	l <sub>1</sub> 2.5 - 3 x D <sub>1</sub>	l <sub>3</sub> 2.5 x D <sub>1</sub>	l <sub>3</sub> 3 x D <sub>1</sub>	l <sub>1</sub> 4 x D <sub>1</sub>	l <sub>3</sub> 4 x D <sub>1</sub>	d <sub>2</sub> h5	d <sub>3</sub>		
MF 2	0.2	1.77	39	5.3	6.3	39	8.3	3	1.49	3	1.80
2	0.25	1.71	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		






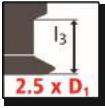






# GW

VHM  
CAR

  
< 3µm



**h5/h6**

GW3016VS	GW3017VS	GW3019VS	GW3016VX	GW3017VX
				
				
ID  				
171442 ●	186325 ●	175270 ●	187282 ●	187410 ●
186209 ●	186326 ●	186592 ●	187283 ●	187411 ●
175241 ●	186327 ●	175271 ●	187284 ●	187412 ●
167299 ●	186328 ●	175272 ●	187285 ●	187413 ●
175242 ●	186329 ●	175273 ●	187286 ●	187414 ●
184572 ●	186330 ●	186593 ●	187287 ●	187415 ●
186210 ●	175199 ●	171033 ●	187288 ●	187416 ●
186211 ●	186331 ●	186594 ●	187289 ●	187417 ●
186212 ●	181233 ●	186595 ●	187290 ●	187418 ●
186213 ●	186332 ●	186596 ●	187291 ●	187419 ●
186214 ●	186333 ●	186597 ●	187292 ●	187420 ●
186215 ●	186334 ●	186598 ●	187293 ●	187421 ●
186216 ●	186335 ●	186599 ●	187294 ●	187422 ●
186815 ●	186823 ●	186831 ●	187295 ●	187423 ●
186217 ●	186336 ●	186600 ●	187296 ●	187424 ●
186816 ●	186824 ●	186832 ●	187297 ●	187425 ●

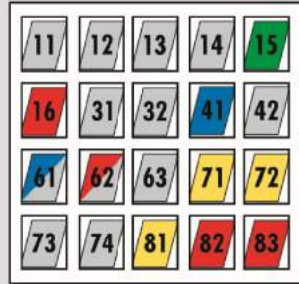
10. EROJET  
11. PCM  
12. DC SWISS  
13. Manigley  
14. NS  
15. LOUIS  
16. REGO FIX  
17. DAIYAK  
18. GRIP



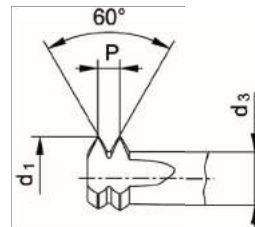
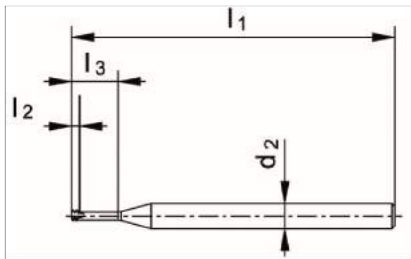
# UNC

## ANSI B1.1













GWi3066VS  
GWi3067VS  
GWi3069VS



GWi3066VX  
GWi3067VX



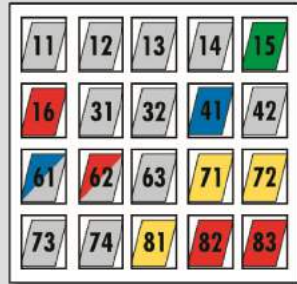
$D_1$	P	$D_1$	$d_1$	$l_1$	$l_3$	$l_3$	$l_1$	$l_3$	$d_2$ h6	$d_3$		
TPI		mm		2.5 - 3, x D	2.5 x D	3 x D	4 x D	4 x D				
UNC 2	56	2.18	1.66	40	6.1	7.2	40	9.4	4	1.02	3	1.80
3	48	2.51	1.90	40	7.0	8.3	40	10.8	4	1.16	3	2.00
4	40	2.84	2.11	40	8.0	9.4	40	12.2	5	1.22	3	2.30
5	40	3.17	2.44	51	9.1	10.7	51	13.9	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

GWi3066VS	GWi3067VS	GWi3069VS	GWi3066VX	GWi3067VX
				
				
<p>ID  </p>				
186128 ●			187362 ●	
186129 ●			187363 ●	
186130 ●	186526 ●		187364 ●	187486 ●
186131 ●	186527 ●		187365 ●	187487 ●
186132 ●	186528 ●	186630 ●	187366 ●	187488 ●
186133 ●	186529 ●	186631 ●	187367 ●	187489 ●
186134 ●	186530 ●	186632 ●	187368 ●	187490 ●
186135 ●	186531 ●	186633 ●	187369 ●	187491 ●
186136 ●	186532 ●	186634 ●	187370 ●	187492 ●
186137 ●	186533 ●	186635 ●	187371 ●	187493 ●
186138 ●	186534 ●	186636 ●	187372 ●	187494 ●
186139 ●	186535 ●	186637 ●	187373 ●	187495 ●
186140 ●	186536 ●	186638 ●	187374 ●	187496 ●

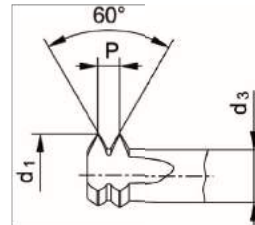
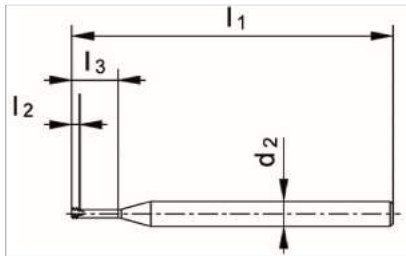
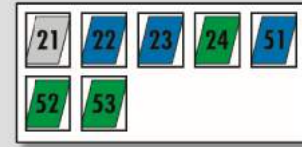
# UNC

## ANSI B1.1

GW3016VS  
GW3017VS  
GW3019VS



GW3016VX  
GW3017VX

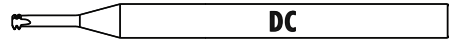


$D_1$	P	$D_1$	$d_1$	$l_1$	$l_3$	$l_3$	$l_1$	$l_3$	$d_2$ h5	$d_3$		
TPI		mm		$2.5 - 3 \times D_1$	$2.5 \times D_1$	$3 \times D_1$	$4 \times D_1$	$4 \times D_1$				
UNC 2	56	2.18	1.66	39	6.1	7.2	39	9.4	3	1.02	3	1.80
3	48	2.51	1.90	39	7.0	8.3	39	10.8	3	1.16	3	2.00
4	40	2.84	2.11	39	8.0	9.4	39	12.2	3	1.22	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		






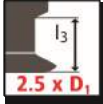






# GW

VHM  
CAR

 < 3µm



h5/h6

GW3016VS	GW3017VS	GW3019VS	GW3016VX	GW3017VX
				
				
ID   3				
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 ●

10. EROJET

11. PCM

12. DC SWISS

13. Manigley

14. NS

15. LOUIS

16. REGO FIX

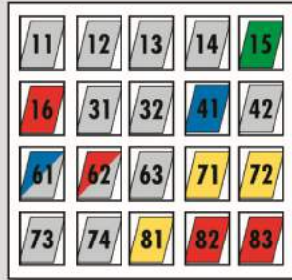
17. DAIYAK

18. GRIP

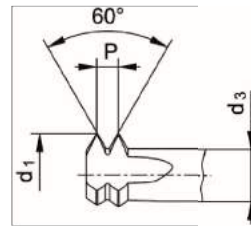
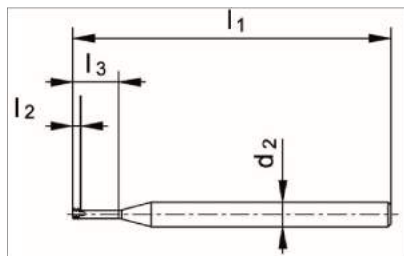
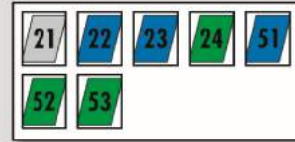
# UNF

## ANSI B1.1

GWi3066VS  
GWi3067VS  
GWi3069VS



GWi3066VX  
GWi3067VX



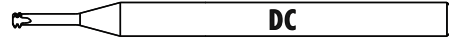
D <sub>1</sub> TPI	P	D <sub>1</sub> mm	d <sub>1</sub>	l <sub>1</sub> 2.5 - 3 x D <sub>1</sub>	l <sub>3</sub> 2.5 x D <sub>1</sub>	l <sub>3</sub> 3 x D <sub>1</sub>	l <sub>1</sub> 4 x D <sub>1</sub>	l <sub>3</sub> 4 x D <sub>1</sub>	d <sub>2</sub> h6	d <sub>3</sub>		
UNF 0	80	1.52	1.15	40	4.3	5.0	40	6.6	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





VHM  
CAR

$< 3\mu\text{m}$



h6

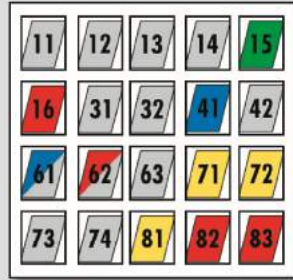
GWi3066VS		GWi3067VS		GWi3069VS		GWi3066VX		GWi3067VX	
ID									
186167						187375			
186168						187376			
186169						187377			
186170	186559					187378		187497	
186171	186560					187379		187498	
186172	186561	186639				187380		187499	
186173	186562	186640				187381		187500	
186174	186563	186641				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	

10. EROJET  
11. PCM  
12. DC SWISS  
13. Manigley  
14. NS  
15. LOUIS  
16. REGO FIX  
17. DAIYAK  
18. GRIP

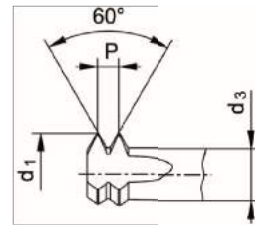
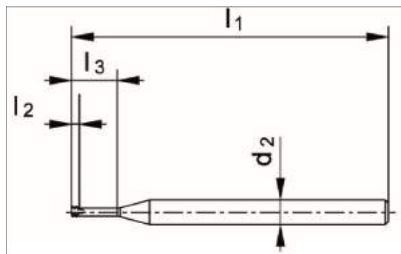
# UNF

## ANSI B1.1

GW3016VS  
GW3017VS  
GW3019VS



GW3016VX  
GW3017VX



$D_1$ TPI	P	$D_1$ mm	$d_1$	$l_1$ $2.5 - 3 \times D_1$	$l_3$ $2.5 \times D_1$	$l_3$ $3 \times D_1$	$l_1$ $4 \times D_1$	$l_3$ $4 \times D_1$	$d_2$ h5	$d_3$		
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