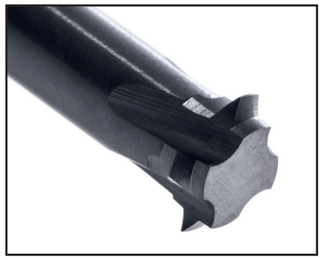
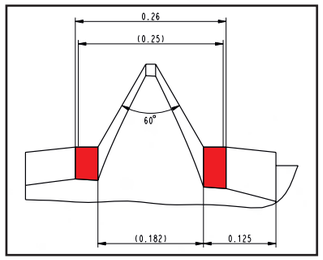


Evolution never stops

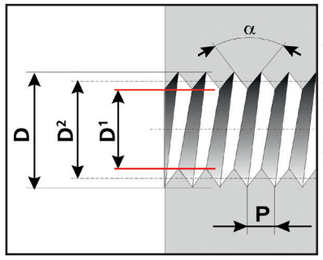
The new multi fluted solid carbide thread whirl cutter with full profile form GW4116 / GW4119 replaces the current GW4016 / GW4019 series. The new tool ensures a burr-free thread, even in demanding materials, up to 4xD_1 threading depth.



Quality meets functionality

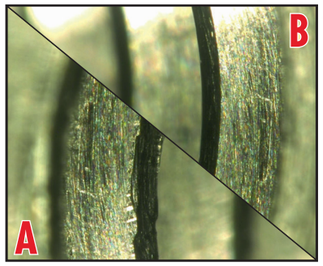
Thanks to an optimized production process, the surface quality of the new GW41-series has been essentially improved. The benefits are an increased cutting stability with an all-new profile design.

Sketch: M1 4H / Zoom 300x



Burr-Free Thread Forms

Through the specific multi-teeth profile and an additional cutting ledge at the top of the whirler, the core hole diameter D^1 will be cut as well. The result is an absolute burr free thread under respect of the required tolerance.



The small difference

Optical difference of the two threads:

A = Standard Thread Whirl Cutter
B = Full Profile Thread Whirl Cutter

Application: M6 6H, 12 mm threading depth / Zoom 150x

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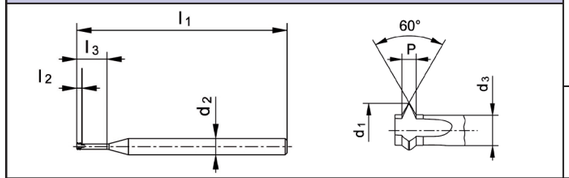
DC® THREADING TECHNOLOGY

M ISO DIN 14 ISO DIN 13

VHM CAR · < 3µm · DC · h5

GW

GW4116	R10
GW4116VS	R10 · VS
GW4119	R10
GW4119VS	R10 · VS



	GW4116	GW4116VS	GW4119	GW4119VS
				
				
				

∅ D_1 M	P mm	d_1 mm	l_1 mm	l_2 mm	l_3 mm	d_2 h5 mm	d_3 mm			ID	ID
0.8	0.20	0.51	39	0.40	2.3	3	0.23	3	0.58*	167105	167119
0.9	0.225	0.57	39	0.45	2.6	3	0.26	3	0.65*	167106	167120
1.0	0.25	0.64	39	0.50	2.9	3	0.29	3	0.70*	167107	167121
1.2	0.25	0.84	39	0.50	3.4	3	0.49	3	0.90*	167108	167122
1.4	0.30	0.97	39	0.60	4.0	3	0.55	3	1.05*	167109	167123
1.6	0.35	1.09	39	0.70	4.6	3	0.60	3	1.19*	167110	167124
1.8	0.35	1.29	39	0.70	5.1	3	0.80	3	1.39*	167111	167125
2.0	0.40	1.42	39	0.80	5.6	3	0.86	3	1.54*	167112	167126
2.5	0.45	1.85	39	0.90	7.0	3	1.22	3	1.98*	167113	167127
3.0	0.50	2.28	51	1.00	8.5	5	1.58	4	2.43*	167114	167128
3.5	0.60	2.63	51	1.20	10.0	5	1.79	4	2.80*	167115	167129
4.0	0.70	2.99	51	1.40	11.4	5	2.01	4	3.20*	167116	167130
5.0	0.80	3.84	51	1.60	14.1	5	2.72	4	4.10*	167117	167131
6.0	1.00	4.55	51	2.00	17.0	5	3.15	4	4.90*	167118	167132

∅ D_1 M	P mm	d_1 mm	l_1 mm	l_2 mm	l_3 mm	d_2 h5 mm	d_3 mm			ID	ID
0.8	0.20	0.51	39	0.40	3.5	3	0.23	3	0.58*	167147	167161
0.9	0.225	0.57	39	0.45	4.0	3	0.26	3	0.65*	167148	167162
1.0	0.25	0.64	39	0.50	4.4	3	0.29	3	0.70*	167149	167163
1.2	0.25	0.84	39	0.50	5.2	3	0.49	3	0.90*	167150	167164
1.4	0.30	0.97	39	0.60	6.1	3	0.55	3	1.05*	167151	167165
1.6	0.35	1.09	39	0.70	7.0	3	0.60	3	1.19*	167152	167166
1.8	0.35	1.29	39	0.70	7.8	3	0.80	3	1.39*	167153	167167
2.0	0.40	1.42	39	0.80	8.6	3	0.86	3	1.54*	167154	167168
2.5	0.45	1.85	39	0.90	10.7	3	1.22	3	1.98*	167155	167169
3.0	0.50	2.28	51	1.00	13.0	5	1.58	4	2.43*	167156	167170
3.5	0.60	2.63	51	1.20	15.2	5	1.79	4	2.80*	167157	167171
4.0	0.70	2.99	51	1.40	17.4	5	2.01	4	3.20*	167158	167172
5.0	0.80	3.84	51	1.60	21.6	5	2.72	4	4.10*	167159	167173
6.0	1.00	4.55	51	2.00	26.0	5	3.15	4	4.90*	167160	167174

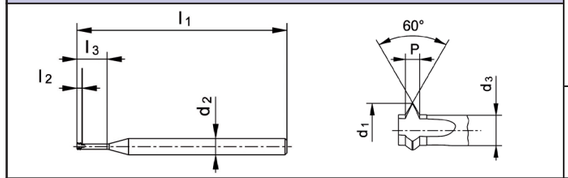
*Tol. +0.03 mm 0

UNC-UNF ANSI B1.1

VHM CAR · < 3µm · DC · h5

GW

GW4116	R10
GW4116VS	R10 · VS
GW4119	R10
GW4119VS	R10 · VS



	GW4116	GW4116VS	GW4119	GW4119VS
				
				
				

∅" D_1 UNC	P TPI	d_1 mm	l_1 mm	l_2 mm	l_3 mm	d_2 h5 mm	d_3 mm			ID	ID
2	56	1.52	39	0.91	6.2	3	0.89	3	1.65*	167486	167514
4	40	1.92	39	1.27	8.1	3	1.03	3	2.10*	167487	167515
6	32	2.35	51	1.59	10.4	5	1.24	4	2.60*	167488	167516
1/4	20	4.51	51	2.54	18.5	5	2.73	4	5.00*	167490	167518

∅" D_1 UNF	P TPI	d_1 mm	l_1 mm	l_2 mm	l_3 mm	d_2 h5 mm	d_3 mm			ID	ID
10	32	3.67	51	1.59	13.7	5	2.56	4	3.95*	167491	167519
1/4	28	4.95	51	1.81	17.7	5	3.68	4	5.35*	167492	167520

∅" D_1 UNC	P TPI	d_1 mm	l_1 mm	l_2 mm	l_3 mm	d_2 h5 mm	d_3 mm			ID	ID
2	56	1.52	39	0.90	9.5	3	0.89	3	1.65*	167493	167521
4	40	1.92	39	1.27	12.4	3	1.03	3	2.10*	167494	167522
6	32	2.35	51	1.59	15.6	5	1.24	4	2.60*	167495	167523
1/4	20	4.51	51	2.54	28.0	5	2.73	4	5.00*	167497	167525

∅" D_1 UNF	P TPI	d_1 mm	l_1 mm	l_2 mm	l_3 mm	d_2 h5 mm	d_3 mm			ID	ID
10	32	3.67	51	1.59	20.9	5	2.56	4	3.95*	167498	167526
1/4	28	4.95	51	1.81	27.3	5	3.68	4	5.35*	167499	167527

*Tol. +0.03 mm 0