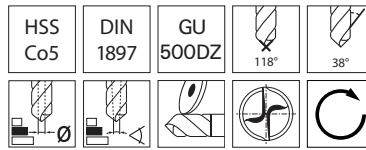


**Brocas cortas con vástago cil.**

**Características:** Con afilado preciso de punta y alta resistencia al calor.

**Aplicación:** Especialmente apropiada para usar en máquinas de control numérico, tornos, tornos revólver y taladradoras manuales.



1.1



TiN

Aplicación	ACERO			INOX			FUNDICIÓN		ALEACIONES ESPECIALES		METALES NO FÉRRICOS				ACERO TEMPLADO			Ref.
	< 700 N/mm <sup>2</sup>	< 1000 N/mm <sup>2</sup>	< 1400 N/mm <sup>2</sup>	Ferrit./ martens.	Aus-tenítico	Duplex	GG/GTS	GGG	Titanio > 850 N/mm <sup>2</sup>	Alumi-nio < 8% Si	Alumi-nio > 8% Si	Aleaciones de cobre y cinc	Grafito GFRP/CFRP/ Duropl.	< 55 HRC	< 60 HRC	> 60 HRC		
V <sub>c</sub> [m/min]	44	35	22	20	16	18	40	30	-	85	70	77	-	-	-	1063		

Ø h8 mm	Longitud de la espiral mm	Longitud total mm	ACERO < 700 N/mm <sup>2</sup>		GUHRING 1063 TiN		Ref.
			f mm/rev	U.E.	€	Ref.	
1	6	26	0.018	10	6,54	...0100	
1.1	7	28	0.063	10	6,54	...0110	
1.2	8	30	0.063	10	6,78	...0120	
1.3	8	30	0.063	10	7,07	...0130	
1.4	9	32	0.063	10	6,44	...0140	
1.5	9	32	0.063	10	6,28	...0150	
1.6	10	34	0.063	10	6,36	...0160	
1.7	10	34	0.063	10	6,44	...0170	
1.8	11	36	0.063	10	6,36	...0180	
1.9	11	36	0.063	10	6,36	...0190	
2	12	38	0.063	10	5,39	...0200	
2.1	12	38	0.08	10	6,54	...0210	
2.2	13	40	0.08	10	6,54	...0220	
2.3	13	40	0.08	10	5,51	...0230	
2.4	14	43	0.08	10	6,67	...0240	
2.5	14	43	0.08	10	5,90	...0250	
2.6	14	43	0.1	10	6,84	...0260	
2.7	16	46	0.1	10	7,21	...0270	
2.8	16	46	0.1	10	6,78	...0280	
2.9	16	46	0.1	10	7,10	...0290	
3	16	46	0.1	10	6,13	...0300	
3.1	18	49	0.1	10	6,44	...0310	
3.2	18	49	0.125	10	6,28	...0320	
3.3	18	49	0.125	10	6,28	...0330	
3.4	20	52	0.125	10	7,07	...0340	
3.5	20	52	0.125	10	6,28	...0350	
3.6	20	52	0.125	10	7,70	...0360	
3.7	20	52	0.125	10	6,97	...0370	
3.8	22	55	0.125	10	7,58	...0380	
3.9	22	55	0.125	10	8,58	...0390	
4	22	55	0.125	10	6,90	...0400	
4.1	22	55	0.125	10	8,12	...0410	
4.2	22	55	0.125	10	6,90	...0420	
4.3	24	58	0.125	10	7,94	...0430	
4.4	24	58	0.125	10	8,58	...0440	
4.5	24	58	0.125	10	7,94	...0450	
4.6	24	58	0.125	10	8,12	...0460	
4.7	24	58	0.125	10	8,58	...0470	
4.8	26	62	0.125	10	8,98	...0480	
4.9	26	62	0.125	10	9,21	...0490	
5	26	62	0.125	10	7,70	...0500	
5.1	26	62	0.16	10	8,58	...0510	
5.2	26	62	0.16	10	9,21	...0520	
5.3	26	62	0.16	10	9,42	...0530	
5.4	28	66	0.16	10	10,14	...0540	
5.5	28	66	0.16	10	8,77	...0550	
5.6	28	66	0.16	10	10,25	...0560	
5.7	28	66	0.16	10	11,22	...0570	
5.8	28	66	0.16	10	10,61	...0580	
5.9	28	66	0.16	10	11,22	...0590	

(W115)

Ø h8 mm	Longitud de la espiral mm	Longitud total mm	ACERO < 700 N/mm <sup>2</sup>		GUHRING 1063 TiN		Ref.
			f mm/rev	U.E.	€	Ref.	
6	28	66	0.16	10	9,33	...0600	
6.1	31	70	0.16	5	11,01	...0610	
6.2	31	70	0.16	5	11,01	...0620	
6.3	31	70	0.16	5	11,58	...0630	
6.4	31	70	0.2	5	11,58	...0640	
6.5	31	70	0.2	5	11,01	...0650	
6.6	31	70	0.2	5	12,10	...0660	
6.7	31	70	0.2	5	12,33	...0670	
6.8	34	74	0.2	5	13,25	...0680	
6.9	34	74	0.2	5	13,10	...0690	
7	34	74	0.2	5	12,23	...0700	
7.1	34	74	0.2	5	14,93	...0710	
7.2	34	74	0.2	5	15,25	...0720	
7.3	34	74	0.2	5	15,25	...0730	
7.4	34	74	0.2	5	15,36	...0740	
7.5	34	74	0.2	5	12,74	...0750	
7.6	37	79	0.2	5	16,33	...0760	
7.7	37	79	0.2	5	16,44	...0770	
7.8	37	79	0.2	5	16,44	...0780	
7.9	37	79	0.2	5	16,33	...0790	
8	37	79	0.2	5	15,25	...0800	
8.1	37	79	0.25	5	19,47	...0810	
8.2	37	79	0.25	5	20,21	...0820	
8.3	37	79	0.25	5	20,43	...0830	
8.4	37	79	0.25	5	20,43	...0840	
8.5	37	79	0.25	5	17,73	...0850	
8.8	40	84	0.25	5	22,22	...0880	
9	40	84	0.25	5	18,13	...0900	
9.3	40	84	0.25	5	20,43	...0930	
9.5	40	84	0.25	5	19,85	...0950	
9.8	43	89	0.25	5	23,74	...0980	
10	43	89	0.25	5	19,58	...1000	
10.2	43	89	0.25	5	24,82	...1020	
10.5	43	89	0.25	5	23,56	...1050	
11	47	95	0.25	1	26,17	...1100	
11.5	47	95	0.25	1	30,17	...1150	
12	51	102	0.25	1	29,41	...1200	
12.5	51	102	0.25	1	32,25	...1250	
13	51	102	0.315	1	32,25	...1300	
13.5	54	107	0.315	1	34,56	...1350	
14	54	107	0.315	1	42,97	...1400	

(W115)