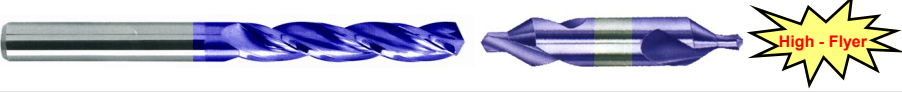
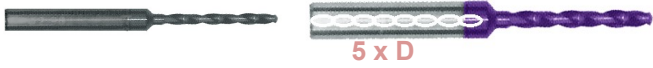
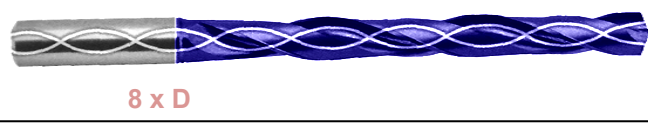
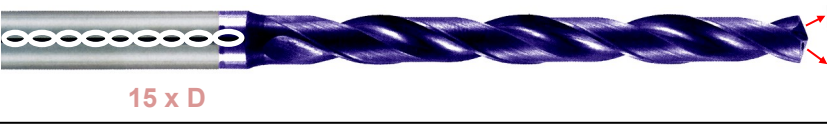
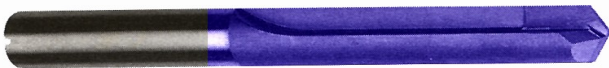


Übersicht

Twix Drill VHM Bohrer

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Bohrer schleifen leicht gemacht!

z.B. Bohrer Ø 10 nachschleifen
mit ausspitzung in **1 Minute!**

Bohrerschleifmaschinen

5/15 + 5/16

5/1

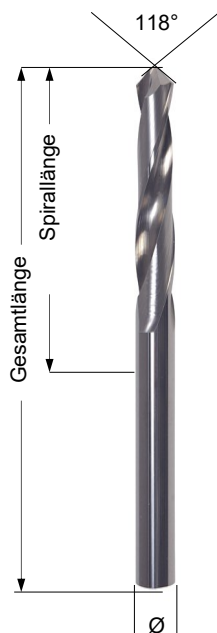
TWIX - VHM Mini-Bohrer

kurz

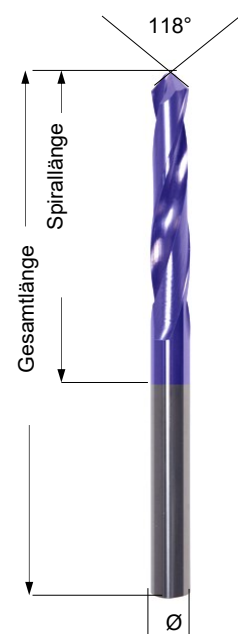
Art.-Nr. 7900

Art.-Nr. 7900 B

- Der preisgünstige TWIX – VHM Bohrer ist universell einsetzbar für sämtliche Werkstoffe.
- Vorwiegend für Stahl, Stahlguss, Hart- und Temperguss, NE-Metalle sowie Verbundstoffe geeignet.
- Höchstleistung mit **MC3** - Beschichtung.



7900



7900 B



Best.-Nr. 7900... 7900b...	Ø m7	Spiral- L	Ges.- L	7900	7900 B
				7900	7900 B
..0030	0.3	1.5	19	9.50	12.90
..0040	0.4	2.3	19	9.50	12.90
..0050	0.5	5.0	30	6.50	10.00
..0060	0.6	5.5	30	6.50	10.00
..0070	0.7	6.0	30	6.50	10.00
..0080	0.8	8.0	30	6.50	10.00
..0090	0.9	9.0	30	6.50	10.00
..0100	1.0	6.0	26	5.30	8.70
..0110	1.1	7.0	28	5.30	8.70
..0120	1.2	8.0	30	5.30	8.70
..0130	1.3	8.0	30	5.30	8.70
..0140	1.4	9.0	32	5.30	8.70
..0150	1.5	9.0	32	5.30	8.70
..0160	1.6	10.0	34	5.60	9.00
..0170	1.7	10.0	34	5.30	9.00
..0180	1.8	11.0	36	5.30	9.00
..0190	1.9	11.0	36	5.30	9.00
..0200	2.0	12.0	38	6.00	9.50
..0210	2.1	12.0	38	7.10	10.60
..0220	2.2	13.0	40	7.10	10.60
..0230	2.3	13.0	40	7.10	10.60
..0240	2.4	14.0	43	7.10	10.60
..0250	2.5	14.0	43	7.10	10.60
..0260	2.6	14.0	43	9.50	12.90
..0270	2.7	16.0	46	9.50	12.90
..0280	2.8	16.0	46	9.50	12.90
..0290	2.9	16.0	46	9.50	12.90
..0300	3.0	16.0	46	9.50	12.90
..0310	3.1	18.0	49	9.50	12.90
..0320	3.2	18.0	49	9.50	12.90
..0330	3.3	18.0	49	9.50	12.90
..0340	3.4	20.0	52	9.50	12.90
..0350	3.5	20.0	52	9.50	12.90
..0360	3.6	20.0	52	11.90	16.90
..0370	3.7	20.0	52	11.90	16.90
..0380	3.8	22.0	55	11.90	16.90
..0390	3.9	22.0	55	11.90	16.90
..0400	4.0	22.0	55	11.90	16.90
..0410	4.1	22.0	55	12.90	17.90
..0420	4.2	22.0	55	12.90	17.90
..0430	4.3	24.0	58	12.90	17.90
..0440	4.4	24.0	58	12.90	17.90
..0450	4.5	24.0	58	14.80	19.70
..0460	4.6	24.0	58	16.30	21.30
..0470	4.7	24.0	58	16.30	21.30
..0480	4.8	26.0	62	16.30	21.30
..0490	4.9	26.0	62	16.30	21.30
..0500	5.0	26.0	60	14.40	19.30
..0510	5.1	26.0	62	16.30	21.30
..0520	5.2	26.0	62	16.30	21.30
..0530	5.3	26.0	62	16.30	21.30
..0540	5.4	28.0	66	16.30	21.30
..0550	5.5	28.0	66	20.80	25.80
..0560	5.6	28.0	66	22.80	27.80

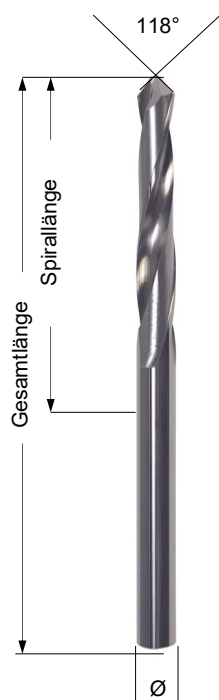
Best.-Nr. 7900... 7900b...	Ø m7	Spiral- L	Ges.- L	7900	7900 B
				7900	7900 B
..0570	5.7	28.0	66	22.80	27.80
..0580	5.8	28.0	66	22.80	27.80
..0590	5.9	28.0	66	22.80	27.80
..0600	6.0	28.0	66	21.50	26.50
..0610	6.1	31.0	70	26.80	32.80
..0620	6.2	31.0	70	26.80	32.80
..0630	6.3	31.0	70	26.60	32.80
..0640	6.4	31.0	70	26.60	32.80
..0650	6.5	31.0	70	27.80	32.80
..0660	6.6	31.0	70	30.80	35.70
..0670	6.7	31.0	70	30.80	35.70
..0680	6.8	34.0	74	30.80	35.70
..0690	6.9	34.0	74	30.80	35.70
..0700	7.0	34.0	74	30.80	35.70
..0710	7.1	34.0	74	35.70	43.70
..0720	7.2	34.0	74	35.70	43.70
..0730	7.3	34.0	74	35.70	43.70
..0740	7.4	34.0	74	35.70	43.70
..0750	7.5	34.0	74	35.70	43.70
..0760	7.6	37.0	79	38.70	46.60
..0770	7.7	37.0	79	38.70	46.60
..0780	7.8	37.0	79	38.70	46.60
..0790	7.9	37.0	79	38.70	46.60
..0800	8.0	37.0	79	38.70	46.60
..0810	8.1	37.0	79	43.70	51.70
..0820	8.2	37.0	79	43.70	51.70
..0830	8.3	37.0	79	43.70	51.70
..0840	8.4	37.0	79	43.70	51.70
..0850	8.5	37.0	79	41.60	51.70
..0860	8.6	40.0	84	46.60	54.60
..0870	8.7	40.0	84	46.60	54.60
..0880	8.8	40.0	84	46.60	54.60
..0890	8.9	40.0	84	46.60	54.60
..0900	9.0	40.0	84	46.60	54.60
..0910	9.1	40.0	84	51.60	60.50
..0920	9.2	40.0	84	51.60	60.50
..0930	9.3	40.0	84	51.60	60.50
..0940	9.4	40.0	84	51.60	60.50
..0950	9.5	40.0	84	51.90	60.50
..0960	9.6	43.0	89	54.60	63.50
..0970	9.7	43.0	89	54.60	63.50
..0980	9.8	43.0	89	54.60	63.50
..0990	9.9	43.0	89	54.60	63.50
..1000	10.0	43.0	89	54.60	63.50
..1020	10.2	43.0	89	68.50	77.40
..1050	10.5	43.0	89	68.50	77.40
..1100	11.0	47.0	95	75.40	87.40
..1150	11.5	47.0	95	78.40	90.30
..1200	12.0	51.0	102	88.30	101.20
..1250	12.5	51.0	102	92.30	100.20
..1300	13.0	51.0	102	105.20	119.10
..1350	13.5	54.0	107	107.20	121.10
..1400	14.0	54.0	107	130.90	144.90

TWIX - VHM Mini-Bohrer

lang

Art.-Nr. 7910

Art.-Nr. 7910 B



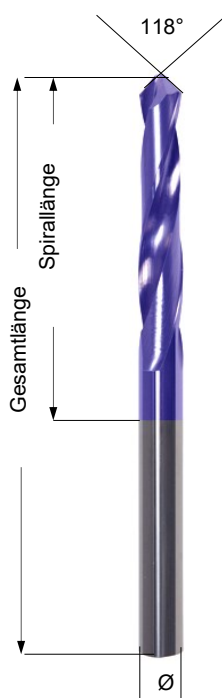
7910

- Der preisgünstige TWIX – VHM Bohrer ist universell einsetzbar für sämtliche Werkstoffe.
- Vorwiegend für Stahl, Stahlguss, Hart- und Temperguss, NE-Metalle sowie Verbundstoffe geeignet.
- Höchstleistung mit **MC3** - Beschichtung.



Best.-Nr.
7910...
7910b...

				7910	7910 B
				7910	7910 B
Best.-Nr.	Ø m7	Spiral- L	Ges.- L	7910	7910 B
..0200	2.0	24	49	13.20	17.60
..0250	2.5	30	57	14.40	18.80
..0280	2.8	33	61	14.40	18.80
..0300	3.0	33	61	14.40	18.80
..0310	3.1	36	65	15.40	19.80
..0320	3.2	36	65	15.40	19.80
..0330	3.3	36	65	15.40	19.80
..0340	3.4	39	70	15.40	19.80
..0350	3.5	39	70	15.40	19.80
..0360	3.6	39	70	18.80	23.20
..0370	3.7	39	70	18.80	23.20
..0380	3.8	43	75	18.80	23.20
..0390	3.9	43	75	19.80	24.30
..0400	4.0	43	75	17.60	24.30
..0410	4.1	43	75	21.00	27.30
..0420	4.2	43	75	19.80	26.50
..0430	4.3	47	80	24.30	30.90
..0440	4.4	47	80	24.30	30.90
..0450	4.5	47	80	24.30	30.90
..0460	4.6	47	80	26.50	33.10
..0470	4.7	47	80	26.50	33.10
..0480	4.8	52	86	26.50	33.10
..0490	4.9	52	86	26.50	33.10
..0500	5.0	52	86	25.40	32.00
..0510	5.1	52	86	32.00	38.60
..0520	5.2	52	86	32.00	38.60
..0530	5.3	52	86	32.00	38.60
..0540	5.4	57	93	32.00	37.60
..0550	5.5	57	93	32.00	37.60
..0560	5.6	57	93	36.40	43.10
..0570	5.7	57	93	36.40	43.10
..0580	5.8	57	93	36.40	43.10
..0590	5.9	57	93	36.40	43.10
..0600	6.0	57	93	36.40	43.10
..0610	6.1	63	101	45.30	51.90
..0620	6.2	63	101	45.30	51.90
..0630	6.3	63	101	45.30	51.90
..0640	6.4	63	101	45.30	51.90
..0650	6.5	63	101	45.30	51.90



7910 B

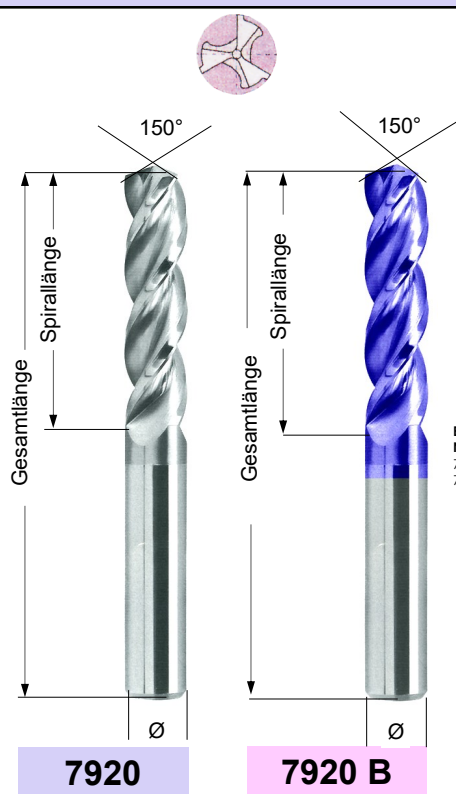
Best.-Nr.
7910...
7910b...

				7910	7910 B
				7910	7910 B
Best.-Nr.	Ø m7	Spiral- L	Ges.- L	7910	7910 B
..0660	6.6	63	101	50.70	57.30
..0670	6.7	63	101	50.70	57.30
..0680	6.8	69	109	50.70	57.30
..0690	6.9	69	109	50.70	57.30
..0700	7.0	69	109	50.70	57.30
..0710	7.1	69	109	55.10	65.10
..0720	7.2	69	109	55.10	65.10
..0730	7.3	69	109	55.10	65.10
..0740	7.4	69	109	55.10	65.10
..0750	7.5	69	109	55.10	65.10
..0760	7.6	75	117	60.70	70.60
..0770	7.7	75	117	60.70	70.60
..0780	7.8	75	117	60.70	70.60
..0790	7.9	75	117	60.70	70.60
..0800	8.0	75	117	60.70	70.60
..0810	8.1	75	117	66.20	80.50
..0820	8.2	75	117	66.20	80.50
..0830	8.3	75	117	66.20	80.50
..0840	8.4	75	117	66.20	80.50
..0850	8.5	75	117	66.20	80.50
..0860	8.6	81	125	71.70	86.00
..0870	8.7	81	125	71.70	86.00
..0880	8.8	81	125	71.70	86.00
..0890	8.9	81	125	71.70	86.00
..0900	9.0	81	125	71.70	86.00
..0910	9.1	81	125	79.40	94.80
..0920	9.2	81	125	79.40	94.80
..0930	9.3	81	125	79.40	94.80
..0940	9.4	81	125	79.40	94.80
..0950	9.5	81	125	77.20	92.60
..0960	9.6	87	133	84.90	100.40
..0970	9.7	87	133	84.90	100.40
..0980	9.8	87	133	84.90	100.40
..0990	9.9	87	133	84.90	100.40
..1000	10.0	87	133	84.90	100.40

TWIX - VHM Spiralbohrer mit 3-Schneiden

Art.-Nr. 7920

Art.-Nr. 7920 B



- Der preisgünstige TWIX – VHM Bohrer mit 3-Schneiden ist universell einsetzbar für sämtliche Werkstoffe.
- Vorwiegend für Stahl, Stahlguss, Hart- und Temperguss, NE-Metalle sowie Verbundstoffe geeignet.
- Sehr gute Eigenzentrierung.
- Höchstleistung mit **MC3** - Beschichtung.



Bestell-Nr. 7920... 7920b...	Ø m7	Spiral- L	Schaft- Ø	Ges.- L	7920	7920 B
					7920	7920 B
..0300	3.0	16	3.0	46	21.00	24.30
..0330	3.3	18	3.3	49	23.20	26.50
..0350	3.5	20	3.5	52	23.20	26.50
..0400	4.0	22	4.0	55	24.30	29.80
..0420	4.2	22	4.2	55	25.40	30.90
..0450	4.5	24	4.5	58	25.40	30.90
..0500	5.0	26	5.0	62	26.50	32.00
..0520	5.2	26	5.2	62	28.70	34.20
..0550	5.5	28	5.5	66	28.70	34.20
..0600	6.0	28	6.0	66	29.80	35.30
..0650	6.5	31	6.5	70	33.10	38.60
..0680	6.8	34	6.8	74	35.30	43.10
..0700	7.0	34	7.0	74	35.30	43.10
..0750	7.5	34	7.5	74	40.80	48.50
..0800	8.0	37	8.0	79	41.90	50.70
..0850	8.5	37	8.5	79	48.50	57.30

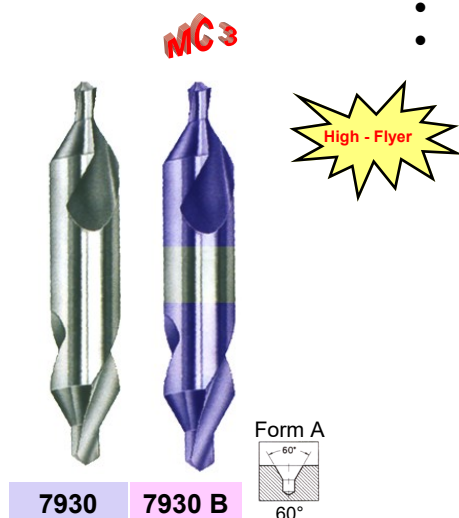
Bestell-Nr. 7920... 7920b...	Ø m7	Spiral- L	Schaft- Ø	Ges.- L	7920	7920 B
					7920	7920 B
..0880	8.8	40	8.8	84	50.70	60.70
..0900	9.0	40	9.0	84	50.70	60.70
..0950	9.5	40	9.5	84	52.90	62.90
..1000	10.0	43	10.0	89	54.10	63.90
..1020	10.2	43	10.2	89	59.50	69.50
..1050	10.5	43	10.5	89	59.50	69.50
..1200	12.0	51	12.0	102	65.10	80.50
..1250	12.5	51	12.5	102	83.80	98.20
..1300	13.0	51	13.0	102	97.00	112.50
..1350	13.5	54	13.5	107	114.70	130.10
..1400	14.0	54	14.0	107	114.70	130.10
..1450	14.5	56	14.5	111	127.90	146.70
..1500	15.0	56	15.0	111	127.90	146.70
..1750	17.5	62	17.5	123	218.30	255.80
..2000	20.0	66	20.0	131	291.10	326.30

VHM Zentrierbohrer 60°

Art.-Nr. 7930

Art.-Nr. 7930 B

MC3
beschichtet



- Zum Fertigen von Zentrierbohrungen 60° DIN 332
- Mehr Leistung durch **MC3** - Beschichtung

Bestell-Nr. 7930... 7930b...	Thermo Plast. Alu	Alu	Alu Guss > 10% Si	Stahl < 750N	Stahl < 900N	Stahl < 1400N	Stahl < 55HRC	INOX < 900N	Ti + Cu	GG (G)	Uni- versal	7930	7930 B
	Ø h ₁₀	Schneid- L		Schaft- Ø		Ges.- L		Z					
..0100	1	1.3		3		40		2				38.60	45.30
..0125	1.25	1.6		3		40		2				38.60	45.30
..0160	1.6	2.0		4		40		2				38.60	45.30
..0200	2	2.5		5		40		2				38.60	45.30
..0250	2.5	3.1		6		45		2				44.10	50.70
..0315	3.15	3.9		8		50		2				58.50	65.10
..0400	4	5.0		10		56		2				73.90	84.90
..0500	5	6.3		12		63		2				97.00	119.10
..0630	6.3	8.0		16		71		2				164.30	196.20

TWIX - VHM Mikrobohrer

0,01 mm steigend
ohne Innenkühlung

Art.-Nr. 7940 HA

Art.-Nr. 7940 BHA



Für die Bearbeitung von Titan, INOX, Stählen und harten Werkstoffen. Mit verstärktem Schaft, Ø 3 h7

Bestell-Beispiel: 7940ha Ø 0,3 = Bestell-Nr. 7940ha0030

Bestell-Beispiel: 7940bha Ø 1,0 = Bestell-Nr. 7940bha0100

Bestell-Beispiel: 7940bha Ø 1,56 = Bestell-Nr. 7940bha0156

Ø +/- 0.003	Schneid- L	Ges. -L	7940 HA	7940 B HA
0.30	1.5	38	44.00	51.00
0.31-0.39	1.5	38	50.00	58.00
0.40	2.0	38	44.00	51.00
0.41-0.44	2.0	38	50.00	58.00
0.45	3.5	38	42.00	50.00
0.46-0.49	3.5	38	48.00	56.00
0.50	4.0	38	34.00	41.00
0.51-0.54	4.0	38	48.00	56.00
0.55	4.5	38	34.00	41.00
0.56-0.59	4.5	38	48.00	56.00
0.60	5.0	38	34.00	41.00
0.61-0.64	5.0	38	48.00	56.00
0.65	5.0	38	34.00	41.00
0.66-0.69	5.0	38	48.00	56.00
0.70	5.5	38	34.00	41.00
0.71-0.74	5.5	38	48.00	56.00
0.75	5.5	38	34.00	41.00
0.76-0.79	5.5	38	48.00	56.00
0.80	5.5	38	34.00	41.00
0.81-0.84	5.5	38	48.00	56.00
0.85	5.5	38	34.00	41.00
0.86-0.89	7.0	38	48.00	56.00
0.90	7.0	38	34.00	41.00
0.91-0.94	7.0	38	48.00	56.00

Ø +/- 0.003	Schneid- L	Ges.- L	7940 HA	7940 B HA
0.95	7.0	38	34.00	41.00
0.96-0.99	8.0	38	48.00	56.00
1.00	8.0	38	34.00	41.00
1.01-1.04	8.0	38	48.00	56.00
1.05	8.0	38	34.00	41.00
1.06-1.09	8.0	38	48.00	56.00
1.10	8.0	38	34.00	41.00
1.11-1.14	8.0	38	51.00	58.00
1.15	8.0	38	34.00	41.00
1.16-1.19	8.0	38	51.00	58.00
1.20	10.0	38	34.00	41.00
1.21-1.24	10.0	38	51.00	58.00
1.25	10.0	38	34.00	41.00
1.26-1.29	10.0	38	51.00	58.00
1.30	10.0	38	34.00	41.00
1.31-1.34	10.0	38	54.00	62.00
1.35	11.0	38	46.00	54.00
1.36-1.39	11.0	38	54.00	62.00
1.40	11.0	38	34.00	41.00
1.41-1.44	11.0	38	54.00	62.00
1.45	11.0	38	48.00	56.00
1.46-1.49	11.0	38	58.00	64.00
1.50	11.0	38	34.00	41.00
1.51-1.54	12.0	38	58.00	64.00

Ø +/- 0.003	Schneid- L	Ges.- L	7940 HA	7940 B HA
1.55	12.0	38	48.00	55.00
1.56-1.59	12.0	38	58.00	64.00
1.60	12.0	38	34.00	41.00
1.61-1.64	12.0	38	59.00	66.00
1.65	12.0	38	50.00	57.00
1.66-1.69	12.0	38	60.00	66.00
1.70	12.0	38	34.00	41.00
1.71-1.74	12.0	38	60.00	66.00
1.75	12.0	38	50.00	57.00
1.76-1.79	12.0	38	60.00	66.00
1.80	12.0	38	34.00	41.00
1.81-1.84	12.0	38	61.00	68.00
1.85	12.0	38	52.00	60.00
1.86-1.89	12.0	38	61.00	68.00
1.90	12.0	38	34.00	41.00
1.91-1.94	12.0	38	61.00	68.00
1.95	12.0	38	52.00	60.00
1.96-1.99	12.0	38	61.00	68.00
2.00	12.0	38	34.00	41.00

TWIX - VHM Hochleistungsbohrer

5 x D ohne Innenkühlung

Art.-Nr. 7950 BHA

Mit verstärktem Schaft.

Mit diesen neuentwickelten Hochleistungsbohrern - TWIX - Drill
senken Sie Ihre Stückkosten um 30 %.



Bestell-Nr. 7950bha...	Ø +/- 0.003	Schneid- L	Schaft- Ø	Ges.- L	7950 B HA
..0100	1.00	11	3	55	100.40
..0110	1.10	17	3	55	100.40
..0120	1.20	17	3	55	100.40
..0130	1.30	17	3	55	100.40
..0140	1.40	17	3	55	100.40
..0150	1.50	13	3	38	26.50
..0160	1.60	13	3	38	26.50
..0170	1.70	13	3	38	26.50
..0180	1.80	13	3	38	26.50
..0190	1.90	13	3	38	26.50

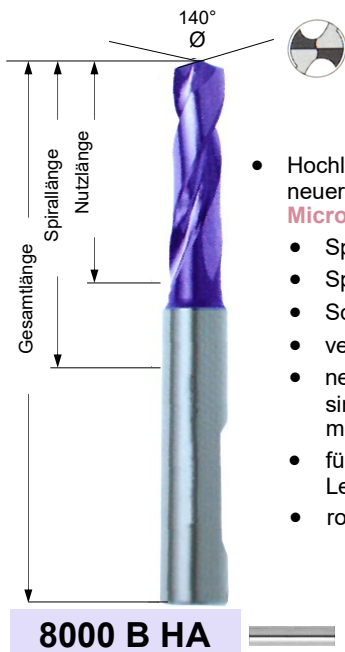
Bestell-Nr. 7950bha...	Ø +/- 0.003	Schneid- L	Schaft- Ø	Ges.- L	7950 B HA
..0200	2.00	20	3	60	35.30
..0210	2.10	20	3	60	35.30
..0220	2.20	20	3	60	35.30
..0230	2.30	20	3	60	35.30
..0240	2.40	20	3	60	35.30
..0250	2.50	26	3	60	36.40
..0260	2.60	26	3	60	36.40
..0270	2.70	26	3	60	36.40
..0280	2.80	26	3	60	36.40
..0290	2.90	26	3	60	36.40

3 x D TWIX - VHM Hochleistungsbohrer

Art.-Nr. 8000 B HA
8000 B HB
8000 B HE

ohne Innenkühlung

Bestell-Beispiel: Art.-Nr. 8000bha Ø 3,0 = Bestell-Nr. 8000bha0300



- Hochleistungsbohrer - **TWIX - Drill** – mit neuer **Feinstkorn - Hartmetallsorte Micro 2000** sowie:
 - Spezial-Spankammergeometrie
 - Spezial-Ausspitzung
 - Schneiden mit Kantenverrundung
 - verstärkter Kerndicke
 - neuer Spezial **MC3** -Beschichtung sind **doppelt** so viele **Bohrungen** möglich!
 - für legierte Stähle, Guss, Titan Legierungen
 - rostfreie Stähle

Ø m7	Nutz- L	Spiral- L	Ges- L	Schaft Ø	8000B HA
3.0	14	20	62	6.0	27.60
3.1	14	20	62	6.0	27.60
3.2	14	20	62	6.0	27.60
3.3	14	20	62	6.0	27.60
3.4	14	20	62	6.0	27.60
3.5	14	20	62	6.0	27.60
3.6	14	20	62	6.0	27.60
3.7	14	20	62	6.0	27.60
3.8	17	24	66	6.0	27.60
3.9	17	24	66	6.0	27.60
4.0	17	24	66	6.0	27.60
4.1	17	24	66	6.0	27.60
4.2	17	24	66	6.0	27.60
4.3	17	24	66	6.0	27.60
4.4	17	24	66	6.0	27.60
4.5	17	24	66	6.0	27.60
4.6	17	24	66	6.0	27.60
4.7	17	24	66	6.0	27.60
4.8	20	28	66	6.0	27.60
4.9	20	28	66	6.0	27.60
5.0	20	28	66	6.0	27.60
5.1	20	28	66	6.0	27.60
5.2	20	28	66	6.0	27.60
5.3	20	28	66	6.0	27.60
5.4	20	28	66	6.0	27.60
5.5	20	28	66	6.0	27.60
5.6	20	28	66	6.0	27.60
5.7	20	28	66	6.0	27.60
5.8	20	28	66	6.0	27.60
5.9	20	28	66	6.0	27.60
6.0	20	28	66	6.0	27.60
6.1	24	34	79	8.0	36.40
6.2	24	34	79	8.0	36.40
6.3	24	34	79	8.0	36.40
6.4	24	34	79	8.0	36.40
6.5	24	34	79	8.0	36.40
6.6	24	34	79	8.0	36.40
6.7	24	34	79	8.0	36.40
6.8	24	34	79	8.0	36.40

Ø m7	Nutz- L	Spiral- L	Ges- L	Schaft Ø	8000B HA
6.9	24	34	79	8.0	36.40
7.0	24	34	79	8.0	36.40
7.1	29	41	79	8.0	36.40
7.2	29	41	79	8.0	36.40
7.3	29	41	79	8.0	36.40
7.4	29	41	79	8.0	36.40
7.5	29	41	79	8.0	36.40
7.6	29	41	79	8.0	36.40
7.7	29	41	79	8.0	36.40
7.8	29	41	79	8.0	36.40
7.9	29	41	79	8.0	36.40
8.0	35	41	79	8.0	36.40
8.1	35	47	89	10.0	43.10
8.2	35	47	89	10.0	43.10
8.3	35	47	89	10.0	43.10
8.4	35	47	89	10.0	43.10
8.5	35	47	89	10.0	43.10
8.6	35	47	89	10.0	43.10
8.7	35	47	89	10.0	43.10
8.8	35	47	89	10.0	43.10
8.9	35	47	89	10.0	43.10
9.0	35	47	89	10.0	43.10
9.1	35	47	89	10.0	43.10
9.2	35	47	89	10.0	43.10
9.3	35	47	89	10.0	43.10
9.4	35	47	89	10.0	43.10
9.5	35	47	89	10.0	43.10
9.6	35	47	89	10.0	43.10
9.7	35	47	89	10.0	43.10
9.8	35	47	89	10.0	43.10
9.9	35	47	89	10.0	43.10
10.0	35	47	89	10.0	43.10
10.1	40	55	102	12.0	61.70
10.2	40	55	102	12.0	61.70
10.3	40	55	102	12.0	72.80
10.4	40	55	102	12.0	72.80
10.5	40	55	102	12.0	72.80
10.6	40	55	102	12.0	72.80
10.7	40	55	102	12.0	72.80

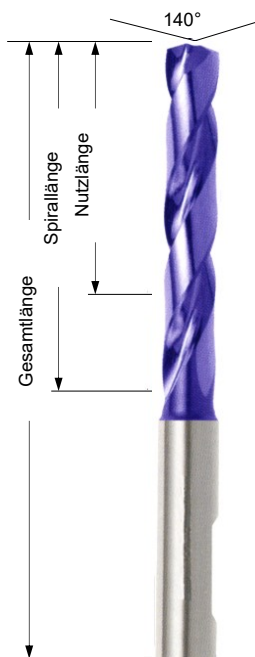
Ø m7	Nutz- L	Spiral- L	Ges- L	Schaft Ø	8000B HA
10.8	40	55	102	12.0	61.70
10.9	40	55	102	12.0	61.70
11.0	40	55	102	12.0	61.70
11.1	40	55	102	12.0	61.70
11.2	40	55	102	12.0	61.70
11.3	40	55	102	12.0	61.70
11.4	40	55	102	12.0	61.70
11.5	40	55	102	12.0	61.70
11.6	40	55	102	12.0	61.70
11.7	40	55	102	12.0	61.70
11.8	40	55	102	12.0	61.70
11.9	40	55	102	12.0	61.70
12.0	40	55	102	12.0	61.70
12.5	43	60	107	14.0	98.20
12.8	43	60	107	14.0	98.20
13.0	43	60	107	14.0	98.20
13.5	43	60	107	14.0	98.20
13.8	43	60	107	14.0	98.20
14.0	43	60	107	14.0	98.20
14.5	45	65	115	16.0	110.30
14.8	45	65	115	16.0	110.30
15.0	45	65	115	16.0	110.30
15.5	45	65	115	16.0	110.30
15.8	45	65	115	16.0	110.30
16.0	45	65	115	16.0	110.30
16.5	51	73	123	18.0	166.50
16.8	51	73	123	18.0	166.50
17.0	51	73	123	18.0	166.50
17.5	51	73	123	18.0	166.50
17.8	51	73	123	18.0	166.50
18.0	51	73	123	18.0	166.50
18.5	55	79	131	20.0	206.20
18.8	55	79	131	20.0	206.20
19.0	55	79	131	20.0	206.20
19.5	55	79	131	20.0	206.20
19.8	55	79	131	20.0	206.20
20.0	55	79	131	20.0	206.20

5 x D TWIX - VHM Hochleistungsbohrer

Art.-Nr. 8010 B HA
8010 B HB
8010 B HE

ohne Innenkühlung

Bestell-Beispiel: Art.-Nr. 8010bhe Ø 10,4 = Bestell-Nr. 8010bhe1040



- Mit diesen neuentwickelten Hochleistungsbohrern -TWIX - Drill - senken Sie Ihre **Stückkosten** um **30 %**.
- Dank neuer **Feinstkorn - Hartmetallsorte Micro 2000** sowie:
 - Spezial-Spankammergeometrie
 - Spezial-Ausspitzung
 - Schneiden mit Kantenverrundung
 - verstärkter Kerndicke
 - neuer Spezial **MC3** Beschichtung sind **doppelt** so viele **Bohrungen** möglich!

8010 B HA

Ø m7	Nutz- L	Spiral- L	Ges- L	Schaft Ø	8010B HA
3.0	23	25	60	6.0	35.30
3.1	23	27	60	6.0	35.30
3.2	23	27	60	6.0	35.30
3.3	23	27	60	6.0	35.30
3.4	25	30	65	6.0	35.30
3.5	25	30	65	6.0	35.30
3.6	23	30	65	6.0	35.30
3.7	23	30	65	6.0	35.30
3.8	27	33	71	6.0	35.30
3.9	27	33	71	6.0	35.30
4.0	27	33	71	6.0	35.30
4.1	27	33	71	6.0	35.30
4.2	27	33	71	6.0	35.30
4.3	29	36	71	6.0	35.30
4.4	29	36	71	6.0	35.30
4.5	29	36	71	6.0	35.30
4.6	29	36	71	6.0	35.30
4.7	29	36	71	6.0	35.30
4.8	31	39	71	6.0	35.30
4.9	31	39	71	6.0	35.30
5.0	31	39	71	6.0	35.30
5.1	31	39	83	6.0	35.30
5.2	31	39	83	6.0	35.30
5.3	31	39	83	6.0	35.30
5.4	35	43	83	6.0	35.30
5.5	35	43	83	6.0	35.30
5.6	35	43	83	6.0	35.30
5.7	35	43	83	6.0	35.30
5.8	35	43	83	6.0	35.30
5.9	35	43	83	6.0	35.30
6.0	35	43	83	6.0	35.30
6.1	38	47	87	8.0	46.30
6.2	38	47	87	8.0	46.30
6.3	38	47	87	8.0	46.30
6.4	38	47	87	8.0	46.30
6.5	38	47	87	8.0	46.30
6.6	38	47	87	8.0	46.30
6.7	38	47	87	8.0	46.30
6.8	38	47	87	8.0	46.30

Ø m7	Nutz- L	Spiral- L	Ges- L	Schaft Ø	8010B HA
6.9	38	47	87	8.0	46.30
7.0	38	47	87	8.0	46.30
7.1	43	52	92	8.0	46.30
7.2	43	52	92	8.0	46.30
7.3	43	52	92	8.0	46.30
7.4	43	52	92	8.0	46.30
7.5	43	52	92	8.0	46.30
7.6	43	52	92	8.0	46.30
7.7	43	52	92	8.0	46.30
7.8	43	52	92	8.0	46.30
7.9	43	52	92	8.0	46.30
8.0	43	52	92	8.0	46.30
8.1	45	56	96	10.0	57.30
8.2	45	56	96	10.0	57.30
8.3	45	56	96	10.0	57.30
8.4	45	56	96	10.0	57.30
8.5	45	56	96	10.0	57.30
8.6	45	56	96	10.0	57.30
8.7	45	56	96	10.0	57.30
8.8	45	56	96	10.0	57.30
8.9	45	56	96	10.0	57.30
9.0	45	56	96	10.0	57.30
9.1	49	62	105	10.0	57.30
9.2	49	62	105	10.0	57.30
9.3	49	62	105	10.0	57.30
9.4	49	62	105	10.0	57.30
9.5	49	62	105	10.0	57.30
9.6	49	62	105	10.0	57.30
9.7	49	62	105	10.0	57.30
9.8	49	62	105	10.0	57.30
9.9	49	62	105	10.0	57.30
10.0	49	62	105	10.0	57.30
10.1	54	68	115	12.0	80.50
10.2	54	68	115	12.0	80.50
10.3	54	68	115	12.0	80.50
10.4	54	68	115	12.0	80.50
10.5	54	68	115	12.0	80.50
10.6	54	68	115	12.0	80.50
10.7	54	68	115	12.0	80.50

Ø m7	Nutz- L	Spiral- L	Ges- L	Schaft Ø	8010B HA
10.8	54	68	115	12.0	80.50
10.9	54	68	115	12.0	80.50
11.0	54	68	115	12.0	80.50
11.1	56	71	121	12.0	80.50
11.2	56	71	121	12.0	80.50
11.3	56	71	121	12.0	80.50
11.4	56	71	121	12.0	80.50
11.5	56	71	121	12.0	80.50
11.6	56	71	121	12.0	80.50
11.7	56	71	121	12.0	80.50
11.8	56	71	121	12.0	80.50
11.9	56	71	121	12.0	80.50
12.0	56	71	121	12.0	80.50
12.5	58	75	125	14.0	105.80
12.8	58	75	125	14.0	105.80
13.0	58	75	125	14.0	105.80
13.5	63	80	134	14.0	105.80
13.8	63	80	134	14.0	105.80
14.0	63	80	134	14.0	105.80
14.5	63	83	143	16.0	130.10
14.8	63	83	143	16.0	130.10
15.0	63	83	143	16.0	130.10
15.5	70	90	152	16.0	130.10
15.8	70	90	152	16.0	130.10
16.0	70	90	152	16.0	130.10
16.5	73	95	155	18.0	231.50
17.0	73	95	155	18.0	231.50
17.5	78	100	157	18.0	231.50
18.0	78	100	157	18.0	231.50
18.5	81	105	160	20.0	287.80
19.0	81	105	160	20.0	287.80
19.5	86	110	163	20.0	287.80
20.0	86	110	163	20.0	287.80

5 x D TWIX - VHM Hochleistungsbohrer

Art.-Nr. 8210 B HA

für Aluminium

Bestell-Beispiel: Art.-Nr. 8010bhe Ø 10,4 = Bestell-Nr. 8010bhe1040



8210 B

- Neuentwickelter Hochleistungsbohrer, speziell für Aluminium, alle Nichteisenmetalle, Graphit, Kunststoffe und Verbundstoffe.

Ø m7	Nutz- L	Spiral- L	Ges- L	Schaft Ø	8210B HA
3.0	23	25	60	6.0	54.10
3.1	23	27	60	6.0	54.10
3.2	23	27	60	6.0	54.10
3.3	23	27	60	6.0	54.10
3.4	25	30	65	6.0	54.10
3.5	25	30	65	6.0	54.10
3.6	23	30	65	6.0	54.10
3.7	23	30	65	6.0	54.10
3.8	27	33	71	6.0	54.10
3.9	27	33	71	6.0	54.10
4.0	27	33	71	6.0	54.10
4.1	27	33	71	6.0	54.10
4.2	27	33	71	6.0	54.10
4.3	29	36	71	6.0	54.10
4.4	29	36	71	6.0	54.10
4.5	29	36	71	6.0	54.10
4.6	29	36	71	6.0	54.10
4.7	29	36	71	6.0	54.10
4.8	31	39	71	6.0	54.10
4.9	31	39	71	6.0	54.10
5.0	31	39	71	6.0	54.10
5.1	31	39	83	6.0	54.10
5.2	31	39	83	6.0	54.10
5.3	31	39	83	6.0	54.10
5.4	35	43	83	6.0	54.10
5.5	35	43	83	6.0	54.10
5.6	35	43	83	6.0	54.10
5.7	35	43	83	6.0	54.10
5.8	35	43	83	6.0	54.10
5.9	35	43	83	6.0	54.10
6.0	35	43	83	6.0	69.50
6.1	38	47	87	8.0	69.50
6.2	38	47	87	8.0	69.50
6.3	38	47	87	8.0	69.50
6.4	38	47	87	8.0	69.50
6.5	38	47	87	8.0	69.50
6.6	38	47	87	8.0	69.50
6.7	38	47	87	8.0	69.50
6.8	38	47	87	8.0	69.50

Ø m7	Nutz- L	Spiral- L	Ges- L	Schaft Ø	8210B HA
6.9	38	47	87	8.0	69.50
7.0	38	47	87	8.0	69.50
7.1	43	52	92	8.0	69.50
7.2	43	52	92	8.0	69.50
7.3	43	52	92	8.0	69.50
7.4	43	52	92	8.0	69.50
7.5	43	52	92	8.0	69.50
7.6	43	52	92	8.0	69.50
7.7	43	52	92	8.0	69.50
7.8	43	52	92	8.0	69.50
7.9	43	52	92	8.0	69.50
8.0	43	52	92	8.0	69.50
8.1	45	56	96	10.0	86.00
8.2	45	56	96	10.0	86.00
8.3	45	56	96	10.0	86.00
8.4	45	56	96	10.0	86.00
8.5	45	56	96	10.0	86.00
8.6	45	56	96	10.0	86.00
8.7	45	56	96	10.0	86.00
8.8	45	56	96	10.0	86.00
8.9	45	56	96	10.0	86.00
9.0	45	56	96	10.0	86.00
9.1	49	62	105	10.0	86.00
9.2	49	62	105	10.0	86.00
9.3	49	62	105	10.0	86.00
9.4	49	62	105	10.0	86.00
9.5	49	62	105	10.0	86.00
9.6	49	62	105	10.0	86.00
9.7	49	62	105	10.0	86.00
9.8	49	62	105	10.0	86.00
9.9	49	62	105	10.0	86.00
10.0	49	62	105	10.0	86.00
10.1	54	68	115	12.0	120.20
10.2	54	68	115	12.0	120.20
10.3	54	68	115	12.0	120.20
10.4	54	68	115	12.0	120.20
10.5	54	68	115	12.0	120.20
10.6	54	68	115	12.0	120.20
10.7	54	68	115	12.0	120.20

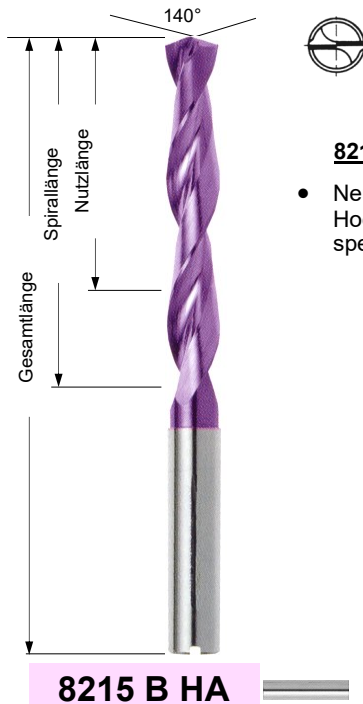
Ø m7	Nutz- L	Spiral- L	Ges- L	Schaft Ø	8210B HA
10.8	54	68	115	12.0	120.20
10.9	54	68	115	12.0	120.20
11.0	54	68	115	12.0	120.20
11.1	56	71	121	12.0	120.20
11.2	56	71	121	12.0	120.20
11.3	56	71	121	12.0	120.20
11.4	56	71	121	12.0	120.20
11.5	56	71	121	12.0	120.20
11.6	56	71	121	12.0	120.20
11.7	56	71	121	12.0	120.20
11.8	56	71	121	12.0	120.20
11.9	56	71	121	12.0	120.20
12.0	56	71	121	12.0	120.20
12.5	58	75	125	14.0	158.80
12.8	58	75	125	14.0	158.80
13.0	58	75	125	14.0	158.80
13.5	63	80	134	14.0	158.80
13.8	63	80	134	14.0	158.80
14.0	63	80	134	14.0	158.80
14.5	63	83	143	16.0	194.00
14.8	63	83	143	16.0	194.00
15.0	63	83	143	16.0	194.00
15.5	70	90	152	16.0	194.00
15.8	70	90	152	16.0	194.00
16.0	70	90	152	16.0	194.00
16.5	73	95	155	18.0	346.20
17.0	73	95	155	18.0	346.20
17.5	78	100	157	18.0	346.20
18.0	78	100	157	18.0	346.20
18.5	81	105	160	20.0	423.40
19.0	81	105	160	20.0	384.80
19.5	86	110	163	20.0	423.40
20.0	86	110	163	20.0	384.80

5 x D TWIX - VHM Hochleistungsbohrer

Art.-Nr. 8215 B HA

für INOX

Bestell-Beispiel: Art.-Nr. 8010bhe Ø 10,4 = Bestell-Nr. 8010bhe1040



8215 B

- Neuentwickelter Hochleistungsbohrer, speziell für INOX.

Ø m7	Nutz- L	Spiral- L	Ges- L	Schaft Ø	8215B HA
3.0	23	25	60	6.0	54.10
3.1	23	27	60	6.0	54.10
3.2	23	27	60	6.0	54.10
3.3	23	27	60	6.0	54.10
3.4	25	30	65	6.0	54.10
3.5	25	30	65	6.0	54.10
3.6	23	30	65	6.0	54.10
3.7	23	30	65	6.0	54.10
3.8	27	33	71	6.0	54.10
3.9	27	33	71	6.0	54.10
4.0	27	33	71	6.0	54.10
4.1	27	33	71	6.0	54.10
4.2	27	33	71	6.0	54.10
4.3	29	36	71	6.0	54.10
4.4	29	36	71	6.0	54.10
4.5	29	36	71	6.0	54.10
4.6	29	36	71	6.0	54.10
4.7	29	36	71	6.0	54.10
4.8	31	39	71	6.0	54.10
4.9	31	39	71	6.0	54.10
5.0	31	39	71	6.0	54.10
5.1	31	39	83	6.0	54.10
5.2	31	39	83	6.0	54.10
5.3	31	39	83	6.0	54.10
5.4	35	43	83	6.0	54.10
5.5	35	43	83	6.0	54.10
5.6	35	43	83	6.0	54.10
5.7	35	43	83	6.0	54.10
5.8	35	43	83	6.0	54.10
5.9	35	43	83	6.0	54.10
6.0	35	43	83	6.0	69.50
6.1	38	47	87	8.0	69.50
6.2	38	47	87	8.0	69.50
6.3	38	47	87	8.0	69.50
6.4	38	47	87	8.0	69.50
6.5	38	47	87	8.0	69.50
6.6	38	47	87	8.0	69.50
6.7	38	47	87	8.0	69.50
6.8	38	47	87	8.0	69.50

Ø m7	Nutz- L	Spiral- L	Ges- L	Schaft Ø	8215B HA
6.9	38	47	87	8.0	69.50
7.0	38	47	87	8.0	69.50
7.1	43	52	92	8.0	69.50
7.2	43	52	92	8.0	69.50
7.3	43	52	92	8.0	69.50
7.4	43	52	92	8.0	69.50
7.5	43	52	92	8.0	69.50
7.6	43	52	92	8.0	69.50
7.7	43	52	92	8.0	69.50
7.8	43	52	92	8.0	69.50
7.9	43	52	92	8.0	69.50
8.0	43	52	92	8.0	69.50
8.1	45	56	96	10.0	86.00
8.2	45	56	96	10.0	86.00
8.3	45	56	96	10.0	86.00
8.4	45	56	96	10.0	86.00
8.5	45	56	96	10.0	86.00
8.6	45	56	96	10.0	86.00
8.7	45	56	96	10.0	86.00
8.8	45	56	96	10.0	86.00
8.9	45	56	96	10.0	86.00
9.0	45	56	96	10.0	86.00
9.1	49	62	105	10.0	86.00
9.2	49	62	105	10.0	86.00
9.3	49	62	105	10.0	86.00
9.4	49	62	105	10.0	86.00
9.5	49	62	105	10.0	86.00
9.6	49	62	105	10.0	86.00
9.7	49	62	105	10.0	86.00
9.8	49	62	105	10.0	86.00
9.9	49	62	105	10.0	86.00
10.0	49	62	105	10.0	86.00
10.1	54	68	115	12.0	120.20
10.2	54	68	115	12.0	120.20
10.3	54	68	115	12.0	120.20
10.4	54	68	115	12.0	120.20
10.5	54	68	115	12.0	120.20
10.6	54	68	115	12.0	120.20
10.7	54	68	115	12.0	120.20

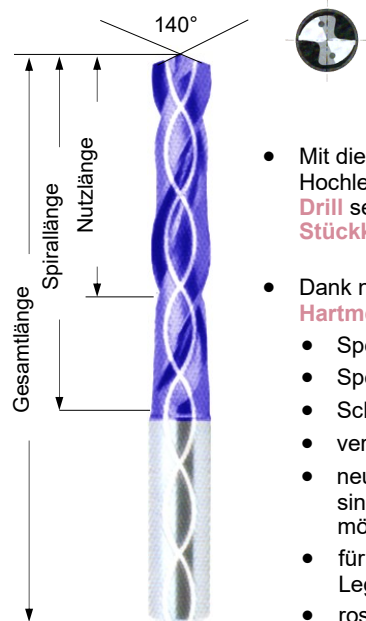
Ø m7	Nutz- L	Spiral- L	Ges- L	Schaft Ø	8215B HA
10.8	54	68	115	12.0	120.20
10.9	54	68	115	12.0	120.20
11.0	54	68	115	12.0	120.20
11.1	56	71	121	12.0	120.20
11.2	56	71	121	12.0	120.20
11.3	56	71	121	12.0	120.20
11.4	56	71	121	12.0	120.20
11.5	56	71	121	12.0	120.20
11.6	56	71	121	12.0	120.20
11.7	56	71	121	12.0	120.20
11.8	56	71	121	12.0	120.20
11.9	56	71	121	12.0	120.20
12.0	56	71	121	12.0	120.20
12.5	58	75	125	14.0	158.80
12.8	58	75	125	14.0	158.80
13.0	58	75	125	14.0	158.80
13.5	63	80	134	14.0	158.80
13.8	63	80	134	14.0	158.80
14.0	63	80	134	14.0	158.80
14.5	63	83	143	16.0	194.00
14.8	63	83	143	16.0	194.00
15.0	63	83	143	16.0	194.00
15.5	70	90	152	16.0	194.00
15.8	70	90	152	16.0	194.00
16.0	70	90	152	16.0	194.00
16.5	73	95	155	18.0	346.20
17.0	73	95	155	18.0	346.20
17.5	78	100	157	18.0	346.20
18.0	78	100	157	18.0	346.20
18.5	81	105	160	20.0	423.40
19.0	81	105	160	20.0	384.80
19.5	86	110	163	20.0	423.40
20.0	86	110	163	20.0	384.80

3 x D TWIX - VHM Hochleistungsbohrer

Art.-Nr. 8020 B HA
8020 B HB
8020 B HE

mit Innenkühlung

Bestell-Beispiel: Art.-Nr. 8020bha Ø 3,1 = Bestell-Nr. 8020bha0310



- Mit diesen neuentwickelten Hochleistungsbohrern - **TWIX - Drill** senken Sie Ihre **Stückkosten** um **30 %**.
- Dank neuer **Feinstkorn - Hartmetallsorte Micro 2000** sowie:
 - Spezial-Spankammergeometrie
 - Spezial-Ausspitzung
 - Schneiden mit Kantenverrundung
 - verstärkter Kerndicke
 - neuer Spezial **MC3** Beschichtung sind **doppelt** so viele **Bohrungen** möglich!
 - für legierte Stähle, Guss, Titan Legierungen
 - rostfreie Stähle

8020 B HA
8020 B HB
8020 B HE

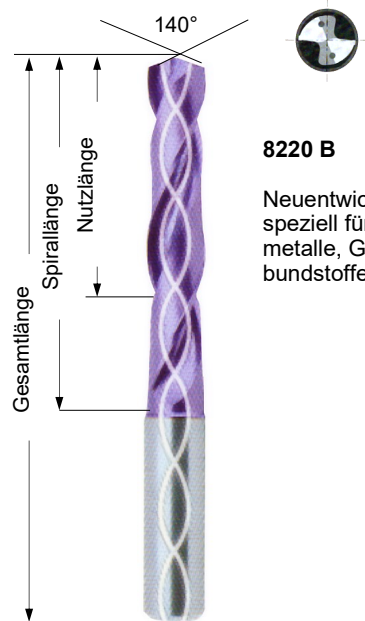
Ø	Nutz-	Spiral-	Ges-	Schaft	8020B HA	8020B HB	Ø	Nutz-	Spiral-	Ges-	Schaft	8020B HA	8020B HB	Ø	Nutz-	Spiral-	Ges-	Schaft	8020B HA	8020B HB
m7	L	L	L	Ø		8020B HE	m7	L	L	L	Ø		8020B HE	m7	L	L	L	Ø		8020B HE
3.0	23	25	60	6.0	47.50	52.50	6.9	38	47	87	8.0	63.90	73.90	10.8	54	68	115	12.0	103.60	113.60
3.1	23	27	60	6.0	47.50	52.50	7.0	38	47	87	8.0	63.90	73.90	10.9	54	68	115	12.0	103.60	113.60
3.2	23	27	60	6.0	47.50	52.50	7.1	43	52	92	8.0	63.90	73.90	11.0	54	68	115	12.0	103.60	113.60
3.3	23	27	60	6.0	47.50	52.50	7.2	43	52	92	8.0	63.90	73.90	11.1	56	71	121	12.0	103.60	113.60
3.4	25	30	65	6.0	47.50	52.50	7.3	43	52	92	8.0	63.90	73.90	11.2	56	71	121	12.0	103.60	113.60
3.5	25	30	65	6.0	47.50	52.50	7.4	43	52	92	8.0	63.90	73.90	11.3	56	71	121	12.0	103.60	113.60
3.6	23	30	65	6.0	47.50	52.50	7.5	43	52	92	8.0	63.90	73.90	11.4	56	71	121	12.0	103.60	113.60
3.7	23	30	65	6.0	47.50	52.50	7.6	43	52	92	8.0	63.90	73.90	11.5	56	71	121	12.0	103.60	113.60
3.8	27	33	71	6.0	47.50	52.50	7.7	43	52	92	8.0	63.90	73.90	11.6	56	71	121	12.0	103.60	113.60
3.9	27	33	71	6.0	47.50	52.50	7.8	43	52	92	8.0	63.90	73.90	11.7	56	71	121	12.0	103.60	113.60
4.0	27	33	71	6.0	47.50	52.50	7.9	43	52	92	8.0	63.90	73.90	11.8	56	71	121	12.0	103.60	113.60
4.1	27	33	71	6.0	47.50	52.50	8.0	43	52	92	8.0	63.90	73.90	11.9	56	71	121	12.0	103.60	113.60
4.2	27	33	71	6.0	47.50	52.50	8.1	45	56	96	10.0	73.90	83.90	12.0	56	71	121	12.0	103.60	113.60
4.3	29	36	71	6.0	47.50	52.50	8.2	45	56	96	10.0	73.90	83.90	12.5	58	75	125	14.0	138.90	148.90
4.4	29	36	71	6.0	47.50	52.50	8.3	45	56	96	10.0	73.90	83.90	12.8	58	75	125	14.0	138.90	148.90
4.5	29	36	71	6.0	47.50	52.50	8.4	45	56	96	10.0	73.90	83.90	13.0	58	75	125	14.0	138.90	148.90
4.6	29	36	71	6.0	47.50	52.50	8.5	45	56	96	10.0	73.90	83.90	13.5	63	80	134	14.0	138.90	148.90
4.7	29	36	71	6.0	47.50	52.50	8.6	45	56	96	10.0	73.90	83.90	13.8	63	80	134	14.0	138.90	148.90
4.8	31	39	71	6.0	47.50	52.50	8.7	45	56	96	10.0	73.90	83.90	14.0	63	80	134	14.0	138.90	148.90
4.9	31	39	71	6.0	47.50	52.50	8.8	45	56	96	10.0	73.90	83.90	14.5	63	83	143	16.0	183.00	193.00
5.0	31	39	71	6.0	47.50	52.50	8.9	45	56	96	10.0	73.90	83.90	14.8	63	83	143	16.0	183.00	193.00
5.1	31	39	83	6.0	47.50	52.50	9.0	45	56	96	10.0	73.90	83.90	15.0	63	83	143	16.0	183.00	193.00
5.2	31	39	83	6.0	47.50	52.50	9.1	49	62	105	10.0	73.90	83.90	15.5	70	90	152	16.0	183.00	193.00
5.3	31	39	83	6.0	47.50	52.50	9.2	49	62	105	10.0	73.90	83.90	15.8	70	90	152	16.0	183.00	193.00
5.4	35	43	83	6.0	47.50	52.50	9.3	49	62	105	10.0	73.90	83.90	16.0	70	90	152	16.0	183.00	193.00
5.5	35	43	83	6.0	47.50	52.50	9.4	49	62	105	10.0	73.90	83.90	16.5	73	95	155	18.0	235.90	245.90
5.6	35	43	83	6.0	47.50	52.50	9.5	49	62	105	10.0	73.90	83.90	17.0	73	95	155	18.0	235.90	245.90
5.7	35	43	83	6.0	47.50	52.50	9.6	49	62	105	10.0	73.90	83.90	17.5	78	100	157	18.0	235.90	245.90
5.8	35	43	83	6.0	47.50	52.50	9.7	49	62	105	10.0	73.90	83.90	18.0	78	100	157	18.0	235.90	245.90
5.9	35	43	83	6.0	47.50	52.50	9.8	49	62	105	10.0	73.90	83.90	18.5	81	105	160	20.0	290.00	300.00
6.0	35	43	83	6.0	47.50	52.50	9.9	49	62	105	10.0	73.90	83.90	19.0	81	105	160	20.0	290.00	300.00
6.1	38	47	87	8.0	63.90	73.90	10.0	49	62	105	10.0	73.90	83.90	19.5	86	110	163	20.0	290.00	300.00
6.2	38	47	87	8.0	63.90	73.90	10.1	54	68	115	12.0	103.60	113.60	20.0	86	110	163	20.0	290.00	300.00
6.3	38	47	87	8.0	63.90	73.90	10.2	54	68	115	12.0	103.60	113.60							
6.4	38	47	87	8.0	63.90	73.90	10.3	54	68	115	12.0	103.60	113.60							
6.5	38	47	87	8.0	63.90	73.90	10.4	54	68	115	12.0	103.60	113.60							
6.6	38	47	87	8.0	63.90	73.90	10.5	54	68	115	12.0	103.60	113.60							
6.7	38	47	87	8.0	63.90	73.90	10.6	54	68	115	12.0	103.60	113.60							
6.8	38	47	87	8.0	63.90	73.90	10.7	54	68	115	12.0	103.60	113.60							

3 x D TWIX - VHM Hochleistungsbohrer

Art.-Nr. 8220 B HA
8220 B HB
8220 B HE

mit Innenkühlung

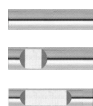
Bestell-Beispiel: Art.-Nr. 8020bha Ø 3,1 = Bestell-Nr. 8020bha0310



8220 B

Neuentwickelter Hochleistungsbohrer, speziell für Aluminium, alle Nichteisenmetalle, Graphit, Kunststoffe und Verbundstoffe.

8220 B HA
8220 B HB
8220 B HE



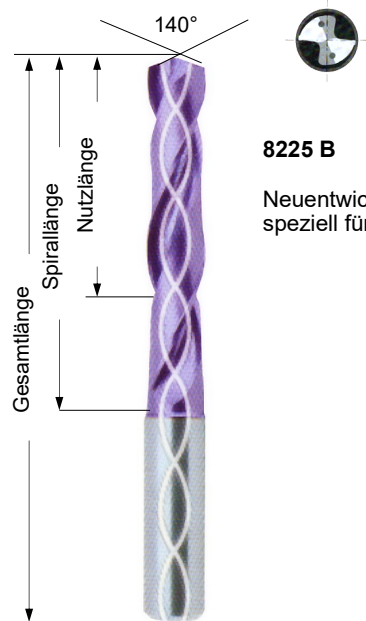
Ø m7	Nutz- L	Spiral- L	Ges- L	Schaft Ø	8220B HA	8220B HB 8220B HE	Ø m7	Nutz- L	Spiral- L	Ges- L	Schaft Ø	8220B HA	8220B HB 8220B HE	Ø m7	Nutz- L	Spiral- L	Ges- L	Schaft Ø	8220B HA	8220B HB 8220B HE
3.0	23	25	60	6.0	47.50	52.50	6.9	38	47	87	8.0	63.90	73.90	10.8	54	68	115	12.0	103.60	113.60
3.1	23	27	60	6.0	47.50	52.50	7.0	38	47	87	8.0	63.90	73.90	10.9	54	68	115	12.0	103.60	113.60
3.2	23	27	60	6.0	47.50	52.50	7.1	43	52	92	8.0	63.90	73.90	11.0	54	68	115	12.0	103.60	113.60
3.3	23	27	60	6.0	47.50	52.50	7.2	43	52	92	8.0	63.90	73.90	11.1	56	71	121	12.0	103.60	113.60
3.4	25	30	65	6.0	47.50	52.50	7.3	43	52	92	8.0	63.90	73.90	11.2	56	71	121	12.0	103.60	113.60
3.5	25	30	65	6.0	47.50	52.50	7.4	43	52	92	8.0	63.90	73.90	11.3	56	71	121	12.0	103.60	113.60
3.6	23	30	65	6.0	47.50	52.50	7.5	43	52	92	8.0	63.90	73.90	11.4	56	71	121	12.0	103.60	113.60
3.7	23	30	65	6.0	47.50	52.50	7.6	43	52	92	8.0	63.90	73.90	11.5	56	71	121	12.0	103.60	113.60
3.8	27	33	71	6.0	47.50	52.50	7.7	43	52	92	8.0	63.90	73.90	11.6	56	71	121	12.0	103.60	113.60
3.9	27	33	71	6.0	47.50	52.50	7.8	43	52	92	8.0	63.90	73.90	11.7	56	71	121	12.0	103.60	113.60
4.0	27	33	71	6.0	47.50	52.50	7.9	43	52	92	8.0	63.90	73.90	11.8	56	71	121	12.0	103.60	113.60
4.1	27	33	71	6.0	47.50	52.50	8.0	43	52	92	8.0	63.90	73.90	11.9	56	71	121	12.0	103.60	113.60
4.2	27	33	71	6.0	47.50	52.50	8.1	45	56	96	10.0	73.90	83.90	12.0	56	71	121	12.0	103.60	113.60
4.3	29	36	71	6.0	47.50	52.50	8.2	45	56	96	10.0	73.90	83.90	12.5	58	75	125	14.0	138.90	148.90
4.4	29	36	71	6.0	47.50	52.50	8.3	45	56	96	10.0	73.90	83.90	12.8	58	75	125	14.0	138.90	148.90
4.5	29	36	71	6.0	47.50	52.50	8.4	45	56	96	10.0	73.90	83.90	13.0	58	75	125	14.0	138.90	148.90
4.6	29	36	71	6.0	47.50	52.50	8.5	45	56	96	10.0	73.90	83.90	13.5	63	80	134	14.0	138.90	148.90
4.7	29	36	71	6.0	47.50	52.50	8.6	45	56	96	10.0	73.90	83.90	13.8	63	80	134	14.0	138.90	148.90
4.8	31	39	71	6.0	47.50	52.50	8.7	45	56	96	10.0	73.90	83.90	14.0	63	80	134	14.0	138.90	148.90
4.9	31	39	71	6.0	47.50	52.50	8.8	45	56	96	10.0	73.90	83.90	14.5	63	83	143	16.0	183.00	193.00
5.0	31	39	71	6.0	47.50	52.50	8.9	45	56	96	10.0	73.90	83.90	14.8	63	83	143	16.0	183.00	193.00
5.1	31	39	83	6.0	47.50	52.50	9.0	45	56	96	10.0	73.90	83.90	15.0	63	83	143	16.0	183.00	193.00
5.2	31	39	83	6.0	47.50	52.50	9.1	49	62	105	10.0	73.90	83.90	15.5	70	90	152	16.0	183.00	193.00
5.3	31	39	83	6.0	47.50	52.50	9.2	49	62	105	10.0	73.90	83.90	15.8	70	90	152	16.0	183.00	193.00
5.4	35	43	83	6.0	47.50	52.50	9.3	49	62	105	10.0	73.90	83.90	16.0	70	90	152	16.0	183.00	193.00
5.5	35	43	83	6.0	47.50	52.50	9.4	49	62	105	10.0	73.90	83.90	16.5	73	95	155	18.0	235.90	245.90
5.6	35	43	83	6.0	47.50	52.50	9.5	49	62	105	10.0	73.90	83.90	17.0	73	95	155	18.0	235.90	245.90
5.7	35	43	83	6.0	47.50	52.50	9.6	49	62	105	10.0	73.90	83.90	17.5	78	100	157	18.0	235.90	245.90
5.8	35	43	83	6.0	47.50	52.50	9.7	49	62	105	10.0	73.90	83.90	18.0	78	100	157	18.0	235.90	245.90
5.9	35	43	83	6.0	47.50	52.50	9.8	49	62	105	10.0	73.90	83.90	18.5	81	105	160	20.0	290.00	300.00
6.0	35	43	83	6.0	47.50	52.50	9.9	49	62	105	10.0	73.90	83.90	19.0	81	105	160	20.0	290.00	300.00
6.1	38	47	87	8.0	63.90	73.90	10.0	49	62	105	10.0	73.90	83.90	19.5	86	110	163	20.0	290.00	300.00
6.2	38	47	87	8.0	63.90	73.90	10.1	54	68	115	12.0	103.60	113.60	20.0	86	110	163	20.0	290.00	300.00
6.3	38	47	87	8.0	63.90	73.90	10.2	54	68	115	12.0	103.60	113.60							
6.4	38	47	87	8.0	63.90	73.90	10.3	54	68	115	12.0	103.60	113.60							
6.5	38	47	87	8.0	63.90	73.90	10.4	54	68	115	12.0	103.60	113.60							
6.6	38	47	87	8.0	63.90	73.90	10.5	54	68	115	12.0	103.60	113.60							
6.7	38	47	87	8.0	63.90	73.90	10.6	54	68	115	12.0	103.60	113.60							
6.8	38	47	87	8.0	63.90	73.90	10.7	54	68	115	12.0	103.60	113.60							

3 x D TWIX - VHM Hochleistungsbohrer

Art.-Nr. 8225 B HA
8225 B HB
8225 B HE

mit Innenkühlung

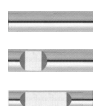
Bestell-Beispiel: Art.-Nr. 8020bha Ø 3,1 = Bestell-Nr. 8020bha0310



8225 B

Neuentwickelter Hochleistungsbohrer,
speziell für **INOX**.

8225 B HA
8225 B HB
8225 B HE



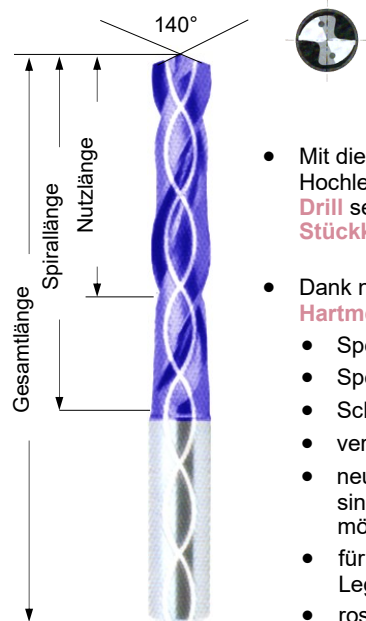
Ø m7	Nutz- L	Spiral- L	Ges- L	Schaft Ø	8220B HA	8220B HB 8220B HE	Ø m7	Nutz- L	Spiral- L	Ges- L	Schaft Ø	8220B HA	8220B HB 8220B HE	Ø m7	Nutz- L	Spiral- L	Ges- L	Schaft Ø	8220B HA	8220B HB 8220B HE
3.0	23	25	60	6.0	47.50	52.50	6.9	38	47	87	8.0	63.90	73.90	10.8	54	68	115	12.0	103.60	113.60
3.1	23	27	60	6.0	47.50	52.50	7.0	38	47	87	8.0	63.90	73.90	10.9	54	68	115	12.0	103.60	113.60
3.2	23	27	60	6.0	47.50	52.50	7.1	43	52	92	8.0	63.90	73.90	11.0	54	68	115	12.0	103.60	113.60
3.3	23	27	60	6.0	47.50	52.50	7.2	43	52	92	8.0	63.90	73.90	11.1	56	71	121	12.0	103.60	113.60
3.4	25	30	65	6.0	47.50	52.50	7.3	43	52	92	8.0	63.90	73.90	11.2	56	71	121	12.0	103.60	113.60
3.5	25	30	65	6.0	47.50	52.50	7.4	43	52	92	8.0	63.90	73.90	11.3	56	71	121	12.0	103.60	113.60
3.6	23	30	65	6.0	47.50	52.50	7.5	43	52	92	8.0	63.90	73.90	11.4	56	71	121	12.0	103.60	113.60
3.7	23	30	65	6.0	47.50	52.50	7.6	43	52	92	8.0	63.90	73.90	11.5	56	71	121	12.0	103.60	113.60
3.8	27	33	71	6.0	47.50	52.50	7.7	43	52	92	8.0	63.90	73.90	11.6	56	71	121	12.0	103.60	113.60
3.9	27	33	71	6.0	47.50	52.50	7.8	43	52	92	8.0	63.90	73.90	11.7	56	71	121	12.0	103.60	113.60
4.0	27	33	71	6.0	47.50	52.50	7.9	43	52	92	8.0	63.90	73.90	11.8	56	71	121	12.0	103.60	113.60
4.1	27	33	71	6.0	47.50	52.50	8.0	43	52	92	8.0	63.90	73.90	11.9	56	71	121	12.0	103.60	113.60
4.2	27	33	71	6.0	47.50	52.50	8.1	45	56	96	10.0	73.90	83.90	12.0	56	71	121	12.0	103.60	113.60
4.3	29	36	71	6.0	47.50	52.50	8.2	45	56	96	10.0	73.90	83.90	12.5	58	75	125	14.0	138.90	148.90
4.4	29	36	71	6.0	47.50	52.50	8.3	45	56	96	10.0	73.90	83.90	12.8	58	75	125	14.0	138.90	148.90
4.5	29	36	71	6.0	47.50	52.50	8.4	45	56	96	10.0	73.90	83.90	13.0	58	75	125	14.0	138.90	148.90
4.6	29	36	71	6.0	47.50	52.50	8.5	45	56	96	10.0	73.90	83.90	13.5	63	80	134	14.0	138.90	148.90
4.7	29	36	71	6.0	47.50	52.50	8.6	45	56	96	10.0	73.90	83.90	13.8	63	80	134	14.0	138.90	148.90
4.8	31	39	71	6.0	47.50	52.50	8.7	45	56	96	10.0	73.90	83.90	14.0	63	80	134	14.0	138.90	148.90
4.9	31	39	71	6.0	47.50	52.50	8.8	45	56	96	10.0	73.90	83.90	14.5	63	83	143	16.0	183.00	193.00
5.0	31	39	71	6.0	47.50	52.50	8.9	45	56	96	10.0	73.90	83.90	14.8	63	83	143	16.0	183.00	193.00
5.1	31	39	83	6.0	47.50	52.50	9.0	45	56	96	10.0	73.90	83.90	15.0	63	83	143	16.0	183.00	193.00
5.2	31	39	83	6.0	47.50	52.50	9.1	49	62	105	10.0	73.90	83.90	15.5	70	90	152	16.0	183.00	193.00
5.3	31	39	83	6.0	47.50	52.50	9.2	49	62	105	10.0	73.90	83.90	15.8	70	90	152	16.0	183.00	193.00
5.4	35	43	83	6.0	47.50	52.50	9.3	49	62	105	10.0	73.90	83.90	16.0	70	90	152	16.0	183.00	193.00
5.5	35	43	83	6.0	47.50	52.50	9.4	49	62	105	10.0	73.90	83.90	16.5	73	95	155	18.0	235.90	245.90
5.6	35	43	83	6.0	47.50	52.50	9.5	49	62	105	10.0	73.90	83.90	17.0	73	95	155	18.0	235.90	245.90
5.7	35	43	83	6.0	47.50	52.50	9.6	49	62	105	10.0	73.90	83.90	17.5	78	100	157	18.0	235.90	245.90
5.8	35	43	83	6.0	47.50	52.50	9.7	49	62	105	10.0	73.90	83.90	18.0	78	100	157	18.0	235.90	245.90
5.9	35	43	83	6.0	47.50	52.50	9.8	49	62	105	10.0	73.90	83.90	18.5	81	105	160	20.0	290.00	300.00
6.0	35	43	83	6.0	47.50	52.50	9.9	49	62	105	10.0	73.90	83.90	19.0	81	105	160	20.0	290.00	300.00
6.1	38	47	87	8.0	63.90	73.90	10.0	49	62	105	10.0	73.90	83.90	19.5	86	110	163	20.0	290.00	300.00
6.2	38	47	87	8.0	63.90	73.90	10.1	54	68	115	12.0	103.60	113.60	20.0	86	110	163	20.0	290.00	300.00
6.3	38	47	87	8.0	63.90	73.90	10.2	54	68	115	12.0	103.60	113.60							
6.4	38	47	87	8.0	63.90	73.90	10.3	54	68	115	12.0	103.60	113.60							
6.5	38	47	87	8.0	63.90	73.90	10.4	54	68	115	12.0	103.60	113.60							
6.6	38	47	87	8.0	63.90	73.90	10.5	54	68	115	12.0	103.60	113.60							
6.7	38	47	87	8.0	63.90	73.90	10.6	54	68	115	12.0	103.60	113.60							
6.8	38	47	87	8.0	63.90	73.90	10.7	54	68	115	12.0	103.60	113.60							

3 x D TWIX - VHM Hochleistungsbohrer

Art.-Nr. 8020 B HA
8020 B HB
8020 B HE

mit Innenkühlung

Bestell-Beispiel: Art.-Nr. 8020bha Ø 3,1 = Bestell-Nr. 8020bha0310



- Mit diesen neuentwickelten Hochleistungsbohrern - **TWIX - Drill** senken Sie Ihre **Stückkosten** um **30 %**.
- Dank neuer **Feinstkorn - Hartmetallsorte Micro 2000** sowie:
 - Spezial-Spankammergeometrie
 - Spezial-Ausspitzung
 - Schneiden mit Kantenverrundung
 - verstärkter Kerndicke
 - neuer Spezial **MC3** Beschichtung sind **doppelt** so viele **Bohrungen** möglich!
 - für legierte Stähle, Guss, Titan Legierungen
 - rostfreie Stähle

8020 B HA
8020 B HB
8020 B HE

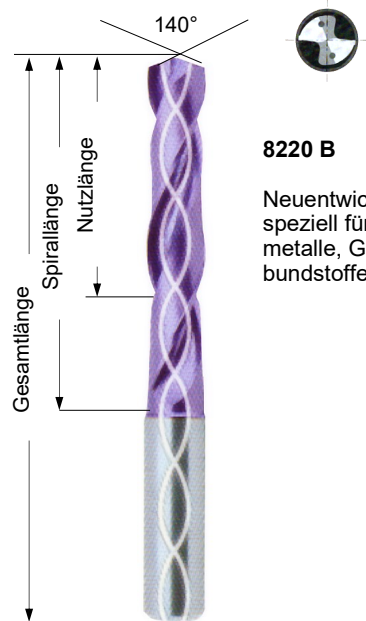
Ø	Nutz-	Spiral-	Ges-	Schaft	8020B HA	8020B HB	Ø	Nutz-	Spiral-	Ges-	Schaft	8020B HA	8020B HB	Ø	Nutz-	Spiral-	Ges-	Schaft	8020B HA	8020B HB
m7	L	L	L	Ø		8020B HE	m7	L	L	L	Ø		8020B HE	m7	L	L	L	Ø		8020B HE
3.0	23	25	60	6.0	47.50	52.50	6.9	38	47	87	8.0	63.90	73.90	10.8	54	68	115	12.0	103.60	113.60
3.1	23	27	60	6.0	47.50	52.50	7.0	38	47	87	8.0	63.90	73.90	10.9	54	68	115	12.0	103.60	113.60
3.2	23	27	60	6.0	47.50	52.50	7.1	43	52	92	8.0	63.90	73.90	11.0	54	68	115	12.0	103.60	113.60
3.3	23	27	60	6.0	47.50	52.50	7.2	43	52	92	8.0	63.90	73.90	11.1	56	71	121	12.0	103.60	113.60
3.4	25	30	65	6.0	47.50	52.50	7.3	43	52	92	8.0	63.90	73.90	11.2	56	71	121	12.0	103.60	113.60
3.5	25	30	65	6.0	47.50	52.50	7.4	43	52	92	8.0	63.90	73.90	11.3	56	71	121	12.0	103.60	113.60
3.6	23	30	65	6.0	47.50	52.50	7.5	43	52	92	8.0	63.90	73.90	11.4	56	71	121	12.0	103.60	113.60
3.7	23	30	65	6.0	47.50	52.50	7.6	43	52	92	8.0	63.90	73.90	11.5	56	71	121	12.0	103.60	113.60
3.8	27	33	71	6.0	47.50	52.50	7.7	43	52	92	8.0	63.90	73.90	11.6	56	71	121	12.0	103.60	113.60
3.9	27	33	71	6.0	47.50	52.50	7.8	43	52	92	8.0	63.90	73.90	11.7	56	71	121	12.0	103.60	113.60
4.0	27	33	71	6.0	47.50	52.50	7.9	43	52	92	8.0	63.90	73.90	11.8	56	71	121	12.0	103.60	113.60
4.1	27	33	71	6.0	47.50	52.50	8.0	43	52	92	8.0	63.90	73.90	11.9	56	71	121	12.0	103.60	113.60
4.2	27	33	71	6.0	47.50	52.50	8.1	45	56	96	10.0	73.90	83.90	12.0	56	71	121	12.0	103.60	113.60
4.3	29	36	71	6.0	47.50	52.50	8.2	45	56	96	10.0	73.90	83.90	12.5	58	75	125	14.0	138.90	148.90
4.4	29	36	71	6.0	47.50	52.50	8.3	45	56	96	10.0	73.90	83.90	12.8	58	75	125	14.0	138.90	148.90
4.5	29	36	71	6.0	47.50	52.50	8.4	45	56	96	10.0	73.90	83.90	13.0	58	75	125	14.0	138.90	148.90
4.6	29	36	71	6.0	47.50	52.50	8.5	45	56	96	10.0	73.90	83.90	13.5	63	80	134	14.0	138.90	148.90
4.7	29	36	71	6.0	47.50	52.50	8.6	45	56	96	10.0	73.90	83.90	13.8	63	80	134	14.0	138.90	148.90
4.8	31	39	71	6.0	47.50	52.50	8.7	45	56	96	10.0	73.90	83.90	14.0	63	80	134	14.0	138.90	148.90
4.9	31	39	71	6.0	47.50	52.50	8.8	45	56	96	10.0	73.90	83.90	14.5	63	83	143	16.0	183.00	193.00
5.0	31	39	71	6.0	47.50	52.50	8.9	45	56	96	10.0	73.90	83.90	14.8	63	83	143	16.0	183.00	193.00
5.1	31	39	83	6.0	47.50	52.50	9.0	45	56	96	10.0	73.90	83.90	15.0	63	83	143	16.0	183.00	193.00
5.2	31	39	83	6.0	47.50	52.50	9.1	49	62	105	10.0	73.90	83.90	15.5	70	90	152	16.0	183.00	193.00
5.3	31	39	83	6.0	47.50	52.50	9.2	49	62	105	10.0	73.90	83.90	15.8	70	90	152	16.0	183.00	193.00
5.4	35	43	83	6.0	47.50	52.50	9.3	49	62	105	10.0	73.90	83.90	16.0	70	90	152	16.0	183.00	193.00
5.5	35	43	83	6.0	47.50	52.50	9.4	49	62	105	10.0	73.90	83.90	16.5	73	95	155	18.0	235.90	245.90
5.6	35	43	83	6.0	47.50	52.50	9.5	49	62	105	10.0	73.90	83.90	17.0	73	95	155	18.0	235.90	245.90
5.7	35	43	83	6.0	47.50	52.50	9.6	49	62	105	10.0	73.90	83.90	17.5	78	100	157	18.0	235.90	245.90
5.8	35	43	83	6.0	47.50	52.50	9.7	49	62	105	10.0	73.90	83.90	18.0	78	100	157	18.0	235.90	245.90
5.9	35	43	83	6.0	47.50	52.50	9.8	49	62	105	10.0	73.90	83.90	18.5	81	105	160	20.0	290.00	300.00
6.0	35	43	83	6.0	47.50	52.50	9.9	49	62	105	10.0	73.90	83.90	19.0	81	105	160	20.0	290.00	300.00
6.1	38	47	87	8.0	63.90	73.90	10.0	49	62	105	10.0	73.90	83.90	19.5	86	110	163	20.0	290.00	300.00
6.2	38	47	87	8.0	63.90	73.90	10.1	54	68	115	12.0	103.60	113.60	20.0	86	110	163	20.0	290.00	300.00
6.3	38	47	87	8.0	63.90	73.90	10.2	54	68	115	12.0	103.60	113.60							
6.4	38	47	87	8.0	63.90	73.90	10.3	54	68	115	12.0	103.60	113.60							
6.5	38	47	87	8.0	63.90	73.90	10.4	54	68	115	12.0	103.60	113.60							
6.6	38	47	87	8.0	63.90	73.90	10.5	54	68	115	12.0	103.60	113.60							
6.7	38	47	87	8.0	63.90	73.90	10.6	54	68	115	12.0	103.60	113.60							
6.8	38	47	87	8.0	63.90	73.90	10.7	54	68	115	12.0	103.60	113.60							

3 x D TWIX - VHM Hochleistungsbohrer

Art.-Nr. 8220 B HA
8220 B HB
8220 B HE

mit Innenkühlung

Bestell-Beispiel: Art.-Nr. 8020bha Ø 3,1 = Bestell-Nr. 8020bha0310



8220 B

Neuentwickelter Hochleistungsbohrer, speziell für Aluminium, alle Nichteisenmetalle, Graphit, Kunststoffe und Verbundstoffe.

8220 B HA

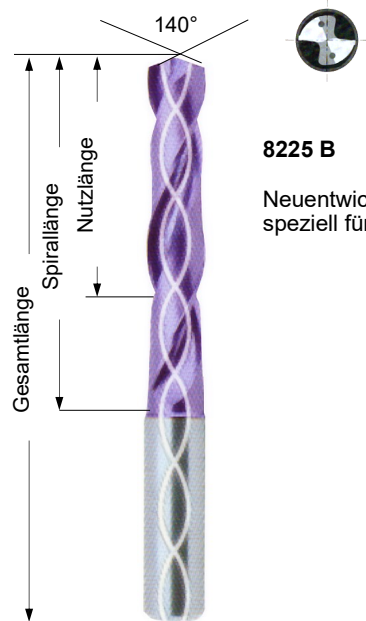
Ø m7	Nutz- L	Spiral- L	Ges- L	Schaft Ø	8220B HA 8220B HA	Ø m7	Nutz- L	Spiral- L	Ges- L	Schaft Ø	8220B HA 8220B HA	Ø m7	Nutz- L	Spiral- L	Ges- L	Schaft Ø	8220B HA 8220B HA
3.0	23	25	60	6.0	73.90	6.9	38	47	87	8.0	97.00	10.8	54	68	115	12.0	151.10
3.1	23	27	60	6.0	73.90	7.0	38	47	87	8.0	97.00	10.9	54	68	115	12.0	151.10
3.2	23	27	60	6.0	73.90	7.1	43	52	92	8.0	97.00	11.0	54	68	115	12.0	151.10
3.3	23	27	60	6.0	73.90	7.2	43	52	92	8.0	97.00	11.1	56	71	121	12.0	151.10
3.4	25	30	65	6.0	73.90	7.3	43	52	92	8.0	97.00	11.2	56	71	121	12.0	151.10
3.5	25	30	65	6.0	73.90	7.4	43	52	92	8.0	97.00	11.3	56	71	121	12.0	151.10
3.6	23	30	65	6.0	73.90	7.5	43	52	92	8.0	97.00	11.4	56	71	121	12.0	151.10
3.7	23	30	65	6.0	73.90	7.6	43	52	92	8.0	97.00	11.5	56	71	121	12.0	151.10
3.8	27	33	71	6.0	73.90	7.7	43	52	92	8.0	97.00	11.6	56	71	121	12.0	151.10
3.9	27	33	71	6.0	73.90	7.8	43	52	92	8.0	97.00	11.7	56	71	121	12.0	151.10
4.0	27	33	71	6.0	73.90	7.9	43	52	92	8.0	97.00	11.8	56	71	121	12.0	151.10
4.1	27	33	71	6.0	73.90	8.0	43	52	92	8.0	97.00	11.9	56	71	121	12.0	151.10
4.2	27	33	71	6.0	73.90	8.1	45	56	96	10.0	109.20	12.0	56	71	121	12.0	151.10
4.3	29	36	71	6.0	73.90	8.2	45	56	96	10.0	109.20	12.5	58	75	125	14.0	213.90
4.4	29	36	71	6.0	73.90	8.3	45	56	96	10.0	109.20	12.8	58	75	125	14.0	213.90
4.5	29	36	71	6.0	73.90	8.4	45	56	96	10.0	109.20	13.0	58	75	125	14.0	213.90
4.6	29	36	71	6.0	73.90	8.5	45	56	96	10.0	109.20	13.5	63	80	134	14.0	213.90
4.7	29	36	71	6.0	73.90	8.6	45	56	96	10.0	109.20	13.8	63	80	134	14.0	213.90
4.8	31	39	71	6.0	73.90	8.7	45	56	96	10.0	109.20	14.0	63	80	134	14.0	213.90
4.9	31	39	71	6.0	73.90	8.8	45	56	96	10.0	109.20	14.5	63	83	143	16.0	242.60
5.0	31	39	71	6.0	73.90	8.9	45	56	96	10.0	109.20	14.8	63	83	143	16.0	242.60
5.1	31	39	83	6.0	73.90	9.0	45	56	96	10.0	109.20	15.0	63	83	143	16.0	242.60
5.2	31	39	83	6.0	73.90	9.1	49	62	105	10.0	109.20	15.5	70	90	152	16.0	242.60
5.3	31	39	83	6.0	73.90	9.2	49	62	105	10.0	109.20	15.8	70	90	152	16.0	242.60
5.4	35	43	83	6.0	73.90	9.3	49	62	105	10.0	109.20	16.0	70	90	152	16.0	242.60
5.5	35	43	83	6.0	73.90	9.4	49	62	105	10.0	109.20	16.5	73	95	155	18.0	357.20
5.6	35	43	83	6.0	73.90	9.5	49	62	105	10.0	109.20	17.0	73	95	155	18.0	357.20
5.7	35	43	83	6.0	73.90	9.6	49	62	105	10.0	109.20	17.5	78	100	157	18.0	357.20
5.8	35	43	83	6.0	73.90	9.7	49	62	105	10.0	109.20	18.0	78	100	157	18.0	357.20
5.9	35	43	83	6.0	73.90	9.8	49	62	105	10.0	109.20	18.5	81	105	160	20.0	421.20
6.0	35	43	83	6.0	73.90	9.9	49	62	105	10.0	109.20	19.0	81	105	160	20.0	421.20
6.1	38	47	87	8.0	97.00	10.0	49	62	105	10.0	109.20	19.5	86	110	163	20.0	421.20
6.2	38	47	87	8.0	97.00	10.1	54	68	115	12.0	151.10	20.0	86	110	163	20.0	421.20
6.3	38	47	87	8.0	97.00	10.2	54	68	115	12.0	151.10						
6.4	38	47	87	8.0	97.00	10.3	54	68	115	12.0	151.10						
6.5	38	47	87	8.0	97.00	10.4	54	68	115	12.0	151.10						
6.6	38	47	87	8.0	97.00	10.5	54	68	115	12.0	151.10						
6.7	38	47	87	8.0	97.00	10.6	54	68	115	12.0	151.10						
6.8	38	47	87	8.0	97.00	10.7	54	68	115	12.0	151.10						

3 x D TWIX - VHM Hochleistungsbohrer

Art.-Nr. 8225 B HA
8225 B HB
8225 B HE

mit Innenkühlung

Bestell-Beispiel: Art.-Nr. 8020bha Ø 3,1 = Bestell-Nr. 8020bha0310



8225 B

Neuentwickelter Hochleistungsbohrer,
speziell für INOX.

8225 B HA

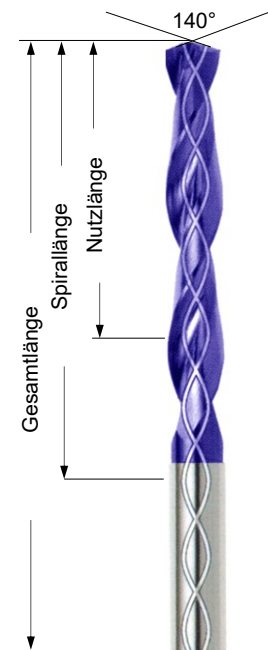
Ø m7	Nutz- L	Spiral- L	Ges- L	Schaft Ø	8225B HA 8225B HA	Ø m7	Nutz- L	Spiral- L	Ges- L	Schaft Ø	8225B HA 8225B HA	Ø m7	Nutz- L	Spiral- L	Ges- L	Schaft Ø	8225B HA 8225B HA
3.0	23	25	60	6.0	73.90	6.9	38	47	87	8.0	97.00	10.8	54	68	115	12.0	151.10
3.1	23	27	60	6.0	73.90	7.0	38	47	87	8.0	97.00	10.9	54	68	115	12.0	151.10
3.2	23	27	60	6.0	73.90	7.1	43	52	92	8.0	97.00	11.0	54	68	115	12.0	151.10
3.3	23	27	60	6.0	73.90	7.2	43	52	92	8.0	97.00	11.1	56	71	121	12.0	151.10
3.4	25	30	65	6.0	73.90	7.3	43	52	92	8.0	97.00	11.2	56	71	121	12.0	151.10
3.5	25	30	65	6.0	73.90	7.4	43	52	92	8.0	97.00	11.3	56	71	121	12.0	151.10
3.6	23	30	65	6.0	73.90	7.5	43	52	92	8.0	97.00	11.4	56	71	121	12.0	151.10
3.7	23	30	65	6.0	73.90	7.6	43	52	92	8.0	97.00	11.5	56	71	121	12.0	151.10
3.8	27	33	71	6.0	73.90	7.7	43	52	92	8.0	97.00	11.6	56	71	121	12.0	151.10
3.9	27	33	71	6.0	73.90	7.8	43	52	92	8.0	97.00	11.7	56	71	121	12.0	151.10
4.0	27	33	71	6.0	73.90	7.9	43	52	92	8.0	97.00	11.8	56	71	121	12.0	151.10
4.1	27	33	71	6.0	73.90	8.0	43	52	92	8.0	97.00	11.9	56	71	121	12.0	151.10
4.2	27	33	71	6.0	73.90	8.1	45	56	96	10.0	109.20	12.0	56	71	121	12.0	151.10
4.3	29	36	71	6.0	73.90	8.2	45	56	96	10.0	109.20	12.5	58	75	125	14.0	213.90
4.4	29	36	71	6.0	73.90	8.3	45	56	96	10.0	109.20	12.8	58	75	125	14.0	213.90
4.5	29	36	71	6.0	73.90	8.4	45	56	96	10.0	109.20	13.0	58	75	125	14.0	213.90
4.6	29	36	71	6.0	73.90	8.5	45	56	96	10.0	109.20	13.5	63	80	134	14.0	213.90
4.7	29	36	71	6.0	73.90	8.6	45	56	96	10.0	109.20	13.8	63	80	134	14.0	213.90
4.8	31	39	71	6.0	73.90	8.7	45	56	96	10.0	109.20	14.0	63	80	134	14.0	213.90
4.9	31	39	71	6.0	73.90	8.8	45	56	96	10.0	109.20	14.5	63	83	143	16.0	242.60
5.0	31	39	71	6.0	73.90	8.9	45	56	96	10.0	109.20	14.8	63	83	143	16.0	242.60
5.1	31	39	83	6.0	73.90	9.0	45	56	96	10.0	109.20	15.0	63	83	143	16.0	242.60
5.2	31	39	83	6.0	73.90	9.1	49	62	105	10.0	109.20	15.5	70	90	152	16.0	242.60
5.3	31	39	83	6.0	73.90	9.2	49	62	105	10.0	109.20	15.8	70	90	152	16.0	242.60
5.4	35	43	83	6.0	73.90	9.3	49	62	105	10.0	109.20	16.0	70	90	152	16.0	242.60
5.5	35	43	83	6.0	73.90	9.4	49	62	105	10.0	109.20	16.5	73	95	155	18.0	357.20
5.6	35	43	83	6.0	73.90	9.5	49	62	105	10.0	109.20	17.0	73	95	155	18.0	357.20
5.7	35	43	83	6.0	73.90	9.6	49	62	105	10.0	109.20	17.5	78	100	157	18.0	357.20
5.8	35	43	83	6.0	73.90	9.7	49	62	105	10.0	109.20	18.0	78	100	157	18.0	357.20
5.9	35	43	83	6.0	73.90	9.8	49	62	105	10.0	109.20	18.5	81	105	160	20.0	421.20
6.0	35	43	83	6.0	73.90	9.9	49	62	105	10.0	109.20	19.0	81	105	160	20.0	421.20
6.1	38	47	87	8.0	97.00	10.0	49	62	105	10.0	109.20	19.5	86	110	163	20.0	421.20
6.2	38	47	87	8.0	97.00	10.1	54	68	115	12.0	151.10	20.0	86	110	163	20.0	421.20
6.3	38	47	87	8.0	97.00	10.2	54	68	115	12.0	151.10						
6.4	38	47	87	8.0	97.00	10.3	54	68	115	12.0	151.10						
6.5	38	47	87	8.0	97.00	10.4	54	68	115	12.0	151.10						
6.6	38	47	87	8.0	97.00	10.5	54	68	115	12.0	151.10						
6.7	38	47	87	8.0	97.00	10.6	54	68	115	12.0	151.10						
6.8	38	47	87	8.0	97.00	10.7	54	68	115	12.0	151.10						

5 x D TWIX - VHM Hochleistungsbohrer

Art.-Nr. 8030 B HA
8030 B HB
8030 B HE

mit Innenkühlung

Bestell-Beispiel: Art.-Nr. 8230bha Ø 10,8 = Bestell-Nr. 8230bha1080



- Mit diesen neuentwickelten Hochleistungsbohrern - **TWIX - Drill** – senken Sie Ihre **Stückkosten** um **30 %**.
- Dank neuer **Feinstkorn - Hartmetallsorte Micro 2000** sowie:
 - Spezial-Spankammergeometrie
 - Spezial-Ausspitzung
 - Schneiden mit Kantenverrundung
 - verstärkter Kerndicke
 - neuer Spezial **MC3** Beschichtung sind **doppelt** so viele **Bohrungen** möglich!

8030 B HA
8030 B HB
8030 B HE



Ø m7	Nutz- L	Spiral- L	Ges- L	Schaft Ø	8030B HA	8030B HB 8030B HE	Ø m7	Nutz- L	Spiral- L	Ges- L	Schaft Ø	8030B HA	8030B HB 8030B HE	Ø m7	Nutz- L	Spiral- L	Ges- L	Schaft Ø	8030B HA	8030B HB 8030B HE
3.0	23	25	60	6.0	51.90	56.90	6.9	38	47	87	8.0	69.50	79.50	10.8	54	68	115	12.0	112.50	122.50
3.1	23	27	60	6.0	51.90	56.90	7.0	38	47	87	8.0	69.50	79.50	10.9	54	68	115	12.0	112.50	122.50
3.2	23	27	60	6.0	51.90	56.90	7.1	43	52	92	8.0	69.50	79.50	11.0	54	68	115	12.0	112.50	122.50
3.3	23	27	60	6.0	51.90	56.90	7.2	43	52	92	8.0	69.50	79.50	11.1	56	71	121	12.0	112.50	122.50
3.4	25	30	65	6.0	51.90	56.90	7.3	43	52	92	8.0	69.50	79.50	11.2	56	71	121	12.0	112.50	122.50
3.5	25	30	65	6.0	51.90	56.90	7.4	43	52	92	8.0	69.50	79.50	11.3	56	71	121	12.0	112.50	122.50
3.6	23	30	65	6.0	51.90	56.90	7.5	43	52	92	8.0	69.50	79.50	11.4	56	71	121	12.0	112.50	122.50
3.7	23	30	65	6.0	51.90	56.90	7.6	43	52	92	8.0	69.50	79.50	11.5	56	71	121	12.0	112.50	122.50
3.8	27	33	71	6.0	56.30	61.30	7.7	43	52	92	8.0	69.50	79.50	11.6	56	71	121	12.0	112.50	122.50
3.9	27	33	71	6.0	56.30	61.30	7.8	43	52	92	8.0	69.50	79.50	11.7	56	71	121	12.0	112.50	122.50
4.0	27	33	71	6.0	56.30	61.30	7.9	43	52	92	8.0	69.50	79.50	11.8	56	71	121	12.0	112.50	122.50
4.1	27	33	71	6.0	56.30	61.30	8.0	43	52	92	8.0	69.50	79.50	11.9	56	71	121	12.0	112.50	122.50
4.2	27	33	71	6.0	56.30	61.30	8.1	45	56	96	10.0	81.60	91.60	12.0	56	71	121	12.0	112.50	122.50
4.3	29	36	71	6.0	56.30	61.30	8.2	45	56	96	10.0	81.60	91.60	12.5	58	75	125	14.0	152.10	162.10
4.4	29	36	71	6.0	56.30	61.30	8.3	45	56	96	10.0	81.60	91.60	12.8	58	75	125	14.0	152.10	162.10
4.5	29	36	71	6.0	56.30	61.30	8.4	45	56	96	10.0	81.60	91.60	13.0	58	75	125	14.0	152.10	162.10
4.6	29	36	71	6.0	56.30	61.30	8.5	45	56	96	10.0	81.60	91.60	13.5	63	80	134	14.0	152.10	162.10
4.7	29	36	71	6.0	56.30	61.30	8.6	45	56	96	10.0	81.60	91.60	13.8	63	80	134	14.0	152.10	162.10
4.8	31	39	71	6.0	56.30	61.30	8.7	45	56	96	10.0	81.60	91.60	14.0	63	80	134	14.0	152.10	162.10
4.9	31	39	71	6.0	56.30	61.30	8.8	45	56	96	10.0	81.60	91.60	14.5	63	83	143	16.0	206.20	216.20
5.0	31	39	71	6.0	56.30	61.30	8.9	45	56	96	10.0	81.60	91.60	14.8	63	83	143	16.0	206.20	216.20
5.1	31	39	83	6.0	56.30	61.30	9.0	45	56	96	10.0	81.60	91.60	15.0	63	83	143	16.0	206.20	216.20
5.2	31	39	83	6.0	56.30	61.30	9.1	49	62	105	10.0	81.60	91.60	15.5	70	90	152	16.0	206.20	216.20
5.3	31	39	83	6.0	56.30	61.30	9.2	49	62	105	10.0	81.60	91.60	15.8	70	90	152	16.0	206.20	216.20
5.4	35	43	83	6.0	56.30	61.30	9.3	49	62	105	10.0	81.60	91.60	16.0	70	90	152	16.0	206.20	216.20
5.5	35	43	83	6.0	56.30	61.30	9.4	49	62	105	10.0	81.60	91.60	16.5	73	95	155	18.0	292.20	302.20
5.6	35	43	83	6.0	56.30	61.30	9.5	49	62	105	10.0	81.60	91.60	17.0	73	95	155	18.0	292.20	302.20
5.7	35	43	83	6.0	56.30	61.30	9.6	49	62	105	10.0	81.60	91.60	17.5	78	100	157	18.0	292.20	302.20
5.8	35	43	83	6.0	56.30	61.30	9.7	49	62	105	10.0	81.60	91.60	18.0	78	100	157	18.0	292.20	302.20
5.9	35	43	83	6.0	56.30	61.30	9.8	49	62	105	10.0	81.60	91.60	18.5	81	105	160	20.0	350.60	360.60
6.0	35	43	83	6.0	56.30	61.30	9.9	49	62	105	10.0	81.60	91.60	19.0	81	105	160	20.0	350.60	360.60
6.1	38	47	87	8.0	69.50	79.50	10.0	49	62	105	10.0	81.60	91.60	19.5	86	110	163	20.0	350.60	360.60
6.2	38	47	87	8.0	69.50	79.50	10.1	54	68	115	12.0	112.50	122.50	20.0	86	110	163	20.0	350.60	360.60
6.3	38	47	87	8.0	69.50	79.50	10.2	54	68	115	12.0	112.50	122.50							
6.4	38	47	87	8.0	69.50	79.50	10.3	54	68	115	12.0	112.50	122.50							
6.5	38	47	87	8.0	69.50	79.50	10.4	54	68	115	12.0	112.50	122.50							
6.6	38	47	87	8.0	69.50	79.50	10.5	54	68	115	12.0	112.50	122.50							
6.7	38	47	87	8.0	69.50	79.50	10.6	54	68	115	12.0	112.50	122.50							
6.8	38	47	87	8.0	69.50	79.50	10.7	54	68	115	12.0	112.50	122.50							

TWIX – VHM – 4 Fasen Hochleistungsbohrer

Mit Innenkühlung (8 x D)

Ø	Spiral- länge	Gesamt- länge	Schaft-Ø	Nutz- länge	8040BHA	Ø	Spiral- länge	Gesamt- länge	Schaft- Ø	Nutz- länge	8040BHA
3,0	34	72	6,0	27	99.20	8,4	95	142	10,0	68	163.20
3,1	34	72	6,0	27	99.20	8,5	95	142	10,0	68	163.20
3,2	34	72	6,0	27	99.20	8,6	95	142	10,0	68	163.20
3,3	34	72	6,0	27	99.20	8,7	95	142	10,0	68	163.20
3,4	34	72	6,0	27	99.20	8,8	95	142	10,0	68	163.20
3,5	34	72	6,0	27	99.20	8,9	95	142	10,0	68	163.20
3,6	34	72	6,0	27	99.20	9,0	95	142	10,0	68	163.20
3,7	34	72	6,0	27	99.20	9,1	95	142	10,0	76	163.20
3,8	43	81	6,0	35	99.20	9,2	95	142	10,0	76	163.20
3,9	43	81	6,0	35	99.20	9,3	95	142	10,0	76	163.20
4,0	43	81	6,0	35	99.20	9,4	95	142	10,0	76	163.20
4,1	43	81	6,0	35	99.20	9,5	95	142	10,0	76	163.20
4,2	43	81	6,0	35	99.20	9,6	95	142	10,0	76	163.20
4,3	43	81	6,0	35	99.20	9,7	95	142	10,0	76	163.20
4,4	43	81	6,0	35	99.20	9,8	95	142	10,0	76	163.20
4,5	43	81	6,0	35	99.20	9,9	95	142	10,0	76	163.20
4,6	43	81	6,0	35	99.20	10,0	95	142	10,0	76	163.20
4,7	43	81	6,0	35	99.20	10,1	114	162	12,0	90	210.60
4,8	57	95	6,0	45	99.20	10,2	114	162	12,0	90	210.60
4,9	57	95	6,0	45	99.20	10,3	114	162	12,0	90	210.60
5,0	57	95	6,0	45	99.20	10,4	114	162	12,0	90	210.60
5,1	57	95	6,0	45	99.20	10,5	114	162	12,0	90	210.60
5,2	57	95	6,0	45	99.20	10,6	114	162	12,0	90	210.60
5,3	57	95	6,0	45	99.20	10,7	114	162	12,0	90	210.60
5,4	57	95	6,0	45	99.20	10,8	114	162	12,0	90	210.60
5,5	57	95	6,0	45	99.20	10,9	114	162	12,0	90	210.60
5,6	57	95	6,0	45	99.20	11,0	114	162	12,0	90	210.60
5,7	57	95	6,0	45	99.20	11,1	114	162	12,0	90	210.60
5,8	57	95	6,0	45	99.20	11,2	114	162	12,0	90	210.60
5,9	57	95	6,0	45	99.20	11,3	114	162	12,0	90	210.60
6,0	57	95	6,0	45	99.20	11,4	114	162	12,0	90	210.60
6,1	76	114	8,0	52	125.70	11,5	114	162	12,0	90	210.60
6,2	76	114	8,0	52	125.70	11,6	114	162	12,0	90	210.60
6,3	76	114	8,0	52	125.70	11,7	114	162	12,0	90	210.60
6,4	76	114	8,0	52	125.70	11,8	114	162	12,0	90	210.60
6,5	76	114	8,0	52	125.70	11,9	114	162	12,0	90	210.60
6,6	76	114	8,0	52	125.70	12,0	114	162	12,0	90	210.60
6,7	76	114	8,0	52	125.70	12,5	133	178	14,0	106	275.60
6,8	76	114	8,0	52	125.70	12,8	133	178	14,0	106	275.60
6,9	76	114	8,0	52	125.70	13,0	133	178	14,0	106	275.60
7,0	76	114	8,0	60	125.70	13,5	133	178	14,0	106	275.60
7,1	76	114	8,0	60	125.70	14,0	133	178	14,0	106	275.60
7,2	76	114	8,0	60	125.70	14,5	152	203	16,0	122	362.80
7,3	76	114	8,0	60	125.70	15,0	152	203	16,0	122	362.80
7,4	76	114	8,0	60	125.70	15,5	152	203	16,0	122	362.80
7,5	76	114	8,0	60	125.70	16,0	152	203	16,0	122	362.80
7,6	76	114	8,0	60	125.70	16,5	171	222	18,0	150	966.90
7,7	76	114	8,0	60	125.70	17,0	171	222	18,0	150	966.90
7,8	76	114	8,0	60	125.70	17,5	171	222	18,0	150	966.90
7,9	76	114	8,0	60	125.70	18,0	190	243	20,0	170	1218.30
8,0	76	114	8,0	60	125.70	18,5	190	243	20,0	170	1218.30
8,1	95	142	8,0	68	163.20	19,0	190	243	20,0	170	1218.30
8,2	95	142	8,0	68	163.20	19,5	190	243	20,0	170	1218.30
8,3	95	142	10,0	68	163.20	20,0	190	243	20,0	170	1218.30

- Lange Ausführung.
- Dank 4 Führungsfasen optimale Fluchtungsgenauigkeit (gerade Bohrungen auch bei unterbrochenem Schnitt und tiefen Bohrungen)
- Mit diesen neuentwickelten Hochleistungsbohrern - TWIX - Drill – senken Sie Ihre Stückkosten um 30 %.
- Dank neuer Feinstkorn - Hartmetallsorte Micro 2000 sowie:
 - Spezial-Spankammergeometrie
 - Spezial-Ausspitzung
 - Schneiden mit Kantenverrundung
 - Verstärkter Kerndicke
 - Mit neuer Spezial-Beschichtung (MC3) sind doppelt so viele Bohrungen möglich!
 - Für legierte Stähle, Guss ,Titan Legierungen und rostfreie Stähle

Art.-Nr. 8040B HA



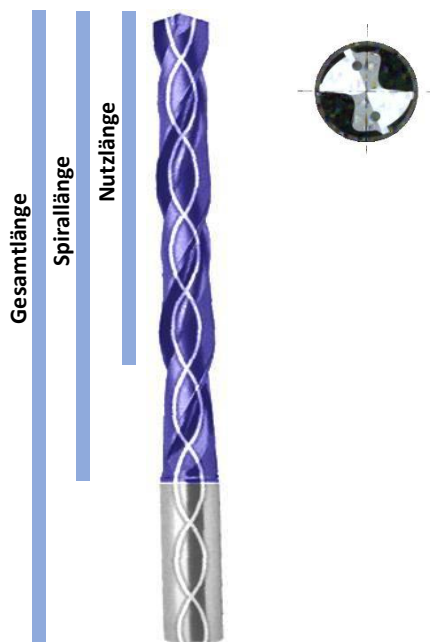
TWIX – VHM – 4 Fasen Hochleistungsbohrer

Mit Innenkühlung (12 x D)

Ø	Spiral-länge	Gesamt-länge	Schaft-Ø	Nutz-länge	8050BHA
3,0	54	92	6,0	48	164.30
3,2	54	92	6,0	48	164.30
3,3	54	92	6,0	48	164.30
3,5	54	92	6,0	48	164.30
3,7	54	92	6,0	48	164.30
3,8	64	102	6,0	58	164.30
3,9	64	102	6,0	58	164.30
4,0	64	102	6,0	58	164.30
4,2	64	102	6,0	58	164.30
4,3	64	102	6,0	58	164.30
4,5	64	102	6,0	58	164.30
4,8	78	118	6,0	70	164.30
5,0	78	118	6,0	70	164.30
5,2	78	118	6,0	70	164.30
5,3	78	118	6,0	70	164.30
5,5	78	118	6,0	70	164.30
5,8	78	118	6,0	70	164.30
5,9	78	118	6,0	70	164.30
6,0	78	118	6,0	70	176.40
6,1	108	146	8,0	94	191.80
6,2	108	146	8,0	94	191.80
6,5	108	146	8,0	94	191.80
6,6	108	146	8,0	94	191.80
6,8	108	146	8,0	94	191.80
6,9	108	146	8,0	94	191.80
7,0	108	146	8,0	94	191.80
7,5	108	146	8,0	94	191.80
7,7	108	146	8,0	94	206.20
7,8	108	146	8,0	94	206.20
8,0	108	146	8,0	94	206.20
8,1	120	162	8,0	110	218.30
8,2	120	162	8,0	110	218.30
8,5	120	162	10,0	110	218.30
8,8	120	162	10,0	110	218.30
9,0	120	162	10,0	110	218.30
9,5	120	162	10,0	110	218.30
9,8	120	162	10,0	110	218.30
10,0	120	162	10,0	110	218.30
10,2	156	204	12,0	142	299.90
10,5	156	204	12,0	142	299.90
10,8	156	204	12,0	142	299.90
11,0	156	204	12,0	142	299.90
11,2	156	204	12,0	142	299.90
11,5	156	204	12,0	142	299.90
11,8	156	204	12,0	142	299.90
12,0	156	204	12,0	142	299.90
12,5	182	230	14,0	166	435.50
12,8	182	230	14,0	166	435.50
13,0	182	230	14,0	166	435.50
13,5	182	230	14,0	166	435.50
14,0	182	230	14,0	166	435.50
14,5	208	260	16,0	192	516.00
15,0	208	260	16,0	192	516.00
15,5	208	260	16,0	192	516.00
16,0	208	260	16,0	192	516.00
18,0	234	285	18,0	216	853.30

- Extra lange Ausführung.
- Dank 4 Führungsfasen optimale Fluchtungsgenauigkeit (gerade Bohrungen auch bei unterbrochenem Schnitt und tiefen Bohrungen)
- Mit diesen neuentwickelten Hochleistungsbohrern - TWIX - Drill-senken Sie Ihre Stückkosten um 30 %.
- Dank neuer Feinstkorn - Hartmetallsorte Micro 2000 sowie:
 - Spezial-Spankammergeometrie
 - Spezial-Ausspitzung
 - Schneiden mit Kantenverrundung
 - Verstärkter Kerndicke
 - Mit neuer Spezial-Beschichtung (MC3) sind doppelt so viele Bohrungen möglich!
 - Für legierte Stähle, Guss und Titan Legierungen

Art.-Nr. 8050B HA



TWIX - VHM Tieflochspiralbohrer

15 x D mit Innenkühlung

Art.-Nr. 8060 BHA



- extra langer Hochleistungs-VHM Bohrer
- mit Innenkühlung
- hohe Rundlaufgenauigkeit und Präzisionsanschliff für den HPC-Einsatz im Stahlbereich
- dank neuer Spezial-Beschichtung **MC3** sind **doppelt** so viele **Bohrungen** möglich!

Bestell-Nr. 8060bha...	Ø +/- 0.003	Schneid- L	Schaft- Ø	Ges.- L	8060B HA	Bestell-Nr. 8060bha...	Ø +/- 0.003	Schneid- L	Schaft- Ø	Ges.- L	8060B HA
..0400	4.00	68	6.0	108	173.10	..0980	9.80	163	10.0	208	326.30
..0420	4.20	78	6.0	115	173.10	..1000	10.00	163	10.0	208	326.30
..0450	4.50	78	6.0	115	173.10	..1020	10.20	195	12.0	245	434.40
..0480	4.80	78	6.0	108	173.10	..1050	10.50	195	12.0	245	434.40
..0500	5.00	84	6.0	125	173.10	..1080	10.80	195	12.0	245	434.40
..0550	5.50	92	6.0	130	173.40	..1100	11.00	195	12.0	245	434.40
..0580	5.80	94	6.0	134	173.10	..1120	11.20	195	12.0	245	434.40
..0600	6.00	100	6.0	140	173.10	..1150	11.50	195	12.0	245	434.40
..0650	6.50	130	8.0	170	251.40	..1180	11.80	195	12.0	245	434.40
..0680	6.80	130	8.0	170	251.40	..1200	12.00	195	12.0	245	434.40
..0700	7.00	130	8.0	170	251.40	..1250	12.50	230	14.0	280	434.40
..0750	7.50	130	8.0	170	251.40	..1300	13.00	230	14.0	280	434.40
..0780	7.80	130	8.0	170	251.40	..1380	13.80	230	14.0	280	654.90
..0800	8.00	130	8.0	170	251.40	..1400	14.00	230	14.0	280	654.90
..0850	8.50	163	10.0	208	326.30	..1480	14.80	260	16.0	310	876.50
..0880	8.80	163	10.0	208	326.30	..1500	15.00	260	16.0	310	876.50

VHM-Mehrfasen Stufenbohrer

Art.-Nr. 8070 B

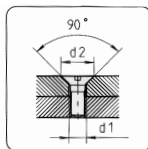
MC3
beschichtet

Art.-Nr. 8075 B

MC3
beschichtet

Art.-Nr. 8070 B

Mehrfasen-Stufenbohrer DIN 8374 90°

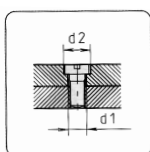


Gewindekernloch und Ansenkung 90° werden genau zueinander in einem Arbeitsgang gefertigt.
Für Gewindekernlochbohrungen.

Bestell-Nr. 8070b...	Gewinde- Ø	Bohrer-Øh8 x SenkerØh8	Bohrstufen- L	Spiral- L	Gesamt- L	Schaft- Ø	↖	Preis CHF 8070 B
..0400	M 4	3.30 x 4.50	11.4	24	62	6.00	90°	59.50
..0500	M 5	4.20 x 6.00	13.6	28	66	6.00	90°	66.20
..0600	M 6	5.00 x 7.00	16.5	34	79	8.00	90°	79.40
..0800	M 8	6.75 x 9.50	21.0	47	89	10.00	90°	112.40
..1000	M 10	8.50 x 12.00	25.5	55	102	12.00	90°	136.70
..1200	M 12	10.25 x 14.00	30.0	60	107	14.00	90°	180.80
..1400	M 14	12.00 x 16.00	34.5	65	115	16.00	90°	222.70
..1600	M 16	14.00 x 18.00	38.5	73	123	18.00	90°	264.60

Art.-Nr. 8075 B

Mehrfasen-Stufenbohrer DIN 8374 180°



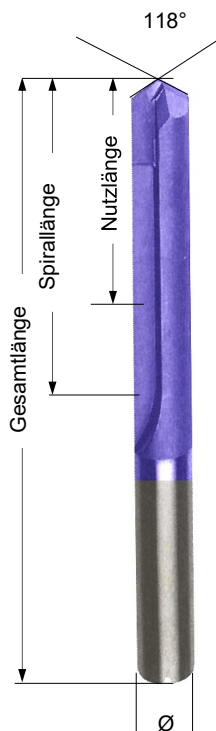
Gewindekernloch und Ansenkung 180° werden genau zueinander in einem Arbeitsgang gefertigt.
Für Gewindekernlochbohrungen.

Bestell-Nr. 8075b...	Gewinde- Ø	Bohrer-Øh8 x SenkerØh8	Bohrstufen- L	Spiral- L	Gesamt- L	Schaft- Ø	↖	Preis CHF 8075 B
..0300	M 3	3.4 x 6	9	28	66	6	180°	69.50
..0400	M 4	4.5 x 8	11	37	80	8	180°	75.00
..0500	M 5	5.5 x 10	13	43	89	10	180°	94.80
..0600	M 6	6.6 x 11	15	47	95	12	180°	154.40
..0800	M 8	9.0 x 15	19	56	110	16	180°	221.70
..1000	M 10	11.0 x 18	23	62	123	18	180°	328.50
..1200	M 12	13.5 x 20	27	66	131	20	180°	480.70

TWIX - VHM Cutter Spiralbohrer

für gehärtete Stähle 50 – 65 HRC

Art.-Nr. 8080 BHA



8080 B HA

- Spezial-Bohrer zum Bohren von gehärteten Stählen 50 – 62 HRC.
- Höchstleistung mit

Bestell-Beispiel: Art.-Nr. 8080bha Ø 11,5 = Bestell-Nr. 8080bha1150

Thermo Plast. Alu	Alu	Alu Guss > 10% Si	Stahl < 750N	Stahl < 900N	Stahl < 1400	Stahl < 55HR	INOX	Ti + Cu	GG (G)	Uni- versal
○	●	●	●	●	●	○	○	○	○	○

Ø m7	Spiral- L	Nutz- L	Schaft- Ø	Ges.- L	8080B HA	Ø m7	Spiral- L	Nutz- L	Schaft- Ø	Ges.- L	8080B HA	Ø m7	Spiral- L	Nutz- L	Schaft- Ø	Ges.- L	8080B HA
3.0	16	3	3.0	46	26.50	5.4	26	18	5.4	62	43.10	7.8	37	35	7.8	79	63.90
3.1	18	6	3.1	49	26.50	5.5	28	18	5.5	66	43.10	7.9	37	35	7.9	79	63.90
3.2	18	6	3.2	49	26.50	5.6	28	18	5.6	66	43.10	8.0	37	35	8.0	79	59.50
3.3	18	8	3.3	49	26.50	5.7	28	18	5.7	66	43.10	8.1	37	35	8.1	79	71.70
3.4	20	10	3.4	52	26.50	5.8	28	18	5.8	66	43.10	8.3	37	35	8.3	79	71.70
3.5	20	10	3.5	52	26.50	5.9	28	18	5.9	66	43.10	8.5	37	35	8.5	79	65.10
3.6	20	10	3.6	52	26.50	6.0	28	18	6.0	66	48.50	8.8	40	42	8.8	84	79.40
3.7	20	10	3.7	52	26.50	6.1	31	25	6.1	70	48.50	9.0	40	42	9.0	84	69.50
3.8	22	12	3.8	55	26.50	6.2	31	25	6.2	70	48.50	9.3	40	42	9.3	84	94.80
4.0	22	12	4.0	55	26.50	6.3	31	25	6.3	70	48.50	9.5	40	42	9.5	84	94.80
4.1	22	15	4.1	55	37.50	6.4	31	25	6.4	70	48.50	9.7	43	45	9.7	89	94.80
4.2	22	15	4.2	55	37.50	6.5	31	25	6.5	70	52.90	9.9	43	45	9.9	89	94.80
4.3	24	15	4.3	58	37.50	6.8	34	30	6.8	74	52.90	10.0	43	45	10.0	89	79.40
4.5	24	15	4.5	58	37.50	6.9	34	30	6.9	74	52.90	10.2	43	45	10.2	89	103.60
4.6	24	15	4.6	58	37.50	7.0	34	30	7.0	74	59.50	10.5	43	45	10.5	89	103.60
4.8	26	18	4.8	62	37.50	7.1	34	30	7.1	74	59.50	11.0	47	50	11.0	95	103.60
5.0	26	18	5.0	62	43.10	7.2	34	30	7.2	74	59.50	11.5	47	50	11.5	95	108.00
5.1	26	18	5.1	62	43.10	7.3	34	30	7.3	74	59.50	12.0	51	50	12.0	102	108.00
5.2	26	18	5.2	62	43.10	7.4	34	30	7.4	74	59.50						
5.3	26	18	5.3	62	43.10	7.5	34	30	7.5	74	59.50						

HARD-CUT Spiralbohrer

Art.-Nr. 8085

Art.-Nr. 8085 B

- Günstiger, bestückter HM - Bohrer für schwierige Bohrarbeiten.
Zum Bohren von Stahlguss, Bronze, Messing und allen Gussarten.



8085



8085 B

Bestell-Nr.
8085...
8085b...

Thermo Plast. Alu	Alu	Alu Guss > 10% Si	Stahl < 750N	Stahl < 900N	Stahl < 1400N	Stahl < 55HRC	INOX	Ti + Cu	GG (G)	Uni- versal	8085	8085 B
○	●	●	●	●	●	○	○	○	○	○	8085	8085 B
Ø	Spiral- länge		Gesamt- länge		8085		8085 B					
3	20		50		11.00		14.40					
3.2	25		56		11.00		14.40					
3.5	25		56		11.00		14.40					
4	25		56		11.00		14.40					
4.2	28		63		13.20		17.60					
4.5	28		63		13.20		17.60					
5	28		63		13.20		17.60					
5.5	32		71		13.20		17.60					
6	32		71		13.20		17.60					
6.5	32		71		15.40		19.80					
7	40		80		15.40		23.20					
7.5	40		80		15.40		23.20					
8	40		80		16.60		24.30					
8.5	50		90		17.60		26.50					
9	50		90		17.60		26.50					
9.5	50		90		17.60		26.50					
10	56		100		19.70		28.70					
10.5	56		100		23.20		36.40					
11	56		100		23.20		36.40					
12	63		112		27.60		40.80					
13	63		112		32.00		46.30					
14	71		125		43.10		58.80					
15	71		125		52.90		71.70					
16	80		140		61.70		80.50					