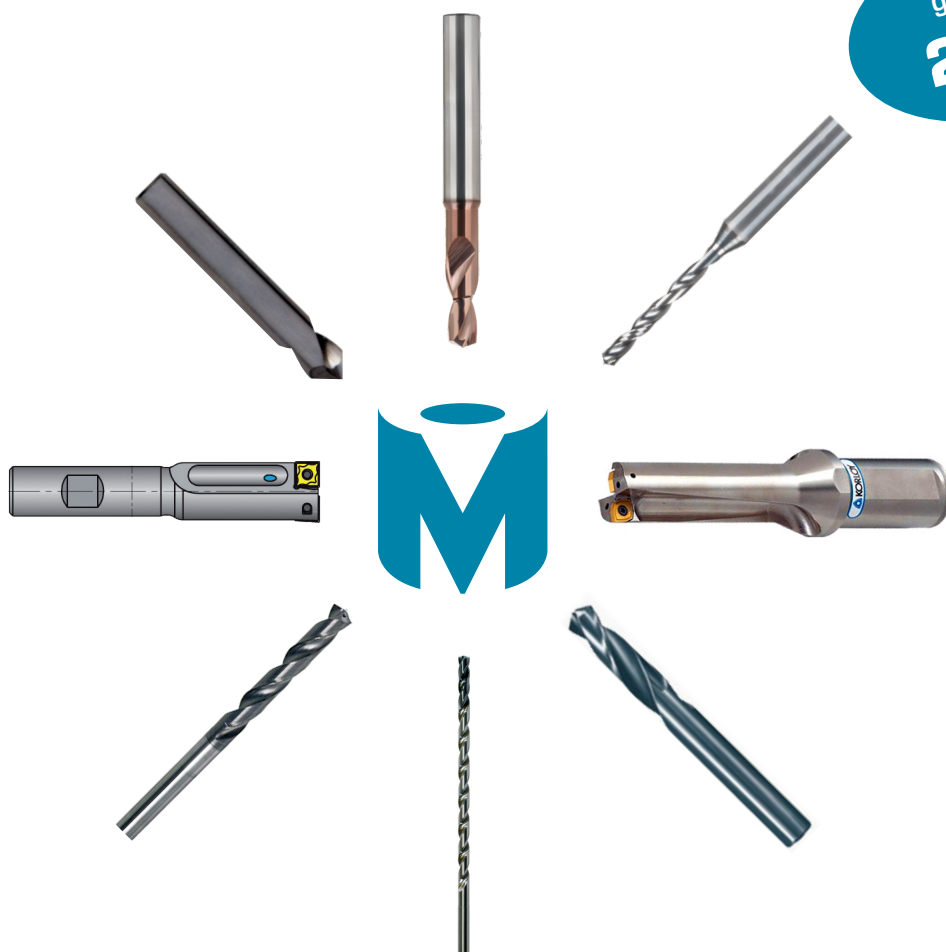


Der Spezialist für Höchstleistungs- und Präzisionsbohren

*Le spécialiste pour perçage à
hautes performance et précision*

gültig ab
2026



Ab Lager Meier Protech oder kurzfristig ab Werk lieferbar.

En stock ou départ usine dans les meilleurs délais.

 **meier**
protech

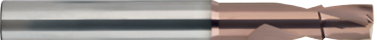
Spann- und Werkzeugtechnik
Technique d'outillage et de serrage

Top-
Qualität
zu Super-Preisen
Excellent rapport
qualité-prix

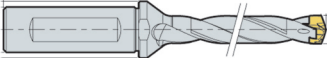
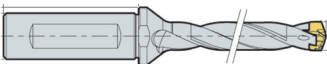
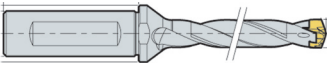
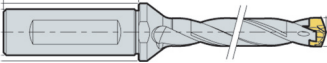
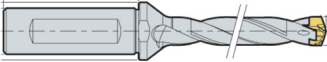
HSSE-, PM- & VHM-Bohrer

	1055			HSSE 5%Co	DIN 1897 TS			Seite 6
	1000			HSSE 5%Co	DIN 338 TS			Seite 7
	1300			HSSE 5%Co	DIN 340 TS			Seite 8
	1056		HSSE 5%Co	DIN 1897 N				Seite 9
	1016		HSSE 5%Co	DIN 338 N				Seite 11
	1036		HSSE 5%Co	DIN 340 N				Seite 13
	2311		Universal VHM	VHM Feinstkorn	$\gamma_{(f)} = 30^\circ$	$\sigma = 118^\circ$		Seite 14
	2321		Universal VHM	VHM Feinstkorn	$\gamma_{(f)} = 30^\circ$	$\sigma = 118^\circ$		Seite 15
	3011		Stahl leg. Stahl	VHM Feinstkorn	$\gamma_{(f)} = 30^\circ$	$\sigma = 140^\circ$		Seite 16
	3021		Stahl leg. Stahl	VHM Feinstkorn	$\gamma_{(f)} = 30^\circ$	$\sigma = 140^\circ$		Seite 18
	5021		Stahl leg. Stahl	VHM Feinstkorn	$\gamma_{(f)} = 30^\circ$	$\sigma = 140^\circ$		Seite 20
	3041		Stahl Inox	VHM Feinstkorn	$\gamma_{(f)} = 30^\circ$	$\sigma = 140^\circ$		Seite 22
	5041		Stahl Inox	VHM Feinstkorn	$\gamma_{(f)} = 30^\circ$	$\sigma = 140^\circ$		Seite 24

VHM-Bohrer

	8021		Stahl leg. Stahl	VHM Feinstkorn	$\gamma_{(f)} = 30^\circ$	$\sigma = 140^\circ$		Seite 26
	12021		Stahl leg. Stahl	VHM Feinstkorn	$\gamma_{(f)} = 30^\circ$	$\sigma = 140^\circ$		Seite 28
	AD.90.170		Inox Titan	VHM Feinstkorn				Seite 30
	AD.90.140		Inox Titan	VHM Feinstkorn				Seite 32
	AD.90.3xDIK		Inox Titan	VHM Feinstkorn				Seite 34
	AD.8xD.IK		Inox Titan	VHM Feinstkorn				Seite 35
	TD.6xD.IK		Inox Titan	VHM Feinstkorn				Seite 36
	TD.12xD.IK		Inox Titan	VHM Feinstkorn				Seite 37
	TD.18xD.IK		Inox Titan	VHM Feinstkorn				Seite 38
	TD.MI		Inox Titan	VHM Feinstkorn				Seite 39
	TD.IP.2D		Inox Titan	VHM Feinstkorn				Seite 40
	2850 / 2815	Universal einsetzbar	VHM Feinstkorn	$\gamma_{(f)} = 30^\circ$	$\sigma = 60^\circ$			Seite 41
	TD.I.180		Inox Titan	VHM Feinstkorn				Seite 42
	TD.I.180		Inox Titan	VHM Feinstkorn				Seite 43

VHM-Tieflochbohrer, Zentrierbohrer & WSP-Bohrer

	TPDX 3D/5D/8D				Seite 44
	XP				Seite 45
	TPDC 1.5xD/3xD				Seite 46
	TPDC 5xD / 8xD				Seite 47
	TPDC 8xD/10xD				Seite 48
	TPDC 10xD/12xD				Seite 49
	CP / CM / CN				Seite 50
	FC				Seite 54
	S 656W	XCNT XCET	Universal einsetzbar	 	Seite 55
	K2D	SPMT XOMT	Universal einsetzbar	 	Seite 56
SPMT					Seite 59
WCMT					Seite 59
XOET					Seite 60
XOMT					Seite 60

	K3D	SPMT XOMT Universal einsetzbar  	Seite 61
	K4D	SPMT XOMT Universal einsetzbar  	Seite 64
	K5D	SPMT XOMT Universal einsetzbar  	Seite 67

1055

HSSE Spiralbohrer



Ausführung:

Besonders stabiler Spezialbohrer, mit grossem Spanraum. Zum Bohren von legierten und unlegierten Stählen mit Festigkeiten bis 1300 N/mm².

Anwendungsgebiet:

Idealer Bohrer für langspanende Werkstoffe. Einsatz auf Drehautomaten und Bearbeitungszentren.



Art.-Nr.	D h8	L1	L2	Preis	Preis TiAlN	Art.-Nr.	D h8	L1	L2	Preis	Preis TiAlN
37.202222	2.00	38	12			37.202250	5.20	62	26		
37.202223	2.10	38	12			37.202251	5.25	62	26		
37.202224	2.30	40	13			37.202252	5.30	62	26		
37.202225	2.50	43	14			37.202253	5.50	66	28		
37.202226	2.70	46	16			37.202254	5.60	66	28		
37.202227	2.75	46	16			37.202255	5.75	66	28		
37.202228	3.00	46	16			37.202256	5.80	66	28		
37.202229	3.10	49	18			37.202257	5.90	66	28		
37.202230	3.20	49	18			37.202258	6.00	66	28		
37.202231	3.25	49	18			37.202259	6.20	70	31		
37.202232	3.30	49	18			37.202260	6.50	70	31		
37.202233	3.50	52	20			37.202261	6.80	74	34		
37.202234	3.60	52	20			37.202262	7.00	74	34		
37.202235	3.70	52	20			37.202263	7.20	74	34		
37.202236	3.75	52	20			37.202264	7.50	74	34		
37.202237	3.90	55	22			37.202265	8.00	79	37		
37.202238	4.00	55	22			37.202266	8.20	79	37		
37.202239	4.10	55	22			37.202267	8.50	79	37		
37.202240	4.20	55	22			37.202268	8.80	84	40		
37.202241	4.25	55	22			37.202269	9.00	84	40		
37.202242	4.30	58	24			37.202270	9.50	84	40		
37.202243	4.40	58	24			37.202271	9.80	89	43		
37.202244	4.50	58	24			37.202272	10.00	89	43		
37.202245	4.70	58	24			37.202273	10.50	89	43		
37.202246	4.75	58	24			37.202274	11.00	95	47		
37.202247	4.80	62	26			37.202275	11.50	95	47		
37.202248	5.00	62	26			37.202276	12.00	102	51		
37.202249	5.10	62	26			37.202277	13.00	102	51		

5% Co

Material Gruppe	Vc	Vc	Ø 2	Ø 3	Ø 4	Ø 5	Ø 6	Ø 8	Ø 10	Ø 12	Ø 16
leg. Stähle <1000 N/mm ²	20-25	28-35	0.035	0.045	0.050	0.060	0.080	0.100	0.120	0.130	0.160
leg. Vergütungsstähle 850-1300 N/mm ²	8-15	12-20	0.020	0.035	0.045	0.050	0.060	0.070	0.090	0.100	0.120
Sphäroguss <700 N/mm ²	30-35	36-42	0.060	0.090	0.100	0.120	0.150	0.180	0.210	0.250	0.300
Sphäroguss 700-1000 N/mm ²	25-30	30-36	0.050	0.070	0.080	0.100	0.120	0.140	0.170	0.200	0.240
Alu-Legierungen Si >10% / <600 N/mm ²	40-50	56-70	0.060	0.090	0.100	0.120	0.150	0.180	0.210	0.250	0.300
Thermo-Plast	35-45	40-58	0.080	0.130	0.150	0.170	0.190	0.250	0.290	0.310	0.360

1000

HSSE Spiralbohrer



Ausführung:

Besonders stabiler Spezialbohrer, mit grossem Spanraum. Zum Bohren von legierten und unlegierten Stählen mit Festigkeiten bis 1300 N/mm².

Anwendungsgebiet:

Idealer Bohrer für langspanende Werkstoffe. Einsatz auf Drehautomaten und Bearbeitungszentren.



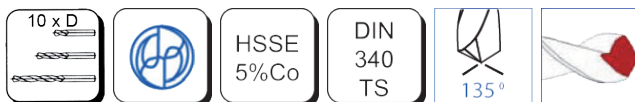
Art.-Nr.	D h8	L1	L2	Preis	Preis TiAlN	Art.-Nr.	D h8	L1	L2	Preis	Preis TiAlN
37.201319	2.00	49	24			37.201347	5.20	86	52		
37.201320	2.10	49	24			37.201348	5.25	86	52		
37.201321	2.30	53	27			37.201349	5.30	86	52		
37.201322	2.50	57	30			37.201350	5.50	93	57		
37.201323	2.70	61	33			37.201351	5.60	93	57		
37.201324	2.75	61	33			37.201352	5.75	93	57		
37.201325	3.00	61	33			37.201353	5.80	93	57		
37.201326	3.10	65	36			37.201354	5.90	93	57		
37.201327	3.20	65	36			37.201355	6.00	93	57		
37.201328	3.25	65	36			37.201356	6.20	101	63		
37.201329	3.30	65	36			37.201357	6.50	101	63		
37.201330	3.50	70	39			37.201358	6.80	109	69		
37.201331	3.60	70	39			37.201359	7.00	109	69		
37.201332	3.70	70	39			37.201360	7.20	109	69		
37.201333	3.75	70	39			37.201361	7.50	109	69		
37.201334	3.90	75	43			37.201362	8.00	117	75		
37.201335	4.00	75	43			37.201363	8.20	117	75		
37.201336	4.10	75	43			37.201364	8.50	117	75		
37.201337	4.20	75	43			37.201365	8.80	125	81		
37.201338	4.25	75	43			37.201366	9.00	125	81		
37.201339	4.30	80	47			37.201367	9.50	125	81		
37.201340	4.40	80	47			37.201368	9.80	133	87		
37.201341	4.50	80	47			37.201369	10.00	133	87		
37.201342	4.70	80	47			37.201370	10.50	133	87		
37.201343	4.75	80	47			37.201371	11.00	142	94		
37.201344	4.80	86	52			37.201372	11.50	142	94		
37.201345	5.00	86	52			37.201373	12.00	151	101		
37.201346	5.10	86	52			37.201374	13.00	151	101		

5% Co

Material Gruppe	Vc	Vc	Ø 2	Ø 3	Ø 4	Ø 5	Ø 6	Ø 8	Ø 10	Ø 12	Ø 16
leg. Stähle <1000 N/mm ²	20-25	28-35	0.035	0.045	0.050	0.060	0.080	0.100	0.120	0.130	0.160
leg. Vergütungsstähle 850-1300 N/mm ²	8-15	12-20	0.020	0.035	0.045	0.050	0.060	0.070	0.090	0.100	0.120
Sphäroguss <700 N/mm ²	30-35	36-42	0.060	0.090	0.100	0.120	0.150	0.180	0.210	0.250	0.300
Sphäroguss 700-1000 N/mm ²	25-30	30-36	0.050	0.070	0.080	0.100	0.120	0.140	0.170	0.200	0.240
Alu-Legierungen Si >10% / <600 N/mm ²	40-50	56-70	0.060	0.090	0.100	0.120	0.150	0.180	0.210	0.250	0.300
Thermo-Plast	35-45	40-58	0.080	0.130	0.150	0.170	0.190	0.250	0.290	0.310	0.360

1300

HSSE Spiralbohrer



Ausführung:

Besonders stabiler Spezialbohrer, mit grossem Spanraum. Zum Bohren von legierten und unlegierten Stählen mit Festigkeiten bis 1300 N/mm².

Anwendungsgebiet:

Idealer Bohrer für langspanende Werkstoffe. Einsatz auf Drehautomaten und Bearbeitungszentren.



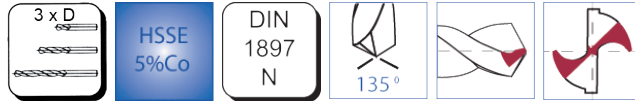
Art.-Nr.	D h8	L1	L2	Preis	Preis TiAlN	Art.-Nr.	D h8	L1	L2	Preis	Preis TiAlN
37.201979	2.00	85	56			37.202007	5.20	132	87		
37.201980	2.10	85	56			37.202008	5.25	132	87		
37.201981	2.30	90	59			37.202009	5.30	132	87		
37.201982	2.50	95	62			37.202010	5.50	139	91		
37.201983	2.70	100	66			37.202011	5.60	139	91		
37.201984	2.75	100	66			37.202012	5.75	139	91		
37.201985	3.00	100	66			37.202013	5.80	139	91		
37.201986	3.10	106	69			37.202014	5.90	139	91		
37.201987	3.20	106	69			37.202015	6.00	139	91		
37.201988	3.25	106	69			37.202016	6.20	148	97		
37.201989	3.30	106	69			37.202017	6.50	148	97		
37.201990	3.50	112	73			37.202018	6.80	156	102		
37.201991	3.60	112	73			37.202019	7.00	156	102		
37.201992	3.70	112	73			37.202020	7.20	156	102		
37.201993	3.75	112	73			37.202021	7.50	156	102		
37.201994	3.90	119	78			37.202022	8.00	165	109		
37.201995	4.00	119	78			37.202023	8.20	165	109		
37.201996	4.10	119	78			37.202024	8.50	165	109		
37.201997	4.20	119	78			37.202025	8.80	175	115		
37.201998	4.25	119	78			37.202026	9.00	175	115		
37.201999	4.30	126	82			37.202027	9.50	175	115		
37.202000	4.40	126	82			37.202028	9.80	184	121		
37.202001	4.50	126	82			37.202029	10.00	184	121		
37.202002	4.70	126	82			37.202030	10.50	184	121		
37.202003	4.75	126	82			37.202031	11.00	195	128		
37.202004	4.80	132	87			37.202032	11.50	195	128		
37.202005	5.00	132	87			37.202033	12.00	205	134		
37.202006	5.10	132	87			37.202034	13.00	205	134		

5% Co

Material Gruppe	Vc	Vc	Ø 2	Ø 3	Ø 4	Ø 5	Ø 6	Ø 8	Ø 10	Ø 12	Ø 16
leg. Stähle <1000 N/mm ²	20-25	28-35	0.035	0.045	0.050	0.060	0.080	0.100	0.120	0.130	0.160
leg. Vergütungsstähle 850-1300 N/mm ²	8-15	12-20	0.020	0.035	0.045	0.050	0.060	0.070	0.090	0.100	0.120
Sphäroguss <700 N/mm ²	30-35	36-42	0.060	0.090	0.100	0.120	0.150	0.180	0.210	0.250	0.300
Sphäroguss 700-1000 N/mm ²	25-30	30-36	0.050	0.070	0.080	0.100	0.120	0.140	0.170	0.200	0.240
Alu-Legierungen Si >10% / <600 N/mm ²	40-50	56-70	0.060	0.090	0.100	0.120	0.150	0.180	0.210	0.250	0.300
Thermo-Plast	35-45	40-58	0.080	0.130	0.150	0.170	0.190	0.250	0.290	0.310	0.360

1056

HSSE Spiralbohrer



Ausführung:

Besonders stabiler Spezialbohrer, mit ausgeprägter Warmhärtebeständigkeit. Zum Bohren von rost- und säurebeständigen VA-Stählen.

Anwendungsgebiet:

Idealer Bohrer für INOX-Werkstoffe. Einsatz auf Drehautomaten und Revolverbänken.

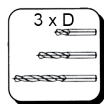


Art.-Nr.	D h8	L1	L2	Preis	Preis TiAlN	Art.-Nr.	D h8	L1	L2	Preis	Preis TiAlN
37.200700	1.00	26	6			37.200726	3.70	52	20		
37.200701	1.25	30	8			37.200727	3.75	52	20		
37.200702	1.50	32	9			37.200728	3.80	55	22		
37.200703	1.60	34	10			37.200729	3.90	55	22		
37.200704	1.75	36	11			37.200730	4.00	55	22		
37.200705	1.80	36	11			37.200731	4.10	55	22		
37.200706	2.00	38	12			37.200732	4.20	55	22		
37.200707	2.10	38	12			37.200733	4.25	55	22		
37.200708	2.20	40	13			37.200734	4.30	58	24		
37.200709	2.25	40	13			37.200735	4.40	58	24		
37.200710	2.30	40	13			37.200736	4.50	58	24		
37.200711	2.40	43	14			37.200737	4.60	58	24		
37.200712	2.50	43	14			37.200738	4.70	58	24		
37.200713	2.60	43	14			37.200739	4.75	58	24		
37.200714	2.70	46	16			37.200740	4.80	62	26		
37.200715	2.75	46	16			37.200741	4.90	62	26		
37.200716	2.80	46	16			37.200742	5.00	62	26		
37.200717	2.90	46	16			37.200743	5.10	62	26		
37.200718	3.00	46	16			37.200744	5.20	62	26		
37.200719	3.10	49	18			37.200745	5.25	62	26		
37.200720	3.20	49	18			37.200746	5.30	62	26		
37.200721	3.25	49	18			37.200747	5.40	66	28		
37.200722	3.30	49	18			37.200748	5.50	66	28		
37.200723	3.40	52	20			37.200749	5.60	66	28		
37.200724	3.50	52	20			37.200750	5.70	66	28		
37.200725	3.60	52	20			37.200751	5.75	66	28		

Material Gruppe	5% Co										
	Vc	Vc	Ø 2	Ø 3	Ø 4	Ø 5	Ø 6	Ø 8	Ø 10	Ø 12	Ø 16
leg. Vergütungsstähle 850-1300 N/mm ²	8-15	12-20	0.020	0.035	0.045	0.050	0.060	0.070	0.090	0.100	0.120
ferrit.-martensit.- INOX <1100 N/mm ²	8-12	12-17	0.030	0.040	0.050	0.060	0.070	0.090	0.100	0.120	0.150
Titan	10-15	14-20	0.020	0.030	0.040	0.050	0.060	0.070	0.080	0.100	0.120

1056

HSSE Spiralbohrer



Ausführung:

Besonders stabiler Spezialbohrer, mit ausgeprägter Warmhärtebeständigkeit. Zum Bohren von rost- und säurebeständigen VA-Stählen.

Anwendungsgebiet:

Idealer Bohrer für INOX-Werkstoffe. Einsatz auf Drehautomaten und Revolverbänken.



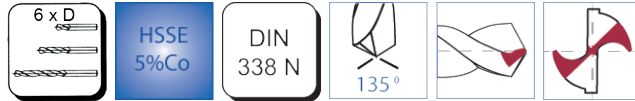
Art.-Nr.	D h8	L1	L2	Preis	Preis TiAlN	Art.-Nr.	D h8	L1	L2	Preis	Preis TiAlN
37.200752	5.80	66	28			37.200778	10.00	89	43		
37.200753	5.90	66	28			37.200779	10.20	89	43		
37.200754	6.00	66	28			37.200982	10.25	89	43		
37.200755	6.10	70	31			37.200780	10.50	89	43		
37.200756	6.20	70	31			37.200781	11.00	95	47		
37.200757	6.25	70	31			37.200983	11.25	95	47		
37.200758	6.30	70	31			37.200782	11.50	95	47		
37.200759	6.40	70	31			37.200783	12.00	102	51		
37.200760	6.50	70	31			37.200984	12.25	102	51		
37.200761	6.60	70	31			37.200784	12.50	102	51		
37.200762	6.70	70	31			37.200785	12.70	102	51		
37.200763	6.75	74	34			37.200786	13.00	102	51		
37.200764	6.80	74	34			37.200787	13.50	107	54		
37.200765	7.00	74	34			37.200788	14.00	107	54		
37.200766	7.25	74	34			37.200789	14.50	111	56		
37.200767	7.50	74	34			37.200790	15.00	111	56		
37.200768	7.75	79	37			37.200791	15.50	115	58		
37.200769	7.80	79	37			37.200792	16.00	115	58		
37.200770	8.00	79	37			37.200793	16.50	119	60		
37.200771	8.25	79	37			37.200794	17.00	119	60		
37.200772	8.50	79	37			37.200795	17.50	123	62		
37.200773	8.75	84	40			37.200796	18.00	123	62		
37.200774	9.00	84	40			37.200797	18.50	127	64		
37.200775	9.25	84	40			37.200798	19.00	127	64		
37.200776	9.50	84	40			37.200799	19.50	131	66		
37.200777	9.75	89	43			37.200800	20.00	131	66		

5% Co

Material Gruppe	Vc	Vc	Ø 2	Ø 3	Ø 4	Ø 5	Ø 6	Ø 8	Ø 10	Ø 12	Ø 16
leg. Vergütungsstähle 850-1300 N/mm ²	8-15	12-20	0.020	0.035	0.045	0.050	0.060	0.070	0.090	0.100	0.120
ferrit.-martensit.- INOX <1100 N/mm ²	8-12	12-17	0.030	0.040	0.050	0.060	0.070	0.090	0.100	0.120	0.150
Titan	10-15	14-20	0.020	0.030	0.040	0.050	0.060	0.070	0.080	0.100	0.120

1016

HSSE Spiralbohrer



Ausführung:

Besonders stabiler Spezialbohrer, mit ausgeprägter Warmhärtebeständigkeit. Zum Bohren von rost- und säurebeständigen VA-Stählen.

Anwendungsgebiet:

Idealer Bohrer für INOX-Werkstoffe. Einsatz auf Drehautomaten und Revolverbänken.



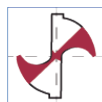
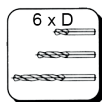
Art.-Nr.	D h8	L1	L2	Preis	Preis Ti- AlN	Art.-Nr.	D h8	L1	L2	Preis	Preis Ti- AlN	Art.-Nr.	D h8	L1	L2	Preis	Preis Ti- AlN
37.200203	0.50	22	6			37.200233	3.00	61	33			37.200263	5.50	93	57		
37.200204	0.60	27	7			37.200234	3.10	65	36			37.200264	5.60	93	57		
37.200205	0.70	28	9			37.200235	3.20	65	36			37.200265	5.70	93	57		
37.200206	0.75	28	9			37.200236	3.25	65	36			37.200266	5.75	93	57		
37.200207	0.80	30	10			37.200237	3.30	65	36			37.200267	5.80	93	57		
37.200208	0.90	32	11			37.200238	3.40	70	39			37.200268	5.90	93	57		
37.200209	1.00	34	12			37.200239	3.50	70	39			37.200269	6.00	93	57		
37.200210	1.10	36	14			37.200240	3.60	70	39			37.200270	6.10	101	63		
37.200211	1.20	38	16			37.200241	3.70	70	39			37.200271	6.20	101	63		
37.200212	1.25	38	16			37.200242	3.75	70	39			37.200272	6.25	101	63		
37.200213	1.30	38	16			37.200243	3.80	75	43			37.200273	6.30	101	63		
37.200214	1.40	40	18			37.200244	3.90	75	43			37.200274	6.40	101	63		
37.200215	1.50	40	18			37.200245	4.00	75	43			37.200985	6.45	101	63		
37.200216	1.60	43	20			37.200246	4.10	75	43			37.200275	6.50	101	63		
37.200217	1.70	43	20			37.200247	4.20	75	43			37.200276	6.60	101	63		
37.200218	1.75	46	22			37.200248	4.25	75	43			37.200277	6.70	101	63		
37.200219	1.80	46	22			37.200249	4.30	80	47			37.200278	6.75	109	69		
37.200220	1.90	46	22			37.200250	4.40	80	47			37.200279	6.80	109	69		
37.200221	2.00	49	24			37.200251	4.50	80	47			37.200280	6.90	109	69		
37.200222	2.10	49	24			37.200252	4.60	80	47			37.200281	7.00	109	69		
37.200223	2.20	53	27			37.200253	4.70	80	47			37.200282	7.10	109	69		
37.200224	2.25	53	27			37.200254	4.75	80	47			37.200283	7.20	109	69		
37.200225	2.30	53	27			37.200255	4.80	86	52			37.200284	7.25	109	69		
37.200226	2.40	57	30			37.200256	4.90	86	52			37.200285	7.30	109	69		
37.200227	2.50	57	30			37.200257	5.00	86	52			37.200286	7.40	109	69		
37.200228	2.60	57	30			37.200258	5.10	86	52			37.200287	7.50	109	69		
37.200229	2.70	61	33			37.200259	5.20	86	52			37.200288	7.60	117	75		
37.200230	2.75	61	33			37.200260	5.25	86	52			37.200289	7.70	117	75		
37.200231	2.80	61	33			37.200261	5.30	86	52			37.200290	7.75	117	75		
37.200232	2.90	61	33			37.200262	5.40	93	57			37.200291	7.80	117	75		

5% Co

Material Gruppe	Vc	Vc	Ø 2	Ø 3	Ø 4	Ø 5	Ø 6	Ø 8	Ø 10	Ø 12	Ø 16
leg. Vergütungsstähle 850-1300 N/mm ²	8-15	12-20	0.020	0.035	0.045	0.050	0.060	0.070	0.090	0.100	0.120
ferrit.-martensit.- INOX <1100 N/mm ²	8-12	12-17	0.030	0.040	0.050	0.060	0.070	0.090	0.100	0.120	0.150
Titan	10-15	14-20	0.020	0.030	0.040	0.050	0.060	0.070	0.080	0.100	0.120

1016

HSSE Spiralbohrer



Ausführung:

Besonders stabiler Spezialbohrer, mit ausgeprägter Warmhärtebeständigkeit. Zum Bohren von rost- und säurebeständigen VA-Stählen.

Anwendungsgebiet:

Idealer Bohrer für INOX-Werkstoffe. Einsatz auf Drehautomaten und Revolverbänken.



Art.-Nr.	D h8	L1	L2	Preis	Preis Ti- AlN	Art.-Nr.	D h8	L1	L2	Preis	Preis Ti- AlN	Art.-Nr.	D h8	L1	L2	Preis	Preis Ti- AlN
37.200292	7.90	117	75			37.200320	10.25	133	87			37.201203	12.60	151	101		
37.200293	8.00	117	75			37.200321	10.30	133	87			37.201204	12.70	151	101		
37.200294	8.10	117	75			37.200322	10.40	133	87			37.201205	12.75	151	101		
37.200295	8.20	117	75			37.200323	10.50	133	87			37.201206	12.80	151	101		
37.200296	8.25	117	75			37.200324	10.60	133	87			37.201207	12.90	151	101		
37.200297	8.30	117	75			37.200325	10.70	142	94			37.201208	13.00	151	101		
37.200298	8.40	117	75			37.200326	10.75	142	94			37.201209	13.25	160	108		
37.200299	8.50	117	75			37.200327	10.80	142	94			37.201210	13.50	160	108		
37.200300	8.60	125	81			37.200328	10.90	142	94			37.201211	13.75	160	108		
37.200301	8.70	125	81			37.200329	11.00	142	94			37.201212	14.00	160	108		
37.200302	8.75	125	81			37.200330	11.10	142	94			37.201213	14.25	169	114		
37.200303	8.80	125	81			37.200331	11.20	142	94			37.201214	14.50	169	114		
37.200304	8.90	125	81			37.200332	11.25	142	94			37.201215	14.75	169	114		
37.200305	9.00	125	81			37.200333	11.30	142	94			37.201216	15.00	169	114		
37.200306	9.10	125	81			37.200334	11.40	142	94			37.201217	15.25	178	120		
37.200307	9.20	125	81			37.200335	11.50	142	94			37.201218	15.50	178	120		
37.200308	9.25	125	81			37.200336	11.60	142	94			37.201219	15.75	178	120		
37.200309	9.30	125	81			37.200337	11.70	142	94			37.201220	16.00	178	120		
37.200310	9.40	125	81			37.200338	11.75	142	94			37.201221	16.50	184	125		
37.200311	9.50	125	81			37.200339	11.80	142	94			37.201222	17.00	184	125		
37.200312	9.60	133	87			37.200340	11.90	151	101			37.201223	17.50	191	130		
37.200313	9.70	133	87			37.200341	12.00	151	101			37.201224	18.00	191	130		
37.200314	9.75	133	87			37.200342	12.10	151	101			37.201225	18.50	198	135		
37.200315	9.80	133	87			37.200343	12.20	151	101			37.201226	19.00	198	135		
37.200316	9.90	133	87			37.200344	12.25	151	101			37.201227	19.50	205	140		
37.200317	10.00	133	87			37.201200	12.30	151	101			37.201228	20.00	205	140		
37.200318	10.10	133	87			37.201201	12.40	151	101								
37.200319	10.20	133	87			37.201202	12.50	151	101								

5% Co

Material Gruppe	Vc	Vc	Ø 2	Ø 3	Ø 4	Ø 5	Ø 6	Ø 8	Ø 10	Ø 12	Ø 16
leg. Vergütungsstähle 850-1300 N/mm²	8-15	12-20	0.020	0.035	0.045	0.050	0.060	0.070	0.090	0.100	0.120
ferrit.-martensit.- INOX <1100 N/mm²	8-12	12-17	0.030	0.040	0.050	0.060	0.070	0.090	0.100	0.120	0.150
Titan	10-15	14-20	0.020	0.030	0.040	0.050	0.060	0.070	0.080	0.100	0.120

1036

HSSE Spiralbohrer



Ausführung:

Besonders stabiler Spezialbohrer, mit ausgeprägter Warmhärtebeständigkeit. Zum Bohren von rost- und säurebeständigen VA-Stählen.

Anwendungsgebiet:

Idealer Bohrer für INOX-Werkstoffe. Einsatz auf Drehautomaten und Revolverbänken.



Art.-Nr.	D h8	L1	L2	Preis	Art.-Nr.	D h8	L1	L2	Preis
37.200345	2.00	85	56		37.200364	6.00	139	91	
37.200346	2.50	95	62		37.200365	6.50	148	97	
37.200347	3.00	100	66		37.200366	6.75	156	102	
37.200348	3.10	106	69		37.200367	6.80	156	102	
37.200349	3.20	106	69		37.200368	7.00	156	102	
37.200350	3.25	106	69		37.200369	7.50	156	102	
37.200351	3.30	106	69		37.200370	8.00	165	109	
37.200352	3.50	112	73		37.200371	8.50	165	109	
37.200353	3.70	112	73		37.200372	9.00	175	115	
37.200354	3.75	112	73		37.200373	9.50	175	115	
37.200355	4.00	119	78		37.200374	10.00	184	121	
37.200986	4.10	119	78		37.200375	10.20	184	121	
37.200356	4.20	119	78		37.200376	10.25	184	121	
37.200357	4.25	119	78		37.200377	10.50	184	121	
37.200358	4.50	126	82		37.200378	11.00	195	128	
37.200359	4.75	126	82		37.200379	11.50	195	128	
37.200360	5.00	132	87		37.200380	12.00	205	134	
37.200361	5.25	132	87		37.200381	12.50	205	134	
37.200362	5.50	139	91		37.200382	13.00	205	134	
37.200363	5.75	139	91						

Material Gruppe	5% Co										
	Vc	Vc	Ø 2	Ø 3	Ø 4	Ø 5	Ø 6	Ø 8	Ø 10	Ø 12	Ø 16
leg. Vergütungsstähle 850-1300 N/mm ²	8-15	12-20	0.020	0.035	0.045	0.050	0.060	0.070	0.090	0.100	0.120
ferrit.-martensit.- INOX <1100 N/mm ²	8-12	12-17	0.030	0.040	0.050	0.060	0.070	0.090	0.100	0.120	0.150
Titan	10-15	14-20	0.020	0.030	0.040	0.050	0.060	0.070	0.080	0.100	0.120

2311

**VHM Spiralbohrer gleicher Nenn- und Schaft-Ø
zum Bohren von Stahl, Guss, NE-Metallen und abrasiven Kunststoffen**



Ausführung

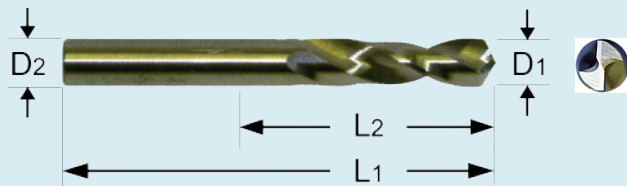
spiralgenutet, rechtsschneidend mit Zylinderschaft,
ab Ø 6.0 mit Kegelmantelschliff
Baumasse nach DIN 6539

Schneidstoff

K10 Feinstkorn 8-10% Co

Beschichtung

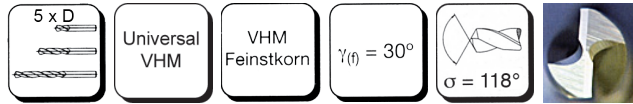
ohne



Art.-Nr.	D1 h7	D2 h7	L1	L2	Preis	Art.-Nr.	D1 h7	D2 h7	L1	L2	Preis	Art.-Nr.	D1 h7	D2 h7	L1	L2	Preis
20.210001	1.5	1.5	32	9		20.210019	3.6	3.6	52	20		20.210037	6.0	6.0	66	28	
20.210002	1.6	1.6	34	10		20.210020	3.7	3.7	52	20		20.210038	6.5	6.5	70	31	
20.210003	2.0	2.0	38	12		20.210021	3.8	3.8	55	22		20.210039	6.8	6.8	74	34	
20.210004	2.1	2.1	38	12		20.210022	3.9	3.9	55	22		20.210040	7.0	7.0	74	34	
20.210005	2.2	2.2	40	13		20.210023	4.0	4.0	55	22		20.210041	7.5	7.5	74	34	
20.210006	2.3	2.3	40	13		20.210024	4.1	4.1	55	22		20.210042	8.0	8.0	79	37	
20.210007	2.4	2.4	43	14		20.210025	4.2	4.2	55	22		20.210043	8.5	8.5	79	37	
20.210008	2.5	2.5	43	14		20.210026	4.3	4.3	58	24		20.210044	8.8	8.8	84	40	
20.210009	2.6	2.6	43	14		20.210027	4.4	4.4	58	24		20.210045	9.0	9.0	84	40	
20.210010	2.7	2.7	46	16		20.210028	4.5	4.5	58	24		20.210046	9.5	9.5	84	40	
20.210011	2.8	2.8	46	16		20.210029	4.6	4.6	58	24		20.210047	10.0	10.0	89	43	
20.210012	2.9	2.9	46	16		20.210030	4.7	4.7	58	24		20.210048	10.2	10.2	89	43	
20.210013	3.0	3.0	46	16		20.210031	4.8	4.8	62	26		20.210049	10.5	10.5	89	43	
20.210014	3.1	3.1	49	18		20.210032	4.9	4.9	62	26		20.210050	11.0	11.0	95	47	
20.210015	3.2	3.2	49	18		20.210033	5.0	5.0	62	26		20.210051	11.5	11.5	95	47	
20.210016	3.3	3.3	49	18		20.210034	5.2	5.2	62	26		20.210052	12.0	12.0	102	51	
20.210017	3.4	3.4	52	20		20.210035	5.5	5.5	66	28							
20.210018	3.5	3.5	52	20		20.210036	5.8	5.8	66	28							

2321

**VHM Spiralbohrer gleicher Nenn- und Schaft-Ø
zum Bohren von Stahl, Guss, NE-Metallen und abrasiven Kunststoffen**



Ausführung

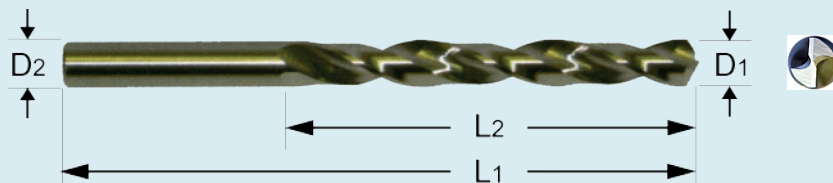
spiralgenutet, rechtsschneidend mit Zylinderschaft,
ab Ø 6.0 mit Kegelmantelschliff,
Baumasse nach DIN 338

Schneidstoff

K10 Feinstkorn 8-10% Co

Beschichtung

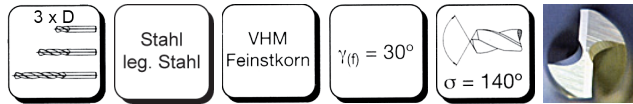
ohne



Art.-Nr.	D1 h7	D2 h7	L1	L2	Preis	Art.-Nr.	D1 h7	D2 h7	L1	L2	Preis	Art.-Nr.	D1 h7	D2 h7	L1	L2	Preis
20.210053	2.0	2.0	49	24		20.210069	3.6	3.6	70	39		20.210085	6.0	6.0	93	57	
20.210054	2.1	2.1	49	24		20.210070	3.7	3.7	70	39		20.210086	6.5	6.5	101	63	
20.210055	2.2	2.2	53	27		20.210071	3.8	3.8	75	43		20.210087	6.8	6.8	109	69	
20.210056	2.3	2.3	53	27		20.210072	3.9	3.9	75	43		20.210088	7.0	7.0	109	69	
20.210057	2.4	2.4	57	30		20.210073	4.0	4.0	75	43		20.210089	7.5	7.5	109	69	
20.210058	2.5	2.5	57	30		20.210074	4.1	4.1	75	43		20.210090	8.0	8.0	117	75	
20.210059	2.6	2.6	57	30		20.210075	4.2	4.2	75	43		20.210091	8.5	8.5	117	75	
20.210060	2.7	2.7	61	33		20.210076	4.3	4.3	80	47		20.210092	9.0	9.0	125	81	
20.210061	2.8	2.8	61	33		20.210077	4.4	4.4	80	47		20.210093	9.5	9.5	125	91	
20.210062	2.9	2.9	61	33		20.210078	4.5	4.5	80	47		20.210094	10.0	10.0	133	87	
20.210063	3.0	3.0	61	33		20.210079	4.6	4.6	80	47		20.210096	10.5	10.5	133	87	
20.210064	3.1	3.1	65	36		20.210080	4.7	4.7	80	47		20.210097	11.0	11.0	142	94	
20.210065	3.2	3.2	65	36		20.210081	4.8	4.8	86	52		20.210098	11.5	11.5	142	94	
20.210066	3.3	3.3	65	36		20.210082	4.9	4.9	86	52		20.210099	12.0	12.0	151	101	
20.210067	3.4	3.4	70	39		20.210083	5.0	5.0	86	52							
20.210068	3.5	3.5	70	39		20.210084	5.5	5.5	93	57							

3011

VHM Hochleistungsbohrer zum Bohren von Stahl, legierten Stählen und Guss

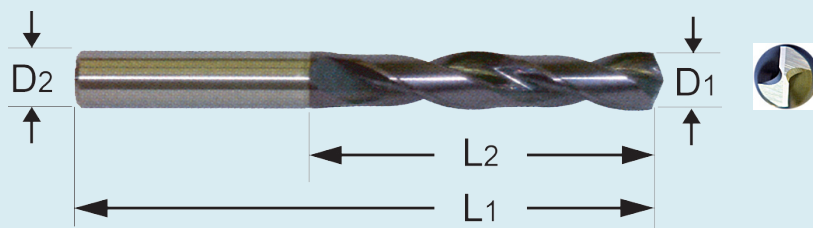


Ausführung

spiralgenutet, rechtsschneidend verstärkter Kern, spezielle
Schneiden- und Nutengeometrie, ohne Innenkühlung,
Schaft DIN 6537-HA; HE

Beschichtung

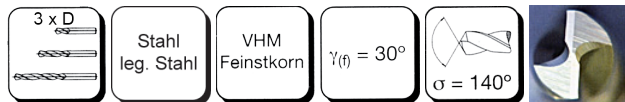
TiAlN



Art.-Nr.	D1 h7	D2 h6	L1	L2	Preis	Art.-Nr.	D1 h7	D2 h6	L1	L2	Preis	Art.-Nr.	D1 h7	D2 h6	L1	L2	Preis
20.210108	3.0	6.0	62	20		20.210135	5.7	6.0	66	28		20.210162	8.4	10.0	89	47	
20.210109	3.1	6.0	62	20		20.210136	5.8	6.0	66	28		20.210163	8.5	10.0	89	47	
20.210110	3.2	6.0	62	20		20.210137	5.9	6.0	66	28		20.210164	8.6	10.0	89	47	
20.210111	3.3	6.0	62	20		20.210138	6.0	6.0	66	28		20.210165	8.7	10.0	89	47	
20.210112	3.4	6.0	62	20		20.210139	6.1	8.0	79	34		20.210166	8.8	10.0	89	47	
20.210113	3.5	6.0	62	20		20.210140	6.2	8.0	79	34		20.210167	8.9	10.0	89	47	
20.210114	3.6	6.0	62	20		20.210141	6.3	8.0	79	34		20.210168	9.0	10.0	89	47	
20.210115	3.7	6.0	62	20		20.210142	6.4	8.0	79	34		20.210169	9.1	10.0	89	47	
20.210116	3.8	6.0	66	24		20.210143	6.5	8.0	79	34		20.210170	9.2	10.0	89	47	
20.210117	3.9	6.0	66	24		20.210144	6.6	8.0	79	34		20.210171	9.3	10.0	89	47	
20.210118	4.0	6.0	66	24		20.210145	6.7	8.0	79	34		20.210172	9.4	10.0	89	47	
20.210119	4.1	6.0	66	24		20.210146	6.8	8.0	79	34		20.210173	9.5	10.0	89	47	
20.210120	4.2	6.0	66	24		20.210147	6.9	8.0	79	34		20.210174	9.6	10.0	89	47	
20.210121	4.3	6.0	66	24		20.210148	7.0	8.0	79	34		20.210175	9.7	10.0	89	47	
20.210122	4.4	6.0	66	24		20.210149	7.1	8.0	79	41		20.210176	9.8	10.0	89	47	
20.210123	4.5	6.0	66	24		20.210150	7.2	8.0	79	41		20.210177	9.9	10.0	89	47	
20.210124	4.6	6.0	66	24		20.210151	7.3	8.0	79	41		20.210178	10.0	10.0	89	47	
20.210125	4.7	6.0	66	24		20.210152	7.4	8.0	79	41		20.210179	10.1	12.0	102	55	
20.210126	4.8	6.0	66	28		20.210153	7.5	8.0	79	41		20.210180	10.2	12.0	102	55	
20.210127	4.9	6.0	66	28		20.210154	7.6	8.0	79	41		20.210181	10.3	12.0	102	55	
20.210128	5.0	6.0	66	28		20.210155	7.7	8.0	79	41		20.210182	10.4	12.0	102	55	
20.210129	5.1	6.0	66	28		20.210156	7.8	8.0	79	41		20.210183	10.5	12.0	102	55	
20.210130	5.2	6.0	66	28		20.210157	7.9	8.0	79	41		20.210184	10.6	12.0	102	55	
20.210131	5.3	6.0	66	28		20.210158	8.0	8.0	79	41		20.210185	10.7	12.0	102	55	
20.210132	5.4	6.0	66	28		20.210159	8.1	10.0	89	47		20.210186	10.8	12.0	102	55	
20.210133	5.5	6.0	66	28		20.210160	8.2	10.0	89	47		20.210187	10.9	12.0	102	55	
20.210134	5.6	6.0	66	28		20.210161	8.3	10.0	89	47		20.210188	11.0	12.0	102	55	

3011

VHM Hochleistungsbohrer zum Bohren von Stahl, legierten Stählen und Guss

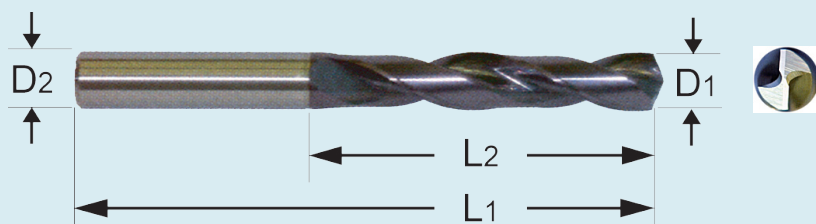


Ausführung

spiralgenutet, rechtsschneidend verstärkter Kern, spezielle
Schneiden- und Nutengeometrie, ohne Innenkühlung,
Schaft DIN 6537-HA; HE

Beschichtung

TiAlN



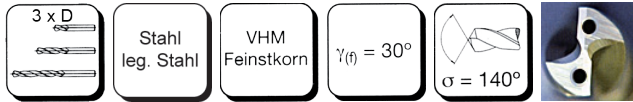
Art.-Nr.	D1 h7	D2 h6	L1	L2	Preis	Art.-Nr.	D1 h7	D2 h6	L1	L2	Preis	Art.-Nr.	D1 h7	D2 h6	L1	L2	Preis
20.210189	11.1	12.0	102	55		20.210201	12.7	14.0	107	60		20.210213	15.0	16.0	115	65	
20.210190	11.2	12.0	102	55		20.210202	12.8	14.0	107	60		20.210214	15.8	16.0	115	65	
20.210191	11.3	12.0	102	55		20.210203	13.0	14.0	107	60		20.210215	16.0	16.0	115	65	
20.210192	11.4	12.0	102	55		20.210204	13.2	14.0	107	60		20.210216	16.5	18.0	123	73	
20.210193	11.5	12.0	102	55		20.210205	13.5	14.0	107	60		20.210217	17.0	18.0	123	73	
20.210194	11.6	12.0	102	55		20.210206	13.7	14.0	107	60		20.210218	17.5	18.0	123	73	
20.210195	11.7	12.0	102	55		20.210207	13.8	14.0	107	60		20.210219	18.0	18.0	123	73	
20.210196	11.8	12.0	102	55		20.210208	14.0	14.0	107	60		20.210220	18.5	20.0	131	79	
20.210197	11.9	12.0	102	55		20.210209	14.2	14.0	107	60		20.210221	19.0	20.0	131	79	
20.210198	12.0	12.0	102	55		20.210210	14.5	16.0	115	65		20.210222	19.5	20.0	131	79	
20.210199	12.2	12.0	102	55		20.210211	14.7	16.0	115	65		20.210223	20.0	20.0	131	79	
20.210200	12.5	14.0	107	60		20.210212	14.8	16.0	115	65							

Vorschub pro Umdrehung (mm)

Mat.	Ø 0 - 2	Ø 2 - 2.5	Ø 2.5 - 3	Ø 3 - 4	Ø 4 - 5	Ø 5 - 6	Ø 6 - 8	Ø 8 - 10	Ø 10 - 12	Ø 12 - 16	Ø 16 - 20
P1	0.080	0.100	0.125	0.160	0.160	0.200	0.250	0.315	0.315	0.400	0.500
P2	0.063	0.080	0.100	0.125	0.125	0.160	0.200	0.250	0.250	0.315	0.400
P3	0.050	0.063	0.080	0.100	0.100	0.125	0.160	0.200	0.200	0.250	0.315
M1	0.040	0.050	0.063	0.080	0.080	0.100	0.125	0.160	0.160	0.200	0.250
M2	0.032	0.040	0.050	0.063	0.063	0.080	0.100	0.125	0.125	0.160	0.200
K1	0.125	0.160	0.160	0.200	0.250	0.315	0.315	0.400	0.500	0.630	0.630
K2	0.100	0.125	0.160	0.200	0.200	0.250	0.315	0.400	0.400	0.500	0.630
N1	0.100	0.125	0.160	0.200	0.200	0.250	0.315	0.400	0.400	0.500	0.630
N2	0.125	0.160	0.160	0.200	0.250	0.315	0.315	0.400	0.500	0.630	0.630
S1	0.040	0.050	0.063	0.080	0.080	0.100	0.125	0.160	0.160	0.200	0.250
S2	0.032	0.040	0.050	0.063	0.063	0.080	0.100	0.125	0.125	0.160	0.200
H1	0.032	0.040	0.050	0.063	0.063	0.080	0.100	0.125	0.125	0.160	0.200
H2	0.025	0.032	0.040	0.050	0.050	0.063	0.080	0.100	0.100	0.125	0.160

3021

**VHM Hochleistungsbohrer
zum Bohren von Stahl, legierten Stählen und Guss**

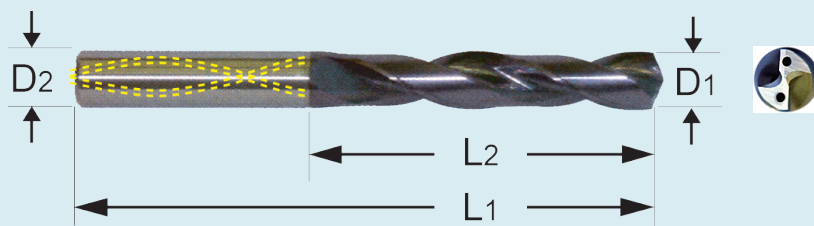


Ausführung

spiralgenutet, rechtsschneidend verstärkter Kern, spezielle
Schneiden- und Nutengeometrie, mit Innenkühlung
Schaft DIN 6537-HA; HE

Beschichtung

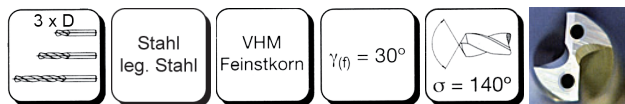
TiAlN



Art.-Nr.	D1 h7	D2 h6	L1	L2	Preis	Art.-Nr.	D1 h7	D2 h6	L1	L2	Preis	Art.-Nr.	D1 h7	D2 h6	L1	L2	Preis
20.210224	3.0	6.0	62	20		20.210251	5.7	6.0	66	28		20.210278	8.4	10.0	89	47	
20.210225	3.1	6.0	62	20		20.210252	5.8	6.0	66	28		20.210279	8.5	10.0	89	47	
20.210226	3.2	6.0	62	20		20.210253	5.9	6.0	66	28		20.210280	8.6	10.0	89	47	
20.210227	3.3	6.0	62	20		20.210254	6.0	6.0	66	28		20.210281	8.7	10.0	89	47	
20.210228	3.4	6.0	62	20		20.210255	6.1	8.0	79	34		20.210282	8.8	10.0	89	47	
20.210229	3.5	6.0	62	20		20.210256	6.2	8.0	79	34		20.210283	8.9	10.0	89	47	
20.210230	3.6	6.0	62	20		20.210257	6.3	8.0	79	34		20.210284	9.0	10.0	89	47	
20.210231	3.7	6.0	62	20		20.210258	6.4	8.0	79	34		20.210285	9.1	10.0	89	47	
20.210232	3.8	6.0	66	24		20.210259	6.5	8.0	79	34		20.210286	9.2	10.0	89	47	
20.210233	3.9	6.0	66	24		20.210260	6.6	8.0	79	34		20.210287	9.3	10.0	89	47	
20.210234	4.0	6.0	66	24		20.210261	6.7	8.0	79	34		20.210288	9.4	10.0	89	47	
20.210235	4.1	6.0	66	24		20.210262	6.8	8.0	79	34		20.210289	9.5	10.0	89	47	
20.210236	4.2	6.0	66	24		20.210263	6.9	8.0	79	34		20.210290	9.6	10.0	89	47	
20.210237	4.3	6.0	66	24		20.210264	7.0	8.0	79	34		20.210291	9.7	10.0	89	47	
20.210238	4.4	6.0	66	24		20.210265	7.1	8.0	79	41		20.210292	9.8	10.0	89	47	
20.210239	4.5	6.0	66	24		20.210266	7.2	8.0	79	41		20.210293	9.9	10.0	89	47	
20.210240	4.6	6.0	66	24		20.210267	7.3	8.0	79	41		20.210294	10.0	10.0	89	47	
20.210241	4.7	6.0	66	24		20.210268	7.4	8.0	79	41		20.210295	10.1	12.0	102	55	
20.210242	4.8	6.0	66	28		20.210269	7.5	8.0	79	41		20.210296	10.2	12.0	102	55	
20.210243	4.9	6.0	66	28		20.210270	7.6	8.0	79	41		20.210297	10.3	12.0	102	55	
20.210244	5.0	6.0	66	28		20.210271	7.7	8.0	79	41		20.210298	10.4	12.0	102	55	
20.210245	5.1	6.0	66	28		20.210272	7.8	8.0	79	41		20.210299	10.5	12.0	102	55	
20.210246	5.2	6.0	66	28		20.210273	7.9	8.0	79	41		20.210300	10.6	12.0	102	55	
20.210247	5.3	6.0	66	28		20.210274	8.0	8.0	79	41		20.210301	10.7	12.0	102	55	
20.210248	5.4	6.0	66	28		20.210275	8.1	10.0	89	47		20.210302	10.8	12.0	102	55	
20.210249	5.5	6.0	66	28		20.210276	8.2	10.0	89	47		20.210303	10.9	12.0	102	55	
20.210250	5.6	6.0	66	28		20.210277	8.3	10.0	89	47		20.210304	11.0	12.0	102	55	

3021

VHM Hochleistungsbohrer zum Bohren von Stahl, legierten Stählen und Guss

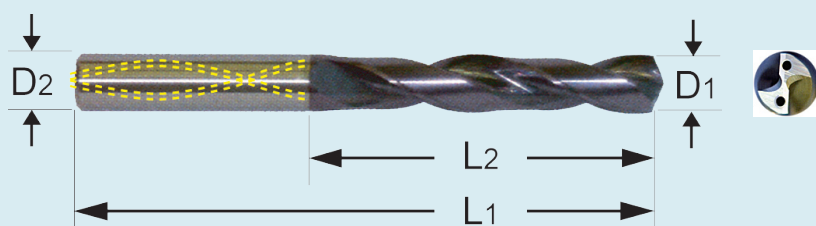


Ausführung

spiralgenutet, rechtsschneidend verstärkter Kern, spezielle Schneiden- und Nutengeometrie, mit Innenkühlung, Schaft DIN 6537-HA; HE

Beschichtung

TiAlN



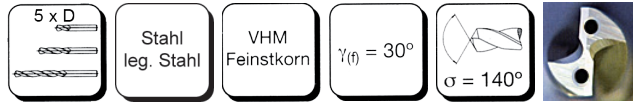
Art.-Nr.	D1 h7	D2 h6	L1	L2	Preis	Art.-Nr.	D1 h7	D2 h6	L1	L2	Preis	Art.-Nr.	D1 h7	D2 h6	L1	L2	Preis
20.210305	11.1	12.0	102	55		20.210318	12.8	14.0	107	60		20.211166	15.5	16.0	115	65	
20.210306	11.2	12.0	102	55		20.210319	13.0	14.0	107	60		20.211168	15.7	16.0	115	65	
20.210307	11.3	12.0	102	55		20.210320	13.2	14.0	107	60		20.210330	15.8	16.0	115	65	
20.210308	11.4	12.0	102	55		20.210321	13.5	14.0	107	60		20.210331	16.0	16.0	115	65	
20.210309	11.5	12.0	102	55		20.210322	13.7	14.0	107	60		20.210332	16.5	18.0	123	73	
20.210310	11.6	12.0	102	55		20.210323	13.8	14.0	107	60		20.210333	17.0	18.0	123	73	
20.210311	11.7	12.0	102	55		20.210324	14.0	14.0	107	60		20.210334	17.5	18.0	123	73	
20.210312	11.8	12.0	102	55		20.210325	14.2	14.0	107	60		20.210335	18.0	18.0	123	73	
20.210313	11.9	12.0	102	55		20.210326	14.5	16.0	115	65		20.210336	18.5	20.0	131	79	
20.210314	12.0	12.0	102	55		20.210327	14.7	16.0	115	65		20.210337	19.0	20.0	131	79	
20.210315	12.2	12.0	102	55		20.210328	14.8	16.0	115	65		20.210338	19.5	20.0	131	79	
20.210316	12.5	14.0	107	60		20.210329	15.0	16.0	115	65		20.210339	20.0	20.0	131	79	
20.210317	12.7	14.0	107	60		20.211164	15.2	16.0	115	65							

Vorschub pro Umdrehung (mm)

Mat.	Ø 0 - 2	Ø 2 - 2.5	Ø 2.5 - 3	Ø 3 - 4	Ø 4 - 5	Ø 5 - 6	Ø 6 - 8	Ø 8 - 10	Ø 10 - 12	Ø 12 - 16	Ø 16 - 20
P1	0.080	0.100	0.125	0.160	0.160	0.200	0.250	0.315	0.315	0.400	0.500
P2	0.063	0.080	0.100	0.125	0.125	0.160	0.200	0.250	0.250	0.315	0.400
P3	0.050	0.063	0.080	0.100	0.100	0.125	0.160	0.200	0.200	0.250	0.315
M1	0.040	0.050	0.063	0.080	0.080	0.100	0.125	0.160	0.160	0.200	0.250
M2	0.032	0.040	0.050	0.063	0.063	0.080	0.100	0.125	0.125	0.160	0.200
K1	0.125	0.160	0.160	0.200	0.250	0.315	0.315	0.400	0.500	0.630	0.630
K2	0.100	0.125	0.160	0.200	0.200	0.250	0.315	0.400	0.400	0.500	0.630
N1	0.100	0.125	0.160	0.200	0.200	0.250	0.315	0.400	0.400	0.500	0.630
N2	0.125	0.160	0.160	0.200	0.250	0.315	0.315	0.400	0.500	0.630	0.630
S1	0.040	0.050	0.063	0.080	0.080	0.100	0.125	0.160	0.160	0.200	0.250
S2	0.032	0.040	0.050	0.063	0.063	0.080	0.100	0.125	0.125	0.160	0.200
H1	0.032	0.040	0.050	0.063	0.063	0.080	0.100	0.125	0.125	0.160	0.200
H2	0.025	0.032	0.040	0.050	0.050	0.063	0.080	0.100	0.100	0.125	0.160

5021

VHM Hochleistungsbohrer zum Bohren von Stahl, legierten Stählen und Guss

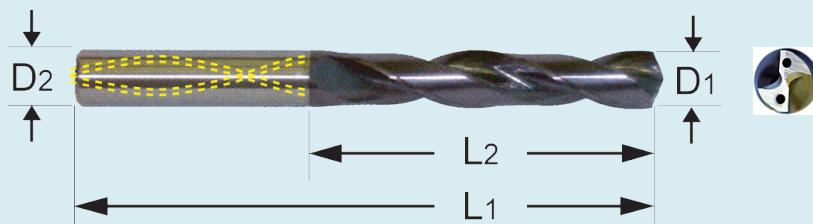


Ausführung

spiralgenutet, rechtsschneidend verstärkter Kern, spezielle
Schneiden- und Nutengeometrie, mit Innenkühlung,
Schaft DIN 6537-HA; HE

Beschichtung

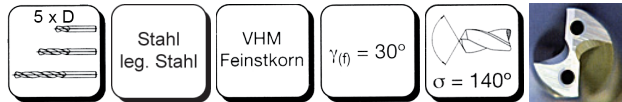
TiAlN



Art.-Nr.	D1 h7	D2 h6	L1	L2	Preis	Art.-Nr.	D1 h7	D2 h6	L1	L2	Preis	Art.-Nr.	D1 h7	D2 h6	L1	L2	Preis
20.210340	3.0	6.0	66	28		20.210366	5.6	6.0	82	44		20.210392	8.2	10.0	103	61	
20.210341	3.1	6.0	66	28		20.210367	5.7	6.0	82	44		20.210393	8.3	10.0	103	61	
20.210342	3.2	6.0	66	28		20.210368	5.8	6.0	82	44		20.210394	8.4	10.0	103	61	
20.210343	3.3	6.0	66	28		20.210369	5.9	6.0	82	44		20.210395	8.5	10.0	103	61	
20.210344	3.4	6.0	66	28		20.210370	6.0	6.0	82	44		20.210396	8.6	10.0	103	61	
20.210345	3.5	6.0	66	28		20.210371	6.1	8.0	91	53		20.210397	8.7	10.0	103	61	
20.210346	3.6	6.0	66	28		20.210372	6.2	8.0	91	53		20.210398	8.8	10.0	103	61	
20.210347	3.7	6.0	66	28		20.210373	6.3	8.0	91	53		20.210399	8.9	10.0	103	61	
20.210348	3.8	6.0	74	36		20.210374	6.4	8.0	91	53		20.210400	9.0	10.0	103	61	
20.210349	3.9	6.0	74	36		20.210375	6.5	8.0	91	53		20.210401	9.1	10.0	103	61	
20.210350	4.0	6.0	74	36		20.210376	6.6	8.0	91	53		20.210402	9.2	10.0	103	61	
20.210351	4.1	6.0	74	36		20.210377	6.7	8.0	91	53		20.210403	9.3	10.0	103	61	
20.210352	4.2	6.0	74	36		20.210378	6.8	8.0	91	53		20.210404	9.4	10.0	103	61	
20.210353	4.3	6.0	74	36		20.210379	6.9	8.0	91	53		20.210405	9.5	10.0	103	61	
20.210354	4.4	6.0	74	36		20.210380	7.0	8.0	91	53		20.210406	9.6	10.0	103	61	
20.210355	4.5	6.0	74	36		20.210381	7.1	8.0	91	53		20.210407	9.7	10.0	103	61	
20.210356	4.6	6.0	74	36		20.210382	7.2	8.0	91	53		20.210408	9.8	10.0	103	61	
20.210357	4.7	6.0	74	36		20.210383	7.3	8.0	91	53		20.210409	9.9	10.0	103	61	
20.210358	4.8	6.0	82	44		20.210384	7.4	8.0	91	53		20.210410	10.0	10.0	103	61	
20.210359	4.9	6.0	82	44		20.210385	7.5	8.0	91	53		20.210411	10.1	12.0	118	71	
20.210360	5.0	6.0	82	44		20.210386	7.6	8.0	91	53		20.210412	10.2	12.0	118	71	
20.210361	5.1	6.0	82	44		20.210387	7.7	8.0	91	53		20.210413	10.3	12.0	118	71	
20.210362	5.2	6.0	82	44		20.210388	7.8	8.0	91	53		20.210414	10.4	12.0	118	71	
20.210363	5.3	6.0	82	44		20.210389	7.9	8.0	91	53		20.210415	10.5	12.0	118	71	
20.210364	5.4	6.0	82	44		20.210390	8.0	8.0	91	53		20.210416	10.6	12.0	118	71	
20.210365	5.5	6.0	82	44		20.210391	8.1	10.0	103	61		20.210417	10.7	12.0	118	71	

5021

VHM Hochleistungsbohrer zum Bohren von Stahl, legierten Stählen und Guss

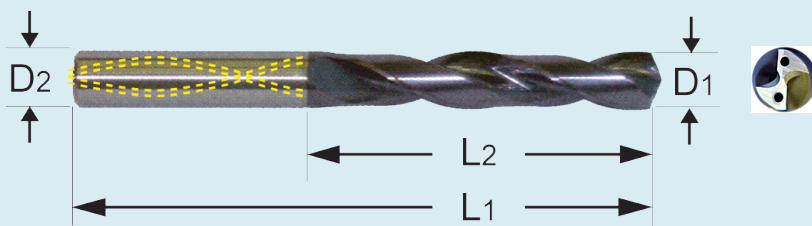


Ausführung

spiralgenutet, rechtsschneidend verstärkter Kern, spezielle Schneiden- und Nutengeometrie, mit Innenkühlung, Schaft DIN 6537-HA; HE

Beschichtung

TiAlN



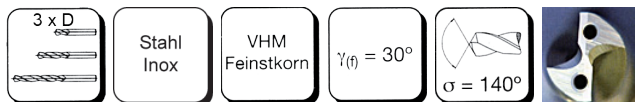
Art.-Nr.	D1 h7	D2 h6	L1	L2	Preis	Art.-Nr.	D1 h7	D2 h6	L1	L2	Preis	Art.-Nr.	D1 h7	D2 h6	L1	L2	Preis
20.210418	10.8	12.0	118	71		20.210429	11.9	12.0	118	71		20.210440	15.8	16.0	133	83	
20.210419	10.9	12.0	118	71		20.210430	12.0	12.0	118	71		20.211111	15.9	16.0	133	83	
20.210420	11.0	12.0	118	71		20.210431	12.5	14.0	124	77		20.210441	16.0	16.0	133	83	
20.210421	11.1	12.0	118	71		20.210432	12.8	14.0	124	77		20.210442	16.5	18.0	143	93	
20.210422	11.2	12.0	118	71		20.210433	13.0	14.0	124	77		20.210443	17.0	18.0	143	93	
20.210423	11.3	12.0	118	71		20.210434	13.5	14.0	124	77		20.210444	17.5	18.0	143	93	
20.210424	11.4	12.0	118	71		20.210435	13.8	14.0	124	77		20.210445	18.0	18.0	143	93	
20.210425	11.5	12.0	118	71		20.210436	14.0	14.0	124	77		20.210446	18.5	20.0	153	101	
20.210426	11.6	12.0	118	71		20.210437	14.5	16.0	133	83		20.210447	19.0	20.0	153	101	
20.210427	11.7	12.0	118	71		20.210438	14.8	16.0	133	83		20.210448	19.5	20.0	153	101	
20.210428	11.8	12.0	118	71		20.210439	15.0	16.0	133	83		20.210449	20.0	20.0	153	101	

Vorschub pro Umdrehung (mm)

Mat.	Ø 0 - 2	Ø 2 - 2.5	Ø 2.5 - 3	Ø 3 - 4	Ø 4 - 5	Ø 5 - 6	Ø 6 - 8	Ø 8 - 10	Ø 10 - 12	Ø 12 - 16	Ø 16 - 20
P1	0.080	0.100	0.125	0.160	0.160	0.200	0.250	0.315	0.315	0.400	0.500
P2	0.063	0.080	0.100	0.125	0.125	0.160	0.200	0.250	0.250	0.315	0.400
P3	0.050	0.063	0.080	0.100	0.100	0.125	0.160	0.200	0.200	0.250	0.315
M1	0.040	0.050	0.063	0.080	0.080	0.100	0.125	0.160	0.160	0.200	0.250
M2	0.032	0.040	0.050	0.063	0.063	0.080	0.100	0.125	0.125	0.160	0.200
K1	0.125	0.160	0.160	0.200	0.250	0.315	0.315	0.400	0.500	0.630	0.630
K2	0.100	0.125	0.160	0.200	0.200	0.250	0.315	0.400	0.400	0.500	0.630
N1	0.100	0.125	0.160	0.200	0.200	0.250	0.315	0.400	0.400	0.500	0.630
N2	0.125	0.160	0.160	0.200	0.250	0.315	0.315	0.400	0.500	0.630	0.630
S1	0.040	0.050	0.063	0.080	0.080	0.100	0.125	0.160	0.160	0.200	0.250
S2	0.032	0.040	0.050	0.063	0.063	0.080	0.100	0.125	0.125	0.160	0.200
H1	0.032	0.040	0.050	0.063	0.063	0.080	0.100	0.125	0.125	0.160	0.200
H2	0.025	0.032	0.040	0.050	0.050	0.063	0.080	0.100	0.100	0.125	0.160

3041

INOX VHM Hochleistungsbohrer zum Bohren von rostfreien Stählen und Titanlegierungen



Ausführung

spiralgenutet, rechtsschneidend mit Innenkühlung

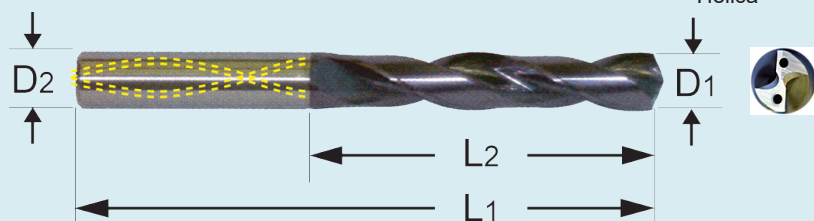
Schaft DIN 6535-HA; HB; HE

Schneidstoff

MGC 10 Feinstkorn

Beschichtung

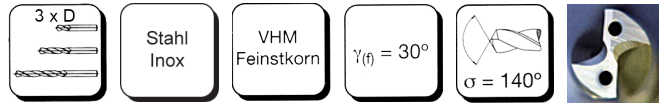
Helica



Art.-Nr.	D1 h7	D2 h6	L1	L2	Preis	Art.-Nr.	D1 h7	D2 h6	L1	L2	Preis	Art.-Nr.	D1 h7	D2 h6	L1	L2	Preis
20.210665	3.0	6.0	62	20		20.210695	6.0	6.0	66	28		20.210725	9.0	10.0	89	47	
20.210666	3.1	6.0	62	20		20.210696	6.1	8.0	79	34		20.210726	9.1	10.0	89	55	
20.210667	3.2	6.0	62	20		20.210697	6.2	8.0	79	34		20.210727	9.2	10.0	89	55	
20.210668	3.3	6.0	62	20		20.210698	6.3	8.0	79	34		20.210728	9.3	10.0	89	55	
20.210669	3.4	6.0	62	20		20.210699	6.4	8.0	79	34		20.210729	9.4	10.0	89	55	
20.210670	3.5	6.0	62	20		20.210700	6.5	8.0	79	34		20.210730	9.5	10.0	89	55	
20.210671	3.6	6.0	62	20		20.210701	6.6	8.0	79	34		20.210731	9.6	10.0	89	55	
20.210672	3.7	6.0	62	20		20.210702	6.7	8.0	79	34		20.210732	9.7	10.0	89	55	
20.210673	3.8	6.0	66	24		20.210703	6.8	8.0	79	34		20.210733	9.8	10.0	89	55	
20.210674	3.9	6.0	66	24		20.210704	6.9	8.0	79	34		20.210734	9.9	10.0	89	55	
20.210675	4.0	6.0	66	24		20.210705	7.0	8.0	79	34		20.210735	10.0	10.0	89	55	
20.210676	4.1	6.0	66	24		20.210706	7.1	8.0	79	41		20.210736	10.1	12.0	102	55	
20.210677	4.2	6.0	66	24		20.210707	7.2	8.0	79	41		20.210737	10.2	12.0	102	55	
20.210678	4.3	6.0	66	24		20.210708	7.3	8.0	79	41		20.210738	10.3	12.0	102	55	
20.210679	4.4	6.0	66	24		20.210709	7.4	8.0	79	41		20.210739	10.4	12.0	102	55	
20.210680	4.5	6.0	66	24		20.210710	7.5	8.0	79	41		20.210740	10.5	12.0	102	55	
20.210681	4.6	6.0	66	24		20.210711	7.6	8.0	79	41		20.210741	10.6	12.0	102	55	
20.210682	4.7	6.0	66	24		20.210712	7.7	8.0	79	41		20.210742	10.7	12.0	102	55	
20.210683	4.8	6.0	66	28		20.210713	7.8	8.0	79	41		20.210743	10.8	12.0	102	55	
20.210684	4.9	6.0	66	28		20.210714	7.9	8.0	79	41		20.210744	10.9	12.0	102	55	
20.210685	5.0	6.0	66	28		20.210715	8.0	8.0	79	41		20.210745	11.0	12.0	102	55	
20.210686	5.1	6.0	66	28		20.210716	8.1	10.0	89	47		20.210746	11.1	12.0	102	55	
20.210687	5.2	6.0	66	28		20.210717	8.2	10.0	89	47		20.210747	11.2	12.0	102	55	
20.210688	5.3	6.0	66	28		20.210718	8.3	10.0	89	47		20.210748	11.3	12.0	102	55	
20.210689	5.4	6.0	66	28		20.210719	8.4	10.0	89	47		20.210749	11.4	12.0	102	55	
20.210690	5.5	6.0	66	28		20.210720	8.5	10.0	89	47		20.210750	11.5	12.0	102	55	
20.210691	5.6	6.0	66	28		20.210721	8.6	10.0	89	47		20.210751	11.6	12.0	102	55	
20.210692	5.7	6.0	66	28		20.210722	8.7	10.0	89	47		20.210752	11.7	12.0	102	55	
20.210693	5.8	6.0	66	28		20.210723	8.8	10.0	89	47		20.210753	11.8	12.0	102	55	
20.210694	5.9	6.0	66	28		20.210724	8.9	10.0	89	47		20.210754	11.9	12.0	102	55	

3041

INOX VHM Hochleistungsbohrer zum Bohren von rostfreien Stählen und Titanlegierungen



Ausführung
spiralgenutet, rechtsschneidend mit Innenkühlung

Schaft DIN 6535-HA; HB; HE

Schneidstoff
MGC 10 Feinstkorn

Beschichtung
Helica

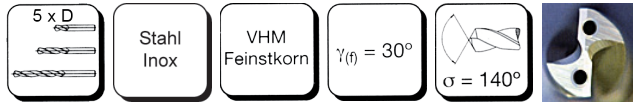
Art.-Nr.	D1 h7	D2 h6	L1	L2	Preis	Art.-Nr.	D1 h7	D2 h6	L1	L2	Preis	Art.-Nr.	D1 h7	D2 h6	L1	L2	Preis
20.210755	12.0	12.0	102	55		20.210764	14.0	14.0	107	60		20.210774	16.0	16.0	115	65	
20.211116	12.1	14.0	107	60		20.211127	14.1	14.0	107	60		20.210776	16.5	18.0	123	73	
20.210756	12.2	14.0	107	60		20.210765	14.2	16.0	115	65		20.211137	16.7	18.0	123	73	
20.211117	12.3	14.0	107	60		20.210766	14.3	16.0	115	65		20.210777	16.9	18.0	123	73	
20.211118	12.4	14.0	107	60		20.211128	14.4	16.0	115	65		20.210778	17.0	18.0	123	73	
20.210757	12.5	14.0	107	60		20.210767	14.5	16.0	115	65		20.210780	17.5	18.0	123	73	
20.211119	12.6	14.0	107	60		20.211129	14.6	16.0	115	65		20.211138	17.7	18.0	123	73	
20.210758	12.7	14.0	107	60		20.210768	14.7	16.0	115	65		20.211139	17.9	18.0	123	73	
20.210759	12.8	14.0	107	60		20.211130	14.8	16.0	115	65		20.210781	18.0	18.0	123	73	
20.211120	12.9	14.0	107	60		20.211131	14.9	16.0	115	65		20.210782	18.5	20.0	131	79	
20.210760	13.0	14.0	107	60		20.210769	15.0	16.0	115	65		20.211140	18.7	20.0	131	79	
20.211121	13.1	14.0	107	60		20.211132	15.1	16.0	115	65		20.210783	18.9	20.0	131	79	
20.211122	13.2	14.0	107	60		20.210770	15.2	16.0	115	65		20.210784	19.0	20.0	131	79	
20.210761	13.3	14.0	107	60		20.210771	15.3	16.0	115	65		20.210786	19.5	20.0	131	79	
20.211123	13.4	14.0	107	60		20.211133	15.4	16.0	115	65		20.211141	19.7	20.0	131	79	
20.210762	13.5	14.0	107	60		20.210772	15.5	16.0	115	65		20.211142	19.9	20.0	131	79	
20.211124	13.6	14.0	107	60		20.211134	15.6	16.0	115	65		20.210787	20.0	20.0	131	79	
20.210763	13.7	14.0	107	60		20.210773	15.7	16.0	115	65							
20.211125	13.8	14.0	107	60		20.211135	15.8	16.0	115	65							
20.211126	13.9	14.0	107	60		20.211136	15.9	16.0	115	65							

Material		Bohrer-Ø			
		3,0- 6	6,1-8	8,1-10	10,1-12
unleg. Stähle <500 N/mm	Vc m/min	130	130	130	130
legierte Stähle <850 N/mm	Vc m/min	100	100	100	100
VA Stähle Cr-Ni (1.4301)	Vc m/min	90	90	90	90
INOX Stähle Cr-Ni-Mo (1.4571)	Vc m/min	80	80	80	80
	f mm/Umdr.	0.127	0.166	.0202	0.240

Material		Bohrer-Ø			
		3,0- 6	6,1-8	8,1-10	10,1-12
Kaltarbeitsstahl 12% Cr (1.2379)	Vc m/min	50	50	50	50
hochwarmfeste Stähle	Vc m/min	50	50	50	50
Titan >300 HB (TiAl6V4)	Vc m/min	50	50	50	50
Nickel Leg. (Inconel 718)	Vc m/min	40	40	40	40
	f mm/Umdr.	0.127	0.166	.0202	0.240

5041

INOX VHM Hochleistungsbohrer zum Bohren von rostfreien Stählen und Titanlegierungen



Ausführung

spiralgenutet, rechtsschneidend mit Innenkühlung

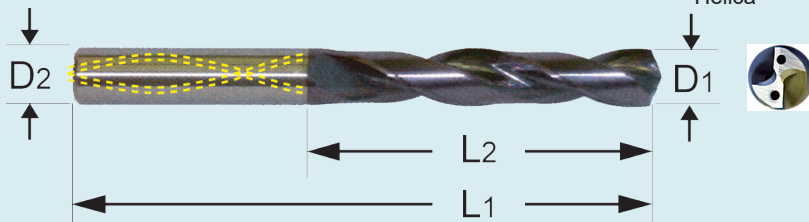
Schaft DIN 6535-HA; HB; HE

Schneidstoff

MGC 10 Feinstkorn

Beschichtung

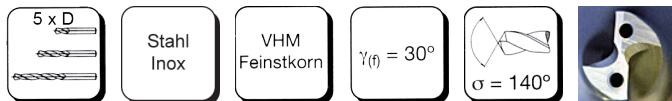
Helica



Art.-Nr.	D1 h6	D2 h6	L1	L2	Preis	Art.-Nr.	D1 h6	D2 h6	L1	L2	Preis	Art.-Nr.	D1 h6	D2 h6	L1	L2	Preis
20.210911	3.0	6.0	66	28		20.210942	6.1	8.0	91	53		20.210973	9.2	10.0	103	61	
20.210912	3.1	6.0	66	28		20.210943	6.2	8.0	91	53		20.210974	9.3	10.0	103	61	
20.210913	3.2	6.0	66	28		20.210944	6.3	8.0	91	53		20.210975	9.4	10.0	103	61	
20.210914	3.3	6.0	66	28		20.210945	6.4	8.0	91	53		20.210976	9.5	10.0	103	61	
20.210915	3.4	6.0	66	28		20.210946	6.5	8.0	91	53		20.210977	9.6	10.0	103	61	
20.210916	3.5	6.0	66	28		20.210947	6.6	8.0	91	53		20.210978	9.7	10.0	103	61	
20.210917	3.6	6.0	66	28		20.210948	6.7	8.0	91	53		20.210979	9.8	10.0	103	61	
20.210918	3.7	6.0	66	28		20.210949	6.8	8.0	91	53		20.210980	9.9	10.0	103	61	
20.210919	3.8	6.0	74	36		20.210950	6.9	8.0	91	53		20.210981	10.0	10.0	103	61	
20.210920	3.9	6.0	74	36		20.210951	7.0	8.0	91	53		20.210982	10.1	12.0	118	71	
20.210921	4.0	6.0	74	36		20.210952	7.1	8.0	91	53		20.210983	10.2	12.0	118	71	
20.210922	4.1	6.0	74	36		20.210953	7.2	8.0	91	53		20.210984	10.3	12.0	118	71	
20.210923	4.2	6.0	74	36		20.210954	7.3	8.0	91	53		20.210985	10.4	12.0	118	71	
20.210924	4.3	6.0	74	36		20.210955	7.4	8.0	91	53		20.210986	10.5	12.0	118	71	
20.210925	4.4	6.0	74	36		20.210956	7.5	8.0	91	53		20.210987	10.6	12.0	118	71	
20.210926	4.5	6.0	74	36		20.210957	7.6	8.0	91	53		20.210988	10.7	12.0	118	71	
20.210927	4.6	6.0	74	36		20.210958	7.7	8.0	91	53		20.210989	10.8	12.0	118	71	
20.210928	4.7	6.0	74	36		20.210959	7.8	8.0	91	53		20.210990	10.9	12.0	118	71	
20.210929	4.8	6.0	82	44		20.210960	7.9	8.0	91	53		20.210991	11.0	12.0	118	71	
20.210930	4.9	6.0	82	44		20.210961	8.0	8.0	91	53		20.210992	11.1	12.0	118	71	
20.210931	5.0	6.0	82	44		20.210962	8.1	10.0	103	61		20.210993	11.2	12.0	118	71	
20.210932	5.1	6.0	82	44		20.210963	8.2	10.0	103	61		20.210994	11.3	12.0	118	71	
20.210933	5.2	6.0	82	44		20.210964	8.3	10.0	103	61		20.210995	11.4	12.0	118	71	
20.210934	5.3	6.0	82	44		20.210965	8.4	10.0	103	61		20.210996	11.5	12.0	118	71	
20.210935	5.4	6.0	82	44		20.210966	8.5	10.0	103	61		20.210997	11.6	12.0	118	71	
20.210936	5.5	6.0	82	44		20.210967	8.6	10.0	103	61		20.210998	11.7	12.0	118	71	
20.210937	5.6	6.0	82	44		20.210968	8.7	10.0	103	61		20.210999	11.8	12.0	118	71	
20.210938	5.7	6.0	82	44		20.210969	8.8	10.0	103	61		20.211000	11.9	12.0	118	71	
20.210939	5.8	6.0	82	44		20.210970	8.9	10.0	103	61		20.211001	12.0	12.0	118	71	
20.210940	5.9	6.0	82	44		20.210971	9.0	10.0	103	61		20.211143	12.1	14.0	124	77	
20.210941	6.0	6.0	82	44		20.210972	9.1	10.0	103	61		20.211002	12.2	14.0	124	77	

5041

INOX VHM Hochleistungsbohrer zum Bohren von rostfreien Stählen und Titanlegierungen



Ausführung

spiralgenutet, rechtsschneidend mit Innenkühlung

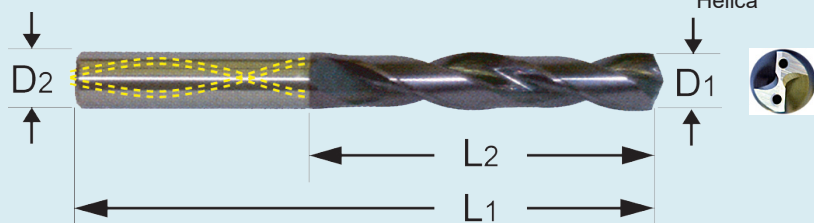
Schaft DIN 6535-HA; HB; HE

Schneidstoff

MGC 10 Feinstkorn

Beschichtung

Helica



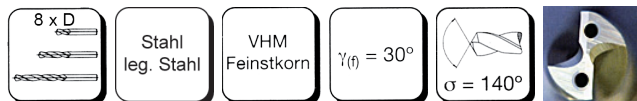
Art.-Nr.	D1 h6	D2 h6	L1	L2	Preis	Art.-Nr.	D1 h6	D2 h6	L1	L2	Preis	Art.-Nr.	D1 h6	D2 h6	L1	L2	Preis
20.211144	12.3	14.0	124	77		20.211162	14.2	16.0	133	83		20.211185	16.5	18.0	143	93	
20.211145	12.4	14.0	124	77		20.211163	14.3	16.0	133	83		20.211186	16.7	18.0	143	93	
20.211003	12.5	14.0	124	77		20.211165	14.4	16.0	133	83		20.211187	16.9	18.0	143	93	
20.211146	12.6	14.0	124	77		20.211167	14.5	16.0	133	83		20.211188	17.0	18.0	143	93	
20.211004	12.7	14.0	124	77		20.211169	14.6	16.0	133	83		20.211190	17.5	18.0	143	93	
20.211005	12.8	14.0	124	77		20.211170	14.7	16.0	133	83		20.211191	17.7	18.0	143	93	
20.211147	12.9	14.0	124	77		20.211171	14.8	16.0	133	83		20.211192	17.9	18.0	143	93	
20.211006	13.0	14.0	124	77		20.211172	14.9	16.0	133	83		20.211193	18.0	18.0	143	93	
20.211148	13.1	14.0	124	77		20.211173	15.0	16.0	133	83		20.211194	18.5	20.0	153	93	
20.211149	13.2	14.0	124	77		20.211174	15.1	16.0	133	83		20.211195	18.7	20.0	153	93	
20.211007	13.3	14.0	124	77		20.211175	15.2	16.0	133	83		20.211196	18.9	20.0	153	93	
20.211150	13.4	14.0	124	77		20.211176	15.3	16.0	133	83		20.211197	19.0	20.0	153	93	
20.211008	13.5	14.0	124	77		20.211177	15.4	16.0	133	83		20.211199	19.5	20.0	153	93	
20.211151	13.6	14.0	124	77		20.211178	15.5	16.0	133	83		20.211200	19.7	20.0	153	93	
20.211009	13.7	14.0	124	77		20.211179	15.6	16.0	133	83		20.211201	19.9	20.0	153	93	
20.211152	13.8	14.0	124	77		20.211180	15.7	16.0	133	83		20.211202	20.0	20.0	153	101	
20.211160	13.9	14.0	124	77		20.211181	15.8	16.0	133	83							
20.211010	14.0	14.0	124	77		20.211182	15.9	16.0	133	83							
20.211161	14.1	16.0	133	83		20.211183	16.0	16.0	133	83							

Material		Bohrer-Ø			
		3,0- 6	6,1-8	8,1-10	10,1-12
unleg. Stähle <500 N/mm	Vc m/min	130	130	130	130
legierte Stähle <850 N/mm	Vc m/min	100	100	100	100
VA Stähle Cr-Ni (1.4301)	Vc m/min	90	90	90	90
INOX Stähle Cr-Ni-Mo (1.4571)	Vc m/min	80	80	80	80
	f mm/Umdr.	0.127	0.166	.0202	0.240

Material		Bohrer-Ø			
		3,0- 6	6,1-8	8,1-10	10,1-12
Kaltarbeitsstahl 12% Cr (1.2379)	Vc m/min	50	50	50	50
hochwarmfeste Stähle	Vc m/min	50	50	50	50
Titan >300 HB (TiAl6V4)	Vc m/min	50	50	50	50
Nickel Leg. (Inconel 718)	Vc m/min	40	40	40	40
	f mm/Umdr.	0.127	0.166	.0202	0.240

8021

VHM Hochleistungsbohrer zum Bohren von Stahl, legierten Stählen und Guss

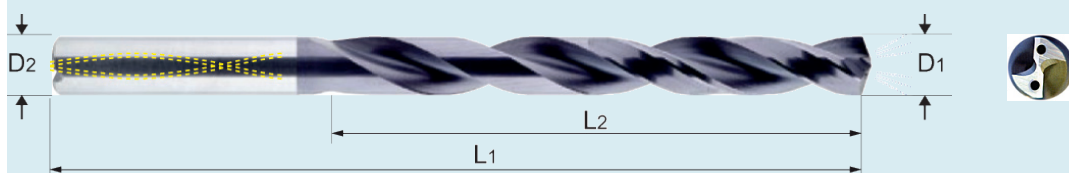


Ausführung

spiralgenutet, rechtsschneidend, 4-Führungsfasen im vorderen Bereich, spezielle Schneiden- und Nutengeometrie, mit Innenkühlung
Schaft DIN 6537-HA; HE

Beschichtung

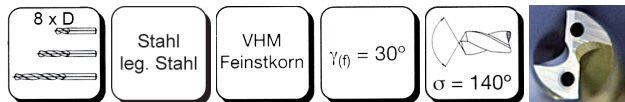
TiAlN



Art.-Nr.	D1 h7	D2 h6	L1	L2	Preis	Art.-Nr.	D1 h7	D2 h6	L1	L2	Preis	Art.-Nr.	D1 h7	D2 h6	L1	L2	Preis
20.210450	3.0	6.0	70	30		20.210477	5.7	6.0	97	57		20.210503	8.4	10.0	131	87	
20.210451	3.1	6.0	70	30		20.211157	5.8	6.0	97	57		20.210504	8.5	10.0	131	87	
20.210452	3.2	6.0	70	30		20.210478	5.9	6.0	97	57		20.210505	8.6	10.0	131	87	
20.210453	3.3	6.0	70	30		20.210479	6.0	6.0	97	57		20.210506	8.7	10.0	131	87	
20.210454	3.4	6.0	75	35		20.210480	6.1	8.0	106	66		20.210507	8.8	10.0	131	87	
20.210455	3.5	6.0	75	35		20.210481	6.2	8.0	106	66		20.210508	8.9	10.0	131	87	
20.210456	3.6	6.0	75	35		20.210482	6.3	8.0	106	66		20.210509	9.0	10.0	131	87	
20.210457	3.7	6.0	75	35		20.210483	6.4	8.0	106	66		20.210510	9.1	10.0	139	95	
20.210458	3.8	6.0	75	37		20.210484	6.5	8.0	106	66		20.210511	9.2	10.0	139	95	
20.210459	3.9	6.0	75	37		20.210485	6.6	8.0	106	66		20.210512	9.3	10.0	139	95	
20.210460	4.0	6.0	75	37		20.210486	6.7	8.0	106	66		20.210513	9.4	10.0	139	95	
20.210461	4.1	6.0	75	37		20.210487	6.8	8.0	106	66		20.210514	9.5	10.0	139	95	
20.210462	4.2	6.0	75	37		20.210488	6.9	8.0	116	76		20.210515	9.6	10.0	139	95	
20.210463	4.3	6.0	85	45		20.210489	7.0	8.0	116	76		20.210516	9.7	10.0	139	95	
20.210464	4.4	6.0	85	45		20.210490	7.1	8.0	116	76		20.210517	9.8	10.0	139	95	
20.210465	4.5	6.0	85	45		20.210491	7.2	8.0	116	76		20.210518	9.9	10.0	139	95	
20.210466	4.6	6.0	85	45		20.210492	7.3	8.0	116	76		20.210519	10.0	10.0	139	95	
20.210467	4.7	6.0	85	45		20.210493	7.4	8.0	116	76		20.210520	10.1	12.0	155	106	
20.210468	4.8	6.0	90	50		20.210494	7.5	8.0	116	76		20.210521	10.2	12.0	155	106	
20.210469	4.9	6.0	90	50		20.210495	7.6	8.0	116	76		20.210522	10.3	12.0	155	106	
20.210470	5.0	6.0	90	50		20.210496	7.7	8.0	116	76		20.210523	10.4	12.0	155	106	
20.210471	5.1	6.0	90	50		20.210497	7.8	8.0	116	76		20.210524	10.5	12.0	155	106	
20.210472	5.2	6.0	90	50		20.210498	7.9	8.0	116	76		20.210525	10.6	12.0	155	106	
20.210473	5.3	6.0	90	50		20.210499	8.0	8.0	116	76		20.210526	10.7	12.0	155	106	
20.210474	5.4	6.0	97	57		20.210500	8.1	10.0	131	87		20.210527	10.8	12.0	155	106	
20.210475	5.5	6.0	97	57		20.210501	8.2	10.0	131	87		20.210528	10.9	12.0	155	106	
20.210476	5.6	6.0	97	57		20.210502	8.3	10.0	131	87		20.210529	11.0	12.0	155	106	

8021

VHM Hochleistungsbohrer zum Bohren von Stahl, legierten Stählen und Guss

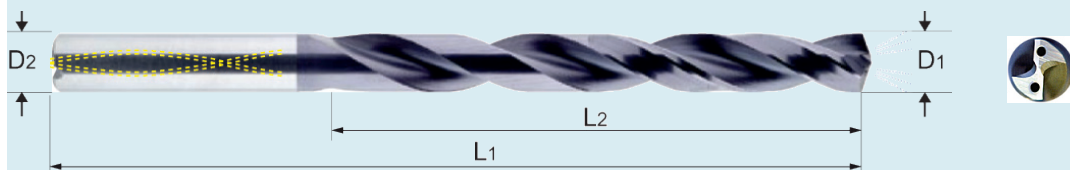


Ausführung

spiralgenutet, rechtsschneidend, 4-Führungsfasen im vorderen Bereich, spezielle Schneiden- und Nutengeometrie, mit Innenkühlung
Schaft DIN 6537-HA; HE

Beschichtung

TiAlN



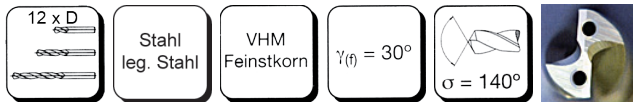
Art.-Nr.	D1 h7	D2 h6	L1	L2	Preis	Art.-Nr.	D1 h7	D2 h6	L1	L2	Preis	Art.-Nr.	D1 h7	D2 h6	L1	L2	Preis
20.210530	11.1	12.0	163	114		20.210542	12.3	14.0	182	133		20.210554	15.5	16.0	204	152	
20.210531	11.2	12.0	163	114		20.210543	12.5	14.0	182	133		20.210555	16.0	16.0	204	152	
20.210532	11.3	12.0	163	114		20.210544	12.7	14.0	182	133		20.210556	16.5	18.0	223	171	
20.210533	11.4	12.0	163	114		20.210545	13.0	14.0	182	133		20.210557	16.9	18.0	223	171	
20.210534	11.5	12.0	163	114		20.210546	13.1	14.0	182	133		20.210558	17.0	18.0	223	171	
20.210535	11.6	12.0	163	114		20.210547	13.5	14.0	182	133		20.210559	17.5	18.0	223	171	
20.210536	11.7	12.0	163	114		20.210548	14.0	14.0	182	133		20.210560	18.0	18.0	223	171	
20.210537	11.8	12.0	163	114		20.210549	14.1	16.0	204	152		20.210561	18.5	20.0	244	190	
20.210538	11.9	12.0	163	114		20.210550	14.2	16.0	204	152		20.210562	18.9	20.0	244	190	
20.210539	12.0	12.0	163	114		20.210551	14.5	16.0	204	152		20.210563	19.0	20.0	244	190	
20.210540	12.1	14.0	182	133		20.210552	15.0	16.0	204	152		20.210564	19.5	20.0	244	190	
20.210541	12.2	14.0	182	133		20.210553	15.1	16.0	204	152		20.210565	20.0	20.0	244	190	

Vorschub pro Umdrehung (mm)

Mat.	Ø 0 - 2	Ø 2 - 2.5	Ø 2.5 - 3	Ø 3 - 4	Ø 4 - 5	Ø 5 - 6	Ø 6 - 8	Ø 8 - 10	Ø 10 - 12	Ø 12 - 16	Ø 16 - 20
P1	0.080	0.100	0.125	0.160	0.160	0.200	0.250	0.315	0.315	0.400	0.500
P2	0.063	0.080	0.100	0.125	0.125	0.160	0.200	0.250	0.250	0.315	0.400
P3	0.050	0.063	0.080	0.100	0.100	0.125	0.160	0.200	0.200	0.250	0.315
M1	0.040	0.050	0.063	0.080	0.080	0.100	0.125	0.160	0.160	0.200	0.250
M2	0.032	0.040	0.050	0.063	0.063	0.080	0.100	0.125	0.125	0.160	0.200
K1	0.125	0.160	0.160	0.200	0.250	0.315	0.315	0.400	0.500	0.630	0.630
K2	0.100	0.125	0.160	0.200	0.200	0.250	0.315	0.400	0.400	0.500	0.630
N1	0.100	0.125	0.160	0.200	0.200	0.250	0.315	0.400	0.400	0.500	0.630
N2	0.125	0.160	0.160	0.200	0.250	0.315	0.315	0.400	0.500	0.630	0.630
S1	0.040	0.050	0.063	0.080	0.080	0.100	0.125	0.160	0.160	0.200	0.250
S2	0.032	0.040	0.050	0.063	0.063	0.080	0.100	0.125	0.125	0.160	0.200
H1	0.032	0.040	0.050	0.063	0.063	0.080	0.100	0.125	0.125	0.160	0.200
H2	0.025	0.032	0.040	0.050	0.050	0.063	0.080	0.100	0.100	0.125	0.160

12021

VHM Hochleistungsbohrer zum Bohren von Stahl, legierten Stählen und Guss

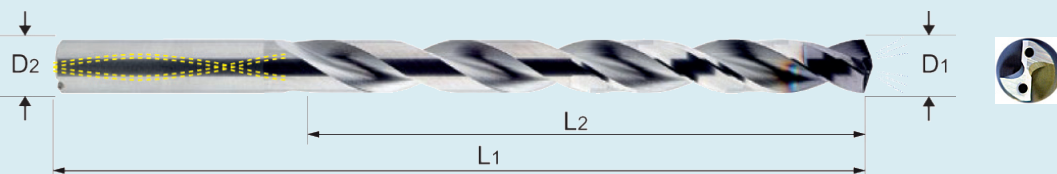


Ausführung

spiralgenutet, rechtsschneidend, 4-Führungsfasen im vorderen Bereich, spezielle Schneiden- und Nutengeometrie, mit Innenkühlung
Schaft DIN 6537-HA; HE

Beschichtung

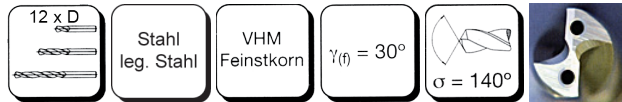
TiAlN



Art.-Nr.	D1 h7	D2 h6	L1	L2	Preis	Art.-Nr.	D1 h7	D2 h6	L1	L2	Preis	Art.-Nr.	D1 h7	D2 h6	L1	L2	Preis
20.210566	3.0	6.0	90	50		20.210594	5.8	6.0	116	78		20.210622	8.6	10.0	162	120	
20.210567	3.1	6.0	90	50		20.210595	5.9	6.0	116	78		20.210623	8.7	10.0	162	120	
20.210568	3.2	6.0	90	50		20.210596	6.0	6.0	116	78		20.210624	8.8	10.0	162	120	
20.210569	3.3	6.0	90	50		20.210597	6.1	8.0	146	108		20.210625	8.9	10.0	162	120	
20.210570	3.4	6.0	90	50		20.210598	6.2	8.0	146	108		20.210626	9.0	10.0	162	120	
20.210571	3.5	6.0	90	50		20.210599	6.3	8.0	146	108		20.210627	9.1	10.0	162	120	
20.210572	3.6	6.0	90	50		20.210600	6.4	8.0	146	108		20.210628	9.2	10.0	162	120	
20.210573	3.7	6.0	90	50		20.210601	6.5	8.0	146	108		20.210629	9.3	10.0	162	120	
20.210574	3.8	6.0	102	64		20.210602	6.6	8.0	146	108		20.210630	9.4	10.0	162	120	
20.210575	3.9	6.0	102	64		20.210603	6.7	8.0	146	108		20.210631	9.5	10.0	162	120	
20.210576	4.0	6.0	102	64		20.210604	6.8	8.0	146	108		20.210632	9.6	10.0	162	120	
20.210577	4.1	6.0	102	64		20.210605	6.9	8.0	146	108		20.210633	9.7	10.0	162	120	
20.210578	4.2	6.0	102	64		20.210606	7.0	8.0	146	108		20.210634	9.8	10.0	162	120	
20.210579	4.3	6.0	102	64		20.210607	7.1	8.0	146	108		20.210635	9.9	10.0	162	120	
20.210580	4.4	6.0	102	64		20.210608	7.2	8.0	146	108		20.210636	10.0	10.0	162	120	
20.210581	4.5	6.0	102	64		20.210609	7.3	8.0	146	108		20.210638	10.2	12.0	204	156	
20.210582	4.6	6.0	102	64		20.210610	7.4	8.0	146	108		20.210640	10.5	12.0	204	156	
20.210583	4.7	6.0	102	64		20.210611	7.5	8.0	146	108		20.210644	11.0	12.0	204	156	
20.210584	4.8	6.0	116	78		20.210612	7.6	8.0	146	108		20.210645	11.5	12.0	204	156	
20.210585	4.9	6.0	116	78		20.210613	7.7	8.0	146	108		20.210646	12.0	12.0	204	156	
20.210586	5.0	6.0	116	78		20.210614	7.8	8.0	146	108		20.210648	12.5	14.0	230	182	
20.210587	5.1	6.0	116	78		20.210615	7.9	8.0	146	108		20.210649	12.7	14.0	230	182	
20.210588	5.2	6.0	116	78		20.210616	8.0	8.0	146	108		20.210650	13.0	14.0	230	182	
20.210589	5.3	6.0	116	78		20.210617	8.1	10.0	162	120		20.210651	13.5	14.0	230	182	
20.210590	5.4	6.0	116	78		20.210618	8.2	10.0	162	120		20.210652	14.0	14.0	230	182	
20.210591	5.5	6.0	116	78		20.210619	8.3	10.0	162	120		20.210653	14.5	16.0	260	208	
20.210592	5.6	6.0	116	78		20.210620	8.4	10.0	162	120		20.210654	15.0	16.0	260	208	
20.210593	5.7	6.0	116	78		20.210621	8.5	10.0	162	120		20.210655	15.5	16.0	260	208	

12021

VHM Hochleistungsbohrer zum Bohren von Stahl, legierten Stählen und Guss

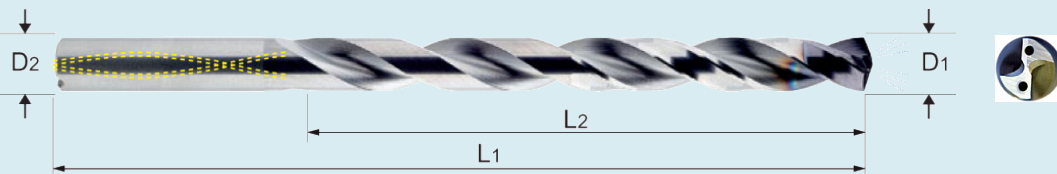


Ausführung

spiralgenutet, rechtsschneidend, 4-Führungsfasen im vorderen Bereich, spezielle Schneiden- und Nutengeometrie, mit Innenkühlung
Schaft DIN 6537-HA; HE

Beschichtung

TiAlN



Art.-Nr.	D1 h7	D2 h6	L1	L2	Preis	Art.-Nr.	D1 h7	D2 h6	L1	L2	Preis	Art.-Nr.	D1 h7	D2 h6	L1	L2	Preis
20.210656	16.0	16.0	260	208		20.210659	17.5	18.0	285	234		20.210662	19.0	20.0	310	258	
20.210657	16.5	18.0	285	234		20.210660	18.0	18.0	285	234		20.210663	19.5	20.0	310	258	
20.210658	17.0	18.0	285	234		20.210661	18.5	20.0	310	258		20.210664	20.0	20.0	310	258	

	Material	Zugfestigkeit Rm(N/mm²)	Härte (HB/HRC)	Schnittgeschwindigkeit VC (m/min)		
P1	Kohlenstoff Stahl	<600	<230	80	90	100
P2	Legierter Stahl	<1200	<350	70	80	90
P3	Hochlegierter Stahl und Werkzeugstahl	<1400	<380	40	50	60
M1	Austenitisch und ferritischer rostfreier Stahl	<680	<220	30	40	50
M2	Martensitisch rostfreier Stahl	<820	<240	30	40	50
K1	Grauguss	-	<280	100	120	140
K2	Sphäroguss	-	<320	70	80	90
N1	Nichteisenmetalle	<250	<110	-	-	-
N2	Aluminiumlegierungen	<530	<130	-	-	-
S1	Hochtemperatur Legierungen (Eisen, Nickel, Kobalt)	<3300	<350	30	40	50
S2	Titanium Legierungen (Alpha und Beta)	<2100	<400	-	-	-
H1	Gehärteter Stahl	-	<54 HRC	-	-	-
H2		-	52-60 HRC	-	-	-

Vorschub pro Umdrehung (mm)

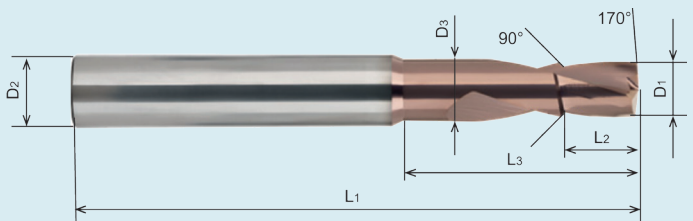
Mat.	Ø 0 - 2	Ø 2 - 2.5	Ø 2.5 - 3	Ø 3 - 4	Ø 4 - 5	Ø 5 - 6	Ø 6 - 8	Ø 8 - 10	Ø 10 - 12	Ø 12 - 16	Ø 16 - 20
P1	0.080	0.100	0.125	0.160	0.160	0.200	0.250	0.315	0.315	0.400	0.500
P2	0.063	0.080	0.100	0.125	0.125	0.160	0.200	0.250	0.250	0.315	0.400
P3	0.050	0.063	0.080	0.100	0.100	0.125	0.160	0.200	0.200	0.250	0.315
M1	0.040	0.050	0.063	0.080	0.080	0.100	0.125	0.160	0.160	0.200	0.250
M2	0.032	0.040	0.050	0.063	0.063	0.080	0.100	0.125	0.125	0.160	0.200
K1	0.125	0.160	0.160	0.200	0.250	0.315	0.315	0.400	0.500	0.630	0.630
K2	0.100	0.125	0.160	0.200	0.200	0.250	0.315	0.400	0.400	0.500	0.630
N1	0.100	0.125	0.160	0.200	0.200	0.250	0.315	0.400	0.400	0.500	0.630
N2	0.125	0.160	0.160	0.200	0.250	0.315	0.315	0.400	0.500	0.630	0.630
S1	0.040	0.050	0.063	0.080	0.080	0.100	0.125	0.160	0.160	0.200	0.250
S2	0.032	0.040	0.050	0.063	0.063	0.080	0.100	0.125	0.125	0.160	0.200
H1	0.032	0.040	0.050	0.063	0.063	0.080	0.100	0.125	0.125	0.160	0.200
H2	0.025	0.032	0.040	0.050	0.050	0.063	0.080	0.100	0.100	0.125	0.160

AD.90.170 VHM Pilotbohrer (Actiondrill)
vorwiegend zum Bohren von INOX und Titan



Kurzbeschreibung

- 45° Fase + selbstzentrierend
- 170° 2xD
- Die 170° Spitzengeometrie ermöglicht auf schrägen, runden oder gewölbten Flächen mit hoher Positionsgenauigkeit zu bohren.
- Das Anspiegeln ist mit diesem Bohrer nicht mehr nötig
- 2x schneller Bohren auf schrägen Flächen gegenüber 180° Flachbohrer

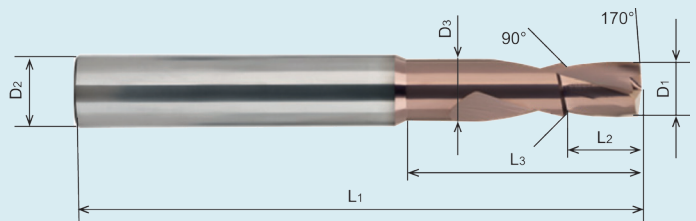


Art.-Nr.	D1 k6	D2 h6	D3	L1	L2	L3	Preis	Art.-Nr.	D1 k6	D2 h6	D3	L1	L2	L3	Preis
20.500000	0.30	4	0.70	55	0.60	2.30		20.500032	1.90	4	2.50	55	3.80	11.40	
20.500001	0.35	4	0.75	55	0.70	2.55		20.500033	1.95	4	2.55	55	3.90	11.50	
20.500002	0.40	4	0.80	55	0.80	2.80		20.500034	2.00	4	2.60	60	4.00	11.60	
20.500003	0.45	4	0.85	55	0.90	3.05		20.500035	2.05	4	2.85	60	4.10	11.70	
20.500004	0.50	4	0.90	55	1.00	3.30		20.500036	2.10	4	2.90	60	4.20	11.80	
20.500005	0.55	4	0.95	55	1.10	3.55		20.500037	2.15	4	2.95	60	4.30	11.90	
20.500006	0.60	4	1.00	55	1.20	3.80		20.500038	2.20	4	3.00	60	4.40	13.80	
20.500007	0.65	4	1.05	55	1.30	4.05		20.500039	2.25	4	3.05	60	4.50	13.90	
20.500008	0.70	4	1.10	55	1.40	4.30		20.500040	2.30	4	3.10	60	4.60	14.00	
20.500009	0.75	4	1.15	55	1.50	4.55		20.500041	2.35	4	3.15	60	4.70	14.10	
20.500010	0.80	4	1.20	55	1.60	4.80		20.500844	2.38	4	3.20	60	4.76	14.20	
20.500011	0.85	4	1.25	55	1.70	5.05		20.500042	2.40	4	3.20	60	4.80	14.20	
20.500012	0.90	4	1.30	55	1.80	5.30		20.500043	2.45	4	3.25	60	4.90	14.40	
20.500013	0.95	4	1.35	55	1.90	5.55		20.500044	2.50	4	3.30	60	5.00	14.50	
20.500014	1.00	4	1.60	55	2.00	6.70		20.500045	2.55	4	3.35	60	5.10	14.60	
20.500015	1.05	4	1.65	55	2.10	6.80		20.500046	2.60	4	3.40	60	5.20	14.70	
20.500016	1.10	4	1.70	55	2.20	7.00		20.500047	2.65	4	3.45	60	5.30	15.70	
20.500017	1.15	4	1.75	55	2.30	7.10		20.500048	2.70	4	3.50	60	5.40	15.80	
20.500018	1.20	4	1.80	55	2.40	7.20		20.500049	2.75	4	3.55	60	5.50	15.90	
20.500019	1.25	4	1.85	55	2.50	8.20		20.500050	2.80	4	3.60	60	5.60	16.00	
20.500020	1.30	4	1.90	55	2.60	8.30		20.500051	2.85	4	3.65	60	5.70	16.10	
20.500021	1.35	4	1.95	55	2.70	8.40		20.500052	2.90	4	3.70	60	5.80	16.20	
20.500022	1.40	4	2.00	55	2.80	8.50		20.500053	2.95	4	6.75	60	5.90	16.40	
20.500023	1.45	4	2.05	55	2.90	8.60		20.500054	3.00	4	3.80	60	6.00	17.20	
20.500024	1.50	4	2.10	55	3.00	9.60		20.500055	3.10	4	3.90	60	6.20	17.40	
20.500025	1.55	4	2.15	55	3.10	9.70		20.500846	3.18	4	4.00	65	6.35	17.70	
20.500842	1.59	4	2.20	55	3.17	9.80		20.500056	3.20	4	4.00	65	6.40	17.70	
20.500026	1.60	4	2.20	55	3.20	9.80		20.500057	3.30	6	4.10	65	6.60	17.90	
20.500027	1.65	4	2.25	55	3.30	9.90		20.500058	3.40	6	4.20	65	6.80	18.10	
20.500028	1.70	4	2.30	55	3.40	10.10		20.500059	3.50	6	4.30	65	7.00	18.30	
20.500029	1.75	4	2.35	55	3.50	10.20		20.500060	3.60	6	4.40	65	7.20	18.60	
20.500030	1.80	4	2.40	55	3.60	11.10		20.500061	3.70	6	4.50	65	7.40	18.80	
20.500031	1.85	4	2.45	55	3.70	11.30		20.500062	3.80	6	4.60	65	7.60	19.00	

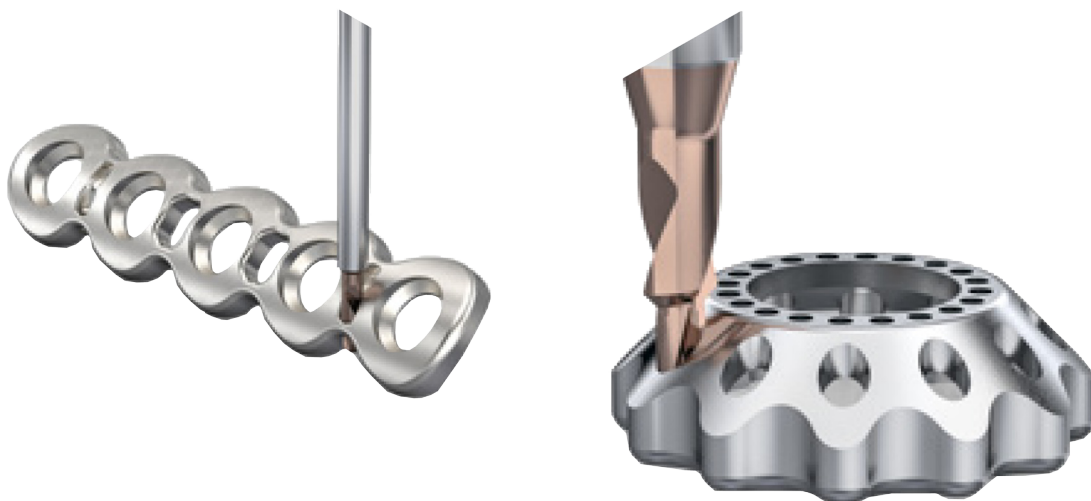
AD.90.170 VHM Pilotbohrer (Actiondrill)
vorwiegend zum Bohren von INOX und Titan

Kurzbeschreibung

- 45° Fase + selbstzentrierend
- 170° 2xD
- Die 170° Spitzegeometrie ermöglicht auf schrägen, runden oder gewölbten Flächen mit hoher Positionsgenauigkeit zu bohren.
- Das Anspiegeln ist mit diesem Bohrer nicht mehr nötig
- 2x schneller Bohren auf schrägen Flächen gegenüber 180° Flachbohrer



Art.-Nr.	D1 k6	D2 h6	D3	L1	L2	L3	Preis	Art.-Nr.	D1 k6	D2 h6	D3	L1	L2	L3	Preis
20.500063	3.90	6	4.70	65	7.80	19.20		20.500074	5.00	6	6.00	70	10.00	27.70	
20.500848	3.97	6	4.80	65	7.94	19.50		20.500075	5.10	8	6.10	70	10.20	27.90	
20.500064	4.00	6	4.80	65	8.00	19.50		20.500076	5.20	8	6.20	70	10.40	28.00	
20.500065	4.10	6	5.10	65	8.20	21.30		20.500077	5.30	8	6.30	70	10.60	28.10	
20.500066	4.20	6	5.20	65	8.40	21.00		20.500078	5.40	8	6.40	70	10.80	28.30	
20.500067	4.30	6	5.30	65	8.60	21.60		20.500079	5.50	8	6.50	70	11.00	28.40	
20.500068	4.40	6	5.40	65	8.80	21.70		20.500852	5.56	8	6.60	70	11.12	28.60	
20.500069	4.50	6	5.50	70	9.00	27.00		20.500080	5.60	8	6.60	70	11.20	28.60	
20.500070	4.60	6	5.60	70	9.20	27.10		20.500081	5.70	8	6.70	70	11.40	28.70	
20.500071	4.70	6	5.70	70	9.40	27.30		20.500082	5.80	8	6.80	70	11.60	28.90	
20.500850	4.76	6	5.80	70	9.52	27.40		20.500083	5.90	8	6.90	70	11.80	29.00	
20.500072	4.80	6	5.80	70	9.60	27.40		20.500084	6.00	8	7.00	70	12.00	29.10	
20.500073	4.90	6	5.90	70	9.80	27.60		20.500854	6.35	8	7.40	70	12.70	30.00	

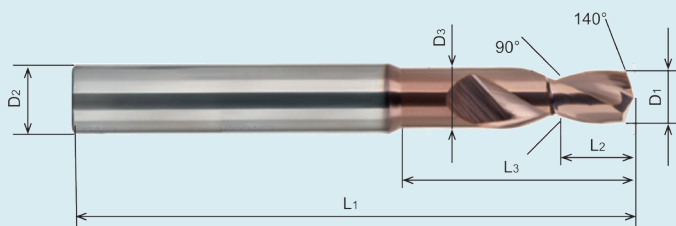


AD.90.140 VHM Pilotbohrer (Actiondrill)
vorwiegend zum Bohren von INOX und Titan



Kurzbeschreibung

- 45° Fase + selbstzentrierend
- 140° 2xD
- Die 140° Spitzengeometrie
- Pilotbohrer mit k6 Toleranz
- Zentrieren, Bohren und Senken mit einem Werkzeug

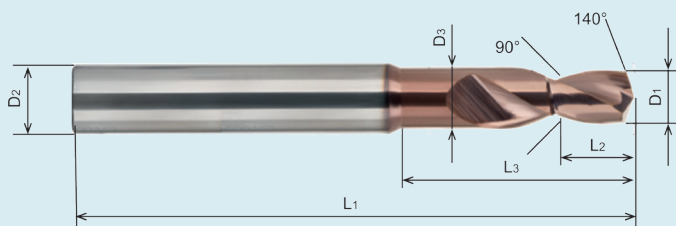


Art.-Nr.	D1 k6	D2 h6	D3	L1	L2	L3	Preis	Art.-Nr.	D1 k6	D2 h6	D3	L1	L2	L3	Preis
20.500085	1.00	4	1.60	55	2.00	6.70		20.500114	2.45	4	3.25	60	4.90	14.40	
20.500086	1.05	4	1.65	55	2.10	6.80		20.500115	2.50	4	3.30	60	5.00	14.50	
20.500087	1.10	4	1.70	55	2.20	7.00		20.500116	2.55	4	3.35	60	5.10	14.60	
20.500088	1.15	4	1.75	55	2.30	7.10		20.500117	2.60	4	3.40	60	5.20	14.70	
20.500089	1.20	4	1.80	55	2.40	7.20		20.500118	2.65	4	3.45	60	5.30	15.70	
20.500090	1.25	4	1.85	55	2.50	8.20		20.500119	2.70	4	3.50	60	5.40	15.80	
20.500091	1.30	4	1.90	55	2.60	8.30		20.500120	2.75	4	3.55	60	5.50	15.90	
20.500092	1.35	4	1.95	55	2.70	8.40		20.500121	2.80	4	3.60	60	5.60	16.00	
20.500093	1.40	4	2.00	55	2.80	8.50		20.500122	2.85	4	3.65	60	5.70	16.10	
20.500094	1.45	4	2.05	55	2.90	8.60		20.500123	2.90	4	3.70	60	5.80	16.20	
20.500095	1.50	4	2.10	55	3.00	9.60		20.500124	2.95	4	3.75	60	5.90	16.40	
20.500096	1.55	4	2.15	55	3.10	9.70		20.500125	3.00	4	3.80	65	6.00	17.20	
20.500840	1.59	4	2.20	55	3.17	9.80		20.500126	3.10	4	3.90	65	6.20	17.40	
20.500097	1.60	4	2.20	55	3.20	9.80		20.500845	3.18	4	4.00	65	6.35	17.70	
20.500098	1.65	4	2.25	55	3.30	9.90		20.500127	3.20	4	4.00	65	6.40	17.70	
20.500099	1.70	4	2.30	55	3.40	10.10		20.500128	3.30	6	4.10	65	6.60	17.90	
20.500100	1.75	4	2.35	55	3.50	10.20		20.500129	3.40	6	4.20	65	6.80	18.10	
20.500101	1.80	4	2.40	55	3.60	11.10		20.500130	3.50	6	4.30	65	7.00	18.30	
20.500102	1.85	4	2.45	55	3.70	11.30		20.500131	3.60	6	4.40	65	7.20	18.60	
20.500103	1.90	4	2.50	55	3.80	11.40		20.500132	3.70	6	4.50	65	7.40	18.80	
20.500104	1.95	4	2.55	55	3.90	11.50		20.500133	3.80	6	4.60	65	7.60	19.00	
20.500105	2.00	4	2.60	60	4.00	11.60		20.500134	3.90	6	4.70	65	7.80	19.20	
20.500106	2.05	4	2.85	60	4.10	11.70		20.500847	3.97	6	4.80	65	7.94	19.50	
20.500107	2.10	4	2.90	60	4.20	11.80		20.500135	4.00	6	4.80	65	8.00	19.50	
20.500108	2.15	4	2.95	60	4.30	11.90		20.500136	4.10	6	5.10	65	8.20	21.30	
20.500109	2.20	4	3.00	60	4.40	13.80		20.500137	4.20	6	5.20	65	8.40	21.00	
20.500110	2.25	4	3.05	60	4.50	13.90		20.500138	4.30	6	5.30	65	8.60	21.60	
20.500111	2.30	4	3.10	60	4.60	14.00		20.500139	4.40	6	5.40	65	8.80	21.70	
20.500112	2.35	4	3.15	60	4.70	14.10		20.500140	4.50	6	5.50	70	9.00	27.00	
20.500843	2.38	4	3.20	60	4.76	14.20		20.500141	4.60	6	5.60	70	9.20	27.10	
20.500113	2.40	4	3.20	60	4.80	14.20		20.500142	4.70	6	5.70	70	9.40	27.30	

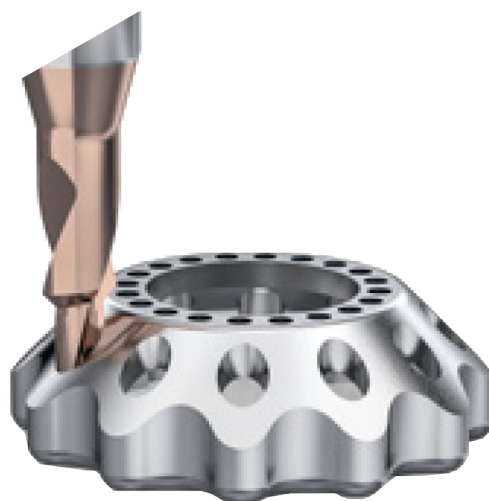
AD.90.140 VHM Pilotbohrer (Actiondrill)
vorwiegend zum Bohren von INOX und Titan

Kurzbeschreibung

- 45° Fase + selbstzentrierend
- 140° 2xD
- Die 140° Spitzengeometrie
- Pilotbohrer mit k6 Toleranz
- Zentrieren, Bohren und Senken mit einem Werkzeug



Art.-Nr.	D1 k6	D2 h6	D3	L1	L2	L3	Preis	Art.-Nr.	D1 k6	D2 h6	D3	L1	L2	L3	Preis
20.500849	4.76	6	5.80	70	9.52	27.40		20.500150	5.50	8	6.50	70	11.00	28.40	
20.500143	4.80	6	5.80	70	9.60	27.40		20.500851	5.56	8	6.60	70	11.12	28.60	
20.500144	4.90	6	5.90	70	9.80	27.60		20.500151	5.60	8	6.60	70	11.20	28.60	
20.500145	5.00	6	6.00	70	10.00	27.70		20.500152	5.70	8	6.70	70	11.40	28.70	
20.500146	5.10	8	6.10	70	10.20	27.90		20.500153	5.80	8	6.80	70	11.60	28.90	
20.500147	5.20	8	6.20	70	10.40	28.00		20.500154	5.90	8	6.90	70	11.80	29.00	
20.500148	5.30	8	6.30	70	10.60	28.10		20.500155	6.00	8	7.00	70	12.00	29.10	
20.500149	5.40	8	6.40	70	10.80	28.30		20.500853	6.35	8	7.40	70	12.70	30.00	

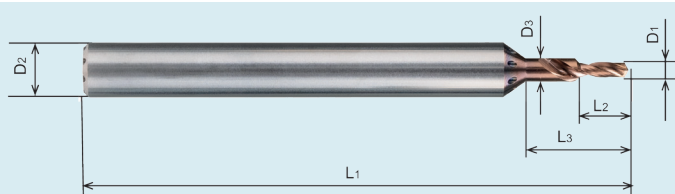


AD.90.3xDIK VHM Pilotbohrer 3xD (Actiondrill)
vorwiegend zum Bohren von INOX und Titan



Kurzbeschreibung

- 45° Fase
- 3xD-micro-Stufenbohrer
- 140° Spitzengeometrie
- Integrierte Kühlung auf einem Teilkreis durch den Schaft
- Zentrieren + Bohren + Fasen



Art.-Nr.	D1 k6	D2 h6	D3	L1	L2	L3	Preis	Art.-Nr.	D1 k6	D2 h6	D3	L1	L2	L3	Preis
20.500156	0.30	4	0.70	40	0.90	3.30		20.500174	1.20	4	1.80	50	3.60	8.40	
20.500157	0.35	4	0.75	40	1.05	3.40		20.500175	1.25	4	1.85	50	3.75	8.80	
20.500158	0.40	4	0.80	40	1.20	3.60		20.500176	1.30	4	1.90	50	3.90	9.10	
20.500159	0.45	4	0.85	40	1.35	3.80		20.500177	1.35	4	1.95	50	4.05	9.30	
20.500160	0.50	4	0.90	40	1.50	4.00		20.500178	1.40	4	2.00	50	4.20	9.40	
20.500161	0.55	4	0.95	40	1.65	4.20		20.500179	1.45	4	2.05	50	4.35	9.60	
20.500162	0.60	4	1.00	40	1.80	4.40		20.500180	1.50	4	2.10	50	4.50	9.70	
20.500163	0.65	4	1.05	40	1.95	4.70		20.500181	1.55	4	2.15	50	4.65	10.00	
20.500164	0.70	4	1.10	40	2.10	5.00		20.500182	1.60	4	2.20	50	4.80	10.20	
20.500165	0.75	4	1.15	40	2.25	5.30		20.500183	1.65	4	2.25	50	4.95	10.50	
20.500166	0.80	4	1.20	40	2.40	5.60		20.500184	1.70	4	2.30	50	5.10	10.80	
20.500167	0.85	4	1.25	40	2.55	6.00		20.500185	1.75	4	2.35	50	5.25	11.10	
20.500168	0.90	4	1.30	40	2.70	6.30		20.500186	1.80	4	2.40	50	5.40	11.40	
20.500169	0.95	4	1.35	40	2.85	6.70		20.500187	1.85	4	2.45	50	5.55	11.70	
20.500170	1.00	4	1.60	50	3.00	7.10		20.500188	1.90	4	2.50	50	5.70	12.00	
20.500171	1.05	4	1.65	50	3.15	7.40		20.500189	1.95	4	2.55	50	5.85	12.30	
20.500172	1.10	4	1.70	50	3.30	7.60		20.500190	2.00	4	2.60	50	6.00	12.60	
20.500173	1.15	4	1.75	50	3.45	8.00									

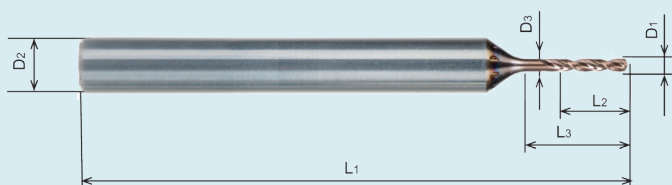
AD.6xD.IK

VHM Bohrer 8xD (Actiondrill)
vorwiegend zum Bohren von INOX und Titan



Kurzbeschreibung

- 140° Spitzengeometrie
- Integrierte Kühlung auf einem Teilkreis durch den Schaft
- 8xD micro Bohrer



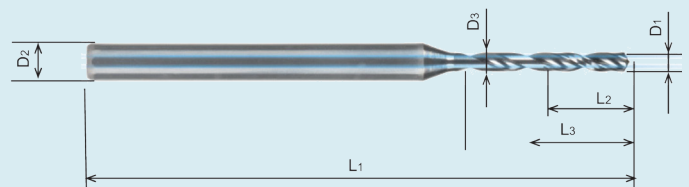
Art.-Nr.	D1 k6	D2 h6	D3	L1	L2	L3	Preis	Art.-Nr.	D1 k6	D2 h6	D3	L1	L2	L3	Preis
20.500191	0.30	4		40	1.80	2.10		20.500209	1.20	4		50	7.20	8.40	
20.500192	0.35	4		40	2.10	2.45		20.500210	1.25	4		50	7.50	8.75	
20.500193	0.40	4		40	2.40	2.80		20.500211	1.30	4		50	7.80	9.10	
20.500194	0.45	4		40	2.70	3.15		20.500212	1.35	4		50	8.10	9.45	
20.500195	0.50	4		40	3.00	3.50		20.500213	1.40	4		50	8.40	9.80	
20.500196	0.55	4		40	3.30	3.85		20.500214	1.45	4		50	8.70	10.15	
20.500197	0.60	4		40	3.60	4.20		20.500215	1.50	4		50	9.00	10.50	
20.500198	0.65	4		40	3.90	4.55		20.500216	1.55	4		50	9.30	10.85	
20.500199	0.70	4		40	4.20	4.90		20.500217	1.60	4		50	9.60	11.20	
20.500200	0.75	4		40	4.50	5.25		20.500218	1.65	4		50	9.90	11.55	
20.500201	0.80	4		40	4.80	5.60		20.500219	1.70	4		50	10.20	11.90	
20.500202	0.85	4		40	5.10	5.95		20.500220	1.75	4		50	10.50	12.25	
20.500203	0.90	4		40	5.40	6.30		20.500221	1.80	4		50	10.80	12.60	
20.500204	0.95	4		40	5.70	6.65		20.500222	1.85	4		50	11.10	12.95	
20.500205	1.00	4		50	6.00	7.00		20.500223	1.90	4		50	11.40	13.30	
20.500206	1.05	4		50	6.30	7.35		20.500224	1.95	4		50	11.70	13.65	
20.500207	1.10	4		50	6.60	7.70		20.500225	2.00	4		50	12.00	14.00	
20.500208	1.15	4		50	6.90	8.05									

TD.6xD.IK VHM Pilotbohrer (Actiondrill)
vorwiegend zum Bohren von INOX und Titan



Kurzbeschreibung

- Selbstzentrierend
- Perfekte Fluchtgenauigkeit 6xD mit 4 Fasen
- Hohe Schnitt- und Vorschubgeschwindigkeit möglich
- Hohe Leistungsfähigkeit & Positionsgenauigkeit
- Ein Plus für Ihre Prozesssicherheit und Qualität



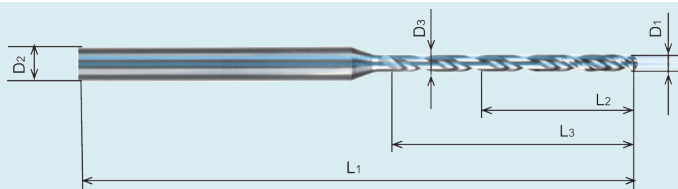
Art.-Nr.	D1 k5	D2 h6	L1	L2	L3	Preis	Art.-Nr.	D1 k5	D2 h6	L1	L2	L3	Preis
20.500226	1.00	3.0	50	4.40	9.30		20.500257	2.55	4.0	65	11.25	23.70	
20.500227	1.05	3.0	50	4.65	9.80		20.500258	2.60	4.0	65	11.45	24.20	
20.500228	1.10	3.0	50	4.85	10.20		20.500259	2.65	4.0	65	11.70	24.60	
20.500229	1.15	3.0	50	5.10	10.70		20.500260	2.70	4.0	65	11.90	25.10	
20.500230	1.20	3.0	50	5.30	11.20		20.500261	2.75	4.0	65	12.10	25.60	
20.500231	1.25	3.0	50	5.50	11.60		20.500262	2.80	4.0	67	12.35	26.00	
20.500232	1.30	3.0	52	5.75	12.10		20.500263	2.85	4.0	67	12.55	26.50	
20.500233	1.35	3.0	52	5.95	12.60		20.500264	2.90	4.0	67	12.80	27.00	
20.500234	1.40	3.0	52	6.20	13.00		20.500265	2.95	4.0	67	13.00	27.40	
20.500235	1.45	3.0	52	6.40	13.50		20.500266	3.00	6.0	70	13.20	27.90	
20.500236	1.50	3.0	52	6.60	13.90		20.500267	3.05	6.0	70	13.45	28.40	
20.500237	1.55	3.0	55	6.85	14.40		20.500268	3.10	6.0	70	13.65	28.80	
20.500238	1.60	3.0	55	7.05	14.90		20.500269	3.15	6.0	70	13.90	29.30	
20.500239	1.65	3.0	55	7.30	15.30		20.500270	3.20	6.0	70	14.10	29.80	
20.500240	1.70	3.0	55	7.50	15.80		20.500271	3.25	6.0	70	14.30	30.20	
20.500241	1.75	3.0	55	7.70	16.30		20.500272	3.30	6.0	72	14.55	30.70	
20.500242	1.80	3.0	57	7.95	16.70		20.500273	3.35	6.0	72	14.75	31.20	
20.500243	1.85	3.0	57	8.15	17.20		20.500274	3.40	6.0	72	15.00	31.60	
20.500244	1.90	3.0	57	8.40	17.70		20.500275	3.45	6.0	72	15.20	32.10	
20.500245	1.95	3.0	57	8.60	18.10		20.500276	3.50	6.0	72	15.40	32.50	
20.500246	2.00	4.0	57	8.80	18.60		20.500277	3.55	6.0	75	15.65	33.00	
20.500247	2.05	4.0	60	9.05	19.10		20.500278	3.60	6.0	75	15.85	33.50	
20.500248	2.10	4.0	60	9.25	19.50		20.500279	3.65	6.0	75	16.10	33.90	
20.500249	2.15	4.0	60	9.50	20.00		20.500280	3.70	6.0	75	16.30	34.40	
20.500250	2.20	4.0	60	9.70	20.50		20.500281	3.75	6.0	75	16.50	34.90	
20.500251	2.25	4.0	60	9.90	20.90		20.500282	3.80	6.0	77	16.75	35.30	
20.500252	2.30	4.0	62	10.15	21.40		20.500283	3.85	6.0	77	16.95	35.80	
20.500253	2.35	4.0	62	10.35	21.90		20.500284	3.90	6.0	77	17.20	36.30	
20.500254	2.40	4.0	62	10.60	22.30		20.500285	3.95	6.0	77	17.40	36.70	
20.500255	2.45	4.0	62	10.80	22.80		20.500286	4.00	6.0	80	17.60	37.20	
20.500256	2.50	4.0	62	11.00	23.20								

TD.12xD.IK VHM Pilotbohrer (Actiondrill)
vorwiegend zum Bohren von INOX und Titan



Kurzbeschreibung

- Spiralisierte Tieflochbohrer mit IK
- Perfekte Fluchtgenauigkeit 12xD mit 4 Fasen
- Hohe Schnitt- und Vorschubgeschwindigkeit möglich
- Hohe Leistungsfähigkeit & Positionsgenauigkeit
- Ein Plus für Ihre Prozesssicherheit und Qualität



Art.-Nr.	D1 k5	D2 h6	L1	L2	L3	Preis	Art.-Nr.	D1 k5	D2 h6	L1	L2	L3	Preis
20.500287	1.00	3.0	58	4.40	15.30		20.500318	2.55	4.0	84	11.25	39.05	
20.500288	1.05	3.0	58	4.65	16.10		20.500319	2.60	4.0	84	11.45	39.80	
20.500289	1.10	3.0	58	4.85	16.85		20.500320	2.65	4.0	84	11.70	40.55	
20.500290	1.15	3.0	58	5.10	17.60		20.500321	2.70	4.0	84	11.90	41.35	
20.500291	1.20	3.0	58	5.30	18.40		20.500322	2.75	4.0	84	12.10	42.10	
20.500292	1.25	3.0	58	5.50	19.15		20.500323	2.80	4.0	88	12.35	42.85	
20.500293	1.30	3.0	64	5.75	19.90		20.500324	2.85	4.0	88	12.55	43.65	
20.500294	1.35	3.0	64	5.95	20.70		20.500325	2.90	4.0	88	12.80	44.40	
20.500295	1.40	3.0	64	6.20	21.45		20.500326	2.95	4.0	88	13.00	45.15	
20.500296	1.45	3.0	64	6.40	22.20		20.500327	3.00	6.0	92	13.20	45.90	
20.500297	1.50	3.0	64	6.60	22.95		20.500328	3.05	6.0	92	13.45	46.70	
20.500298	1.55	3.0	68	6.85	23.75		20.500329	3.10	6.0	92	13.65	47.45	
20.500299	1.60	3.0	68	7.05	24.50		20.500330	3.15	6.0	92	13.90	48.20	
20.500300	1.65	3.0	68	7.30	25.25		20.500331	3.20	6.0	92	14.10	49.00	
20.500301	1.70	3.0	68	7.50	26.05		20.500332	3.25	6.0	92	14.30	49.75	
20.500302	1.75	3.0	68	7.70	26.80		20.500333	3.30	6.0	96	14.55	50.50	
20.500303	1.80	3.0	72	7.95	27.55		20.500334	3.35	6.0	96	14.75	51.30	
20.500304	1.85	3.0	72	8.15	28.35		20.500335	3.40	6.0	96	15.00	52.05	
20.500305	1.90	3.0	72	8.40	29.10		20.500336	3.45	6.0	96	15.20	52.80	
20.500306	1.95	3.0	72	8.60	29.85		20.500337	3.50	6.0	96	15.40	53.55	
20.500307	2.00	4.0	72	8.80	30.60		20.500338	3.55	6.0	100	15.65	54.35	
20.500308	2.05	4.0	76	9.05	31.40		20.500339	3.60	6.0	100	15.85	55.10	
20.500309	2.10	4.0	76	9.25	32.15		20.500340	3.65	6.0	100	16.10	55.85	
20.500310	2.15	4.0	76	9.50	32.90		20.500341	3.70	6.0	100	16.30	56.65	
20.500311	2.20	4.0	76	9.70	33.70		20.500342	3.75	6.0	100	16.50	57.40	
20.500312	2.25	4.0	76	9.90	34.45		20.500343	3.80	6.0	104	16.75	58.15	
20.500313	2.30	4.0	80	10.15	35.20		20.500344	3.85	6.0	104	16.95	58.95	
20.500314	2.35	4.0	80	10.35	36.00		20.500345	3.90	6.0	104	17.20	59.70	
20.500315	2.40	4.0	80	10.60	36.75		20.500346	3.95	6.0	104	17.40	60.45	
20.500316	2.45	4.0	80	10.80	37.50		20.500347	4.00	6.0	108	17.60	61.20	
20.500317	2.50	4.0	80	11.00	38.25								

TD.18xD.IK VHM Pilotbohrer (Actiondrill)
vorwiegend zum Bohren von INOX und Titan



Kurzbeschreibung

- Spiralisierte Tieflochbohrer mit IK
- Perfekte Fluchtgenauigkeit 18xD mit 4 Fasen
- Hohe Schnitt- und Vorschubgeschwindigkeit möglich
- Hohe Leistungsfähigkeit & Positionsgenauigkeit
- Ein Plus für Ihre Prozesssicherheit und Qualität



Art.-Nr.	D1 k5	D2 h6	L1	L2	L3	Preis	Art.-Nr.	D1 k5	D2 h6	L1	L2	L3	Preis
20.500348	1.00	3.0	64	4.40	21.30		20.500379	2.55	4.0	106	11.25	53.55	
20.500349	1.05	3.0	64	4.65	22.40		20.500380	2.60	4.0	106	11.45	54.60	
20.500350	1.10	3.0	64	4.85	23.45		20.500381	2.65	4.0	106	11.70	55.65	
20.500351	1.15	3.0	64	5.10	24.00		20.500382	2.70	4.0	106	11.90	56.70	
20.500352	1.20	3.0	64	5.30	25.60		20.500383	2.75	4.0	106	12.10	57.75	
20.500353	1.25	3.0	64	5.50	26.65		20.500384	2.80	4.0	110	12.35	58.80	
20.500354	1.30	3.0	72	5.75	27.70		20.500385	2.85	4.0	110	12.55	59.85	
20.500355	1.35	3.0	72	5.95	28.80		20.500386	2.90	4.0	110	12.80	60.90	
20.500356	1.40	3.0	72	6.20	29.85		20.500387	2.95	4.0	110	13.00	61.95	
20.500357	1.45	3.0	72	6.40	30.90		20.500388	3.00	6.0	114	13.20	63.00	
20.500358	1.50	3.0	72	6.60	31.95		20.500389	3.05	6.0	114	13.45	64.05	
20.500359	1.55	3.0	80	6.85	33.05		20.500390	3.10	6.0	114	13.65	65.10	
20.500360	1.60	3.0	80	7.05	34.10		20.500391	3.15	6.0	114	13.90	66.15	
20.500361	1.65	3.0	80	7.30	35.15		20.500392	3.20	6.0	114	14.10	67.20	
20.500362	1.70	3.0	80	7.50	36.25		20.500393	3.25	6.0	114	14.30	68.25	
20.500363	1.75	3.0	80	7.70	37.30		20.500394	3.30	6.0	118	14.55	69.30	
20.500364	1.80	3.0	88	7.95	38.35		20.500395	3.35	6.0	118	14.75	70.35	
20.500365	1.85	3.0	88	8.15	39.45		20.500396	3.40	6.0	118	15.00	71.40	
20.500366	1.90	3.0	88	8.40	40.50		20.500397	3.45	6.0	118	15.20	72.45	
20.500367	1.95	3.0	88	8.60	41.55		20.500398	3.50	6.0	118	15.40	73.50	
20.500368	2.00	4.0	88	8.80	42.60		20.500399	3.55	6.0	122	15.65	74.55	
20.500369	2.05	4.0	94	9.05	43.70		20.500400	3.60	6.0	122	15.85	75.60	
20.500370	2.10	4.0	94	9.25	44.75		20.500401	3.65	6.0	122	16.10	76.65	
20.500371	2.15	4.0	94	9.50	45.80		20.500402	3.70	6.0	122	16.30	77.70	
20.500372	2.20	4.0	94	9.70	46.90		20.500403	3.75	6.0	122	16.50	78.75	
20.500373	2.25	4.0	94	9.90	47.95		20.500404	3.80	6.0	126	16.75	79.80	
20.500374	2.30	4.0	100	10.15	49.00		20.500405	3.85	6.0	126	16.95	80.85	
20.500375	2.35	4.0	100	10.35	49.35		20.500406	3.90	6.0	126	17.20	81.90	
20.500376	2.40	4.0	100	10.60	50.40		20.500407	3.95	6.0	126	17.40	82.95	
20.500377	2.45	4.0	100	10.80	51.45		20.500408	4.00	6.0	126	17.60	84.00	
20.500378	2.50	4.0	100	11.00	52.50								

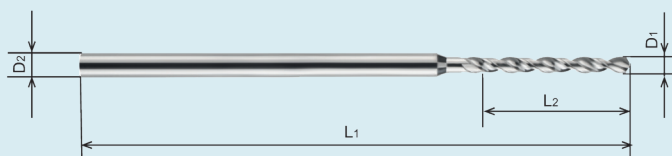
TD.MI

VHM Pilotbohrer (Actiondrill)
vorwiegend zum Bohren von INOX und Titan



Kurzbeschreibung

- Titan micro Spiralbohrer 118° Spitzengeometrie unbeschichtet
- Hohe Leistungsfähigkeit & Positionsgenauigkeit
- Ø 0.2 mit 15xD Spirale ab Lager
- 118° Spitzengeometrie mit Hochleistungseigenschaften
- Ein Plus für Ihre Prozesssicherheit und Qualität



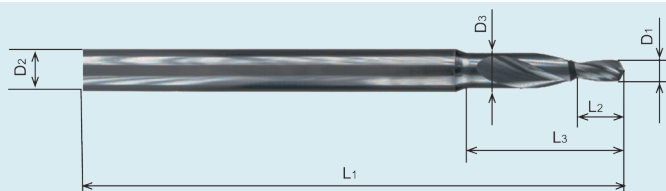
Art.-Nr.	D1 m5	D2 h6	L1	L2	X*D	Preis	Art.-Nr.	D1 m5	D2 h6	L1	L2	X*D	Preis
20.500409	0.20	1.0	30	3	15.00		20.500428	1.15	1.5	30	12	10.43	
20.500410	0.25	1.0	30	3	12.00		20.500429	1.20	1.5	30	12	10.00	
20.500411	0.30	1.0	30	3	10.00		20.500430	1.25	1.5	30	12	9.60	
20.500412	0.35	1.0	30	4	11.43		20.500431	1.30	1.5	30	12	9.23	
20.500413	0.40	1.0	30	4	10.00		20.500432	1.35	1.5	30	12	8.89	
20.500414	0.45	1.0	30	6	13.33		20.500433	1.40	1.5	30	12	8.57	
20.500415	0.50	1.0	30	6	12.00		20.500434	1.45	1.5	30	12	8.28	
20.500416	0.55	1.0	30	6	10.91		20.500435	1.50	2.0	30	12	8.00	
20.500417	0.60	1.0	30	6	10.00		20.500436	1.55	2.0	30	12	7.74	
20.500418	0.65	1.0	30	7	10.77		20.500437	1.60	2.0	30	12	7.50	
20.500419	0.70	1.0	30	7	10.00		20.500438	1.65	2.0	30	12	7.27	
20.500420	0.75	1.5	30	8	10.67		20.500439	1.70	2.0	30	12	7.06	
20.500421	0.80	1.5	30	8	10.00		20.500440	1.75	2.0	30	12	6.86	
20.500422	0.85	1.5	30	8	9.41		20.500441	1.80	2.0	30	12	6.67	
20.500423	0.90	1.5	30	8	8.89		20.500442	1.85	2.0	30	12	6.49	
20.500424	0.95	1.5	30	10	10.53		20.500443	1.90	2.0	30	12	6.32	
20.500425	1.00	1.5	30	10	10.00		20.500444	1.95	2.0	30	12	6.15	
20.500426	1.05	1.5	30	10	9.52		20.500445	2.00	2.5	30	12	6.00	
20.500427	1.10	1.5	30	10	9.09								

TD.IP.2D VHM Pilotbohrer (Targetdrill)
vorwiegend zum Bohren von INOX und Titan



Kurzbeschreibung

- INOX-Pilotbohrer 130° Spitzengeometrie selbstzentrierend beschichtet
- Bohrtiefe 2xD Hohe Leistungsfähigkeit & Positionsgenauigkeit
- 90° Senkfase
- 130° Spitzengeometrie mit Hochleistungseigenschaften
- Ein Plus für Ihre Prozesssicherheit und Qualität



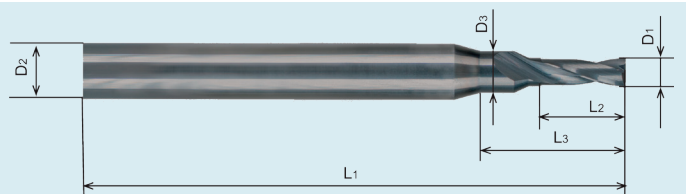
Art.-Nr.	D1 k6	D2 h6	D3	L1	L2	L3	Preis	Art.-Nr.	D1 k6	D2 h6	D3	L1	L2	L3	Preis
20.500932	1.00	4	1.80	45	2.00	7.30		20.500963	2.55	4	3.60	56	5.10	18.65	
20.500933	1.05	4	1.80	45	2.10	7.70		20.500964	2.60	4	4.00	56	5.20		
20.500934	1.10	4	1.80	45	2.20	8.05		20.500965	2.65	4	4.00	56	5.30		
20.500935	1.15	4	1.80	45	2.30	8.40		20.500966	2.70	4	4.00	56	5.40		
20.500936	1.20	4	2.10	45	2.40	8.80		20.500967	2.75	4	4.00	56	5.50		
20.500937	1.25	4	2.10	45	2.50	9.15		20.500968	2.80	4	4.00	56	5.60		
20.500938	1.30	4	2.10	45	2.60	9.50		20.500969	2.85	4	4.00	56	5.70		
20.500939	1.35	4	2.10	45	2.70	9.90		20.500970	2.90	4	4.00	56	5.80		
20.500940	1.40	4	2.10	45	2.80	10.25		20.500971	2.95	4	4.00	56	5.90		
20.500941	1.45	4	2.45	45	2.90	10.60		20.500972	3.00	6	4.80	60	6.00	21.90	
20.500942	1.50	4	2.45	48	3.00	10.95		20.500973	3.05	6	4.80	60	6.10	22.30	
20.500943	1.55	4	2.45	48	3.10	11.35		20.500974	3.10	6	4.80	60	6.20	22.65	
20.500944	1.60	4	2.45	48	3.20	11.70		20.500975	3.15	6	4.80	60	6.30	23.00	
20.500945	1.65	4	2.45	48	3.30	12.05		20.500976	3.20	6	4.80	60	6.40	23.40	
20.500946	1.70	4	2.80	48	3.40	12.45		20.500977	3.25	6	4.80	60	6.50	23.75	
20.500947	1.75	4	2.80	48	3.50	12.80		20.500978	3.30	6	4.80	60	6.60	24.10	
20.500948	1.80	4	2.80	48	3.60	13.15		20.500979	3.35	6	4.80	60	6.70	24.50	
20.500949	1.85	4	2.80	48	3.70	13.55		20.500980	3.40	6	4.80	60	6.80	24.85	
20.500950	1.90	4	2.80	48	3.80	13.90		20.500981	3.45	6	4.80	60	6.90	25.20	
20.500951	1.95	4	2.80	48	3.90	14.25		20.500982	3.50	6	5.50	65	7.00	25.55	
20.500952	2.00	4	3.30	52	4.00	14.60		20.500983	3.55	6	5.50	65	7.10	25.95	
20.500953	2.05	4	3.30	52	4.10	15.00		20.500984	3.60	6	5.50	65	7.20	26.30	
20.500954	2.10	4	3.30	52	4.20	15.35		20.500985	3.65	6	5.50	65	7.30	26.65	
20.500955	2.15	4	3.30	52	4.30	15.70		20.500986	3.70	6	5.50	65	7.40	27.05	
20.500956	2.20	4	3.30	52	4.40	16.10		20.500987	3.75	6	5.50	70	7.50	27.40	
20.500957	2.25	4	3.30	52	4.50	16.45		20.500988	3.80	6	5.50	70	7.60	27.75	
20.500958	2.30	4	3.60	52	4.60	16.80		20.500989	3.85	6	5.50	70	7.70	28.15	
20.500959	2.35	4	3.60	52	4.70	17.20		20.500990	3.90	6	5.50	70	7.80	28.50	
20.500960	2.40	4	3.60	52	4.80	17.55		20.500991	3.95	6	5.50	70	7.90	28.85	
20.500961	2.45	4	3.60	52	4.90	17.90		20.500992	4.00	6	5.50	70	8.00	29.20	
20.500962	2.50	4	3.60	56	5.00	18.25									

TD.I.180 INOX Flachbohrer (Targetdrill)
vorwiegend zum Bohren von INOX und Titan



Kurzbeschreibung

- INOX Flachbohrer 180°, 3.5xD, m5-Toleranz beschichtet
- Als Kurzbohrer oder Pilotbohrer verwendbar
- 0.05 mm Abstufung von 0.8 bis 3.0 mm
- 0.1 mm Abstufung von 3.0 bis 6.0 mm
- Schaft nach DIN6535-HA, h6-Toleranz
- Auf schrägen, runden oder gewölbten Flächen bohren
- Das Anspiegeln ist nicht mehr notwendig



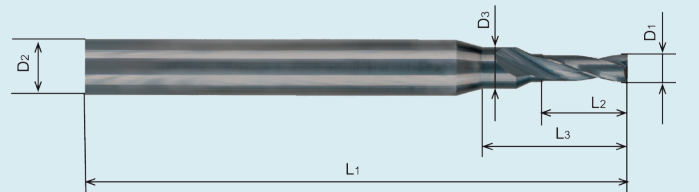
Art.-Nr.	D1 k6	D2 h6	D3	L1	L2	L3	Preis	Art.-Nr.	D1 k6	D2 h6	D3	L1	L2	L3	Preis
20.500857	0.80	4	1.70	40	2.80	6.00		20.500882	2.05	6	3.55	50	7.20	12.40	
20.500858	0.85	4	1.70	40	3.00	6.00		20.500883	2.10	6	3.60	50	7.40	12.60	
20.500859	0.90	4	1.80	40	3.20	6.30		20.500884	2.15	6	3.65	50	7.50	12.80	
20.500860	0.95	4	1.90	40	3.30	6.70		20.500885	2.20	6	3.70	50	7.70	13.00	
20.500861	1.00	4	2.00	40	3.50	7.00		20.500886	2.25	6	3.75	50	7.90	13.10	
20.500862	1.05	4	2.10	40	3.70	7.40		20.500887	2.30	6	3.80	50	8.10	13.30	
20.500863	1.10	4	2.20	40	3.90	7.70		20.500888	2.35	6	3.85	50	8.20	13.50	
20.500864	1.15	4	2.30	40	4.00	8.10		20.500889	2.40	6	3.90	50	8.40	13.70	
20.500865	1.20	4	2.40	40	4.20	8.40		20.500890	2.45	6	3.95	50	8.60	13.80	
20.500866	1.25	4	2.50	40	4.40	8.80		20.500891	2.50	6	4.00	50	8.80	14.00	
20.500867	1.30	4	2.60	40	4.60	9.10		20.500892	2.55	6	4.05	50	8.90	14.20	
20.500868	1.35	4	2.70	40	4.70	9.50		20.500893	2.60	6	4.10	50	9.10	14.40	
20.500869	1.40	4	2.80	40	4.90	9.80		20.500894	2.65	6	4.15	50	9.30	14.50	
20.500870	1.45	4	2.90	40	5.10	10.20		20.500895	2.70	6	4.20	50	9.40	14.70	
20.500871	1.50	4	3.00	40	5.30	10.50		20.500896	2.75	6	4.25	50	9.60	14.90	
20.500872	1.55	4	3.05	40	5.40	10.70		20.500897	2.80	6	4.30	50	9.80	15.10	
20.500873	1.60	4	3.10	40	5.60	10.90		20.500898	2.85	6	4.35	50	10.00	15.20	
20.500874	1.65	4	3.15	40	5.80	11.00		20.500899	2.90	6	4.40	50	10.10	15.40	
20.500875	1.70	4	3.20	40	6.00	11.20		20.500900	2.95	6	4.45	50	10.30	15.60	
20.500876	1.75	4	3.25	40	6.10	11.40		20.500901	3.00	6	4.50	60	10.50	15.80	
20.500877	1.80	4	3.30	40	6.30	11.60		20.500902	3.10	6	4.60	60	10.90	16.10	
20.500878	1.85	4	3.35	40	6.50	11.70		20.500903	3.20	6	4.70	60	11.20	16.50	
20.500879	1.90	4	3.40	40	6.70	11.90		20.500904	3.30	6	4.80	60	11.60	16.80	
20.500880	1.95	4	3.45	40	6.80	12.10		20.500905	3.40	6	4.90	60	11.90	17.20	
20.500881	2.00	6	3.50	50	7.00	12.30		20.500906	3.50	6	5.00	60	12.30	17.50	

TD.I.180 INOX Flachbohrer (Targetdrill)
vorwiegend zum Bohren von INOX und Titan



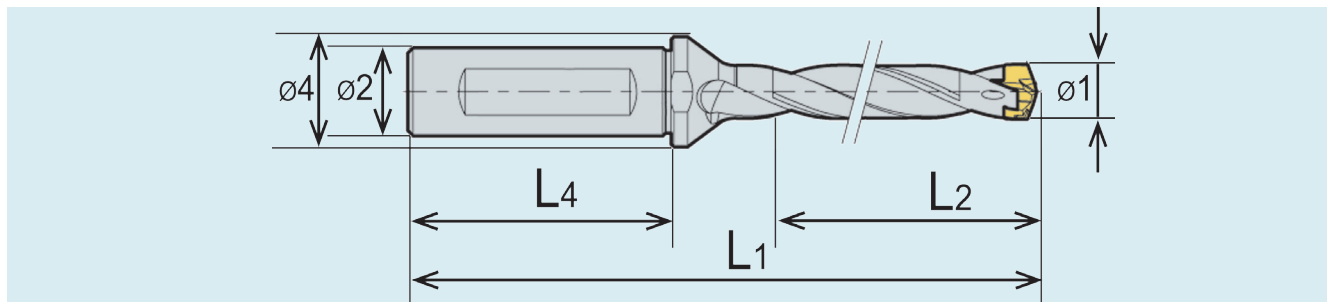
Kurzbeschreibung

- INOX Flachbohrer 180°, 3.5xD, m5-Toleranz beschichtet
- Als Kurzbohrer oder Pilotbohrer verwendbar
- 0.05 mm Abstufung von 0.8 bis 3.0 mm
- 0.1 mm Abstufung von 3.0 bis 6.0 mm
- Schaft nach DIN6535-HA, h6-Toleranz
- Auf schrägen, runden oder gewölbten Flächen bohren
- Das Anspiegeln ist nicht mehr notwendig



Art.-Nr.	D1 k6	D2 h6	D3	L1	L2	L3	Preis	Art.-Nr.	D1 k6	D2 h6	D3	L1	L2	L3	Preis
20.500907	3.60	6	6.00	60	12.60			20.500920	4.90	6	6.00	60	17.20		
20.500908	3.70	6	6.00	60	13.00			20.500921	5.00	6	6.00	60	17.50		
20.500909	3.80	6	6.00	60	13.30			20.500922	5.10	8	8.00	70	17.90		
20.500910	3.90	6	6.00	60	13.70			20.500923	5.20	8	8.00	70	18.20		
20.500911	4.00	6	6.00	60	14.00			20.500924	5.30	8	8.00	70	18.60		
20.500912	4.10	6	6.00	60	14.40			20.500925	5.40	8	8.00	70	18.90		
20.500913	4.20	6	6.00	60	14.70			20.500926	5.50	8	8.00	70	19.30		
20.500914	4.30	6	6.00	60	15.10			20.500927	5.60	8	8.00	70	19.60		
20.500915	4.40	6	6.00	60	15.40			20.500928	5.70	8	8.00	70	20.00		
20.500916	4.50	6	6.00	60	15.80			20.500929	5.80	8	8.00	70	20.30		
20.500917	4.60	6	6.00	60	16.10			20.500930	5.90	8	8.00	70	20.70		
20.500918	4.70	6	6.00	60	16.50			20.500931	6.00	8	8.00	70	21.00		
20.500919	4.80	6	6.00	60	16.80										

TPDX 3D/5D/8D Trägerwerkzeug (Bohrer)



Art.Nr.	Bezeichnung	Ø1	Ø2	Ø4	L1	L2	L4	Preis	Passende Kronen
40.620006	TPDX3D-08012-24	8,0 - 8,4	12	16	82,2	24	45		TPD0800XP - 0849XP
40.620007	TPDX3D-08512-26	8,5 - 8,9	12	16	84,1	26	45		TPD0850XP - 0899XP
40.620008	TPDX3D-09012-27	9,0 - 9,4	12	16	85,9	27	45		TPD0900XP - 0949XP
40.620009	TPDX3D-09512-29	9,5 - 9,9	12	16	87,7	29	45		TPD0950XP - 0999XP
40.620010	TPDX3D-10016-30	10,0 - 10,4	16	20	94,6	30	48		TPD1000XP - 1049XP
40.620011	TPDX3D-10516-32	10,5 - 10,9	16	20	96,5	32	48		TPD1050XP - 1099XP
40.620019	TPDX3D-11016-33	11,0 - 11,4	16	20	98,2	33	48		TPD1100XP - 1149XP
40.620020	TPDX3D-11516-35	11,5 - 11,9	16	20	100,1	35	48		TPD1150XP - 1199XP
40.620012	TPDX5D-08012-40	8,0 - 8,4 1	12	16	98,2	40	45		TPD0800XP - 0849XP
40.620013	TPDX5D-08512-43	8,5 - 8,9 1	12	16	101,	43	45		TPD0850XP - 0899XP
40.620021	TPDX5D-09012-45	9,0 - 9,4 1	12	16	103,	45	45		TPD0900XP - 0949XP
40.620022	TPDX5D-09512-48	9,5 - 9,9 1	12	16	106,	48	45		TPD0950XP - 0999XP
40.620027	TPDX5D-10016-50	10,0 - 10,4	16	20	114,	50	48		TPD1000XP - 1049XP
40.620028	TPDX5D-10516-53	10,5 - 10,9	16	20	117,	53	48		TPD1050XP - 1099XP
40.620037	TPDX5D-11016-55	11,0 - 11,4	16	20	120,	55	48		TPD1100XP - 1149XP
40.620038	TPDX5D-11516-58	11,5 - 11,9	16	20	123,1	58	48		TPD1150XP - 1199XP
40.620033	TPDX8D-08012-64	8,0 - 8,4 1	12	16	122,	64	45		TPD0800XP - 0849XP
40.620034	TPDX8D-08512-68	8,5 - 8,9 1	12	16	126,	68	45		TPD0850XP - 0899XP
40.620035	TPDX8D-09012-72	9,0 - 9,4 1	12	16	130,	72	45		TPD0900XP - 0949XP
40.620036	TPDX8D-09512-76	9,5 - 9,9 1	12	16	135,	76	45		TPD0950XP - 0999XP
40.620041	TPDX8D-10016-80	10,0 - 10,4	16	20	144,	80	48		TPD1000XP - 1049XP
40.620042	TPDX8D-10516-84	10,5 - 10,9	16	20	149,	84	48		TPD1050XP - 1099XP
40.620045	TPDX8D-11016-88	11,0 - 11,4	16	20	153,	88	48		TPD1100XP - 1149XP
40.620046	TPDX8D-11516-92	11,5 - 11,9	16	20	157,6	92	48		TPD1150XP - 1199XP

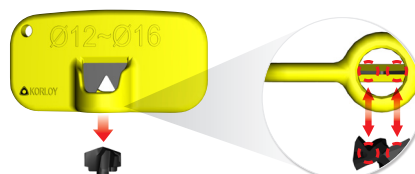
Weitere Ausführungen auf Anfrage erhältlich.



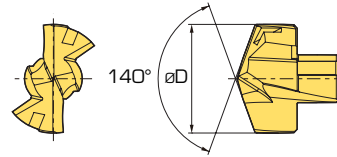
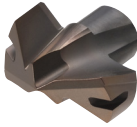
Zur Befestigung der Krone Schlüssel im Uhrzeigersinn drehen.

Schlüssel

Abb.	Bezeichnung	Bohrdurchmesser ØD (mm)	Drehmoment (Nm)
	TPDC-W0811	8,00 - 11,99	0,7 - 1,5



Schlüssel in Nuten der Krone einsetzen.

XP
Bohrkrone XP


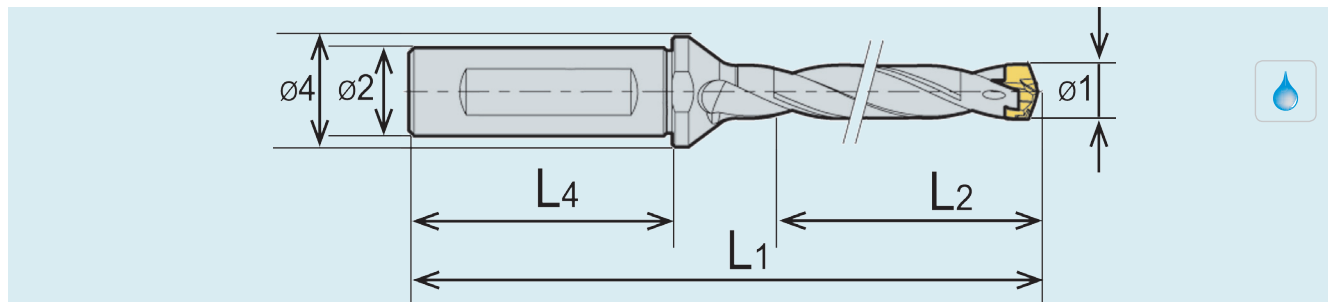
Art.-Nr.	Bezeichnung	HM-Sorte	ØD	Halter	Preis	Schlüssel
40.640952	TPD0800XP	PC325U	8.0	TPDX_D-08012-		TPDC-W0811
40.640953	TPD0810XP	PC325U	8.1			
40.640954	TPD0820XP	PC325U	8.2			
40.640955	TPD0830XP	PC325U	8.3			
40.640956	TPD0840XP	PC325U	8.4			
40.640957	TPD0850XP	PC325U	8.5	TPDX_D-08512-		
40.640958	TPD0860XP	PC325U	8.6			
40.640959	TPD0870XP	PC325U	8.7			
40.640960	TPD0880XP	PC325U	8.8			
40.640961	TPD0890XP	PC325U	8.9			
40.640962	TPD0900XP	PC325U	9.0	TPDX_D-09012-		
40.640963	TPD0910XP	PC325U	9.1			
40.640964	TPD0920XP	PC325U	9.2			
40.640965	TPD0930XP	PC325U	9.3			
40.640966	TPD0940XP	PC325U	9.4			
40.640967	TPD0950XP	PC325U	9.5	TPDX_D-09512-		
40.640968	TPD0960XP	PC325U	9.6			
40.640969	TPD0970XP	PC325U	9.7			
40.640970	TPD0980XP	PC325U	9.8			
40.640971	TPD0990XP	PC325U	9.9			
40.640972	TPD1000XP	PC325U	10.0	TPDX_D-10016-		
40.640973	TPD1010XP	PC325U	10.1			
40.640974	TPD1020XP	PC325U	10.2			
40.640975	TPD1030XP	PC325U	10.3			
40.640976	TPD1040XP	PC325U	10.4			
40.640977	TPD1050XP	PC325U	10.5	TPDX_D-10516-		
40.640978	TPD1060XP	PC325U	10.6			
40.640979	TPD1070XP	PC325U	10.7			
40.640980	TPD1080XP	PC325U	10.8			
40.640981	TPD1090XP	PC325U	10.9			
40.640982	TPD1100XP	PC325U	11.0	TPDX_D-11016-		
40.640983	TPD1110XP	PC325U	11.1			
40.640984	TPD1120XP	PC325U	11.2			
40.640985	TPD1130XP	PC325U	11.3			
40.640986	TPD1140XP	PC325U	11.4			
40.640987	TPD1150XP	PC325U	11.5	TPDX_D-11516-		
40.640988	TPD1160XP	PC325U	11.6			
40.640989	TPD1170XP	PC325U	11.7			
40.640990	TPD1180XP	PC325U	11.8			
40.640991	TPD1190XP	PC325U	11.9			

Schlüssel

Weitere Durchmesser auf Anfrage erhältlich.

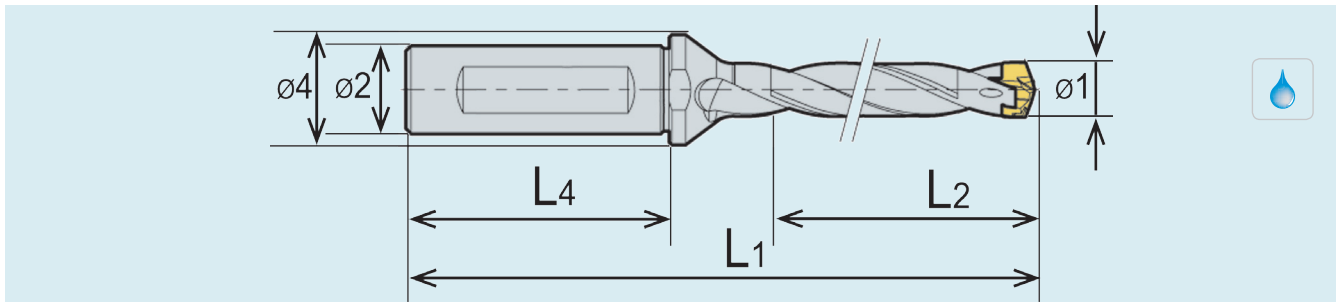
Abb.	Bezeichnung	Bohrdurchmesser ØD (mm)	Drehmoment (Nm)
	TPDC-W0811	8,00 - 11,99	0,7 - 1,5

TPDC 1.5xD/3xD Trägerwerkzeug (Bohrer)



Art.Nr.	Bezeichnung	Ø1	Ø2	Ø4	L1	L2	L4	Preis	Passende Kronen
1.5 x D									
40.620014	TPDC1.5D-12016-18	12.0-12.49	16	20	85	18	48		TPD1200C_-1249C_
40.620015	TPDC1.5D-12516-19	12.5-12.99	16	20	86	19	48		TPD1250C_-1299C_
40.620016	TPDC1.5D-13016-20	13.0-13.49	16	20	87	20	48		TPD1300C_-1349C_
40.620017	TPDC1.5D-13516-20	13.5-13.99	16	20	88	20	48		TPD1350C_-1399C_
40.620018	TPDC1.5D-14016-21	14.0-14.49	16	20	93	21	48		TPD1400C_-1449C_
40.620023	TPDC1.5D-14516-22	14.5-14.99	16	20	94	22	48		TPD1450C_-1499C_
40.620024	TPDC1.5D-15020-23	15.0-15.99	20	25	95	23	50		TPD1500C_-1599C_
40.620025	TPDC1.5D-16020-24	16.0-16.99	20	25	98	24	50		TPD1600C_-1699C_
40.620026	TPDC1.5D-17020-26	17.0-17.99	20	25	100	26	50		TPD1700C_-1799C_
40.620029	TPDC1.5D-18025-27	18.0-18.99	25	33	110	27	56		TPD1800C_-1899C_
40.620030	TPDC1.5D-19025-28	19.0-19.99	25	33	112	28	56		TPD1900C_-1999C_
40.620032	TPDC1.5D-20025-30	20.0-20.99	25	33	114	30	56		TPD2000C_-2099C_
40.620039	TPDC1.5D-21025-31	21.0-21.99	25	33	116	31	56		TPD2100C_-2199C_
40.620040	TPDC1.5D-22025-33	22.0-22.99	25	33	119	33	56		TPD2200C_-2299C_
40.620043	TPDC1.5D-23025-34	23.0-23.99	25	33	121	34	56		TPD2300C_-2399C_
40.620044	TPDC1.5D-24032-36	24.0-24.99	32	43	130	36	60		TPD2400C_-2499C_
40.620047	TPDC1.5D-25032-37	25.0-25.99	32	43	132	37	60		TPD2500C_-2599C_
40.620048	TPDC1.5D-26032-39	26.0-26.99	32	43	134	39	60		TPD2600C_-2699C_
40.620049	TPDC1.5D-27032-40	27.0-27.99	32	43	136	40	60		TPD2700C_-2799C_
40.620050	TPDC1.5D-28032-42	28.0-28.99	32	43	138	42	60		TPD2800C_-2899C_
40.620051	TPDC1.5D-29032-43	29.0-29.99	32	43	141	43	60		TPD2900C_-2999C_
40.620052	TPDC1.5D-30032-45	30.0-30.99	32	43	143	45	60		TPD3000C_-3099C_
3 x D									
40.640656	TPDC3D-10516-32	10.5-10.99	16	20		31.5	48		TPD1050C_-1099C_
40.640657	TPDC3D-11516-35	11.5-11.99	16	20		34.5	48		TPD1150C_-1199C_
40.640658	TPDC3D-12016-36	12.0-12.49	16	20	99	36	48		TPD1200C_-1249C_
40.640659	TPDC3D-12516-38	12.5-12.99	16	20	101	37.5	48		TPD1250C_-1299C_
40.640660	TPDC3D-13016-39	13.0-13.49	16	20	103	39	48		TPD1300C_-1349C_
40.640661	TPDC3D-13516-41	13.5-13.99	16	20	105	40.5	48		TPD1350C_-1399C_
40.640662	TPDC3D-14016-42	14.0-14.49	16	20	106	42	48		TPD1400C_-1449C_
40.640663	TPDC3D-14516-44	14.5-14.99	16	20	107	43.5	48		TPD1450C_-1499C_
40.640664	TPDC3D-15020-45	15.0-15.99	20	25	113	45	50		TPD1500C_-1599C_
40.640665	TPDC3D-16020-48	16.0-16.99	20	25	117	48	50		TPD1600C_-1699C_
40.640666	TPDC3D-17020-51	17.0-17.99	20	25	120	51	50		TPD1700C_-1799C_
40.640667	TPDC3D-18025-54	18.0-18.99	25	33	132	54	56		TPD1800C_-1899C_
40.640668	TPDC3D-19025-57	19.0-19.99	25	33	135	57	56		TPD1900C_-1999C_

TPDC 5xD / 8xD Trägerwerkzeug (Bohrer)

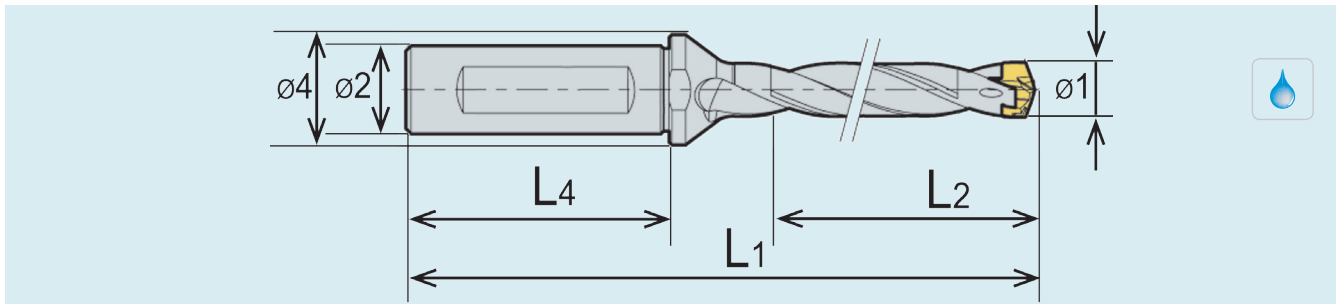


40.640669	TPDC3D-20025-60	20.0-20.99	25	33	138	60	56		TPD2000C_-2099C_
40.640670	TPDC3D-21025-63	21.0-21.99	25	33	141	63	56		TPD2100C_-2199C_
40.640671	TPDC3D-22025-66	22.0-22.99	25	33	145	66	56		TPD2200C_-2299C_
40.640672	TPDC3D-23025-69	23.0-23.99	25	33	149	69	56		TPD2300C_-2399C_
40.640673	TPDC3D-24032-72	24.0-24.99	32	43	159	72	60		TPD2400C_-2499C_
40.640674	TPDC3D-25032-75	25.0-25.99	32	43	162	75	60		TPD2500C_-2599C_
40.640675	TPDC3D-26032-78	26.0-26.99	32	43	173	78	60		TPD2600C_-2699C_
40.640198	TPDC3D-27032-81	27.0-27.99	32	43	176	81	60		TPD2700C_-2799C_
40.640199	TPDC3D-28032-84	28.0-28.99	32	43	180	84	60		TPD2800C_-2899C_
40.640200	TPDC3D-29032-87	29.0-29.99	32	43	185	87	60		TPD2900C_-2999C_
40.640201	TPDC3D-30032-90	30.0-30.99	32	43	188	90	60		TPD3000C_-3099C_

5 x D

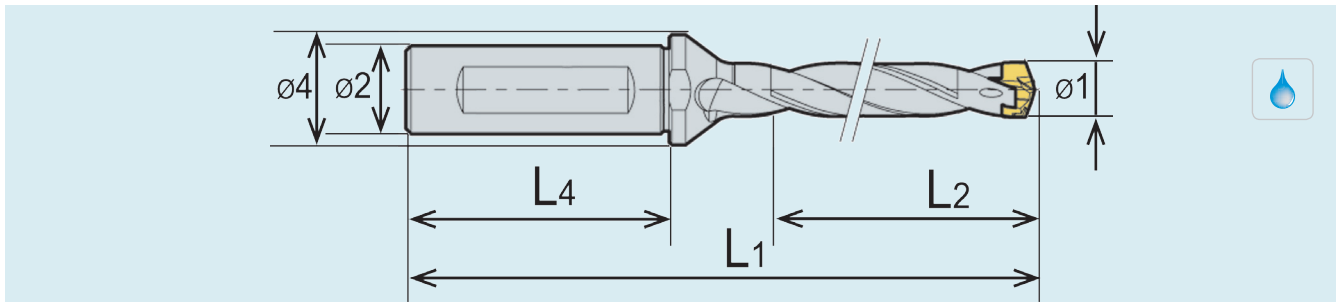
40.640676	TPDC5D-10516-53	10.5-10.99	16	20		52.5	48		TPD1050C_-1099C_
40.640677	TPDC5D-11516-58	11.5-11.99	16	20		57.5	48		TPD1150C_-1199C_
40.640678	TPDC5D-12016-60	12.0-12.49	16	20	123	60	48		TPD1200C_-1249C_
40.640679	TPDC5D-12516-63	12.5-12.99	16	20	126	62.5	48		TPD1250C_-1299C_
40.640680	TPDC5D-13016-65	13.0-13.49	16	20	129	65	48		TPD1300C_-1349C_
40.640681	TPDC5D-13516-68	13.5-13.99	16	20	132	67.5	48		TPD1350C_-1399C_
40.640682	TPDC5D-14016-70	14.0-14.49	16	20	134	70	48		TPD1400C_-1449C_
40.640683	TPDC5D-14516-73	14.5-14.99	16	20	136	72.5	48		TPD1450C_-1499C_
40.640684	TPDC5D-15020-75	15.0-15.99	20	25	143	75	50		TPD1500C_-1599C_
40.640685	TPDC5D-16020-80	16.0-16.99	20	25	149	80	50		TPD1600C_-1699C_
40.640686	TPDC5D-17020-85	17.0-17.99	20	25	154	85	50		TPD1700C_-1799C_
40.640687	TPDC5D-18025-90	18.0-18.99	25	33	168	90	56		TPD1800C_-1899C_
40.640688	TPDC5D-19025-95	19.0-19.99	25	33	173	95	56		TPD1900C_-1999C_
40.640689	TPDC5D-20025-100	20.0-20.99	25	33	178	100	56		TPD2000C_-2099C_
40.640690	TPDC5D-21025-105	21.0-21.99	25	33	183	105	56		TPD2100C_-2199C_
40.640691	TPDC5D-22025-110	22.0-22.99	25	33	189	110	56		TPD2200C_-2299C_
40.640692	TPDC5D-23025-115	23.0-23.99	25	33	195	115	56		TPD2300C_-2399C_
40.640693	TPDC5D-24032-120	24.0-24.99	32	43	207	120	60		TPD2400C_-2499C_
40.640694	TPDC5D-25032-125	25.0-25.99	32	43	212	125	60		TPD2500C_-2599C_
40.640202	TPDC5D-26032-130	26.0-26.99	32	43	225	130	60		TPD2600C_-2699C_
40.640203	TPDC5D-27032-135	27.0-27.99	32	43	230	135	60		TPD2700C_-2799C_
40.640204	TPDC5D-28032-140	28.0-28.99	32	43	236	140	60		TPD2800C_-2899C_
40.640205	TPDC5D-29032-145	29.0-29.99	32	43	243	145	60		TPD2900C_-2999C_
40.640206	TPDC5D-30032-150	30.0-30.99	32	43	248	150	60		TPD3000C_-3099C_

TPDC 8xD/10xD Trägerwerkzeug (Bohrer)



8 x D									
40.640695	TPDC8D-10516-84	10.5-10.99	16	20		84	48		TPD1050C_-1099C_
40.640696	TPDC8D-11016-88	11.0-11.49	16	20		88	48		TPD1100C_-1149C_
40.640697	TPDC8D-11516-92	11.5-11.99	16	20		92	48		TPD1150C_-1199C_
40.640698	TPDC8D-12016-96	12.0-12.49	16	20	159	96	48		TPD1200C_-1249C_
40.640699	TPDC8D-12516-100	12.5-12.99	16	20	163	100	48		TPD1250C_-1299C_
40.640700	TPDC8D-13016-104	13.0-13.49	16	20	168	104	48		TPD1300C_-1349C_
40.640701	TPDC8D-13516-108	13.5-13.99	16	20	173	108	48		TPD1350C_-1399C_
40.640702	TPDC8D-14016-112	14.0-14.49	16	20	176	112	48		TPD1400C_-1449C_
40.640703	TPDC8D-14516-116	14.5-14.99	16	20	180	116	48		TPD1450C_-1499C_
40.640704	TPDC8D-15020-120	15.0-15.99	20	25	188	120	50		TPD1500C_-1599C_
40.640705	TPDC8D-16020-128	16.0-16.99	20	25	197	128	50		TPD1600C_-1699C_
40.640706	TPDC8D-17020-136	17.0-17.99	20	25	205	136	50		TPD1700C_-1799C_
40.640707	TPDC8D-18025-144	18.0-18.99	25	33	222	144	56		TPD1800C_-1899C_
40.640708	TPDC8D-19025-152	19.0-19.99	25	33	230	152	56		TPD1900C_-1999C_
40.640709	TPDC8D-20025-160	20.0-20.99	25	33	238	160	56		TPD2000C_-2099C_
40.640710	TPDC8D-21025-168	21.0-21.99	25	33	246	168	56		TPD2100C_-2199C_
40.640711	TPDC8D-22025-176	22.0-22.99	25	33	255	176	56		TPD2200C_-2299C_
40.640712	TPDC8D-23025-184	23.0-23.99	25	33	264	184	56		TPD2300C_-2399C_
40.640713	TPDC8D-24032-192	24.0-24.99	32	43	279	192	60		TPD2400C_-2499C_
40.640714	TPDC8D-25032-200	25.0-25.99	32	43	287	200	60		TPD2500C_-2599C_
40.640715	TPDC8D-26032-208	26.0-26.99	32	43	303	208	60		TPD2600C_-2699C_
40.640207	TPDC8D-27032-216	27.0-27.99	32	43	311	216	60		TPD2700C_-2799C_
40.640208	TPDC8D-28032-224	28.0-28.99	32	43	320	224	60		TPD2800C_-2899C_
40.640209	TPDC8D-29032-232	29.0-29.99	32	43	330	232	60		TPD2900C_-2999C_
40.640210	TPDC8D-30032-240	30.0-30.99	32	43	338	240	60		TPD3000C_-3099C_
10 x D									
40.640211	TPDC10D-12016-120	12.0-12.49	16	20	183	120	48		TPD1200C_-1249C_
40.640212	TPDC10D-12516-125	12.5-12.99	16	20	188	125	48		TPD1250C_-1299C_
40.640213	TPDC10D-13016-130	13.0-13.49	16	20	194	130	48		TPD1300C_-1349C_
40.640214	TPDC10D-13516-135	13.5-13.99	16	20	199	135	48		TPD1350C_-1399C_
40.640215	TPDC10D-14016-140	14.0-14.49	16	20	204	140	48		TPD1400C_-1449C_
40.640216	TPDC10D-14516-145	14.5-14.99	16	20	208	145	48		TPD1450C_-1499C_
40.640217	TPDC10D-15020-150	15.0-15.99	20	25	218	150	50		TPD1500C_-1599C_
40.640218	TPDC10D-16020-160	16.0-16.99	20	25	229	160	50		TPD1600C_-1699C_
40.640219	TPDC10D-17020-170	17.0-17.99	20	25	239	170	50		TPD1700C_-1799C_
40.640220	TPDC10D-18025-180	18.0-18.99	25	33	258	180	56		TPD1800C_-1899C_
40.640221	TPDC10D-19025-190	19.0-19.99	25	33	268	190	56		TPD1900C_-1999C_
40.640222	TPDC10D-20025-200	20.0-20.99	25	33	278	200	56		TPD2000C_-2099C_
40.640223	TPDC10D-21025-210	21.0-21.99	25	33	288	210	56		TPD2100C_-2199C_

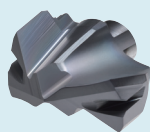
TPDC 10xD/12xD Trägerwerkzeug (Bohrer)



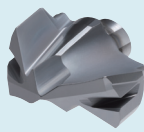
40.640224	TPDC10D-22025-220	22.0-22.99	25	33	299	220	56		TPD2200C_-2299C_
40.640225	TPDC10D-23025-230	23.0-23.99	25	33	310	230	56		TPD2300C_-2399C_
40.640226	TPDC10D-24032-240	24.0-24.99	32	43	327	240	60		TPD2400C_-2499C_
40.640227	TPDC10D-25032-250	25.0-25.99	32	43	337	250	60		TPD2500C_-2599C_
40.640228	TPDC10D-26032-260	26.0-26.99	32	43	355	260	60		TPD2600C_-2699C_
40.640229	TPDC10D-27032-270	27.0-27.99	32	43	365	270	60		TPD2700C_-2799C_
40.640230	TPDC10D-28032-280	28.0-28.99	32	43	376	280	60		TPD2800C_-2899C_
40.640231	TPDC10D-29032-290	29.0-29.99	32	43	388	290	60		TPD2900C_-2999C_
40.640232	TPDC10D-30032-300	30.0-30.99	32	43	398	300	60		TPD3000C_-3099C_
12 x D									
40.640233	TPDC12D-12016-144	12.0-12.49	16	20	207	144	48		TPD1200C_-1249C_
40.640234	TPDC12D-12516-150	12.5-12.99	16	20	213	150	48		TPD1250C_-1299C_
40.640235	TPDC12D-13016-156	13.0-13.49	16	20	220	156	48		TPD1300C_-1349C_
40.640236	TPDC12D-13516-162	13.5-13.99	16	20	226	162	48		TPD1350C_-1399C_
40.640531	TPDC12D-14016-168	14.0-14.49	16	20	232	168	48		TPD1400C_-1449C_
40.640532	TPDC12D-14516-174	14.5-14.99	16	20	237	174	48		TPD1450C_-1499C_
40.640533	TPDC12D-15020-180	15.0-15.99	20	25	248	180	50		TPD1500C_-1599C_
40.640534	TPDC12D-16020-192	16.0-16.99	20	25	261	192	50		TPD1600C_-1699C_
40.640535	TPDC12D-17020-204	17.0-17.99	20	25	273	204	50		TPD1700C_-1799C_
40.640536	TPDC12D-18025-216	18.0-18.99	25	33	294	216	56		TPD1800C_-1899C_
40.640537	TPDC12D-19025-228	19.0-19.99	25	33	306	228	56		TPD1900C_-1999C_
40.640538	TPDC12D-20025-240	20.0-20.99	25	33	318	240	56		TPD2000C_-2099C_
40.640539	TPDC12D-21025-252	21.0-21.99	25	33	330	252	56		TPD2100C_-2199C_
40.640540	TPDC12D-22025-264	22.0-22.99	25	33	343	264	56		TPD2200C_-2299C_
40.640541	TPDC12D-23025-276	23.0-23.99	25	33	356	276	56		TPD2300C_-2399C_
40.640542	TPDC12D-24032-288	24.0-24.99	32	43	375	288	60		TPD2400C_-2499C_
40.640543	TPDC12D-25032-300	25.0-25.99	32	43	387	300	60		TPD2500C_-2599C_
40.640544	TPDC12D-26032-312	26.0-26.99	32	43	407	312	60		TPD2600C_-2699C_
40.640545	TPDC12D-27032-324	27.0-27.99	32	43	419	324	60		TPD2700C_-2799C_
40.640546	TPDC12D-28032-336	28.0-28.99	32	43	432	336	60		TPD2800C_-2899C_
40.640547	TPDC12D-29032-348	29.0-29.99	32	43	446	348	60		TPD2900C_-2999C_
40.640548	TPDC12D-30032-360	30.0-30.99	32	43	458	360	60		TPD3000C_-3099C_



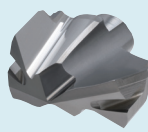
CP / CM / CN Bohrkrone



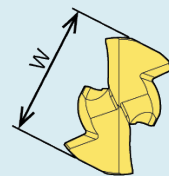
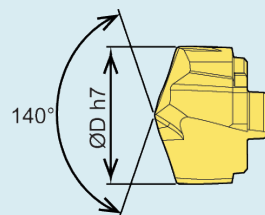
CP



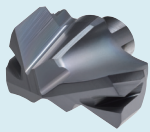
CM



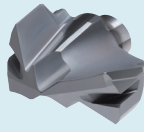
CN



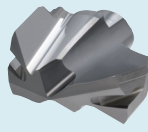
Stahl			INOX		NE Metalle		Schlüssel
Ø	Bezeichnung	Typ CP PC5335 Art.-Nr.	Bezeichnung	Typ CM PC330N Art.-Nr.	Bezeichnung	Typ CN H01 Art.-Nr.	
12.0	TPD1200CP	40.640718	TPD1200CM	40.640835			
12.1	TPD1210CP	40.640719					
12.2	TPD1220CP	40.640720	TPD1220CM	40.640836			
12.3	TPD1230CP	40.640721					
12.4	TPD1240CP	40.640722					
12.5	TPD1250CP	40.640723	TPD1250CM	40.640837			
12.6	TPD1260CP	40.640724	TPD1260CM	40.640838			
12.8	TPD1280CP	40.640900					
13.0	TPD1300CP	40.640725	TPD1300CM	40.640839			
13.1	TPD1310CP	40.640901					
13.2	TPD1320CP	40.640726					
13.4	TPD1340CP	40.640902					
13.5	TPD1350CP	40.640727	TPD1350CM	40.640840			
13.6	TPD1360CP	40.640903					
13.7	TPD1370CP	40.640904					
13.8	TPD1380CP	40.640905					
14.0	TPD1400CP	40.640728	TPD1400CM	40.640841			
14.1	TPD1410CP	40.640729					
14.2	TPD1420CP	40.640730	TPD1420CM	40.640842			TPDC- W1216
14.3	TPD1430CP	40.640731	TPD1430CM	40.640843			
14.4	TPD1440CP	40.640732					
14.5	TPD1450CP	40.640733	TPD1450CM	40.640844			
14.6	TPD1460CP	40.640734					
14.8	TPD1480CP	40.640906					
14.9	TPD1490CP	40.640907					
15.0	TPD1500CP	40.640735	TPD1500CM	40.640845	TPD1500CN	40.640894	
15.1	TPD1510CP	40.640736					
15.2	TPD1520CP	40.640908	TPD1520CM	40.640846			
15.3	TPD1530CP	40.640737					
15.4	TPD1540CP	40.640738					
15.5	TPD1550CP	40.640739	TPD1550CM	40.640847			
15.6	TPD1560CP	40.640740					
15.7	TPD1570CP	40.640741					
15.8	TPD1580CP	40.640742					
16.0	TPD1600CP	40.640909					
16.0	TPD1600CP	40.640743	TPD1600CM	40.640848			
16.1	TPD1610CP	40.670744					

CP / CM / CN Bohrkrone


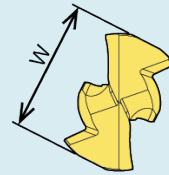
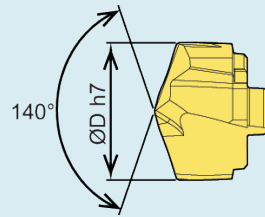
CP



CM

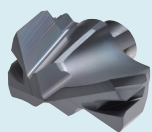


CN

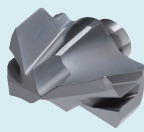


Stahl			INOX		NE Metalle		Schlüssel
Ø	Bezeichnung	Typ CP PC5335 Art.-Nr.	Bezeichnung	Typ CM PC330N Art.-Nr.	Bezeichnung	Typ CN H01 Art.-Nr.	
16.2	TPD1620CP	40.640788					TPDC- W1216
16.3	TPD1630CP	40.640745	TPD1630CM	40.640849			
16.5	TPD1650CP	40.640746	TPD1650CM	40.640850	TPD1650CN	40.640895	
16.6	TPD1660CP	40.640910					
16.7	TPD1670CP	40.640747	TPD1670CM	40.640851			
16.8	TPD1680CP	40.640911					
17.0	TPD1700CP	40.640748	TPD1690CM	40.640852			
17.1	TPD1710CP	40.640749	TPD1700CM	40.640853			
17.2	TPD1720CP	40.640750					
17.4	TPD1740CP	40.640912					
17.5	TPD1750CP	40.640751					
17.6	TPD1760CP	40.640752	TPD1750CM	40.640854	TPD1750CN	40.640896	
17.7	TPD1770CP	40.640753					
17.8	TPD1780CP	40.640913	TPD1770CM	40.640855			
17.9	TPD1790CP	40.640914					
18.0	TPD1800CP	40.640754					TPDC- W1721
18.1	TPD1810CP	40.640755	TPD1800CM	40.640856			
18.2	TPD1820CP	40.640915	TPD1810CM	40.640857			
18.3	TPD1830CP	40.640916					
18.5	TPD1850CP	40.640756					
18.6	TPD1860CP	40.640757	TPD1850CM	40.640858			
18.7	TPD1870CP	40.640758	TPD1860CM	40.640859			
18.8	TPD1880CP	40.640917	TPD1870CM	40.640860			
19.0	TPD1900CP	40.640759					
19.2	TPD1920CP	40.640760	TPD1900CM	40.640861			
19.3	TPD1930CP	40.640918	TPD1920CM	40.640862			
19.4	TPD1940CP	40.640919	TPD1930CM	40.640863			
19.5	TPD1950CP	40.640761					
19.7	TPD1970CP	40.640762	TPD1950CM	40.640864			
19.8	TPD1980CP	40.640920	TPD1970CM	40.640865	TPD1970CN	40.640897	
19.9	TPD1990CP	40.640921					
20.0	TPD2000CP	40.640763					
20.1	TPD2010CP	40.640922	TPD2000CM	40.640866			
20.2	TPD2020CP	40.640923					
20.3	TPD2030CP	40.640924					
20.4	TPD2040CP	40.640925					
20.5	TPD2050CP	40.640764					

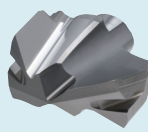
CP / CM / CN Bohrkrone



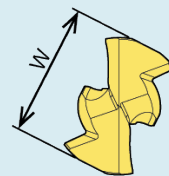
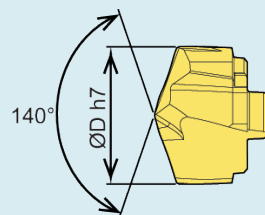
CP



CM

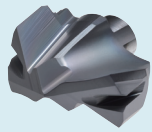


CN

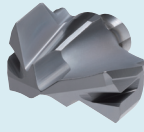


Stahl			INOX		NE Metalle		Schlüssel
Ø	Bezeichnung	Typ CP PC5335 Art.-Nr.	Bezeichnung	Typ CM PC330N Art.-Nr.	Bezeichnung	Typ CN H01 Art.-Nr.	
20.6	TPD2060CP	40.640926	TPD2050CM	40.640867			TPDC- W1721
20.8	TPD2080CP	40.640927	TPD2060CM	40.640868			
21.0	TPD2100CP	40.640765					
21.1	TPD2110CP	40.640928	TPD2100CM	40.640869			
21.2	TPD2120CP	40.640929					
21.3	TPD2130CP	40.640930					
21.5	TPD2150CP	40.640766					
21.8	TPD2180CP	40.640931	TPD2150CM	40.640870			
21.9	TPD2190CP	40.640932					
22.0	TPD2200CP	40.640767					TPDC- W2225
22.2	TPD2220CP	40.640933	TPD2200CM	40.640871			
22.3	TPD2230CP	40.640934					
22.4	TPD2240CP	40.640935					
22.5	TPD2250CP	40.640768					
22.6	TPD2260CP	40.640769	TPD2250CM	40.640872			
22.7	TPD2270CP	40.640770	TPD2260CM	40.640873			
22.8	TPD2280CP	40.640936	TPD2270CM	40.640874			
23.0	TPD2300CP	40.640771					
23.3	TPD2330CP	40.640937	TPD2300CM	40.640875			TPDC- W2630
23.4	TPD2340CP	40.640938					
23.5	TPD2350CP	40.640772					
24.0	TPD2400CP	40.640773	TPD2350CM	40.640876			
24.4	TPD2440CP	40.640940					
24.5	TPD2450CP	40.640774	TPD2400CM	40.640877			
24.8	TPD2480CP	40.640941					
24.9	TPD2490CP	40.640942	TPD2450CM	40.640878			
25.0	TPD2500CP	40.640775					
25.1	TPD2510CP	40.640943					TPDC- W2630
25.3	TPD2530CP	40.640776	TPD2500CM	40.640879			
25.4	TPD2540CP	40.640944					
25.5	TPD2550CP	40.640777	TPD2530CM	40.640880			
25.8	TPD2580CP	40.640778					
25.9	TPD2590CP	40.640779	TPD2550CM	40.640881			
26.0	TPD2600CP	40.640780					
26.1	TPD2610CP	40.640945	TPD2580CM	40.640882			
26.5	TPD2650CP	40.640789	TPD2590CM	40.640883			
27.0	TPD2700CP	40.640781	TPD2600CM	40.640884			

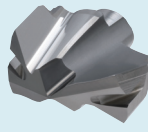
CP / CM / CN Bohrkrone



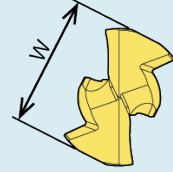
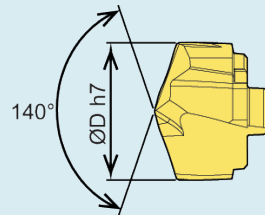
CP



CM



CN



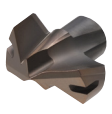
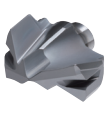
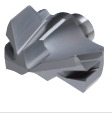
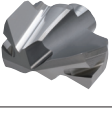
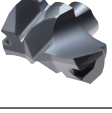
Stahl

INOX

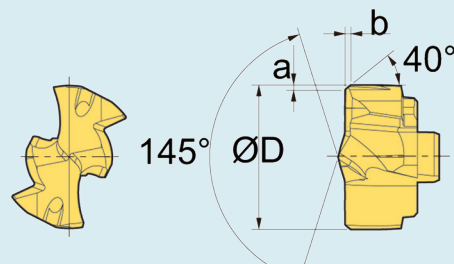
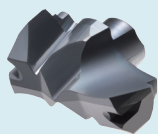
NE Metalle

Ø	Bezeichnung	Typ CP PC5335 Art.-Nr.	Bezeichnung	Typ CM PC330N Art.-Nr.	Bezeichnung	Typ CN H01 Art.-Nr.	Preis	Schlüssel
27.5	TPD2750CP	40.640946						
28.0	TPD2800CP	40.640782	TPD2650CM	40.640885				
28.2	TPD2820CP	40.640947	TPD2700CM	40.640886				
28.5	TPD2850CP	40.640783	TPD2750CM	40.640887				
28.6	TPD2860CP	40.640948	TPD2800CM	40.640888				
29.0	TPD2900CP	40.640784						
29.5	TPD2950CP	40.640785	TPD2850CM	40.640889				
29.9	TPD2990CP	40.640949						
30.0	TPD3000CP	40.640786	TPD2900CM	40.640890	TPD2900CN	40.640898		TPDC- W2630
30.1	TPD3010CP	40.640950	TPD2950CM	40.640891				
30.3	TPD3030CP	40.640951						
30.5	TPD3050CP	40.640787	TPD3000CM	40.640892				

Eigenschaften Bohrkrone

Form	Werkstoff	Bohr Ø [mm]	Eigenschaften
	XP neu P	Ø8,00 - Ø11,99	• Stabiles Klemmsystem für maximale Haltbarkeit • Exzellente Bearbeitungsergebnisse dank der hohen Klemmkraft • Verbesserte Leistung durch die ideale Schmierfähigkeit der neuen Beschichtung
	CP P K	Ø12,00 - Ø30,99	• Hohe Bearbeitungsqualität dank exzellenter Zentrierung • Hervorragende Oberflächengüte und Rundheit • Speziell entwickelte Schneidengeometrie für prozesssichere Spanausbringung
	CM neu M	Ø12,00 - Ø30,99	• Höchste Prozesssicherheit dank minimaler Schnittlast • Spezielles Substrat und Beschichtung zur Vermeidung von Aufbauschneiden und Ausbrüchen
	CN neu N	Ø12,00 - Ø30,99	• Ultra-feines Substrat für maximale Standzeiten • Hervorragende Spanausbringung und minimale Schnittlast dank speziell nachbehandelter, scharfer Schneide
	FC neu P	Ø12,00 - Ø30,99	• Spezielle Schneidkantenometrie für ideale Zentrierung • Variabel einsetzbar auch bei ungünstigen Bedingungen wie schrägen, runden oder unebenen Oberflächen sowie geeignet zum Tauchen und Aufbohren TPDC-FC insert

FC Bohrkrone



Ø	Bezeichnung	Typ CP PC5335 Art.-Nr.	Preis	Schlüssel	Ø	Bezeichnung	Typ CP PC5335 Art.-Nr.	Preis	Schlüssel
12.0	TPD1200CP-FC	40.640790	74.00		22.0	TPD2200CP-FC	40.640804		
13.0	TPD1300CP-FC	40.640791	74.00		23.0	TPD2300CP-FC	40.640805		
14.0	TPD1400CP-FC	40.640792	74.00		23.6	TPD2360CP-FC	40.640939		
14.1	TPD1410CP-FC	40.640793	74.00		24.0	TPD2400CP-FC	40.640807		
15.0	TPD1500CP-FC	40.640794			25.0	TPD2500CP-FC	40.640808		
16.0	TPD1600CP-FC	40.640795			25.5	TPD2550CP-FC	40.640809		
16.5	TPD1650CP-FC	40.640796			25.6	TPD2560CP-FC	40.640810		
17.0	TPD1700CP-FC	40.640797			26.0	TPD2600CP-FC	40.640811		
17.5	TPD1750CP-FC	40.640798			27.0	TPD2700CP-FC	40.640812		
18.0	TPD1800CP-FC	40.640799			28.0	TPD2800CP-FC	40.640813		
19.0	TPD1900CP-FC	40.640800			29.0	TPD2900CP-FC	40.640814		
20.0	TPD2000CP-FC	40.640801			30.0	TPD3000CP-FC	40.640815		
20.1	TPD2010CP-FC	40.640802			30.5	TPD3050CP-FC	40.640816		
21.0	TPD2100CP-FC	40.640803							

S 656W

Bohrstange zum Ansenken und Aufbohren



Anwendbare WSP:

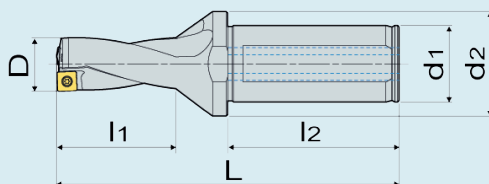
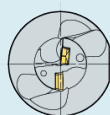
XCNT.. Z54

XCET.. Z57P

Art.Nr.	$\varnothing D$	$\varnothing d$	F_{min}	H	L1	Preis	WSP		Art.Nr.	$\varnothing D$	$\varnothing d$	F_{min}	H	L1	Preis	WSP	
30.300681	11.0	16	3.0	99	22		0401.. 121837		30.301231	25.5	20	5.5	125	50		10T3.. 123509	
30.301218	11.5	16	3.5	99	22		" "		30.300697	26.0	25	6.0	136	52		" "	
30.300682	12.0	16	4.0	101	24		" "		30.301232	26.5	25	6.5	136	52		" "	
30.301219	12.5	16	4.5	101	24		" "		30.300698	27.0	25	7.0	139	54		" "	
30.300683	13.0	16	5.0	105	26		" "		30.301233	27.5	25	7.5	139	54		" "	
30.301220	13.5	16	5.5	105	26		" "		30.300699	28.0	25	8.0	142	56		" "	
30.300684	14.0	16	3.4	86	28		0502.. 12204P		30.301234	28.5	25	8.5	142	56		" "	
30.301221	14.5	16	3.9	86	28		" "		30.300700	29.0	25	9.0	144	58		" "	
30.300685	15.0	16	4.5	88	30		" "		30.301235	29.5	25	9.5	144	58		" "	
30.301222	15.5	16	5.0	88	30		" "		30.300701	30.0	25	10.0	146	58		" "	
30.300686	16.0	16	4.1	92	32		0602.. 12225P		30.301236	30.5	25	10.5	146	58		" "	
30.301223	16.5	16	4.6	92	32		" "		30.300702	31.0	25	5.3	149	62		1304.. 124510	
30.300687	17.0	16	5.1	94	35		" "		30.301237	31.5	25	5.8	149	62		" "	
30.300688	17.5	16	3.4	96	35		0703.. 1225P		30.300703	32.0	25	6.3	152	64		" "	
30.300689	18.0	16	3.9	97	36		" "		30.301238	32.5	25	6.8	152	64		" "	
30.301224	18.5	16	4.4	97	36		" "		30.300704	33.0	32	7.2	163	66		" "	
30.300690	19.0	16	4.9	100	38		" "		30.301239	33.5	32	7.7	163	66		" "	
30.301225	19.5	16	5.4	100	38		" "		30.300705	34.0	32	8.2	167	68		" "	
30.300691	20.0	16	4.2	102	40		0803.. 123008P		30.301240	34.5	32	8.7	167	70		" "	
30.301226	20.5	16	4.7	102	40		" "		30.300706	35.0	32	9.2	169	70		" "	
30.300692	21.0	20	5.2	114	42		" "		30.301241	35.5	32	9.7	169	70		" "	
30.301227	21.5	20	5.7	114	42		" "		30.300707	36.0	32	10.2	169	70		" "	
30.300693	22.0	20	4.0	116	44		09T3.. 123008P		30.301242	36.5	32	10.7	169	70		" "	
30.301228	22.5	20	4.5	116	44		" "		30.300708	37.0	32	11.2	169	70		" "	
30.300694	23.0	20	5.0	119	46		" "		30.301243	37.5	32	11.7	169	70		" "	
30.301229	23.5	20	5.5	119	46		" "		30.300709	38.0	32	12.2	170	70		" "	
30.300695	24.0	20	4.0	122	48		10T3.. 123509P		30.301244	38.5	32	12.7	170	70		" "	
30.301230	24.5	20	4.5	122	48		" "		30.300710	39.0	32	6.2	171	70		1705..	
30.300696	25.0	20	5.0	125	50		" "		30.300711	40.0	32	7.2	172	70		" "	

K2D

Wendeplattenbohrer 2 x D



Anwendbare WSP:

SPMT (ausssen)

XOMT (innen)



Art.Nr.	Bezeichnung	D	d1	d2	l1	l2	L	Preis	WSP		
40.640100	K2D12020-04	12.0	20.0	25.0	27	50	91		SPET040204-ND	FTNA0204	TW06P
40.640101	K2D12520-04	12.5	20.0	25.0	27	50	91		SPMT040204-LD		
40.640102	K2D13020-04	13.0	20.0	25.0	29	50	93		XOET040204-ND		
40.640103	K2D13520-04	13.5	20.0	25.0	29	50	93		XOMT040204-LD		
40.640104	K2D14020-05	14.0	20.0	25.0	31	50	96		SPET050204-ND	FTNA0204	TW06P
40.640105	K2D14520-05	14.5	20.0	25.0	31	50	96		SPMT050204-LD		
40.640106	K2D15020-05	15.0	20.0	25.0	33	50	99		SPMT050204-PD		
40.640107	K2D15520-05	15.5	20.0	25.0	33	50	99		XOET050204-ND		
40.640108	K2D16020-05	16.0	20.0	25.0	35	50	101		XOMT050204-LD	FTKA02206S	TW07P
40.640109	K2D16525-06	16.5	25.0	34.0	35	56	107		XOMT050204-PD		
40.640110	K2D17025-06	17.0	25.0	34.0	37	56	109		SPET060205-ND		
40.640111	K2D17525-06	17.5	25.0	34.0	37	56	109		SPMT060205-LD		
40.640112	K2D18025-06	18.0	25.0	34.0	39	56	112		SPMT060205-PD	FTKA02565	TW07S
40.640113	K2D18525-06	18.5	25.0	34.0	39	56	112		XOET060204-ND		
40.640114	K2D19025-06	19.0	25.0	34.0	41	56	114		XOMT060204-LD		
40.640115	K2D19525-06	19.5	25.0	34.0	41	56	114		XOMT060204-PD		
40.640116	K2D20025-07	20.0	25.0	34.0	43	56	118		SPET07T208-ND	FTKA02565	TW07S
40.640117	K2D20525-07	20.5	25.0	34.0	43	56	118		SPMT07T208-LD		
40.640118	K2D21025-07	21.0	25.0	34.0	45	56	120		SPMT07T208-PD		
40.640119	K2D21525-07	21.5	25.0	34.0	45	56	120		XOET07T205-ND		
40.640120	K2D22025-07	22.0	25.0	34.0	47	56	122		XOMT07T205-LD	FTKA02565	TW07S
40.640121	K2D22525-07	22.5	25.0	34.0	47	56	122		XOMT07T205-PD		
40.640122	K2D23025-07	23.0	25.0	34.0	49	56	126				
40.640123	K2D23525-07	23.5	25.0	34.0	49	56	126				

P (Stahl)	●	●	●	●			ND -Aluminiumbearbeitung
M (Rostfrei)	▲	●	●	●			
K (Eisenguss)	▲			●	●		LD -gute Spankontrolle bei der Bearbeitung von Baustahl und rostfreiem Stahl -leichter Schnitt bei niedriger bis mittlerer Geschwindigkeit und kleinem Vorschub
N (NE-Metalle, Alu)	●						
S (Super Legierungen)		●	●	●			PD -Universal für mittlere Geschwindigkeit und Vorschub

H=Hartmetall	H	H	H	H	H	H	SPET..& XOET..ND Sorte H01 (K)	für Alu-Bearbeitung
ISO-Bezeichnung	K10	P30	P30	P35	M30	K10	SPMT..& XOMT..LD Sorte PC3535 (P,M)	für Stahl- & INOX-Bearbeitung
HM Sorten	H01	PC3500	NC5330	PC5335	PC5300	PC6510	SPMT..& XOMT..PD Sorte PC5300 (P,M,K,S)	universal für Stahl- & INOX-Bearbeitung
							SPMT..& XOMT..PD Sorte PC6510 (K)	für Guss-Bearbeitung

K2D
Wendeplattenbohrer 2 x D


Art.Nr.	Bezeichnung	D	d1	d2	l1	l2	L	Preis	WSP		
40.640124	K2D24032-09	24.0	32.0	44.0	51	60	133		SPET090308-ND SPMT090308-LD SPMT090308-PD XOET090305-ND XOMT090305-LD XOMT090305-PD	FTKA0307	TW09S
40.640125	K2D24532-09	24.5	32.0	44.0	51	60	133				
40.640126	K2D25032-09	25.0	32.0	44.0	53	60	135				
40.640127	K2D25532-09	25.5	32.0	44.0	53	60	135				
40.640128	K2D26032-09	26.0	32.0	44.0	55	60	137				
40.640129	K2D26532-09	26.5	32.0	44.0	55	60	137				
40.640130	K2D27032-09	27.0	32.0	44.0	57	60	140				
40.640131	K2D27532-09	27.5	32.0	44.0	57	60	140				
40.640132	K2D28032-09	28.0	32.0	44.0	59	60	143				
40.640133	K2D28532-09	28.5	32.0	44.0	59	60	143				
40.640134	K2D29032-09	29.0	32.0	44.0	61	60	145		SPET11T308-ND SPMT11T308-LD SPMT11T308-PD XOET11T306-ND XOMT11T306-LD XOMT11T306-PD	FTKA03508	TW15S
40.640135	K2D29532-09	29.5	32.0	44.0	61	60	145				
40.640136	K2D30032-11	30.0	32.0	44.0	63	60	150				
40.640137	K2D30532-11	30.5	32.0	44.0	63	60	150				
40.640138	K2D31032-11	31.0	32.0	44.0	65	60	152				
40.640139	K2D31532-11	31.5	32.0	44.0	65	60	152				
40.640140	K2D32032-11	32.0	32.0	44.0	67	60	154				
40.640141	K2D32532-11	32.5	32.0	44.0	67	60	154				
40.640142	K2D33032-11	33.0	32.0	44.0	69	60	157				
40.640143	K2D33532-11	33.5	32.0	44.0	69	60	157				
40.640144	K2D34032-11	34.0	32.0	44.0	71	60	159		SPET130410-ND SPMT130410-LD SPMT130410-PD XOET130406-ND XOMT130406-LD XOMT130406-PD	FTKA0410	TW15S
40.640145	K2D34532-11	34.5	32.0	44.0	71	60	159				
40.640146	K2D35032-11	35.0	32.0	44.0	73	60	161				
40.640147	K2D35532-11	35.5	32.0	44.0	73	60	161				
40.640148	K2D36040-13	36.0	40.0	48.0	76	70	176				
40.640149	K2D36540-13	36.5	40.0	48.0	76	70	176				
40.640150	K2D37040-13	37.0	40.0	48.0	78	70	178				
40.640151	K2D37540-13	37.5	40.0	48.0	78	70	178				
40.640152	K2D38040-13	38.0	40.0	48.0	80	70	181				
40.640153	K2D38540-13	38.5	40.0	48.0	80	70	181				
40.640154	K2D39040-13	39.0	40.0	48.0	82	70	183				
40.640155	K2D39540-13	39.5	40.0	48.0	82	70	183				
40.640156	K2D40040-13	40.0	40.0	48.0	84	70	186				
40.640157	K2D40540-13	40.5	40.0	48.0	84	70	186				
40.640158	K2D41040-13	41.0	40.0	48.0	86	70	188				
40.640159	K2D41540-13	41.5	40.0	48.0	86	70	188				
40.640160	K2D42040-13	42.0	40.0	48.0	88	70	191				
40.640161	K2D42540-13	42.5	40.0	48.0	88	70	191				

K2D Wendeplattenbohrer 2 x D



Art.Nr.	Bezeichnung	D	d1	d2	l1	l2	L	Preis	WSP		
40.640162	K2D43040-15	43.0	40.0	58.0	91	70	196		SPET15M510-ND SPMT15M510-LD SPMT15M510-PD XOET15M508-ND XOMT15M508-LD XOMT15M508-PD	FTNC04511	TW20S
40.640163	K2D43540-15	43.5	40.0	58.0	91	70	196				
40.640164	K2D44040-15	44.0	40.0	58.0	93	70	198				
40.640165	K2D44540-15	44.5	40.0	58.0	93	70	198				
40.640166	K2D45040-15	45.0	40.0	58.0	95	70	201				
40.640167	K2D45540-15	45.5	40.0	58.0	95	70	201				
40.640168	K2D46040-15	46.0	40.0	58.0	97	70	203				
40.640169	K2D46540-15	46.5	40.0	58.0	97	70	203				
40.640170	K2D47040-15	47.0	40.0	58.0	99	70	206				
40.640171	K2D47540-15	47.5	40.0	58.0	99	70	206				
40.640172	K2D48040-15	48.0	40.0	58.0	101	70	208				
40.640173	K2D48540-15	48.5	40.0	58.0	101	70	208				
40.640174	K2D49040-15	49.0	40.0	58.0	103	70	210				
40.640175	K2D49540-15	49.5	40.0	58.0	103	70	210				
40.640176	K2D50040-15	50.0	40.0	58.0	105	70	212				
40.640177	K2D50540-15	50.5	40.0	58.0	105	70	212		SPET180510-ND SPMT180510-LD SPMT180510-PD XOET180508-ND XOMT180508-LD XOMT180508-PD	FTNA0511	TW20-100
40.640178	K2D51040-18	51.0	40.0	68.0	108	70	218				
40.640179	K2D51540-18	51.5	40.0	68.0	108	70	218				
40.640180	K2D52040-18	52.0	40.0	68.0	110	70	220				
40.640181	K2D52540-18	52.5	40.0	68.0	110	70	220				
40.640182	K2D53040-18	53.0	40.0	68.0	112	70	222				
40.640183	K2D53540-18	53.5	40.0	68.0	112	70	222				
40.640184	K2D54040-18	54.0	40.0	68.0	114	70	224				
40.640185	K2D54540-18	54.5	40.0	68.0	114	70	224				
40.640186	K2D55040-18	55.0	40.0	68.0	116	70	226				
40.640187	K2D55540-18	55.5	40.0	68.0	116	70	226				
40.640188	K2D56040-18	56.0	40.0	68.0	118	70	230				
40.640189	K2D56540-18	56.5	40.0	68.0	118	70	230				
40.640190	K2D57040-18	57.0	40.0	68.0	121	70	233				
40.640191	K2D57540-18	57.5	40.0	68.0	121	70	233				
40.640192	K2D58040-18	58.0	40.0	68.0	124	70	236				
40.640193	K2D58540-18	58.5	40.0	68.0	124	70	236				
40.640194	K2D59040-18	59.0	40.0	68.0	127	70	239				
40.640195	K2D59540-18	59.5	40.0	68.0	127	70	239				
40.640196	K2D60040-18	60.0	40.0	68.0	130	70	242				
40.640197	K2D60540-18	60.5	40.0	68.0	130	70	242				

XOMT

Schnitte:

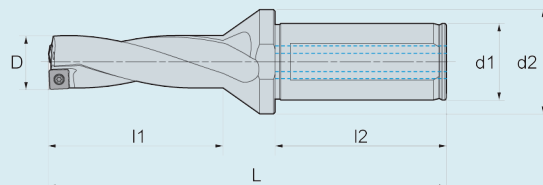
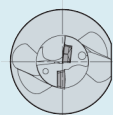
- Hauptanwendung
- ▲ Nebenanwendung
- ✕ leicht unterbrochen

Geometrie

✖ stark unterbrochen

K3D

Wendeplattenbohrer 3 x D



Anwendbare WSP:

SPMT (ausser)

XOMT (innen)



Art.Nr.	Bezeichnung	D	d1	d2	l1	l2	L	Preis	WSP		
40.640237	K3D12020-04	12.0	20.0	25.0	39	50	103		SPET040204-ND SPMT040204-LD	FTNA0204	TW06P
40.640238	K3D12520-04	12.5	20.0	25.0	39	50	103		SPMT040204-PD		
40.640239	K3D13020-04	13.0	20.0	25.0	42	50	106		XOET040204-ND XOMT040204-LD		
40.640240	K3D13520-04	13.5	20.0	25.0	42	50	106		XOMT040204-PD		
40.640241	K3D14020-05	14.0	20.0	25.0	45	50	110		SPET050204-ND	FTNA0204	TW06P
40.640242	K3D14520-05	14.5	20.0	25.0	45	50	110		SPMT050204-LD		
40.640243	K3D15020-05	15.0	20.0	25.0	48	50	114		SPMT050204-PD		
40.640244	K3D15520-05	15.5	20.0	25.0	48	50	114		XOET050204-ND		
40.640245	K3D16020-05	16.0	20.0	25.0	51	50	117		XOMT050204-LD	FTKA02206S	TW07P
40.640246	K3D16525-06	16.5	25.0	34.0	51	56	123		XOMT050204-PD		
40.640247	K3D17025-06	17.0	25.0	34.0	54	56	126		SPET060205-ND		
40.640248	K3D17525-06	17.5	25.0	34.0	54	56	126		SPMT060205-LD		
40.640249	K3D18025-06	18.0	25.0	34.0	57	56	130		SPMT060205-PD	FTKA02565	TW07S
40.640250	K3D18525-06	18.5	25.0	34.0	57	56	130		XOET060204-ND		
40.640251	K3D19025-06	19.0	25.0	34.0	60	56	133		XOMT060204-LD		
40.640252	K3D19525-06	19.5	25.0	34.0	60	56	133		XOMT060204-PD		
40.640253	K3D20025-07	20.0	25.0	34.0	63	56	138		SPET07T208-ND	FTKA02565	TW07S
40.640254	K3D20525-07	20.5	25.0	34.0	63	56	138		SPMT07T208-LD		
40.640255	K3D21025-07	21.0	25.0	34.0	66	56	141		SPMT07T208-PD		
40.640256	K3D21525-07	21.5	25.0	34.0	66	56	141		XOET07T205-ND		
40.640257	K3D22025-07	22.0	25.0	34.0	69	56	144		XOMT07T205-LD	FTKA02565	TW07S
40.640258	K3D22525-07	22.5	25.0	34.0	69	56	144		XOMT07T205-PD		
40.640259	K3D23025-07	23.0	25.0	34.0	72	56	149				
40.640260	K3D23525-07	23.5	25.0	34.0	72	56	149				

P (Stahl)	●	●	●	●			ND -Aluminiumbearbeitung
M (Rostfrei)	▲	●	●	●			LD -gute Spankontrolle bei der Bearbeitung von Baustahl und rostfreiem Stahl
K (Eisenguss)	▲			●	●		-leichter Schnitt bei niedriger bis mittlerer Geschwindigkeit und kleinem Vorschub
N (NE-Metalle, Alu)	●						PD -Universal für mittlere Geschwindigkeit und Vorschub
S (Super Legierungen)		●	●	●			

H=Hartmetall	H	H	H	H	H	H	SPET..& XOET..ND Sorte H01 (K)	für Alu-Bearbeitung
ISO-Bezeichnung	K10	P30	P30	P35	M30	K10	SPMT..& XOMT..LD Sorte PC3535 (P,M)	für Stahl- & INOX-Bearbeitung
HM Sorten	H01	PC3500	NC5330	PC5335	PC5300	PC6510	SPMT..& XOMT..PD Sorte PC5300 (P,M,K,S)	universal für Stahl- & INOX-Bearbeitung
							SPMT..& XOMT..PD Sorte PC6510 (K)	für Guss-Bearbeitung

K3D Wendeplattenbohrer 3 x D



Art.Nr.	Bezeichnung	D	d1	d2	l1	l2	L	Preis	WSP		
40.640261	K3D24032-09	24.0	32.0	44.0	75	60	157		SPET090308-ND SPMT090308-LD SPMT090308-PD XOET090305-ND XOMT090305-LD XOMT090305-PD	FTKA0307	TW09S
40.640262	K3D24532-09	24.5	32.0	44.0	75	60	157				
40.640263	K3D25032-09	25.0	32.0	44.0	78	60	160				
40.640264	K3D25532-09	25.5	32.0	44.0	78	60	160				
40.640265	K3D26032-09	26.0	32.0	44.0	81	60	163				
40.640266	K3D26532-09	26.5	32.0	44.0	81	60	163				
40.640267	K3D27032-09	27.0	32.0	44.0	84	60	167				
40.640268	K3D27532-09	27.5	32.0	44.0	84	60	167				
40.640269	K3D28032-09	28.0	32.0	44.0	87	60	171				
40.640270	K3D28532-09	28.5	32.0	44.0	87	60	171				
40.640271	K3D29032-09	29.0	32.0	44.0	90	60	174		SPET11T308-ND SPMT11T308-LD SPMT11T308-PD XOET11T306-ND XOMT11T306-LD XOMT11T306-PD	FTKA03508	TW15S
40.640272	K3D29532-09	29.5	32.0	44.0	90	60	174				
40.640273	K3D30032-11	30.0	32.0	44.0	93	60	180				
40.640274	K3D30532-11	30.5	32.0	44.0	93	60	180				
40.640275	K3D31032-11	31.0	32.0	44.0	96	60	183				
40.640276	K3D31532-11	31.5	32.0	44.0	96	60	183				
40.640277	K3D32032-11	32.0	32.0	44.0	99	60	186				
40.640278	K3D32532-11	32.5	32.0	44.0	99	60	186				
40.640279	K3D33032-11	33.0	32.0	44.0	102	60	190				
40.640280	K3D33532-11	33.5	32.0	44.0	102	60	190				
40.640281	K3D34032-11	34.0	32.0	44.0	105	60	193		SPET130410-ND SPMT130410-LD SPMT130410-PD XOET130406-ND XOMT130406-LD XOMT130406-PD	FTKA0410	TW15S
40.640282	K3D34532-11	34.5	32.0	44.0	105	60	193				
40.640283	K3D35032-11	35.0	32.0	44.0	108	60	196				
40.640284	K3D35532-11	35.5	32.0	44.0	108	60	196				
40.640285	K3D36040-13	36.0	40.0	48.0	112	70	212				
40.640286	K3D36540-13	36.5	40.0	48.0	112	70	212				
40.640287	K3D37040-13	37.0	40.0	48.0	115	70	215				
40.640288	K3D37540-13	37.5	40.0	48.0	115	70	215				
40.640289	K3D38040-13	38.0	40.0	48.0	118	70	219				
40.640290	K3D38540-13	38.5	40.0	48.0	118	70	219				
40.640291	K3D39040-13	39.0	40.0	48.0	121	70	222				
40.640292	K3D39540-13	39.5	40.0	48.0	121	70	222				
40.640293	K3D40040-13	40.0	40.0	48.0	124	70	226				
40.640294	K3D40540-13	40.5	40.0	48.0	124	70	226				
40.640295	K3D41040-13	41.0	40.0	48.0	127	70	229				
40.640296	K3D41540-13	41.5	40.0	48.0	127	70	229				
40.640297	K3D42040-13	42.0	40.0	48.0	130	70	233				
40.640298	K3D42540-13	42.5	40.0	48.0	130	70	233				

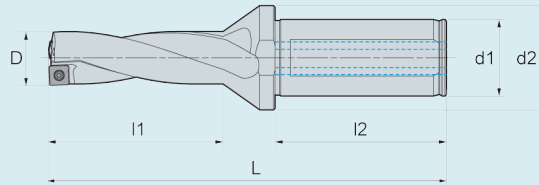
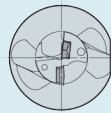
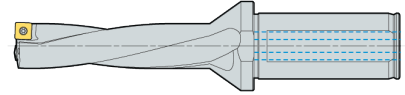
K3D Wendeplattenbohrer 3 x D



Art.Nr.	Bezeichnung	D	d1	d2	l1	l2	L	Preis	WSP		
40.640299	K3D43040-15	43.0	40.0	58.0	134	70	239		SPET15M510-ND SPMT15M510-LD SPMT15M510-PD XOET15M508-ND XOMT15M508-LD XOMT15M508-PD	FTNC04511	TW20S
40.640300	K3D43540-15	43.5	40.0	58.0	134	70	239				
40.640301	K3D44040-15	44.0	40.0	58.0	137	70	242				
40.640302	K3D44540-15	44.5	40.0	58.0	137	70	242				
40.640303	K3D45040-15	45.0	40.0	58.0	140	70	246				
40.640304	K3D45540-15	45.5	40.0	58.0	140	70	246				
40.640305	K3D46040-15	46.0	40.0	58.0	143	70	249				
40.640306	K3D46540-15	46.5	40.0	58.0	143	70	249				
40.640307	K3D47040-15	47.0	40.0	58.0	146	70	253				
40.640308	K3D47540-15	47.5	40.0	58.0	146	70	253				
40.640309	K3D48040-15	48.0	40.0	58.0	149	70	256				
40.640310	K3D48540-15	48.5	40.0	58.0	149	70	256				
40.640311	K3D49040-15	49.0	40.0	58.0	152	70	259				
40.640312	K3D49540-15	49.5	40.0	58.0	152	70	259				
40.640313	K3D50040-15	50.0	40.0	58.0	155	70	262				
40.640314	K3D50540-15	50.5	40.0	58.0	155	70	262		SPET180510-ND SPMT180510-LD SPMT180510-PD XOET180508-ND XOMT180508-LD XOMT180508-PD	FTNA0511	TW20-100
40.640315	K3D51040-18	51.0	40.0	68.0	159	70	269				
40.640316	K3D51540-18	51.5	40.0	68.0	159	70	269				
40.640317	K3D52040-18	52.0	40.0	68.0	162	70	272				
40.640318	K3D52540-18	52.5	40.0	68.0	162	70	272				
40.640319	K3D53040-18	53.0	40.0	68.0	165	70	275				
40.640320	K3D53540-18	53.5	40.0	68.0	165	70	275				
40.640321	K3D54040-18	54.0	40.0	68.0	168	70	278				
40.640322	K3D54540-18	54.5	40.0	68.0	168	70	278				
40.640323	K3D55040-18	55.0	40.0	68.0	171	70	281				
40.640324	K3D55540-18	55.5	40.0	68.0	171	70	281				
40.640325	K3D56040-18	56.0	40.0	68.0	174	70	286				
40.640326	K3D56540-18	56.5	40.0	68.0	174	70	286				
40.640327	K3D57040-18	57.0	40.0	68.0	178	70	290				
40.640328	K3D57540-18	57.5	40.0	68.0	178	70	290				
40.640329	K3D58040-18	58.0	40.0	68.0	182	70	294				
40.640330	K3D58540-18	58.5	40.0	68.0	182	70	294				
40.640331	K3D59040-18	59.0	40.0	68.0	186	70	298				
40.640332	K3D59540-18	59.5	40.0	68.0	186	70	298				
40.640333	K3D60040-18	60.0	40.0	68.0	190	70	302				
40.640334	K3D60540-18	60.5	40.0	68.0	190	70	302				

K4D

Wendeplattenbohrer 4 x D



Anwendbare WSP:

SPMT (ausser)

XOMT (innen)

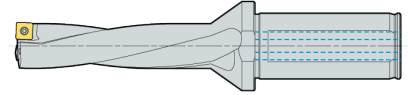


Art.Nr.	Bezeichnung	D	d1	d2	l1	l2	L	Preis	WSP		
40.640335	K4D12020-04	12.0	20.0	25.0	51	50	115		SPET040204-ND SPMT040204-LD	FTNA0204	TW06P
40.640336	K4D12520-04	12.5	20.0	25.0	51	50	115		SPMT040204-PD		
40.640337	K4D13020-04	13.0	20.0	25.0	55	50	119		XOET040204-ND XOMT040204-LD		
40.640338	K4D13520-04	13.5	20.0	25.0	55	50	119		XOMT040204-PD		
40.640339	K4D14020-05	14.0	20.0	25.0	59	50	124		SPET050204-ND SPMT050204-LD	FTNA0204	TW06P
40.640340	K4D14520-05	14.5	20.0	25.0	59	50	124		SPMT050204-PD		
40.640341	K4D15020-05	15.0	20.0	25.0	63	50	129		XOET050204-ND XOMT050204-LD		
40.640342	K4D15520-05	15.5	20.0	25.0	63	50	129		XOMT050204-PD		
40.640343	K4D16020-05	16.0	20.0	25.0	67	50	133			FTKA02206S	TW07P
40.640344	K4D16525-06	16.5	25.0	34.0	67	56	139		SPET060205-ND SPMT060205-LD		
40.640345	K4D17025-06	17.0	25.0	34.0	71	56	143		SPMT060205-PD		
40.640346	K4D17525-06	17.5	25.0	34.0	71	56	143				
40.640347	K4D18025-06	18.0	25.0	34.0	75	56	148		XOET060204-ND XOMT060204-LD		
40.640348	K4D18525-06	18.5	25.0	34.0	75	56	148		XOMT060204-PD		
40.640349	K4D19025-06	19.0	25.0	34.0	79	56	152			FTKA02565	TW07S
40.640350	K4D19525-06	19.5	25.0	34.0	79	56	152				
40.640351	K4D20025-07	20.0	25.0	34.0	83	56	158		SPET07T208-ND SPMT07T208-LD		
40.640352	K4D20525-07	20.5	25.0	34.0	83	56	158		SPMT07T208-PD		
40.640353	K4D21025-07	21.0	25.0	34.0	87	56	162				
40.640354	K4D21525-07	21.5	25.0	34.0	87	56	162				
40.640355	K4D22025-07	22.0	25.0	34.0	91	56	166		XOET07T205-ND XOMT07T205-LD		
40.640356	K4D22525-07	22.5	25.0	34.0	91	56	166		XOMT07T205-PD		
40.640357	K4D23025-07	23.0	25.0	34.0	95	56	172				
40.640358	K4D23525-07	23.5	25.0	34.0	95	56	172				

P (Stahl)	●	●	●	●			ND -Aluminiumbearbeitung
M (Rostfrei)	▲	●	●	●			
K (Eisenguss)	▲			●	●		LD -gute Spankontrolle bei der Bearbeitung von Baustahl und rostfreiem Stahl -leichter Schnitt bei niedriger bis mittlerer Geschwindigkeit und kleinem Vorschub
N (NE-Metalle, Alu)	●						
S (Super Legierungen)		●	●	●			PD -Universal für mittlere Geschwindigkeit und Vorschub

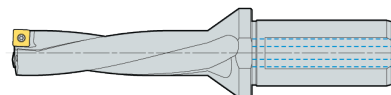
H=Hartmetall	H	H	H	H	H	H	SPET..& XOET..ND Sorte H01 (K)	für Alu-Bearbeitung
ISO-Bezeichnung	K10	P30	P30	P35	M30	K10	SPMT..& XOMT..LD Sorte PC3535 (P,M)	für Stahl- & INOX-Bearbeitung
HM Sorten	H01	PC3500	NC5330	PC5335	PC5300	PC6510	SPMT..& XOMT..PD Sorte PC5300 (P,M,K,S)	universal für Stahl- & INOX-Bearbeitung
							SPMT..& XOMT..PD Sorte PC6510 (K)	für Guss-Bearbeitung

K4D Wendeplattenbohrer 4 x D



Art.Nr.	Bezeichnung	D	d1	d2	l1	l2	L	Preis	WSP		
40.640359	K4D24032-09	24.0	32.0	44.0	99	60	181		SPET090308-ND SPMT090308-LD SPMT090308-PD XOET090305-ND XOMT090305-LD XOMT090305-PD	FTKA0307	TW09S
40.640360	K4D24532-09	24.5	32.0	44.0	99	60	181				
40.640361	K4D25032-09	25.0	32.0	44.0	103	60	185				
40.640362	K4D25532-09	25.5	32.0	44.0	103	60	185				
40.640363	K4D26032-09	26.0	32.0	44.0	107	60	189				
40.640364	K4D26532-09	26.5	32.0	44.0	107	60	189				
40.640365	K4D27032-09	27.0	32.0	44.0	111	60	194				
40.640366	K4D27532-09	27.5	32.0	44.0	111	60	194				
40.640367	K4D28032-09	28.0	32.0	44.0	115	60	199				
40.640368	K4D28532-09	28.5	32.0	44.0	115	60	199				
40.640369	K4D29032-09	29.0	32.0	44.0	119	60	203		SPET11T308-ND SPMT11T308-LD SPMT11T308-PD XOET11T306-ND XOMT11T306-LD XOMT11T306-PD	FTKA03508	TW15S
40.640370	K4D29532-09	29.5	32.0	44.0	119	60	203				
40.640371	K4D30032-11	30.0	32.0	44.0	123	60	210				
40.640372	K4D30532-11	30.5	32.0	44.0	123	60	210				
40.640373	K4D31032-11	31.0	32.0	44.0	127	60	214				
40.640374	K4D31532-11	31.5	32.0	44.0	127	60	214				
40.640375	K4D32032-11	32.0	32.0	44.0	131	60	218				
40.640376	K4D32532-11	32.5	32.0	44.0	131	60	218				
40.640377	K4D33032-11	33.0	32.0	44.0	135	60	223				
40.640378	K4D33532-11	33.5	32.0	44.0	135	60	223				
40.640379	K4D34032-11	34.0	32.0	44.0	139	60	227		SPET130410-ND SPMT130410-LD SPMT130410-PD XOET130406-ND XOMT130406-LD XOMT130406-PD	FTKA0410	TW15S
40.640380	K4D34532-11	34.5	32.0	44.0	139	60	227				
40.640381	K4D35032-11	35.0	32.0	44.0	143	60	231				
40.640382	K4D35532-11	35.5	32.0	44.0	143	60	231				
40.640383	K4D36040-13	36.0	40.0	48.0	148	70	248				
40.640384	K4D36540-13	36.5	40.0	48.0	148	70	248				
40.640385	K4D37040-13	37.0	40.0	48.0	152	70	252				
40.640386	K4D37540-13	37.5	40.0	48.0	152	70	252				
40.640387	K4D38040-13	38.0	40.0	48.0	156	70	257				
40.640388	K4D38540-13	38.5	40.0	48.0	156	70	257				
40.640389	K4D39040-13	39.0	40.0	48.0	160	70	261				
40.640390	K4D39540-13	39.5	40.0	48.0	160	70	261				
40.640391	K4D40040-13	40.0	40.0	48.0	164	70	266				
40.640392	K4D40540-13	40.5	40.0	48.0	164	70	266				
40.640393	K4D41040-13	41.0	40.0	48.0	168	70	270				
40.640394	K4D41540-13	41.5	40.0	48.0	168	70	270				
40.640395	K4D42040-13	42.0	40.0	48.0	172	70	275				
40.640396	K4D42540-13	42.5	40.0	48.0	172	70	275				

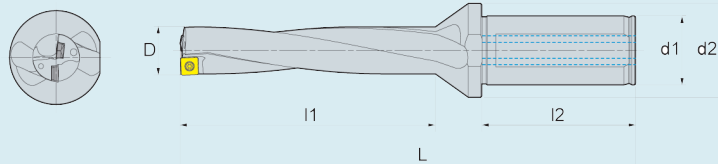
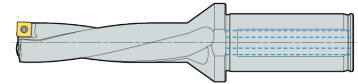
K4D Wendeplattenbohrer 4 x D



Art.Nr.	Bezeichnung	D	d1	d2	l1	l2	L	Preis	WSP		
40.640397	K4D43040-15	43.0	40.0	58.0	177	70	282		SPET15M510-ND SPMT15M510-LD SPMT15M510-PD XOET15M508-ND XOMT15M508-LD XOMT15M508-PD	FTNC04511	TW20S
40.640398	K4D43540-15	43.5	40.0	58.0	177	70	282				
40.640399	K4D44040-15	44.0	40.0	58.0	181	70	286				
40.640400	K4D44540-15	44.5	40.0	58.0	181	70	286				
40.640401	K4D45040-15	45.0	40.0	58.0	185	70	291				
40.640402	K4D45540-15	45.5	40.0	58.0	185	70	291				
40.640403	K4D46040-15	46.0	40.0	58.0	189	70	295				
40.640404	K4D46540-15	46.5	40.0	58.0	189	70	295				
40.640405	K4D47040-15	47.0	40.0	58.0	193	70	300				
40.640406	K4D47540-15	47.5	40.0	58.0	193	70	300				
40.640407	K4D48040-15	48.0	40.0	58.0	197	70	304				
40.640408	K4D48540-15	48.5	40.0	58.0	197	70	304				
40.640409	K4D49040-15	49.0	40.0	58.0	201	70	308				
40.640410	K4D49540-15	49.5	40.0	58.0	201	70	308				
40.640411	K4D50040-15	50.0	40.0	58.0	205	70	312		SPET180510-ND SPMT180510-LD SPMT180510-PD XOET180508-ND XOMT180508-LD XOMT180508-PD	FTNA0511	TW20-100
40.640412	K4D50540-15	50.5	40.0	58.0	205	70	312				
40.640413	K4D51040-18	51.0	40.0	68.0	210	70	320				
40.640414	K4D51540-18	51.5	40.0	68.0	210	70	320				
40.640415	K4D52040-18	52.0	40.0	68.0	214	70	324				
40.640416	K4D52540-18	52.5	40.0	68.0	214	70	324				
40.640417	K4D53040-18	53.0	40.0	68.0	218	70	328				
40.640418	K4D53540-18	53.5	40.0	68.0	218	70	328				
40.640419	K4D54040-18	54.0	40.0	68.0	222	70	332				
40.640420	K4D54540-18	54.5	40.0	68.0	222	70	332				
40.640421	K4D55040-18	55.0	40.0	68.0	226	70	336				
40.640422	K4D55540-18	55.5	40.0	68.0	226	70	336				
40.640423	K4D56040-18	56.0	40.0	68.0	230	70	342				
40.640424	K4D56540-18	56.5	40.0	68.0	230	70	342				
40.640425	K4D57040-18	57.0	40.0	68.0	235	70	347				
40.640426	K4D57540-18	57.5	40.0	68.0	235	70	347				
40.640427	K4D58040-18	58.0	40.0	68.0	240	70	352				
40.640428	K4D58540-18	58.5	40.0	68.0	240	70	352				
40.640429	K4D59040-18	59.0	40.0	68.0	245	70	357				
40.640430	K4D59540-18	59.5	40.0	68.0	245	70	357				
40.640431	K4D60040-18	60.0	40.0	68.0	250	70	362				
40.640432	K4D60540-18	60.5	40.0	68.0	250	70	362				

K5D

Wendeplattenbohrer 5 x D



Anwendbare WSP:

SPMT (ausser)

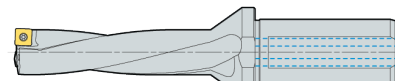
XOMT (innen)

Art.Nr.	Bezeichnung	D	d1	d2	l1	l2	L	Preis	WSP		
40.640433	K5D12020-04	12.0	20.0	25.0	63	50	127		SPET040204-ND	FTNA0204	TW06P
40.640434	K5D12520-04	12.5	20.0	25.0	63	50	127		SPMT040204-LD		
40.640435	K5D13020-04	13.0	20.0	25.0	68	50	132		SPMT040204-PD		
40.640436	K5D13520-04	13.5	20.0	25.0	68	50	132		XOET040204-ND		
40.640437	K5D14020-05	14.0	20.0	25.0	73	50	138		XOMT040204-LD	FTNA0204	TW06P
40.640438	K5D14520-05	14.5	20.0	25.0	73	50	138		XOMT040204-PD		
40.640439	K5D15020-05	15.0	20.0	25.0	78	50	144		SPET050204-ND		
40.640440	K5D15520-05	15.5	20.0	25.0	78	50	144		SPMT050204-LD		
40.640441	K5D16020-05	16.0	20.0	25.0	83	50	149		SPMT050204-PD	FTKA02206S	TW07P
40.640442	K5D16525-06	16.5	25.0	34.0	83	56	155		XOET050204-ND		
40.640443	K5D17025-06	17.0	25.0	34.0	88	56	160		XOMT050204-LD		
40.640444	K5D17525-06	17.5	25.0	34.0	88	56	160		XOMT050204-PD		
40.640445	K5D18025-06	18.0	25.0	34.0	93	56	166		SPET060205-ND	FTKA02565	TW07S
40.640446	K5D18525-06	18.5	25.0	34.0	93	56	166		SPMT060205-LD		
40.640447	K5D19025-06	19.0	25.0	34.0	98	56	171		SPMT060205-PD		
40.640448	K5D19525-06	19.5	25.0	34.0	98	56	171		XOET060204-ND		
40.640449	K5D20025-07	20.0	25.0	34.0	103	56	178		XOMT060204-LD	FTKA02565	TW07S
40.640450	K5D20525-07	20.5	25.0	34.0	103	56	178		XOMT060204-PD		
40.640451	K5D21025-07	21.0	25.0	34.0	108	56	183		SPET07T208-ND		
40.640452	K5D21525-07	21.5	25.0	34.0	108	56	183		SPMT07T208-LD		
40.640453	K5D22025-07	22.0	25.0	34.0	113	56	188		SPMT07T208-PD	FTKA02565	TW07S
40.640454	K5D22525-07	22.5	25.0	34.0	113	56	188		XOET07T205-ND		
40.640455	K5D23025-07	23.0	25.0	34.0	118	56	195		XOMT07T205-LD		
40.640456	K5D23525-07	23.5	25.0	34.0	118	56	195		XOMT07T205-PD		

P (Stahl)	●	●	●	●			ND -Aluminiumbearbeitung
M (Rostfrei)	▲	●	●	●			LD -gute Spankontrolle bei der Bearbeitung von Baustahl und rostfreiem Stahl
K (Eisenguss)	▲			●	●		-leichter Schnitt bei niedriger bis mittlerer Geschwindigkeit und kleinem Vorschub
N (NE-Metalle, Alu)	●						PD -Universal für mittlere Geschwindigkeit und Vorschub
S (Super Legierungen)		●	●	●			

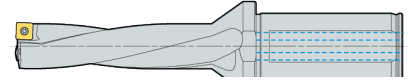
H=Hartmetall	H	H	H	H	H	H	SPET..& XOET..ND Sorte H01 (K)	für Alu-Bearbeitung
ISO-Bezeichnung	K10	P30	P30	P35	M30	K10	SPMT..& XOMT..LD Sorte PC3535 (P,M)	für Stahl- & INOX-Bearbeitung
HM Sorten	H01	PC3500	NC5330	PC5335	PC5300	PC6510	SPMT..& XOMT..PD Sorte PC5300 (P,M,K,S)	universal für Stahl- & INOX-Bearbeitung
							SPMT..& XOMT..PD Sorte PC6510 (K)	für Guss-Bearbeitung

K5D Wendeplattenbohrer 5 x D



Art.Nr.	Bezeichnung	D	d1	d2	l1	l2	L	Preis	WSP		
40.640457	K5D24032-09	24.0	32.0	44.0	123	60	205		SPET090308-ND SPMT090308-LD SPMT090308-PD XOET090305-ND XOMT090305-LD XOMT090305-PD	FTKA0307	TW09S
40.640458	K5D24532-09	24.5	32.0	44.0	123	60	205				
40.640459	K5D25032-09	25.0	32.0	44.0	128	60	210				
40.640460	K5D25532-09	25.5	32.0	44.0	128	60	210				
40.640461	K5D26032-09	26.0	32.0	44.0	133	60	215				
40.640462	K5D26532-09	26.5	32.0	44.0	133	60	215				
40.640463	K5D27032-09	27.0	32.0	44.0	138	60	221				
40.640464	K5D27532-09	27.5	32.0	44.0	138	60	221				
40.640465	K5D28032-09	28.0	32.0	44.0	143	60	227				
40.640466	K5D28532-09	28.5	32.0	44.0	143	60	227				
40.640467	K5D29032-09	29.0	32.0	44.0	148	60	232				
40.640468	K5D29532-09	29.5	32.0	44.0	148	60	232				
40.640469	K5D30032-11	30.0	32.0	44.0	153	60	240		SPET11T308-ND SPMT11T308-LD SPMT11T308-PD XOET11T306-ND XOMT11T306-LD XOMT11T306-PD	FTKA03508	TW15S
40.640470	K5D30532-11	30.5	32.0	44.0	153	60	240				
40.640471	K5D31032-11	31.0	32.0	44.0	158	60	245				
40.640472	K5D31532-11	31.5	32.0	44.0	158	60	245				
40.640473	K5D32032-11	32.0	32.0	44.0	163	60	250				
40.640474	K5D32532-11	32.5	32.0	44.0	163	60	250				
40.640475	K5D33032-11	33.0	32.0	44.0	168	60	256				
40.640476	K5D33532-11	33.5	32.0	44.0	168	60	256				
40.640477	K5D34032-11	34.0	32.0	44.0	173	60	261				
40.640478	K5D34532-11	34.5	32.0	44.0	173	60	261				
40.640479	K5D35032-11	35.0	32.0	44.0	178	60	266				
40.640480	K5D35532-11	35.5	32.0	44.0	178	60	266				
40.640481	K5D36040-13	36.0	40.0	48.0	184	70	284		SPET130410-ND SPMT130410-LD SPMT130410-PD XOET130406-ND XOMT130406-LD XOMT130406-PD	FTKA0410	TW15S
40.640482	K5D36540-13	36.5	40.0	48.0	184	70	284				
40.640483	K5D37040-13	37.0	40.0	48.0	189	70	289				
40.640484	K5D37540-13	37.5	40.0	48.0	189	70	289				
40.640485	K5D38040-13	38.0	40.0	48.0	194	70	295				
40.640486	K5D38540-13	38.5	40.0	48.0	194	70	295				
40.640487	K5D39040-13	39.0	40.0	48.0	199	70	300				
40.640488	K5D39540-13	39.5	40.0	48.0	199	70	300				
40.640489	K5D40040-13	40.0	40.0	48.0	204	70	306				
40.640490	K5D40540-13	40.5	40.0	48.0	204	70	306				
40.640491	K5D41040-13	41.0	40.0	48.0	209	70	311				
40.640492	K5D41540-13	41.5	40.0	48.0	209	70	311				
40.640493	K5D42040-13	42.0	40.0	48.0	214	70	317				
40.640494	K5D42540-13	42.5	40.0	48.0	214	70	317				

K5D Wendeplattenbohrer 5 x D



Art.Nr.	Bezeichnung	D	d1	d2	l1	l2	L	Preis	WSP		
40.640495	K5D43040-15	43.0	40.0	58.0	220	70	325		SPET15M510-ND SPMT15M510-LD SPMT15M510-PD XOET15M508-ND XOMT15M508-LD XOMT15M508-PD	FTNC04511	TW20S
40.640496	K5D43540-15	43.5	40.0	58.0	221	70	326				
40.640497	K5D44040-15	44.0	40.0	58.0	225	70	330				
40.640498	K5D44540-15	44.5	40.0	58.0	225	70	330				
40.640499	K5D45040-15	45.0	40.0	58.0	230	70	336				
40.640500	K5D45540-15	45.5	40.0	58.0	230	70	336				
40.640501	K5D46040-15	46.0	40.0	58.0	235	70	341				
40.640502	K5D46540-15	46.5	40.0	58.0	235	70	341				
40.640503	K5D47040-15	47.0	40.0	58.0	240	70	347				
40.640504	K5D47540-15	47.5	40.0	58.0	240	70	347				
40.640505	K5D48040-15	48.0	40.0	58.0	245	70	352				
40.640506	K5D48540-15	48.5	40.0	58.0	245	70	352				
40.640507	K5D49040-15	49.0	40.0	58.0	250	70	357				
40.640508	K5D49540-15	49.5	40.0	58.0	250	70	357				
40.640509	K5D50040-15	50.0	40.0	58.0	255	70	362				
40.640510	K5D50540-15	50.5	40.0	58.0	255	70	362		SPET180510-ND SPMT180510-LD SPMT180510-PD XOET180508-ND XOMT180508-LD XOMT180508-PD	FTNA0511	TW20-100
40.640511	K5D51040-18	51.0	40.0	68.0	261	70	371				
40.640512	K5D51540-18	51.5	40.0	68.0	261	70	371				
40.640513	K5D52040-18	52.0	40.0	68.0	266	70	376				
40.640514	K5D52540-18	52.5	40.0	68.0	266	70	376				
40.640515	K5D53040-18	53.0	40.0	68.0	271	70	381				
40.640516	K5D53540-18	53.5	40.0	68.0	271	70	381				
40.640517	K5D54040-18	54.0	40.0	68.0	276	70	386				
40.640518	K5D54540-18	54.5	40.0	68.0	276	70	386				
40.640519	K5D55040-18	55.0	40.0	68.0	281	70	391				
40.640520	K5D55540-18	55.5	40.0	68.0	281	70	391				
40.640521	K5D56040-18	56.0	40.0	68.0	286	70	398				
40.640522	K5D56540-18	56.5	40.0	68.0	286	70	398				
40.640523	K5D57040-18	57.0	40.0	68.0	292	70	404				
40.640524	K5D57540-18	57.5	40.0	68.0	292	70	404				
40.640525	K5D58040-18	58.0	40.0	68.0	298	70	410				
40.640526	K5D58540-18	58.5	40.0	68.0	298	70	410				
40.640527	K5D59040-18	59.0	40.0	68.0	304	70	416				
40.640528	K5D59540-18	59.5	40.0	68.0	304	70	416				
40.640529	K5D60040-18	60.0	40.0	68.0	310	70	422				
40.640530	K5D60540-18	60.5	40.0	68.0	310	70	422				



Manfred Schwegler Werkzeugfabrik

Schwegler Schweiz

Meier Protech . Bahnhofstrasse 15 . 9553 Bettwiesen



IZAR Cutting TOOLS S.A.L.

IZAR Schweiz

Meier Protech . Bahnhofstrasse 15 . 9553 Bettwiesen



Special Carbide Tools

SCT Schweiz

Meier Protech . Bahnhofstrasse 15 . 9553 Bettwiesen



CERATIZIT Deutschland GmbH

CERATIZIT Group

Meier Protech . Bahnhofstrasse 15 . 9553 Bettwiesen



Korloy Europe GmbH Zerspanungswerkzeuge

Korloy Schweiz

Meier Protech . Bahnhofstrasse 15 . 9553 Bettwiesen

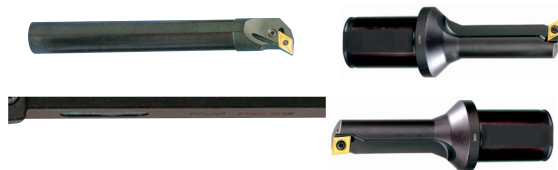


SAU-Tool S.p.A. Bearbeitungswerkzeuge

SAU-Tool Schweiz

Meier Protech . Bahnhofstrasse 15 . 9553 Bettwiesen

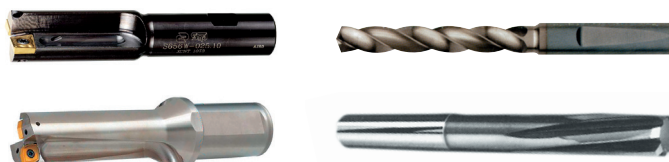
Drehen *Tournage*



Fräsen *Fraisage*



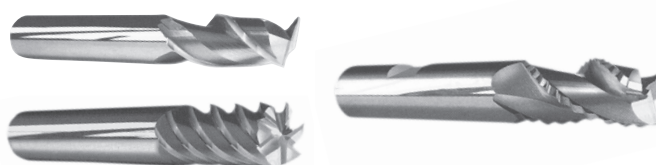
Bohren *Perçage*



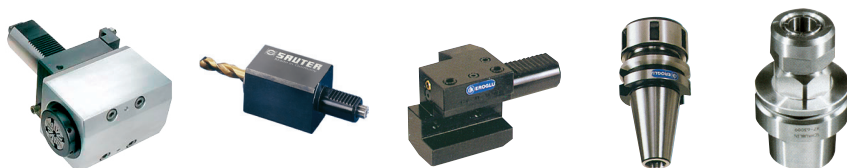
Wendeplatten *Plaquettes*



Vollhartmetall-, Pulver-HSS- und HSS-Werkzeuge *Outils en carbure monobloc, HSS et HSS fritté*



Werkzeugaufnahmen *Porte-outils*



Spannmittel *Moyen de serrage*



Geräte *Appareils*

