VHM-Bohrwerkzeuge / Solid carbide drilling tools

Standard- & Spezial-Bohrer / Standard and special drills

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Mikrobohrer / Micro drills 180-190

Standardbohrer / Standard drills 191-244

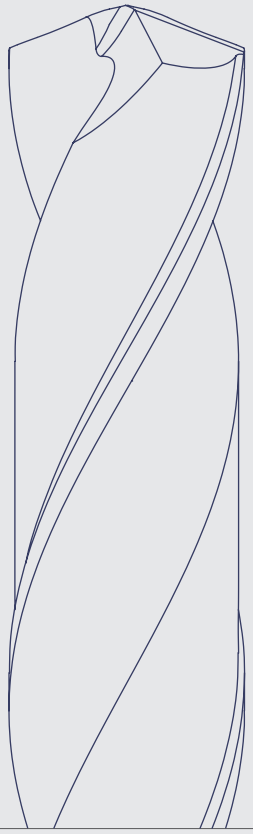
Tieflochbohrer / Deep hole drills 245-250

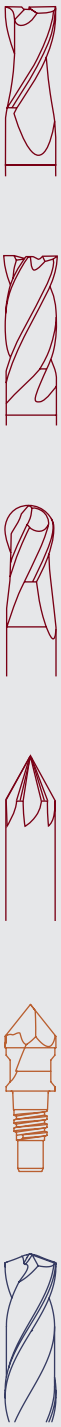
Spezialbohrer / Special drills 251-261

175-262

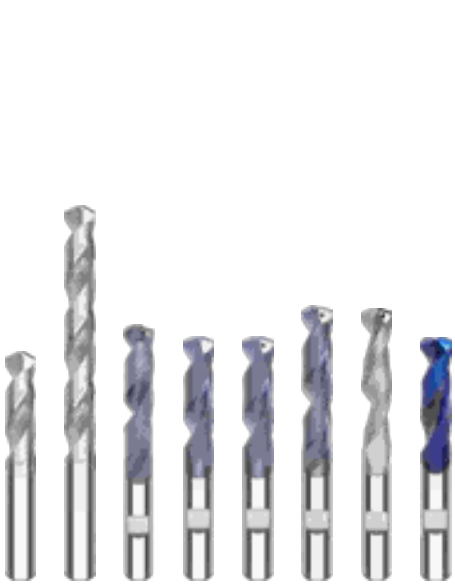
Standard- & Spezial-Bohrer

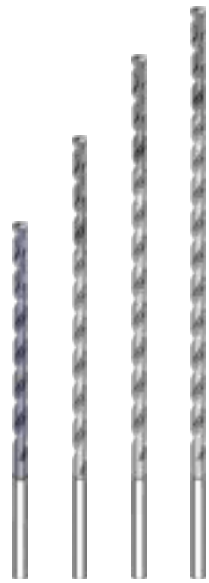
Standard & special drills





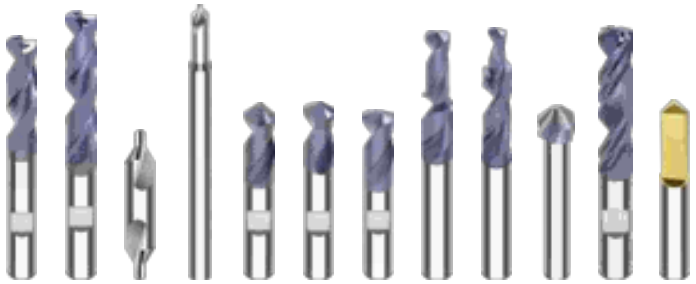
	Mikrobohrer / *Micro drills*			Standarbohrer / *Standard drills*												
Artikel / Article	506	507	508	303	503	504	843	703	604	505	845	705	614	848	708	710
Seite *Page*	180	181	187	191	193	196	199	201	203	206	209	211	215	218	220	222
Zähnezahl *No. of teeth*	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Einsatzlänge *Drilling length*	3xD	5xD	8xD	3xD	3xD	3xD	3xD	3xD	3xD	5xD	5xD	5xD	5xD	8xD	8xD	12xD
Beschichtung *Coating*	BLANK	NANOSIT	BLANK	TIALN	TIALN	TIALN	TIALN	TIALN	TIALN	TIALN	TIALN	TIALN	TIALN	TIALN	TIALN	TIALN
High Performance/ General Purpose	HP	HP	HP	HP	HP	GP	HP	HP	GP	HP	HP	HP	GP	HP	HP	HP
Stahl steel	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
HRC 45-55				○	○	○		○	○	○		○	○		○	○
HRC 55-60																
HRC 60-65																
GG(G)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
ALU NE	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	○
Kunststoff plastic																
GFK/CFK																
Graphit																
INOX VA	○	○	○	○	○	○	●	○	○	○	●	○	○	●	○	○
INCONEL TITAN																
IK							●	●	●		●	●	●	●	●	●
TYP	N-H	N-H	N-H	N	N	N	N-W	N	N	N	N-W	N	N	N-W	N	N





	Standarbohrer / *Standard drills*								Tieflochbohrer / *Deep hole drills*			
Artikel / Article	701	702	905	751	752	753	706	810	908	909	910	911
Seite *Page*	225	227	229	232	235	238	241	244	247	249	250	251
Zähnezahl *No. of teeth*	2	2	2	2	2	2	2	2	2	2	2	2
Einsatzlänge *Drilling length*	5xD	8xD	5xD	3xD	3xD	5xD	5xD	3xD	15xD	20xD	25xD	30xD
Beschichtung *Coating*	BLANK	BLANK	nacro	VAROCON	VAROCON	VAROCON	ZrN	naco blue	VAROCON	VAROCON	VAROCON	VAROCON
High Performance/ General Purpose	GP	GP	HP	HP	HP	HP	HP	HP	HP	HP	HP	HP
Stahl steel	●	●	●	●	●	●		○	●	●	●	●
HRC 45-55			○					●				
HRC 55-60								●				
HRC 60-65								○				
GG(G)	○	○	●	●	●	●			○	○	○	○
ALU NE	●	●	○	○	○	○	●					
Kunststoff plastic	○	○					●					
GFK/CFK												
Graphit												
INOX VA	○	○	○	●	●	●			○	○	○	○
INCONEL TITAN				○	○	○						
IK			●		●	●	●		●	●	●	●
TYP	N	N	N-H	N	N	N	W	H	N	N	N	N

Spezialbohrer / *Special drills*



Artikel / Article	817	818	608	509	890	860	814	850	841	730	711	400
Seite *Page*	252	254	257	257	258	258	259	259	260	260	261	262
Zähnezahl *No. of teeth*	2	2	2	2	2	2	2	2	2	3	2	2-3
Einsatzlänge *Drilling length*	3xD	5xD									5xD	
Beschichtung *Coating*	TIALN	TIALN	BLANK	BLANK	TIALN	TIALN	TIALN	TIALN	TIALN	TIALN	TIALN	TIN
High Performance/ General Purpose	HP	HP	HP	HP	HP	HP	HP	HP	HP	HP	HP	HP
Stahl steel	●	●	●	●	●	●	●	●	●	●	●	
HRC 45-55	●	●			●	●	●	○	○	●	○	
HRC 55-60	○	○			○	○	○			○		
HRC 60-65												●
GG(G)	●	●	●	●	●	●	●	●	●	●	○	
ALU NE	○	○	●	●	●	●	●	●	●	●		
Kunststoff plastic										○		
GFK/CFK												
Graphit												
INOX VA	○	○	○	○	○	○	○	○	○	●		
INCONEL TITAN	○	○			○	○	○			●		
IK	●	●									●	
TYP	N	N	N	N-H	N	N	N	N	N	N	N	H

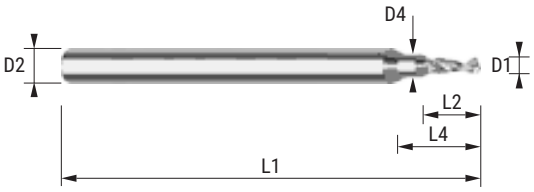
UNI

HP

VHM - Mikrobohrer 3xD

Solid carbide micro drill

506...



Werkzeugdaten / Tool data	Werkzeugempfehlung / Tool Recommendation	Einsatz / Capabilities
TYP N-H, 2, 130°, HA, Norm, BLANK	Universal	z, 3xD

D1 h5	D2 h6	L2	L1	D4	L4	Artikel-Nr./ Article-No.
0,10	3,00	0,30	38	1,00	3	506.010.09
0,15	3,00	0,45	38	1,00	3	506.015.09
0,20	3,00	0,60	38	1,00	3	506.020.09
0,25	3,00	0,75	38	1,00	3	506.025.09
0,30	3,00	0,90	38	1,00	3	506.030.09
0,35	3,00	1,05	38	1,00	3	506.035.09
0,40	3,00	1,20	38	1,00	3	506.040.09
0,45	3,00	1,35	38	1,00	3	506.045.09
0,50	3,00	1,50	38	1,50	6	506.050.09
0,55	3,00	1,80	38	1,50	6	506.055.09
0,60	3,00	1,80	38	1,50	6	506.060.09
0,65	3,00	2,10	38	1,50	6	506.065.09
0,70	3,00	2,10	38	1,50	6	506.070.09
0,75	3,00	2,40	38	1,50	6	506.075.09
0,80	3,00	2,40	38	1,50	6	506.080.09
0,85	3,00	2,70	38	1,50	6	506.085.09
0,90	3,00	2,70	38	1,50	6	506.090.09
0,95	3,00	3,00	38	1,50	6	506.095.09
1,00	3,00	3,00	38	2,00	6	506.100.09
1,05	3,00	3,30	38	2,00	6	506.105.09
1,10	3,00	3,30	38	2,00	6	506.110.09
1,15	3,00	3,60	38	2,00	6	506.115.09
1,20	3,00	3,60	38	2,00	6	506.120.09
1,25	3,00	3,90	38	2,00	6	506.125.09
1,30	3,00	3,90	38	2,00	6	506.130.09
1,35	3,00	4,20	38	2,00	6	506.135.09
1,40	3,00	4,20	38	2,00	6	506.140.09
1,45	3,00	4,50	38	2,00	6	506.145.09
1,50	3,00	4,50	38	-	-	506.150.09
1,55	3,00	4,80	38	-	-	506.155.09
1,60	3,00	4,80	38	-	-	506.160.09
1,65	3,00	5,10	38	-	-	506.165.09
1,70	3,00	5,10	38	-	-	506.170.09
1,75	3,00	5,40	38	-	-	506.175.09
1,80	3,00	5,40	38	-	-	506.180.09
1,85	3,00	5,70	38	-	-	506.185.09
1,90	3,00	5,70	38	-	-	506.190.09
1,95	3,00	6,00	38	-	-	506.195.09
2,00	3,00	6,00	38	-	-	506.200.09
2,05	3,00	6,30	38	-	-	506.205.09
2,10	3,00	6,30	38	-	-	506.210.09
2,15	3,00	6,60	38	-	-	506.215.09
2,20	3,00	6,60	38	-	-	506.220.09
2,25	3,00	6,90	38	-	-	506.225.09
2,30	3,00	6,90	38	-	-	506.230.09
2,35	3,00	7,20	38	-	-	506.235.09
2,40	3,00	7,20	38	-	-	506.240.09
2,45	3,00	7,50	38	-	-	506.245.09
2,50	3,00	7,50	38	-	-	506.250.09
2,55	3,00	7,80	38	-	-	506.255.09

HP VHM - Mikrobohrer 3xD
Solid carbide micro drill

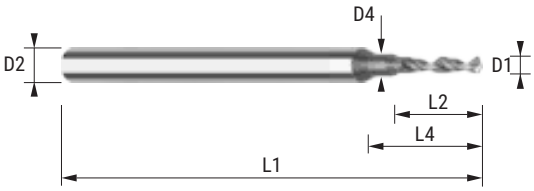
506...

Werkzeugdaten / Tool data	Werkzeugempfehlung / Tool Recommendation	Einsatz / Capabilities
TYP N-H, 2, 130°, HA, Norm, BLANK	Universal	z, 3xD

D1 h5	D2 h6	L2	L1	D4	L4	Artikel-Nr./ Article-No.
2,60	3,00	7,80	38	-	-	506.260.09
2,65	3,00	8,10	38	-	-	506.265.09
2,70	3,00	8,10	38	-	-	506.270.09
2,75	3,00	8,40	38	-	-	506.275.09
2,80	3,00	8,40	38	-	-	506.280.09
2,85	3,00	8,70	38	-	-	506.285.09
2,90	3,00	8,70	38	-	-	506.290.09
2,95	3,00	9,00	38	-	-	506.295.09
3,00	3,00	9,00	38	-	-	506.300.09

HP VHM - Mikrobohrer 5xD
Solid carbide micro drill

507...



Werkzeugdaten / Tool data	Werkzeugempfehlung / Tool Recommendation	Einsatz / Capabilities
TYP N-H, 2, 130°, HA, Norm, BLANK, NANOSIT	Universal	z, 5xD

D1 h5	D2	L2	L1	D4	L4	Artikel-Nr./ Article-No.	BLANK	NANOSIT
0,10	3,00	0,50	38	1,00	5	507.010...	.09	.00
0,11	3,00	0,60	38	1,00	5	507.011...	.09	-
0,12	3,00	0,70	38	1,00	5	507.012...	.09	-
0,13	3,00	0,80	38	1,00	5	507.013...	.09	-
0,14	3,00	0,90	38	1,00	5	507.014...	.09	-
0,15	3,00	1,00	38	1,00	5	507.015...	.09	.00
0,16	3,00	1,25	38	1,00	5	507.016...	.09	-
0,17	3,00	1,50	38	1,00	5	507.017...	.09	-
0,18	3,00	1,75	38	1,00	5	507.018...	.09	-
0,19	3,00	2,00	38	1,00	5	507.019...	.09	-
0,20	3,00	2,25	38	1,00	5	507.020...	.09	.00
0,21	3,00	2,25	38	1,00	5	507.021...	.09	-
0,22	3,00	2,25	38	1,00	5	507.022...	.09	-
0,23	3,00	2,25	38	1,00	5	507.023...	.09	-
0,24	3,00	2,25	38	1,00	5	507.024...	.09	-
0,25	3,00	2,25	38	1,00	5	507.025...	.09	.00
0,26	3,00	2,25	38	1,00	5	507.026...	.09	-
0,27	3,00	2,25	38	1,00	5	507.027...	.09	-
0,28	3,00	2,25	38	1,00	5	507.028...	.09	-
0,29	3,00	2,25	38	1,00	5	507.029...	.09	-

HP VHM - Mikrobohrer 5xD

Solid carbide micro drill

507...

Werkzeugdaten / Tool data: TYP N-H, 2, 130°, HA, Norm, BLANK, NANOSIT

Werkzeugempfehlung / Tool Recommendation: Universal

Einsatz / Capabilities: z, 5xD

D1 h5	D2	L2	L1	D4	L4	Artikel-Nr./ Article-No.	BLANK	NANOSIT
0,30	3,00	2,25	38	1,00	5	507.030...	.09	.00
0,31	3,00	2,25	38	1,00	5	507.031...	.09	-
0,32	3,00	2,25	38	1,00	5	507.032...	.09	-
0,33	3,00	2,25	38	1,00	5	507.033...	.09	-
0,34	3,00	2,25	38	1,00	5	507.034...	.09	-
0,35	3,00	2,25	38	1,00	5	507.035...	.09	.00
0,36	3,00	2,25	38	1,00	5	507.036...	.09	-
0,37	3,00	2,25	38	1,00	5	507.037...	.09	-
0,38	3,00	2,25	38	1,00	5	507.038...	.09	-
0,39	3,00	2,25	38	1,00	5	507.039...	.09	-
0,40	3,00	2,25	38	1,00	5	507.040...	.09	.00
0,41	3,00	2,25	38	1,00	5	507.041...	.09	-
0,42	3,00	2,25	38	1,00	5	507.042...	.09	-
0,43	3,00	2,25	38	1,00	5	507.043...	.09	-
0,44	3,00	2,25	38	1,00	5	507.044...	.09	-
0,45	3,00	2,25	38	1,00	5	507.045...	.09	.00
0,46	3,00	2,25	38	1,00	5	507.046...	.09	-
0,47	3,00	2,25	38	1,00	5	507.047...	.09	-
0,48	3,00	2,25	38	1,00	5	507.048...	.09	-
0,49	3,00	2,25	38	1,00	5	507.049...	.09	-
0,50	3,00	2,50	38	1,50	10	507.050...	.09	.00
0,51	3,00	3,00	38	1,50	10	507.051...	.09	-
0,52	3,00	3,00	38	1,50	10	507.052...	.09	-
0,53	3,00	3,00	38	1,50	10	507.053...	.09	-
0,54	3,00	3,00	38	1,50	10	507.054...	.09	-
0,55	3,00	3,00	38	1,50	10	507.055...	.09	.00
0,56	3,00	3,00	38	1,50	10	507.056...	.09	-
0,57	3,00	3,00	38	1,50	10	507.057...	.09	-
0,58	3,00	3,00	38	1,50	10	507.058...	.09	-
0,59	3,00	3,00	38	1,50	10	507.059...	.09	-
0,60	3,00	3,00	38	1,50	10	507.060...	.09	.00
0,61	3,00	3,50	38	1,50	10	507.061...	.09	-
0,62	3,00	3,50	38	1,50	10	507.062...	.09	-
0,63	3,00	3,50	38	1,50	10	507.063...	.09	-
0,64	3,00	3,50	38	1,50	10	507.064...	.09	-
0,65	3,00	3,50	38	1,50	10	507.065...	.09	.00
0,66	3,00	3,50	38	1,50	10	507.066...	.09	-
0,67	3,00	3,50	38	1,50	10	507.067...	.09	-
0,68	3,00	3,50	38	1,50	10	507.068...	.09	-
0,69	3,00	3,50	38	1,50	10	507.069...	.09	-
0,70	3,00	3,50	38	1,50	10	507.070...	.09	.00
0,71	3,00	4,00	38	1,50	10	507.071...	.09	-
0,72	3,00	4,00	38	1,50	10	507.072...	.09	-
0,73	3,00	4,00	38	1,50	10	507.073...	.09	-
0,74	3,00	4,00	38	1,50	10	507.074...	.09	-
0,75	3,00	4,00	38	1,50	10	507.075...	.09	.00
0,76	3,00	4,00	38	1,50	10	507.076...	.09	-
0,77	3,00	4,00	38	1,50	10	507.077...	.09	-
0,78	3,00	4,00	38	1,50	10	507.078...	.09	-
0,79	3,00	4,00	38	1,50	10	507.079...	.09	-
0,80	3,00	4,00	38	1,50	10	507.080...	.09	.00
0,81	3,00	4,50	38	1,50	10	507.081...	.09	-
0,82	3,00	4,50	38	1,50	10	507.082...	.09	-
0,83	3,00	4,50	38	1,50	10	507.083...	.09	-
0,84	3,00	4,50	38	1,50	10	507.084...	.09	-
0,85	3,00	4,50	38	1,50	10	507.085...	.09	.00

HP VHM - Mikrobohrer 5xD
Solid carbide micro drill

507...

Werkzeugdaten / Tool data: TYP N-H, 2, 130°, HA, Norm, BLANK, NANOSIT

Werkzeugempfehlung / Tool Recommendation: Universal

Einsatz / Capabilities: z, 5xD

D1 h5	D2	L2	L1	D4	L4	Artikel-Nr./ Article-No.	BLANK	NANOSIT
0,86	3,00	4,50	38	1,50	10	507.086...	.09	-
0,87	3,00	4,50	38	1,50	10	507.087...	.09	-
0,88	3,00	4,50	38	1,50	10	507.088...	.09	-
0,89	3,00	4,50	38	1,50	10	507.089...	.09	-
0,90	3,00	4,50	38	1,50	10	507.090...	.09	.00
0,91	3,00	5,00	38	1,50	10	507.091...	.09	-
0,92	3,00	5,00	38	1,50	10	507.092...	.09	-
0,93	3,00	5,00	38	1,50	10	507.093...	.09	-
0,94	3,00	5,00	38	1,50	10	507.094...	.09	-
0,95	3,00	5,00	38	1,50	10	507.095...	.09	.00
0,96	3,00	5,00	38	1,50	10	507.096...	.09	-
0,97	3,00	5,00	38	1,50	10	507.097...	.09	-
0,98	3,00	5,00	38	1,50	10	507.098...	.09	-
0,99	3,00	5,00	38	1,50	10	507.099...	.09	-
1,00	3,00	5,00	38	2,00	10	507.100...	.09	.00
1,01	3,00	5,50	38	2,00	10	507.101...	.09	-
1,02	3,00	5,50	38	2,00	10	507.102...	.09	-
1,03	3,00	5,50	38	2,00	10	507.103...	.09	-
1,04	3,00	5,50	38	2,00	10	507.104...	.09	-
1,05	3,00	5,50	38	2,00	10	507.105...	.09	.00
1,06	3,00	5,50	38	2,00	10	507.106...	.09	-
1,07	3,00	5,50	38	2,00	10	507.107...	.09	-
1,08	3,00	5,50	38	2,00	10	507.108...	.09	-
1,09	3,00	5,50	38	2,00	10	507.109...	.09	-
1,10	3,00	5,50	38	2,00	10	507.110...	.09	.00
1,11	3,00	6,00	38	2,00	10	507.111...	.09	-
1,12	3,00	6,00	38	2,00	10	507.112...	.09	-
1,13	3,00	6,00	38	2,00	10	507.113...	.09	-
1,14	3,00	6,00	38	2,00	10	507.114...	.09	-
1,15	3,00	6,00	38	2,00	10	507.115...	.09	.00
1,16	3,00	6,00	38	2,00	10	507.116...	.09	-
1,17	3,00	6,00	38	2,00	10	507.117...	.09	-
1,18	3,00	6,00	38	2,00	10	507.118...	.09	-
1,19	3,00	6,00	38	2,00	10	507.119...	.09	-
1,20	3,00	6,00	38	2,00	10	507.120...	.09	.00
1,21	3,00	6,00	38	2,00	10	507.121...	.09	-
1,22	3,00	6,00	38	2,00	10	507.122...	.09	-
1,23	3,00	6,00	38	2,00	10	507.123...	.09	-
1,24	3,00	6,00	38	2,00	10	507.124...	.09	-
1,25	3,00	6,00	38	2,00	10	507.125...	.09	.00
1,26	3,00	6,00	38	2,00	10	507.126...	.09	-
1,27	3,00	6,00	38	2,00	10	507.127...	.09	-
1,28	3,00	6,00	38	2,00	10	507.128...	.09	-
1,29	3,00	6,00	38	2,00	10	507.129...	.09	-
1,30	3,00	6,00	38	2,00	10	507.130...	.09	.00
1,31	3,00	7,00	38	2,00	10	507.131...	.09	-
1,32	3,00	7,00	38	2,00	10	507.132...	.09	-
1,33	3,00	7,00	38	2,00	10	507.133...	.09	-
1,34	3,00	7,00	38	2,00	10	507.134...	.09	-
1,35	3,00	7,00	38	2,00	10	507.135...	.09	.00
1,36	3,00	7,00	38	2,00	10	507.136...	.09	-
1,37	3,00	7,00	38	2,00	10	507.137...	.09	-
1,38	3,00	7,00	38	2,00	10	507.138...	.09	-
1,39	3,00	7,00	38	2,00	10	507.139...	.09	-
1,40	3,00	7,00	38	2,00	10	507.140...	.09	.00
1,41	3,00	7,50	38	2,00	10	507.141...	.09	-

HP VHM - Mikrobohrer 5xD

Solid carbide micro drill

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Werkzeugdaten / Tool data: TYP N-H, 2, 130°, HA, Norm, BLANK, NANOSIT

Werkzeugempfehlung / Tool Recommendation: Universal

Einsatz / Capabilities: z, 5xD

D1 h5	D2	L2	L1	D4	L4	Artikel-Nr./ Article-No.	BLANK	NANOSIT
1,42	3,00	7,50	38	2,00	10	507.142...	.09	-
1,43	3,00	7,50	38	2,00	10	507.143...	.09	-
1,44	3,00	7,50	38	2,00	10	507.144...	.09	-
1,45	3,00	7,50	38	2,00	10	507.145...	.09	.00
1,46	3,00	7,50	38	2,00	10	507.146...	.09	-
1,47	3,00	7,50	38	2,00	10	507.147...	.09	-
1,48	3,00	7,50	38	2,00	10	507.148...	.09	-
1,49	3,00	7,50	38	2,00	10	507.149...	.09	-
1,50	3,00	7,50	38	-	-	507.150...	.09	.00
1,51	3,00	8,00	38	-	-	507.151...	.09	-
1,52	3,00	8,00	38	-	-	507.152...	.09	-
1,53	3,00	8,00	38	-	-	507.153...	.09	-
1,54	3,00	8,00	38	-	-	507.154...	.09	-
1,55	3,00	8,00	38	-	-	507.155...	.09	.00
1,56	3,00	8,00	38	-	-	507.156...	.09	-
1,57	3,00	8,00	38	-	-	507.157...	.09	-
1,58	3,00	8,00	38	-	-	507.158...	.09	-
1,59	3,00	8,00	38	-	-	507.159...	.09	-
1,60	3,00	8,00	38	-	-	507.160...	.09	.00
1,61	3,00	8,50	38	-	-	507.161...	.09	-
1,62	3,00	8,50	38	-	-	507.162...	.09	-
1,63	3,00	8,50	38	-	-	507.163...	.09	-
1,64	3,00	8,50	38	-	-	507.164...	.09	-
1,65	3,00	8,50	38	-	-	507.165...	.09	.00
1,66	3,00	8,50	38	-	-	507.166...	.09	-
1,67	3,00	8,50	38	-	-	507.167...	.09	-
1,68	3,00	8,50	38	-	-	507.168...	.09	-
1,69	3,00	8,50	38	-	-	507.169...	.09	-
1,70	3,00	8,50	38	-	-	507.170...	.09	.00
1,71	3,00	9,00	38	-	-	507.171...	.09	-
1,72	3,00	9,00	38	-	-	507.172...	.09	-
1,73	3,00	9,00	38	-	-	507.173...	.09	-
1,74	3,00	9,00	38	-	-	507.174...	.09	-
1,75	3,00	9,00	38	-	-	507.175...	.09	.00
1,76	3,00	9,00	38	-	-	507.176...	.09	-
1,77	3,00	9,00	38	-	-	507.177...	.09	-
1,78	3,00	9,00	38	-	-	507.178...	.09	-
1,79	3,00	9,00	38	-	-	507.179...	.09	-
1,80	3,00	9,00	38	-	-	507.180...	.09	.00
1,81	3,00	9,50	38	-	-	507.181...	.09	-
1,82	3,00	9,50	38	-	-	507.182...	.09	-
1,83	3,00	9,50	38	-	-	507.183...	.09	-
1,84	3,00	9,50	38	-	-	507.184...	.09	-
1,85	3,00	9,50	38	-	-	507.185...	.09	.00
1,86	3,00	9,50	38	-	-	507.186...	.09	-
1,87	3,00	9,50	38	-	-	507.187...	.09	-
1,88	3,00	9,50	38	-	-	507.188...	.09	-
1,89	3,00	9,50	38	-	-	507.189...	.09	-
1,90	3,00	9,50	38	-	-	507.190...	.09	.00
1,91	3,00	10,00	38	-	-	507.191...	.09	-
1,92	3,00	10,00	38	-	-	507.192...	.09	-
1,93	3,00	10,00	38	-	-	507.193...	.09	-
1,94	3,00	10,00	38	-	-	507.194...	.09	-
1,95	3,00	10,00	38	-	-	507.195...	.09	.00
1,96	3,00	10,00	38	-	-	507.196...	.09	-
1,97	3,00	10,00	38	-	-	507.197...	.09	-

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VHM - Mikrobohrer 5xD

Solid carbide micro drill

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Werkzeugdaten / Tool data: TYP N-H, 2, 130°, HA, Norm, BLANK, NANOSIT

Werkzeugempfehlung / Tool Recommendation: Universal

Einsatz / Capabilities: z, 5xD

D1 h5	D2	L2	L1	D4	L4	Artikel-Nr./ Article-No.	BLANK	NANOSIT
1,98	3,00	10,00	38	-	-	507.198...	.09	-
1,99	3,00	10,00	38	-	-	507.199...	.09	-
2,00	3,00	10,00	38	-	-	507.200...	.09	.00
2,01	3,00	10,50	38	-	-	507.201...	.09	-
2,02	3,00	10,50	38	-	-	507.202...	.09	-
2,03	3,00	10,50	38	-	-	507.203...	.09	-
2,04	3,00	10,50	38	-	-	507.204...	.09	-
2,05	3,00	10,50	38	-	-	507.205...	.09	.00
2,06	3,00	10,50	38	-	-	507.206...	.09	-
2,07	3,00	10,50	38	-	-	507.207...	.09	-
2,08	3,00	10,50	38	-	-	507.208...	.09	-
2,09	3,00	10,50	38	-	-	507.209...	.09	-
2,10	3,00	10,50	38	-	-	507.210...	.09	.00
2,11	3,00	11,00	38	-	-	507.211...	.09	-
2,12	3,00	11,00	38	-	-	507.212...	.09	-
2,13	3,00	11,00	38	-	-	507.213...	.09	-
2,14	3,00	11,00	38	-	-	507.214...	.09	-
2,15	3,00	11,00	38	-	-	507.215...	.09	.00
2,16	3,00	11,00	38	-	-	507.216...	.09	-
2,17	3,00	11,00	38	-	-	507.217...	.09	-
2,18	3,00	11,00	38	-	-	507.218...	.09	-
2,19	3,00	11,00	38	-	-	507.219...	.09	-
2,20	3,00	11,00	38	-	-	507.220...	.09	.00
2,21	3,00	11,50	38	-	-	507.221...	.09	-
2,22	3,00	11,50	38	-	-	507.222...	.09	-
2,23	3,00	11,50	38	-	-	507.223...	.09	-
2,24	3,00	11,50	38	-	-	507.224...	.09	-
2,25	3,00	11,50	38	-	-	507.225...	.09	.00
2,26	3,00	11,50	38	-	-	507.226...	.09	-
2,27	3,00	11,50	38	-	-	507.227...	.09	-
2,28	3,00	11,50	38	-	-	507.228...	.09	-
2,29	3,00	11,50	38	-	-	507.229...	.09	-
2,30	3,00	11,50	38	-	-	507.230...	.09	.00
2,31	3,00	12,00	38	-	-	507.231...	.09	-
2,32	3,00	12,00	38	-	-	507.232...	.09	-
2,33	3,00	12,00	38	-	-	507.233...	.09	-
2,34	3,00	12,00	38	-	-	507.234...	.09	-
2,35	3,00	12,00	38	-	-	507.235...	.09	.00
2,36	3,00	12,00	38	-	-	507.236...	.09	-
2,37	3,00	12,00	38	-	-	507.237...	.09	-
2,38	3,00	12,00	38	-	-	507.238...	.09	-
2,39	3,00	12,00	38	-	-	507.239...	.09	-
2,40	3,00	12,00	38	-	-	507.240...	.09	.00
2,41	3,00	12,50	38	-	-	507.241...	.09	-
2,42	3,00	12,50	38	-	-	507.242...	.09	-
2,43	3,00	12,50	38	-	-	507.243...	.09	-
2,44	3,00	12,50	38	-	-	507.244...	.09	-
2,45	3,00	12,50	38	-	-	507.245...	.09	.00
2,46	3,00	12,50	38	-	-	507.246...	.09	-
2,47	3,00	12,50	38	-	-	507.247...	.09	-
2,48	3,00	12,50	38	-	-	507.248...	.09	-
2,49	3,00	12,50	38	-	-	507.249...	.09	-
2,50	3,00	12,50	38	-	-	507.250...	.09	.00
2,51	3,00	13,00	38	-	-	507.251...	.09	-
2,52	3,00	13,00	38	-	-	507.252...	.09	-
2,53	3,00	13,00	38	-	-	507.253...	.09	-

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Solid carbide micro drill

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Werkzeugdaten / Tool data	Werkzeugempfehlung / Tool Recommendation	Einsatz / Capabilities
TYP N-H, 2, 130°, HA, Norm, BLANK, NANOSIT	Universal	z, 5xD

D1 h5	D2	L2	L1	D4	L4	Artikel-Nr./ Article-No.	BLANK	NANOSIT
2,54	3,00	13,00	38	-	-	507.254...	.09	-
2,55	3,00	13,00	38	-	-	507.255...	.09	.00
2,56	3,00	13,00	38	-	-	507.256...	.09	-
2,57	3,00	13,00	38	-	-	507.257...	.09	-
2,58	3,00	13,00	38	-	-	507.258...	.09	-
2,59	3,00	13,00	38	-	-	507.259...	.09	-
2,60	3,00	13,00	38	-	-	507.260...	.09	.00
2,61	3,00	13,50	38	-	-	507.261...	.09	-
2,62	3,00	13,50	38	-	-	507.262...	.09	-
2,63	3,00	13,50	38	-	-	507.263...	.09	-
2,64	3,00	13,50	38	-	-	507.264...	.09	-
2,65	3,00	13,50	38	-	-	507.265...	.09	.00
2,66	3,00	13,50	38	-	-	507.266...	.09	-
2,67	3,00	13,50	38	-	-	507.267...	.09	-
2,68	3,00	13,50	38	-	-	507.268...	.09	-
2,69	3,00	13,50	38	-	-	507.269...	.09	-
2,70	3,00	13,50	38	-	-	507.270...	.09	.00
2,71	3,00	14,00	38	-	-	507.271...	.09	-
2,72	3,00	14,00	38	-	-	507.272...	.09	-
2,73	3,00	14,00	38	-	-	507.273...	.09	-
2,74	3,00	14,00	38	-	-	507.274...	.09	-
2,75	3,00	14,00	38	-	-	507.275...	.09	.00
2,76	3,00	14,00	38	-	-	507.276...	.09	-
2,77	3,00	14,00	38	-	-	507.277...	.09	-
2,78	3,00	14,00	38	-	-	507.278...	.09	-
2,79	3,00	14,00	38	-	-	507.279...	.09	-
2,80	3,00	14,00	38	-	-	507.280...	.09	.00
2,81	3,00	14,50	38	-	-	507.281...	.09	-
2,82	3,00	14,50	38	-	-	507.282...	.09	-
2,83	3,00	14,50	38	-	-	507.283...	.09	-
2,84	3,00	14,50	38	-	-	507.284...	.09	-
2,85	3,00	14,50	38	-	-	507.285...	.09	.00
2,86	3,00	14,50	38	-	-	507.286...	.09	-
2,87	3,00	14,50	38	-	-	507.287...	.09	-
2,88	3,00	14,50	38	-	-	507.288...	.09	-
2,89	3,00	14,50	38	-	-	507.289...	.09	-
2,90	3,00	14,50	38	-	-	507.290...	.09	.00
2,91	3,00	15,00	38	-	-	507.291...	.09	-
2,92	3,00	15,00	38	-	-	507.292...	.09	-
2,93	3,00	15,00	38	-	-	507.293...	.09	-
2,94	3,00	15,00	38	-	-	507.294...	.09	-
2,95	3,00	15,00	38	-	-	507.295...	.09	.00
2,96	3,00	15,00	38	-	-	507.296...	.09	-
2,97	3,00	15,00	38	-	-	507.297...	.09	-
2,98	3,00	15,00	38	-	-	507.298...	.09	-
2,99	3,00	15,00	38	-	-	507.299...	.09	-
3,00	3,00	15,00	38	-	-	507.300...	.09	.00

HP VHM - Mikrobohrer 8xD

Solid carbide micro drill

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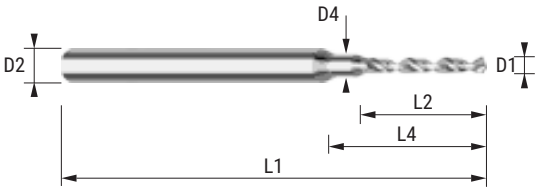

Werkzeugdaten / Tool data	Werkzeugempfehlung / Tool Recommendation	Einsatz / Capabilities
TYP N-H, 2, 130°, HA, Norm, BLANK	Universal	z, 8xD

D1 h5	D2	L2	L1	D4	L4	Artikel-Nr./ Article-No.
0,10	3,00	0,80	38	1,00	5,00	508.010.09
0,11	3,00	1,00	38	1,00	5,00	508.011.09
0,12	3,00	1,00	38	1,00	5,00	508.012.09
0,13	3,00	1,20	38	1,00	5,00	508.013.09
0,14	3,00	1,20	38	1,00	5,00	508.014.09
0,15	3,00	1,30	38	1,00	5,00	508.015.09
0,16	3,00	1,30	38	1,00	5,00	508.016.09
0,17	3,00	1,50	38	1,00	5,00	508.017.09
0,18	3,00	1,50	38	1,00	5,00	508.018.09
0,19	3,00	1,60	38	1,00	5,00	508.019.09
0,20	3,00	1,60	38	1,00	7,00	508.020.09
0,21	3,00	2,00	38	1,00	7,00	508.021.09
0,22	3,00	2,00	38	1,00	7,00	508.022.09
0,23	3,00	2,00	38	1,00	7,00	508.023.09
0,24	3,00	2,00	38	1,00	7,00	508.024.09
0,25	3,00	2,00	38	1,00	7,00	508.025.09
0,26	3,00	2,40	38	1,00	7,00	508.026.09
0,27	3,00	2,40	38	1,00	7,00	508.027.09
0,28	3,00	2,40	38	1,00	7,00	508.028.09
0,29	3,00	2,40	38	1,00	7,00	508.029.09
0,30	3,00	2,40	38	1,00	7,00	508.030.09
0,31	3,00	2,80	38	1,00	7,00	508.031.09
0,32	3,00	2,80	38	1,00	7,00	508.032.09
0,33	3,00	2,80	38	1,00	7,00	508.033.09
0,34	3,00	2,80	38	1,00	7,00	508.034.09
0,35	3,00	2,80	38	1,00	7,00	508.035.09
0,36	3,00	3,20	38	1,00	7,00	508.036.09
0,37	3,00	3,20	38	1,00	7,00	508.037.09
0,38	3,00	3,20	38	1,00	7,00	508.038.09
0,39	3,00	3,20	38	1,00	7,00	508.039.09
0,40	3,00	3,20	38	1,00	7,00	508.040.09
0,41	3,00	3,60	38	1,00	7,00	508.041.09
0,42	3,00	3,60	38	1,00	7,00	508.042.09
0,43	3,00	3,60	38	1,00	7,00	508.043.09
0,44	3,00	3,60	38	1,00	7,00	508.044.09
0,45	3,00	3,60	38	1,00	7,00	508.045.09
0,46	3,00	4,00	38	1,00	7,00	508.046.09
0,47	3,00	4,00	38	1,00	7,00	508.047.09
0,48	3,00	4,00	38	1,00	7,00	508.048.09
0,49	3,00	4,00	38	1,00	7,00	508.049.09
0,50	3,00	4,00	38	1,50	15,00	508.050.09
0,51	3,00	4,80	38	1,50	15,00	508.051.09
0,52	3,00	4,80	38	1,50	15,00	508.052.09
0,53	3,00	4,80	38	1,50	15,00	508.053.09
0,54	3,00	4,80	38	1,50	15,00	508.054.09
0,55	3,00	4,80	38	1,50	15,00	508.055.09
0,56	3,00	4,80	38	1,50	15,00	508.056.09
0,57	3,00	4,80	38	1,50	15,00	508.057.09
0,58	3,00	4,80	38	1,50	15,00	508.058.09
0,59	3,00	4,80	38	1,50	15,00	508.059.09

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Werkzeugdaten / Tool data	Werkzeugempfehlung / Tool Recommendation	Einsatz / Capabilities
TYP N-H, 2, 130°, HA, Norm, BLANK	Universal	z, 8xD

D1 h5	D2	L2	L1	D4	L4	Artikel-Nr./ Article-No.
0,60	3,00	4,80	38	1,50	15,00	508.060.09
0,61	3,00	5,60	38	1,50	15,00	508.061.09
0,62	3,00	5,60	38	1,50	15,00	508.062.09
0,63	3,00	5,60	38	1,50	15,00	508.063.09
0,64	3,00	5,60	38	1,50	15,00	508.064.09
0,65	3,00	5,60	38	1,50	15,00	508.065.09
0,66	3,00	5,60	38	1,50	15,00	508.066.09
0,67	3,00	5,60	38	1,50	15,00	508.067.09
0,68	3,00	5,60	38	1,50	15,00	508.068.09
0,69	3,00	5,60	38	1,50	15,00	508.069.09
0,70	3,00	5,60	38	1,50	15,00	508.070.09
0,71	3,00	6,40	38	1,50	15,00	508.071.09
0,72	3,00	6,40	38	1,50	15,00	508.072.09
0,73	3,00	6,40	38	1,50	15,00	508.073.09
0,74	3,00	6,40	38	1,50	15,00	508.074.09
0,75	3,00	6,40	38	1,50	15,00	508.075.09
0,76	3,00	6,40	38	1,50	15,00	508.076.09
0,77	3,00	6,40	38	1,50	15,00	508.077.09
0,78	3,00	6,40	38	1,50	15,00	508.078.09
0,79	3,00	6,40	38	1,50	15,00	508.079.09
0,80	3,00	6,40	38	1,50	15,00	508.080.09
0,81	3,00	7,20	38	1,50	15,00	508.081.09
0,82	3,00	7,20	38	1,50	15,00	508.082.09
0,83	3,00	7,20	38	1,50	15,00	508.083.09
0,84	3,00	7,20	38	1,50	15,00	508.084.09
0,85	3,00	7,20	38	1,50	15,00	508.085.09
0,86	3,00	7,20	38	1,50	15,00	508.086.09
0,87	3,00	7,20	38	1,50	15,00	508.087.09
0,88	3,00	7,20	38	1,50	15,00	508.088.09
0,89	3,00	7,20	38	1,50	15,00	508.089.09
0,90	3,00	7,20	38	1,50	15,00	508.090.09
0,91	3,00	8,00	38	1,50	15,00	508.091.09
0,92	3,00	8,00	38	1,50	15,00	508.092.09
0,93	3,00	8,00	38	1,50	15,00	508.093.09
0,94	3,00	8,00	38	1,50	15,00	508.094.09
0,95	3,00	8,00	38	1,50	15,00	508.095.09
0,96	3,00	8,00	38	1,50	15,00	508.096.09
0,97	3,00	8,00	38	1,50	15,00	508.097.09
0,98	3,00	8,00	38	1,50	15,00	508.098.09
0,99	3,00	8,00	38	1,50	15,00	508.099.09
1,00	3,00	8,00	38	2,00	15,00	508.100.09
1,01	3,00	8,80	38	2,00	15,00	508.101.09
1,02	3,00	8,80	38	2,00	15,00	508.102.09
1,03	3,00	8,80	38	2,00	15,00	508.103.09
1,04	3,00	8,80	38	2,00	15,00	508.104.09
1,05	3,00	8,80	38	2,00	15,00	508.105.09
1,06	3,00	8,80	38	2,00	15,00	508.106.09
1,07	3,00	8,80	38	2,00	15,00	508.107.09
1,08	3,00	8,80	38	2,00	15,00	508.108.09
1,09	3,00	8,80	38	2,00	15,00	508.109.09
1,10	3,00	8,80	38	2,00	15,00	508.110.09
1,11	3,00	9,60	38	2,00	15,00	508.111.09
1,12	3,00	9,60	38	2,00	15,00	508.112.09
1,13	3,00	9,60	38	2,00	15,00	508.113.09
1,14	3,00	9,60	38	2,00	15,00	508.114.09
1,15	3,00	9,60	38	2,00	15,00	508.115.09

UNI

HP VHM - Mikrobohrer 8xD
Solid carbide micro drill

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Werkzeugdaten / Tool data	Werkzeugempfehlung / Tool Recommendation	Einsatz / Capabilities
TYP N-H, 2, 130°, HA, Norm, BLANK	Universal	z, 8xD

D1 h5	D2	L2	L1	D4	L4	Artikel-Nr./ Article-No.
1,16	3,00	9,60	38	2,00	15,00	508.116.09
1,17	3,00	9,60	38	2,00	15,00	508.117.09
1,18	3,00	9,60	38	2,00	15,00	508.118.09
1,19	3,00	9,60	38	2,00	15,00	508.119.09
1,20	3,00	9,60	38	2,00	15,00	508.120.09
1,21	3,00	10,40	38	2,00	15,00	508.121.09
1,22	3,00	10,40	38	2,00	15,00	508.122.09
1,23	3,00	10,40	38	2,00	15,00	508.123.09
1,24	3,00	10,40	38	2,00	15,00	508.124.09
1,25	3,00	10,40	38	2,00	15,00	508.125.09
1,26	3,00	10,40	38	2,00	15,00	508.126.09
1,27	3,00	10,40	38	2,00	15,00	508.127.09
1,28	3,00	10,40	38	2,00	15,00	508.128.09
1,29	3,00	10,40	38	2,00	15,00	508.129.09
1,30	3,00	10,40	38	2,00	15,00	508.130.09
1,31	3,00	11,20	38	2,00	15,00	508.131.09
1,32	3,00	11,20	38	2,00	15,00	508.132.09
1,33	3,00	11,20	38	2,00	15,00	508.133.09
1,34	3,00	11,20	38	2,00	15,00	508.134.09
1,35	3,00	11,20	38	2,00	15,00	508.135.09
1,36	3,00	11,20	38	2,00	15,00	508.136.09
1,37	3,00	11,20	38	2,00	15,00	508.137.09
1,38	3,00	11,20	38	2,00	15,00	508.138.09
1,39	3,00	11,20	38	2,00	15,00	508.139.09
1,40	3,00	11,20	38	2,00	15,00	508.140.09
1,41	3,00	12,00	38	2,00	15,00	508.141.09
1,42	3,00	12,00	38	2,00	15,00	508.142.09
1,43	3,00	12,00	38	2,00	15,00	508.143.09
1,44	3,00	12,00	38	2,00	15,00	508.144.09
1,45	3,00	12,00	38	2,00	15,00	508.145.09
1,46	3,00	12,00	38	2,00	15,00	508.146.09
1,47	3,00	12,00	38	2,00	15,00	508.147.09
1,48	3,00	12,00	38	2,00	15,00	508.148.09
1,49	3,00	12,00	38	2,00	15,00	508.149.09
1,50	3,00	12,00	38	-	-	508.150.09
1,51	3,00	12,80	38	-	-	508.151.09
1,52	3,00	12,80	38	-	-	508.152.09
1,53	3,00	12,80	38	-	-	508.153.09
1,54	3,00	12,80	38	-	-	508.154.09
1,55	3,00	12,80	38	-	-	508.155.09
1,56	3,00	12,80	38	-	-	508.156.09
1,57	3,00	12,80	38	-	-	508.157.09
1,58	3,00	12,80	38	-	-	508.158.09
1,59	3,00	12,80	38	-	-	508.159.09
1,60	3,00	12,80	38	-	-	508.160.09
1,61	3,00	13,60	38	-	-	508.161.09
1,62	3,00	13,60	38	-	-	508.162.09
1,63	3,00	13,60	38	-	-	508.163.09
1,64	3,00	13,60	38	-	-	508.164.09
1,65	3,00	13,60	38	-	-	508.165.09
1,66	3,00	13,60	38	-	-	508.166.09
1,67	3,00	13,60	38	-	-	508.167.09
1,68	3,00	13,60	38	-	-	508.168.09
1,69	3,00	13,60	38	-	-	508.169.09
1,70	3,00	13,60	38	-	-	508.170.09
1,71	3,00	14,40	38	-	-	508.171.09

HP

VHM - Mikrobohrer 8xD

Solid carbide micro drill

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Werkzeugdaten / Tool data	Werkzeugempfehlung / Tool Recommendation	Einsatz / Capabilities
TYP N-H, 2, 130°, HA, Norm, BLANK	Universal	z, 8xD

D1 h5	D2	L2	L1	D4	L4	Artikel-Nr./ Article-No.
1,72	3,00	14,40	38	-	-	508.172.09
1,73	3,00	14,40	38	-	-	508.173.09
1,74	3,00	14,40	38	-	-	508.174.09
1,75	3,00	14,40	38	-	-	508.175.09
1,76	3,00	14,40	38	-	-	508.176.09
1,77	3,00	14,40	38	-	-	508.177.09
1,78	3,00	14,40	38	-	-	508.178.09
1,79	3,00	14,40	38	-	-	508.179.09
1,80	3,00	14,40	38	-	-	508.180.09
1,81	3,00	15,20	38	-	-	508.181.09
1,82	3,00	15,20	38	-	-	508.182.09
1,83	3,00	15,20	38	-	-	508.183.09
1,84	3,00	15,20	38	-	-	508.184.09
1,85	3,00	15,20	38	-	-	508.185.09
1,86	3,00	15,20	38	-	-	508.186.09
1,87	3,00	15,20	38	-	-	508.187.09
1,88	3,00	15,20	38	-	-	508.188.09
1,89	3,00	15,20	38	-	-	508.189.09
1,90	3,00	15,20	38	-	-	508.190.09
1,91	3,00	16,00	38	-	-	508.191.09
1,92	3,00	16,00	38	-	-	508.192.09
1,93	3,00	16,00	38	-	-	508.193.09
1,94	3,00	16,00	38	-	-	508.194.09
1,95	3,00	16,00	38	-	-	508.195.09
1,96	3,00	16,00	38	-	-	508.196.09
1,97	3,00	16,00	38	-	-	508.197.09
1,98	3,00	16,00	38	-	-	508.198.09
1,99	3,00	16,00	38	-	-	508.199.09
2,00	3,00	16,00	38	-	-	508.200.09
2,01	3,00	16,80	38	-	-	508.201.09
2,02	3,00	16,80	38	-	-	508.202.09
2,03	3,00	16,80	38	-	-	508.203.09
2,04	3,00	16,80	38	-	-	508.204.09
2,05	3,00	16,80	38	-	-	508.205.09

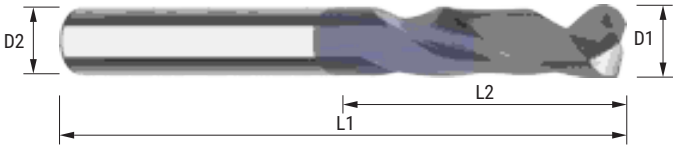
UNI

HP

VHM - Spiralbohrer extra kurz

Solid carbide drill extra short

303...



Werkzeugdaten / Tool data	Werkzeugempfehlung / Tool Recommendation	Einsatz / Capabilities
TYP N, 2, 140°, 30°, o.IK, HA, Norm, TIALN	Universal	z, 3xD

D1 h6	D2 h6	L2	L1	Artikel-Nr./ Article-No.
3,00	3,00	16	46	303.030.00
3,10	3,10	18	49	303.031.00
3,20	3,20	18	49	303.032.00
3,30	3,30	18	49	303.033.00
3,40	3,40	20	52	303.034.00
3,50	3,50	20	52	303.035.00
3,60	3,60	20	52	303.036.00
3,70	3,70	20	52	303.037.00
3,80	3,80	22	55	303.038.00
3,90	3,90	22	55	303.039.00
4,00	4,00	22	55	303.040.00
4,10	4,10	22	55	303.041.00
4,20	4,20	22	55	303.042.00
4,30	4,30	24	58	303.043.00
4,40	4,40	24	58	303.044.00
4,50	4,50	24	58	303.045.00
4,60	4,60	24	58	303.046.00
4,70	4,70	24	58	303.047.00
4,80	4,80	26	62	303.048.00
4,90	4,90	26	62	303.049.00
5,00	5,00	26	62	303.050.00
5,10	5,10	26	62	303.051.00
5,20	5,20	26	62	303.052.00
5,30	5,30	26	62	303.053.00
5,40	5,40	28	66	303.054.00
5,50	5,50	28	66	303.055.00
5,60	5,60	28	66	303.056.00
5,70	5,70	28	66	303.057.00
5,80	5,80	28	66	303.058.00
5,90	5,90	28	66	303.059.00
6,00	6,00	28	66	303.060.00
6,10	6,10	31	70	303.061.00
6,20	6,20	31	70	303.062.00
6,30	6,30	31	70	303.063.00
6,40	6,40	31	70	303.064.00
6,50	6,50	31	70	303.065.00
6,60	6,60	31	70	303.066.00
6,70	6,70	31	70	303.067.00
6,80	6,80	34	74	303.068.00
6,90	6,90	34	74	303.069.00
7,00	7,00	34	74	303.070.00
7,10	7,10	34	74	303.071.00
7,20	7,20	34	74	303.072.00
7,30	7,30	34	74	303.073.00
7,40	7,40	34	74	303.074.00
7,50	7,50	34	74	303.075.00
7,60	7,60	37	79	303.076.00
7,70	7,70	37	79	303.077.00
7,80	7,80	37	79	303.078.00
7,90	7,90	37	79	303.079.00

HP VHM - Spiralbohrer extra kurz

Solid carbide drill extra short

303...

Werkzeugdaten / Tool data	Werkzeugempfehlung / Tool Recommendation	Einsatz / Capabilities
TYP N, 2, 140°, 30°, o.IK, HA, Norm, TIALN	Universal	z, 3xD

D1 h6	D2 h6	L2	L1	Artikel-Nr./ Article-No.
8,00	8,00	37	79	303.080.00
8,10	8,10	37	79	303.081.00
8,20	8,20	37	79	303.082.00
8,30	8,30	37	79	303.083.00
8,40	8,40	37	79	303.084.00
8,50	8,50	37	79	303.085.00
8,60	8,60	40	84	303.086.00
8,70	8,70	40	84	303.087.00
8,80	8,80	40	84	303.088.00
8,90	8,90	40	84	303.089.00
9,00	9,00	40	84	303.090.00
9,10	9,10	40	84	303.091.00
9,20	9,20	40	84	303.092.00
9,30	9,30	40	84	303.093.00
9,40	9,40	40	84	303.094.00
9,50	9,50	40	84	303.095.00
9,60	9,60	43	89	303.096.00
9,70	9,70	43	89	303.097.00
9,80	9,80	43	89	303.098.00
9,90	9,90	43	89	303.099.00
10,00	10,00	43	89	303.100.00
10,20	10,20	43	89	303.102.00
10,30	10,30	43	89	303.103.00
10,50	10,50	43	89	303.105.00
11,00	11,00	47	95	303.110.00
11,50	11,50	47	95	303.115.00
11,80	11,80	47	95	303.118.00
12,00	12,00	51	102	303.120.00
13,00	13,00	51	102	303.130.00
13,50	13,50	54	107	303.135.00
14,00	14,00	54	107	303.140.00
14,50	14,50	56	111	303.145.00
15,00	15,00	56	111	303.150.00
15,50	15,50	58	115	303.155.00
16,00	16,00	58	115	303.160.00
16,50	16,50	60	119	303.165.00
17,00	17,00	60	119	303.170.00
17,50	17,50	62	123	303.175.00
18,00	18,00	62	123	303.180.00
18,50	18,50	64	127	303.185.00
19,00	19,00	64	127	303.190.00
19,50	19,50	66	131	303.195.00
20,00	20,00	66	131	303.200.00

HP VHM - Spiralbohrer 3xD

Solid carbide drill

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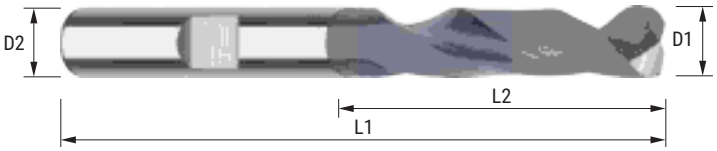

Werkzeugdaten / Tool data	Werkzeugempfehlung / Tool Recommendation	Einsatz / Capabilities
TYP N, 2, 140°, o.IK, HA, HB, Norm, TIALN	Universal	z, 3xD

D1 m7	D2 h6	L2	L1	Artikel-Nr./ Article-No.	HA	HB
1,00	3,00	8	38	503.010...	.00	-
1,10	3,00	8	38	503.011...	.00	-
1,20	3,00	8	38	503.012...	.00	-
1,30	3,00	8	38	503.013...	.00	-
1,40	3,00	8	38	503.014...	.00	-
1,50	3,00	8	50	503.015...	.00	-
1,60	3,00	8	50	503.016...	.00	-
1,70	3,00	10	50	503.017...	.00	-
1,80	3,00	10	50	503.018...	.00	-
1,90	3,00	10	50	503.019...	.00	-
2,00	3,00	16	50	503.020...	.00	-
2,10	3,00	16	50	503.021...	.00	-
2,20	3,00	16	50	503.022...	.00	-
2,30	3,00	16	50	503.023...	.00	-
2,40	3,00	16	50	503.024...	.00	-
2,50	3,00	20	50	503.025...	.00	-
2,60	3,00	20	50	503.026...	.00	-
2,70	3,00	20	50	503.027...	.00	-
2,80	3,00	20	50	503.028...	.00	-
2,90	3,00	20	50	503.029...	.00	-
3,00	6,00	20	62	503.030...	.00	.10
3,10	6,00	20	62	503.031...	.00	.10
3,20	6,00	20	62	503.032...	.00	.10
3,25	6,00	20	62	503.325...	.00	.10
3,30	6,00	20	62	503.033...	.00	.10
3,40	6,00	20	62	503.034...	.00	.10
3,50	6,00	20	62	503.035...	.00	.10
3,60	6,00	20	62	503.036...	.00	.10
3,70	6,00	20	62	503.037...	.00	.10
3,80	6,00	24	66	503.038...	.00	.10
3,90	6,00	24	66	503.039...	.00	.10
4,00	6,00	24	66	503.040...	.00	.10
4,10	6,00	24	66	503.041...	.00	.10
4,20	6,00	24	66	503.042...	.00	.10
4,30	6,00	24	66	503.043...	.00	.10
4,40	6,00	24	66	503.044...	.00	.10
4,50	6,00	24	66	503.045...	.00	.10
4,60	6,00	24	66	503.046...	.00	.10
4,65	6,00	24	66	503.465...	.00	.10
4,70	6,00	24	66	503.047...	.00	.10
4,80	6,00	28	66	503.048...	.00	.10
4,90	6,00	28	66	503.049...	.00	.10
5,00	6,00	28	66	503.050...	.00	.10
5,10	6,00	28	66	503.051...	.00	.10
5,20	6,00	28	66	503.052...	.00	.10
5,30	6,00	28	66	503.053...	.00	.10
5,40	6,00	28	66	503.054...	.00	.10
5,50	6,00	28	66	503.055...	.00	.10
5,60	6,00	28	66	503.056...	.00	.10
5,70	6,00	28	66	503.057...	.00	.10

HP VHM - Spiralbohrer 3xD

Solid carbide drill

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Werkzeugdaten / Tool data: TYP N, 2, 140°, o.IK, HA, HB, Norm, TIALN

Werkzeugempfehlung / Tool Recommendation: Universal

Einsatz / Capabilities: z, 3xD

D1 m7	D2 h6	L2	L1	Artikel-Nr./ Article-No.	HA	HB
5,80	6,00	28	66	503.058...	.00	.10
5,90	6,00	28	66	503.059...	.00	.10
6,00	6,00	28	66	503.060...	.00	.10
6,10	8,00	34	79	503.061...	.00	.10
6,20	8,00	34	79	503.062...	.00	.10
6,30	8,00	34	79	503.063...	.00	.10
6,40	8,00	34	79	503.064...	.00	.10
6,50	8,00	34	79	503.065...	.00	.10
6,60	8,00	34	79	503.066...	.00	.10
6,70	8,00	34	79	503.067...	.00	.10
6,80	8,00	34	79	503.068...	.00	.10
6,90	8,00	34	79	503.069...	.00	.10
7,00	8,00	34	79	503.070...	.00	.10
7,10	8,00	41	79	503.071...	.00	.10
7,20	8,00	41	79	503.072...	.00	.10
7,30	8,00	41	79	503.073...	.00	.10
7,40	8,00	41	79	503.074...	.00	.10
7,50	8,00	41	79	503.075...	.00	.10
7,60	8,00	41	79	503.076...	.00	.10
7,70	8,00	41	79	503.077...	.00	.10
7,80	8,00	41	79	503.078...	.00	.10
7,90	8,00	41	79	503.079...	.00	.10
8,00	8,00	41	79	503.080...	.00	.10
8,10	10,00	47	89	503.081...	.00	.10
8,20	10,00	47	89	503.082...	.00	.10
8,30	10,00	47	89	503.083...	.00	.10
8,40	10,00	47	89	503.084...	.00	.10
8,50	10,00	47	89	503.085...	.00	.10
8,60	10,00	47	89	503.086...	.00	.10
8,70	10,00	47	89	503.087...	.00	.10
8,80	10,00	47	89	503.088...	.00	.10
8,90	10,00	47	89	503.089...	.00	.10
9,00	10,00	47	89	503.090...	.00	.10
9,10	10,00	47	89	503.091...	.00	.10
9,20	10,00	47	89	503.092...	.00	.10
9,30	10,00	47	89	503.093...	.00	.10
9,40	10,00	47	89	503.094...	.00	.10
9,50	10,00	47	89	503.095...	.00	.10
9,60	10,00	47	89	503.096...	.00	.10
9,70	10,00	47	89	503.097...	.00	.10
9,80	10,00	47	89	503.098...	.00	.10
9,90	10,00	47	89	503.099...	.00	.10
10,00	10,00	47	89	503.100...	.00	.10
10,10	12,00	55	102	503.101...	.00	.10
10,20	12,00	55	102	503.102...	.00	.10
10,30	12,00	55	102	503.103...	.00	.10
10,40	12,00	55	102	503.104...	.00	.10
10,50	12,00	55	102	503.105...	.00	.10
10,60	12,00	55	102	503.106...	.00	.10
10,70	12,00	55	102	503.107...	.00	.10
10,80	12,00	55	102	503.108...	.00	.10
10,90	12,00	55	102	503.109...	.00	.10
11,00	12,00	55	102	503.110...	.00	.10
11,10	12,00	55	102	503.111...	.00	.10
11,20	12,00	55	102	503.112...	.00	.10
11,30	12,00	55	102	503.113...	.00	.10

HP

VHM - Spiralbohrer 3xD

Solid carbide drill

503...

Werkzeugdaten / Tool data	Werkzeugempfehlung / Tool Recommendation	Einsatz / Capabilities
TYP N, 2, 140°, o.IK, HA, HB, Norm, TIALN	Universal	z, 3xD

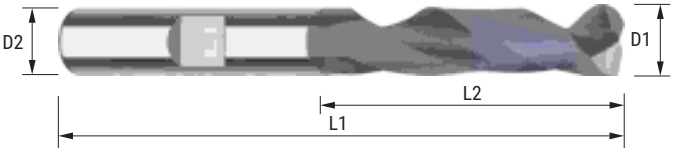
D1 m7	D2 h6	L2	L1	Artikel-Nr./ Article-No.	HA	HB
11,40	12,00	55	102	503.114...	.00	.10
11,50	12,00	55	102	503.115...	.00	.10
11,60	12,00	55	102	503.116...	.00	.10
11,70	12,00	55	102	503.117...	.00	.10
11,80	12,00	55	102	503.118...	.00	.10
11,90	12,00	55	102	503.119...	.00	.10
12,00	12,00	55	102	503.120...	.00	.10
12,30	14,00	60	107	503.123...	.00	.10
12,50	14,00	60	107	503.125...	.00	.10
12,80	14,00	60	107	503.128...	.00	.10
13,00	14,00	60	107	503.130...	.00	.10
13,50	14,00	60	107	503.135...	.00	.10
13,80	14,00	60	107	503.138...	.00	.10
14,00	14,00	60	107	503.140...	.00	.10
14,20	16,00	65	115	503.142...	.00	.10
14,50	16,00	65	115	503.145...	.00	.10
14,80	16,00	65	115	503.148...	.00	.10
15,00	16,00	65	115	503.150...	.00	.10
15,50	16,00	65	115	503.155...	.00	.10
15,80	16,00	65	115	503.158...	.00	.10
16,00	16,00	65	115	503.160...	.00	.10
16,50	18,00	73	123	503.165...	.00	.10
16,80	18,00	73	123	503.168...	.00	.10
17,00	18,00	73	123	503.170...	.00	.10
17,50	18,00	73	123	503.175...	.00	.10
17,80	18,00	73	123	503.178...	.00	.10
18,00	18,00	73	123	503.180...	.00	.10
18,50	20,00	79	131	503.185...	.00	.10
19,00	20,00	79	131	503.190...	.00	.10
19,50	20,00	79	131	503.195...	.00	.10
19,80	20,00	79	131	503.198...	.00	.10
20,00	20,00	79	131	503.200...	.00	.10

GP

VHM - Spiralbohrer 3xD

Solid carbide drill

504...



Werkzeugdaten / Tool data	Werkzeugempfehlung / Tool Recommendation	Einsatz / Capabilities
TYP N, 2, 140°, o.IK, HA, HB, Norm, TIALN	Universal	z, 3xD

D1 m7	D2	L2	L1	Artikel-Nr./ Article-No.	HA	HB
1,00	4,00	7	45	504.010...	.00	-
1,10	4,00	7	45	504.011...	.00	-
1,20	4,00	7	45	504.012...	.00	-
1,30	4,00	7	45	504.013...	.00	-
1,40	4,00	7	45	504.014...	.00	-
1,50	4,00	14	55	504.015...	.00	-
1,60	4,00	14	55	504.016...	.00	-
1,70	4,00	14	55	504.017...	.00	-
1,80	4,00	14	55	504.018...	.00	-
1,90	4,00	14	55	504.019...	.00	-
2,00	4,00	20	55	504.020...	.00	-
2,10	4,00	20	55	504.021...	.00	-
2,20	4,00	20	55	504.022...	.00	-
2,30	4,00	20	55	504.023...	.00	-
2,40	4,00	20	55	504.024...	.00	-
2,50	4,00	20	55	504.025...	.00	-
2,60	4,00	20	55	504.026...	.00	-
2,70	4,00	20	55	504.027...	.00	-
2,80	4,00	20	55	504.028...	.00	-
2,90	4,00	20	55	504.029...	.00	-
3,00	6,00	20	62	504.030...	.00	.10
3,10	6,00	20	62	504.031...	.00	.10
3,20	6,00	20	62	504.032...	.00	.10
3,25	6,00	20	62	504.325...	.00	.10
3,30	6,00	20	62	504.033...	.00	.10
3,40	6,00	20	62	504.034...	.00	.10
3,50	6,00	20	62	504.035...	.00	.10
3,60	6,00	20	62	504.036...	.00	.10
3,70	6,00	20	62	504.037...	.00	.10
3,80	6,00	24	66	504.038...	.00	.10
3,90	6,00	24	66	504.039...	.00	.10
4,00	6,00	24	66	504.040...	.00	.10
4,10	6,00	24	66	504.041...	.00	.10
4,20	6,00	24	66	504.042...	.00	.10
4,30	6,00	24	66	504.043...	.00	.10
4,40	6,00	24	66	504.044...	.00	.10
4,50	6,00	24	66	504.045...	.00	.10
4,60	6,00	24	66	504.046...	.00	.10
4,65	6,00	24	66	504.465...	.00	.10
4,70	6,00	24	66	504.047...	.00	.10
4,80	6,00	28	66	504.048...	.00	.10
4,90	6,00	28	66	504.049...	.00	.10
5,00	6,00	28	66	504.050...	.00	.10
5,10	6,00	28	66	504.051...	.00	.10
5,20	6,00	28	66	504.052...	.00	.10
5,30	6,00	28	66	504.053...	.00	.10
5,40	6,00	28	66	504.054...	.00	.10
5,50	6,00	28	66	504.055...	.00	.10
5,55	6,00	28	66	504.555...	.00	.10
5,60	6,00	28	66	504.056...	.00	.10

UNI

GP

VHM - Spiralbohrer 3xD

Solid carbide drill

504...

Werkzeugdaten / Tool data	Werkzeugempfehlung / Tool Recommendation	Einsatz / Capabilities
TYP N, 2, 140°, o.IK, HA, HB, Norm, TIALN	Universal	z, 3xD

D1 m7	D2	L2	L1	Artikel-Nr./ Article-No.	HA	HB
5,70	6,00	28	66	504.057...	.00	.10
5,80	6,00	28	66	504.058...	.00	.10
5,90	6,00	28	66	504.059...	.00	.10
6,00	6,00	28	66	504.060...	.00	.10
6,10	8,00	34	79	504.061...	.00	.10
6,20	8,00	34	79	504.062...	.00	.10
6,30	8,00	34	79	504.063...	.00	.10
6,40	8,00	34	79	504.064...	.00	.10
6,50	8,00	34	79	504.065...	.00	.10
6,60	8,00	34	79	504.066...	.00	.10
6,70	8,00	34	79	504.067...	.00	.10
6,80	8,00	34	79	504.068...	.00	.10
6,90	8,00	34	79	504.069...	.00	.10
7,00	8,00	34	79	504.070...	.00	.10
7,10	8,00	41	79	504.071...	.00	.10
7,20	8,00	41	79	504.072...	.00	.10
7,30	8,00	41	79	504.073...	.00	.10
7,40	8,00	41	79	504.074...	.00	.10
7,50	8,00	41	79	504.075...	.00	.10
7,60	8,00	41	79	504.076...	.00	.10
7,70	8,00	41	79	504.077...	.00	.10
7,80	8,00	41	79	504.078...	.00	.10
7,90	8,00	41	79	504.079...	.00	.10
8,00	8,00	41	79	504.080...	.00	.10
8,10	10,00	47	89	504.081...	.00	.10
8,20	10,00	47	89	504.082...	.00	.10
8,30	10,00	47	89	504.083...	.00	.10
8,40	10,00	47	89	504.084...	.00	.10
8,50	10,00	47	89	504.085...	.00	.10
8,60	10,00	47	89	504.086...	.00	.10
8,70	10,00	47	89	504.087...	.00	.10
8,80	10,00	47	89	504.088...	.00	.10
8,90	10,00	47	89	504.089...	.00	.10
9,00	10,00	47	89	504.090...	.00	.10
9,10	10,00	47	89	504.091...	.00	.10
9,20	10,00	47	89	504.092...	.00	.10
9,30	10,00	47	89	504.093...	.00	.10
9,40	10,00	47	89	504.094...	.00	.10
9,50	10,00	47	89	504.095...	.00	.10
9,60	10,00	47	89	504.096...	.00	.10
9,70	10,00	47	89	504.097...	.00	.10
9,80	10,00	47	89	504.098...	.00	.10
9,90	10,00	47	89	504.099...	.00	.10
10,00	10,00	47	89	504.100...	.00	.10
10,10	12,00	55	102	504.101...	.00	.10
10,20	12,00	55	102	504.102...	.00	.10
10,30	12,00	55	102	504.103...	.00	.10
10,40	12,00	55	102	504.104...	.00	.10
10,50	12,00	55	102	504.105...	.00	.10
10,60	12,00	55	102	504.106...	.00	.10
10,70	12,00	55	102	504.107...	.00	.10
10,80	12,00	55	102	504.108...	.00	.10
10,90	12,00	55	102	504.109...	.00	.10
11,00	12,00	55	102	504.110...	.00	.10
11,10	12,00	55	102	504.111...	.00	.10
11,20	12,00	55	102	504.112...	.00	.10

GP

VHM - Spiralbohrer 3xD

Solid carbide drill

504...

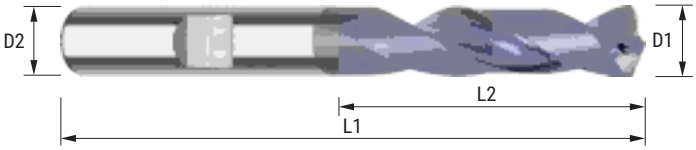
Werkzeugdaten / Tool data				Werkzeugempfehlung / Tool Recommendation	Einsatz / Capabilities
TYP N, 2, 140°, o.IK, HA, HB, Norm, TIALN				Universal	z, 3xD

D1 m7	D2	L2	L1	Artikel-Nr./ Article-No.	HA	HB
11,30	12,00	55	102	504.113...	.00	.10
11,40	12,00	55	102	504.114...	.00	.10
11,50	12,00	55	102	504.115...	.00	.10
11,60	12,00	55	102	504.116...	.00	.10
11,70	12,00	55	102	504.117...	.00	.10
11,80	12,00	55	102	504.118...	.00	.10
11,90	12,00	55	102	504.119...	.00	.10
12,00	12,00	55	102	504.120...	.00	.10
12,20	14,00	60	107	504.122...	.00	.10
12,30	14,00	60	107	504.123...	.00	.10
12,50	14,00	60	107	504.125...	.00	.10
12,80	14,00	60	107	504.128...	.00	.10
13,00	14,00	60	107	504.130...	.00	.10
13,50	14,00	60	107	504.135...	.00	.10
13,80	14,00	60	107	504.138...	.00	.10
14,00	14,00	60	107	504.140...	.00	.10
14,20	16,00	65	115	504.142...	.00	.10
14,50	16,00	65	115	504.145...	.00	.10
14,80	16,00	65	115	504.148...	.00	.10
15,00	16,00	65	115	504.150...	.00	.10
15,10	16,00	65	115	504.151...	.00	.10
15,20	16,00	65	115	504.152...	.00	.10
15,50	16,00	65	115	504.155...	.00	.10
15,80	16,00	65	115	504.158...	.00	.10
16,00	16,00	65	115	504.160...	.00	.10
16,50	18,00	73	123	504.165...	.00	.10
16,80	18,00	73	123	504.168...	.00	.10
17,00	18,00	73	123	504.170...	.00	.10
17,30	18,00	73	123	504.173...	.00	.10
17,50	18,00	73	123	504.175...	.00	.10
17,70	18,00	73	123	504.177...	.00	.10
17,80	18,00	73	123	504.178...	.00	.10
18,00	18,00	73	123	504.180...	.00	.10
18,50	20,00	79	131	504.185...	.00	.10
19,00	20,00	79	131	504.190...	.00	.10
19,30	20,00	79	131	504.193...	.00	.10
19,50	20,00	79	131	504.195...	.00	.10
19,80	20,00	79	131	504.198...	.00	.10
20,00	20,00	79	131	504.200...	.00	.10

HP VHM - Hochleistungsspiralbohrer mit Innenkühlung 3xD

Solid carbide high performance drill with internal coolant hole

843...



Werkzeugdaten / Tool data	Werkzeugempfehlung / Tool Recommendation	Einsatz / Capabilities
TYP N-W, 2, 120° 135°, K, HA, HB, TIALN	HPC, Universal	z, 3xD

D1 m7	D2 h6	L2	L1	Artikel-Nr./ Article-No.	HA	HB
3,00	6,00	20	62	843.030...	.00	.10
3,10	6,00	20	62	843.031...	.00	.10
3,20	6,00	20	62	843.032...	.00	.10
3,30	6,00	20	62	843.033...	.00	.10
3,40	6,00	20	62	843.034...	.00	.10
3,50	6,00	20	62	843.035...	.00	.10
3,60	6,00	20	62	843.036...	.00	.10
3,70	6,00	20	62	843.037...	.00	.10
3,80	6,00	24	66	843.038...	.00	.10
3,90	6,00	24	66	843.039...	.00	.10
4,00	6,00	24	66	843.040...	.00	.10
4,10	6,00	24	66	843.041...	.00	.10
4,20	6,00	24	66	843.042...	.00	.10
4,30	6,00	24	66	843.043...	.00	.10
4,40	6,00	24	66	843.044...	.00	.10
4,50	6,00	24	66	843.045...	.00	.10
4,60	6,00	24	66	843.046...	.00	.10
4,70	6,00	24	66	843.047...	.00	.10
4,80	6,00	28	66	843.048...	.00	.10
4,90	6,00	28	66	843.049...	.00	.10
5,00	6,00	28	66	843.050...	.00	.10
5,10	6,00	28	66	843.051...	.00	.10
5,20	6,00	28	66	843.052...	.00	.10
5,30	6,00	28	66	843.053...	.00	.10
5,40	6,00	28	66	843.054...	.00	.10
5,50	6,00	28	66	843.055...	.00	.10
5,60	6,00	28	66	843.056...	.00	.10
5,70	6,00	28	66	843.057...	.00	.10
5,80	6,00	28	66	843.058...	.00	.10
5,90	6,00	28	66	843.059...	.00	.10
6,00	6,00	28	66	843.060...	.00	.10
6,10	8,00	34	79	843.061...	.00	.10
6,20	8,00	34	79	843.062...	.00	.10
6,30	8,00	34	79	843.063...	.00	.10
6,40	8,00	34	79	843.064...	.00	.10
6,50	8,00	34	79	843.065...	.00	.10
6,60	8,00	34	79	843.066...	.00	.10
6,70	8,00	34	79	843.067...	.00	.10
6,80	8,00	34	79	843.068...	.00	.10
6,90	8,00	34	79	843.069...	.00	.10
7,00	8,00	34	79	843.070...	.00	.10
7,10	8,00	41	79	843.071...	.00	.10
7,20	8,00	41	79	843.072...	.00	.10
7,30	8,00	41	79	843.073...	.00	.10
7,40	8,00	41	79	843.074...	.00	.10
7,50	8,00	41	79	843.075...	.00	.10
7,60	8,00	41	79	843.076...	.00	.10
7,70	8,00	41	79	843.077...	.00	.10
7,80	8,00	41	79	843.078...	.00	.10
7,90	8,00	41	79	843.079...	.00	.10
8,00	8,00	41	79	843.080...	.00	.10
8,10	10,00	47	89	843.081...	.00	.10
8,20	10,00	47	89	843.082...	.00	.10
8,30	10,00	47	89	843.083...	.00	.10

HP VHM - Hochleistungsspiralbohrer mit Innenkühlung 3xD

Solid carbide high performance drill with internal coolant hole

843...

Werkzeugdaten / Tool data	Werkzeugempfehlung / Tool Recommendation	Einsatz / Capabilities
TYP N-W, 2, TYP DIN, IK, HA, HB, TIALN	HPC, Universal	z, 3xD

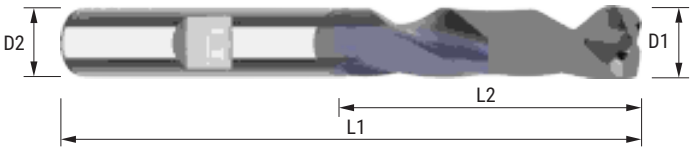
D1 m7	D2 h6	L2	L1	Artikel-Nr./ Article-No.	HA	HB
8,40	10,00	47	89	843.084...	.00	.10
8,50	10,00	47	89	843.085...	.00	.10
8,60	10,00	47	89	843.086...	.00	.10
8,70	10,00	47	89	843.087...	.00	.10
8,80	10,00	47	89	843.088...	.00	.10
8,90	10,00	47	89	843.089...	.00	.10
9,00	10,00	47	89	843.090...	.00	.10
9,10	10,00	47	89	843.091...	.00	.10
9,20	10,00	47	89	843.092...	.00	.10
9,30	10,00	47	89	843.093...	.00	.10
9,40	10,00	47	89	843.094...	.00	.10
9,50	10,00	47	89	843.095...	.00	.10
9,60	10,00	47	89	843.096...	.00	.10
9,70	10,00	47	89	843.097...	.00	.10
9,80	10,00	47	89	843.098...	.00	.10
9,90	10,00	47	89	843.099...	.00	.10
10,00	10,00	47	89	843.100...	.00	.10
10,10	12,00	55	102	843.101...	.00	.10
10,20	12,00	55	102	843.102...	.00	.10
10,30	12,00	55	102	843.103...	.00	.10
10,40	12,00	55	102	843.104...	.00	.10
10,50	12,00	55	102	843.105...	.00	.10
10,60	12,00	55	102	843.106...	.00	.10
10,70	12,00	55	102	843.107...	.00	.10
10,80	12,00	55	102	843.108...	.00	.10
10,90	12,00	55	102	843.109...	.00	.10
11,00	12,00	55	102	843.110...	.00	.10
11,10	12,00	55	102	843.111...	.00	.10
11,20	12,00	55	102	843.112...	.00	.10
11,30	12,00	55	102	843.113...	.00	.10
11,40	12,00	55	102	843.114...	.00	.10
11,50	12,00	55	102	843.115...	.00	.10
11,60	12,00	55	102	843.116...	.00	.10
11,70	12,00	55	102	843.117...	.00	.10
11,80	12,00	55	102	843.118...	.00	.10
11,90	12,00	55	102	843.119...	.00	.10
12,00	12,00	55	102	843.120...	.00	.10
12,30	14,00	60	107	843.123...	.00	.10
12,50	14,00	60	107	843.125...	.00	.10
12,80	14,00	60	107	843.128...	.00	.10
13,00	14,00	60	107	843.130...	.00	.10
13,50	14,00	60	107	843.135...	.00	.10
13,80	14,00	60	107	843.138...	.00	.10
14,00	14,00	60	107	843.140...	.00	.10
14,20	16,00	65	115	843.142...	.00	.10
14,50	16,00	65	115	843.145...	.00	.10
14,80	16,00	65	115	843.148...	.00	.10
15,00	16,00	65	115	843.150...	.00	.10
15,50	16,00	65	115	843.155...	.00	.10
15,80	16,00	65	115	843.158...	.00	.10
16,00	16,00	65	115	843.160...	.00	.10
16,50	18,00	73	123	843.165...	.00	.10
16,80	18,00	73	123	843.168...	.00	.10
17,00	18,00	73	123	843.170...	.00	.10
17,50	18,00	73	123	843.175...	.00	.10
17,80	18,00	73	123	843.178...	.00	.10
18,00	18,00	73	123	843.180...	.00	.10
18,50	20,00	79	131	843.185...	.00	.10
19,00	20,00	79	131	843.190...	.00	.10
19,50	20,00	79	131	843.195...	.00	.10
20,00	20,00	79	131	843.200...	.00	.10

HP VHM - Spiralbohrer mit Innenkühlung 3xD

Solid carbide drill with internal coolant hole

1st CHOICE

703...



Werkzeugdaten / Tool data	Werkzeugempfehlung / Tool Recommendation	Einsatz / Capabilities
TYP N, 2, 140°, IK, HA, HB, Norm, TIALN	Universal	z, 3xD

D1 m7	D2 h6	L2	L1	Artikel-Nr./ Article-No.	HA	HB
3,00	6,00	20	62	703.030...	.00	.10
3,10	6,00	20	62	703.031...	.00	.10
3,20	6,00	20	62	703.032...	.00	.10
3,30	6,00	20	62	703.033...	.00	.10
3,40	6,00	20	62	703.034...	.00	.10
3,50	6,00	20	62	703.035...	.00	.10
3,60	6,00	20	62	703.036...	.00	.10
3,70	6,00	20	62	703.037...	.00	.10
3,80	6,00	24	66	703.038...	.00	.10
3,90	6,00	24	66	703.039...	.00	.10
4,00	6,00	24	66	703.040...	.00	.10
4,10	6,00	24	66	703.041...	.00	.10
4,20	6,00	24	66	703.042...	.00	.10
4,30	6,00	24	66	703.043...	.00	.10
4,40	6,00	24	66	703.044...	.00	.10
4,50	6,00	24	66	703.045...	.00	.10
4,60	6,00	24	66	703.046...	.00	.10
4,65	6,00	24	66	703.465...	.00	.10
4,70	6,00	24	66	703.047...	.00	.10
4,80	6,00	28	66	703.048...	.00	.10
4,90	6,00	28	66	703.049...	.00	.10
5,00	6,00	28	66	703.050...	.00	.10
5,10	6,00	28	66	703.051...	.00	.10
5,20	6,00	28	66	703.052...	.00	.10
5,30	6,00	28	66	703.053...	.00	.10
5,40	6,00	28	66	703.054...	.00	.10
5,50	6,00	28	66	703.055...	.00	.10
5,55	6,00	28	66	703.555...	.00	.10
5,60	6,00	28	66	703.056...	.00	.10
5,70	6,00	28	66	703.057...	.00	.10
5,80	6,00	28	66	703.058...	.00	.10
5,90	6,00	28	66	703.059...	.00	.10
6,00	6,00	28	66	703.060...	.00	.10
6,10	8,00	34	79	703.061...	.00	.10
6,20	8,00	34	79	703.062...	.00	.10
6,30	8,00	34	79	703.063...	.00	.10
6,40	8,00	34	79	703.064...	.00	.10
6,50	8,00	34	79	703.065...	.00	.10
6,60	8,00	34	79	703.066...	.00	.10
6,70	8,00	34	79	703.067...	.00	.10
6,80	8,00	34	79	703.068...	.00	.10
6,90	8,00	34	79	703.069...	.00	.10
7,00	8,00	34	79	703.070...	.00	.10
7,10	8,00	41	79	703.071...	.00	.10
7,20	8,00	41	79	703.072...	.00	.10
7,30	8,00	41	79	703.073...	.00	.10
7,40	8,00	41	79	703.074...	.00	.10
7,50	8,00	41	79	703.075...	.00	.10
7,60	8,00	41	79	703.076...	.00	.10
7,70	8,00	41	79	703.077...	.00	.10

HP VHM - Spiralbohrer mit Innenkühlung 3xD

Solid carbide drill with internal coolant hole

1st CHOICE

703...

Werkzeugdaten / Tool data: TYP N, 2, 140°, IK, HA, HB, Norm, TIALN

Werkzeugempfehlung / Tool Recommendation: Universal

Einsatz / Capabilities: z, 3xD

D1 m7	D2 h6	L2	L1	Artikel-Nr./ Article-No.	HA	HB
7,80	8,00	41	79	703.078...	.00	.10
7,90	8,00	41	79	703.079...	.00	.10
8,00	8,00	41	79	703.080...	.00	.10
8,10	10,00	47	89	703.081...	.00	.10
8,20	10,00	47	89	703.082...	.00	.10
8,30	10,00	47	89	703.083...	.00	.10
8,40	10,00	47	89	703.084...	.00	.10
8,50	10,00	47	89	703.085...	.00	.10
8,60	10,00	47	89	703.086...	.00	.10
8,70	10,00	47	89	703.087...	.00	.10
8,80	10,00	47	89	703.088...	.00	.10
8,90	10,00	47	89	703.089...	.00	.10
9,00	10,00	47	89	703.090...	.00	.10
9,10	10,00	47	89	703.091...	.00	.10
9,20	10,00	47	89	703.092...	.00	.10
9,30	10,00	47	89	703.093...	.00	.10
9,40	10,00	47	89	703.094...	.00	.10
9,50	10,00	47	89	703.095...	.00	.10
9,60	10,00	47	89	703.096...	.00	.10
9,70	10,00	47	89	703.097...	.00	.10
9,80	10,00	47	89	703.098...	.00	.10
9,90	10,00	47	89	703.099...	.00	.10
10,00	10,00	47	89	703.100...	.00	.10
10,10	12,00	55	102	703.101...	.00	.10
10,20	12,00	55	102	703.102...	.00	.10
10,30	12,00	55	102	703.103...	.00	.10
10,40	12,00	55	102	703.104...	.00	.10
10,50	12,00	55	102	703.105...	.00	.10
10,60	12,00	55	102	703.106...	.00	.10
10,70	12,00	55	102	703.107...	.00	.10
10,80	12,00	55	102	703.108...	.00	.10
10,90	12,00	55	102	703.109...	.00	.10
11,00	12,00	55	102	703.110...	.00	.10
11,10	12,00	55	102	703.111...	.00	.10
11,20	12,00	55	102	703.112...	.00	.10
11,30	12,00	55	102	703.113...	.00	.10
11,40	12,00	55	102	703.114...	.00	.10
11,50	12,00	55	102	703.115...	.00	.10
11,60	12,00	55	102	703.116...	.00	.10
11,70	12,00	55	102	703.117...	.00	.10
11,80	12,00	55	102	703.118...	.00	.10
11,90	12,00	55	102	703.119...	.00	.10
12,00	12,00	55	102	703.120...	.00	.10
12,20	14,00	60	107	703.122...	.00	.10
12,30	14,00	60	107	703.123...	.00	.10
12,50	14,00	60	107	703.125...	.00	.10
12,80	14,00	60	107	703.128...	.00	.10
13,00	14,00	60	107	703.130...	.00	.10
13,50	14,00	60	107	703.135...	.00	.10
13,80	14,00	60	107	703.138...	.00	.10
14,00	14,00	60	107	703.140...	.00	.10
14,50	16,00	65	115	703.145...	.00	.10
14,80	16,00	65	115	703.148...	.00	.10
15,00	16,00	65	115	703.150...	.00	.10
15,50	16,00	65	115	703.155...	.00	.10
15,80	16,00	65	115	703.158...	.00	.10

HP VHM - Spiralbohrer mit Innenkühlung 3xD
Solid carbide drill with internal coolant hole

1st CHOICE

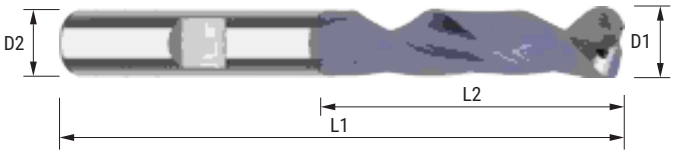
703...

Werkzeugdaten / Tool data	Werkzeugempfehlung / Tool Recommendation	Einsatz / Capabilities
TYP N, 2, 140°, IK, HA, HB, Norm, TIALN	Universal	z, 3xD

D1 m7	D2 h6	L2	L1	Artikel-Nr./ Article-No.	HA	HB
16,00	16,00	65	115	703.160...	.00	.10
16,50	18,00	73	123	703.165...	.00	.10
16,80	18,00	73	123	703.168...	.00	.10
17,00	18,00	73	123	703.170...	.00	.10
17,50	18,00	73	123	703.175...	.00	.10
17,80	18,00	73	123	703.178...	.00	.10
18,00	18,00	73	123	703.180...	.00	.10
18,50	20,00	79	131	703.185...	.00	.10
19,00	20,00	79	131	703.190...	.00	.10
19,50	20,00	79	131	703.195...	.00	.10
19,80	20,00	79	131	703.198...	.00	.10
20,00	20,00	79	131	703.200...	.00	.10

GP VHM - Spiralbohrer mit Innenkühlung 3xD
Solid carbide drill with internal coolant hole

604...



Werkzeugdaten / Tool data	Werkzeugempfehlung / Tool Recommendation	Einsatz / Capabilities
TYP N, 2, 140°, IK, HA, HB, Norm, TIALN	Universal	z, 3xD

D1 m7	D2	L2	L1	Artikel-Nr./ Article-No.	HA	HB
3,00	6,00	20	62	604.030...	.00	.10
3,10	6,00	20	62	604.031...	.00	.10
3,20	6,00	20	62	604.032...	.00	.10
3,25	6,00	20	62	604.325...	.00	.10
3,30	6,00	20	62	604.033...	.00	.10
3,40	6,00	20	62	604.034...	.00	.10
3,50	6,00	20	62	604.035...	.00	.10
3,60	6,00	20	62	604.036...	.00	.10
3,70	6,00	20	62	604.037...	.00	.10
3,80	6,00	24	66	604.038...	.00	.10
3,90	6,00	24	66	604.039...	.00	.10
4,00	6,00	24	66	604.040...	.00	.10
4,10	6,00	24	66	604.041...	.00	.10
4,20	6,00	24	66	604.042...	.00	.10
4,30	6,00	24	66	604.043...	.00	.10
4,40	6,00	24	66	604.044...	.00	.10

GP

VHM - Spiralbohrer mit Innenkühlung 3xD

Solid carbide drill with internal coolant hole

604...

Werkzeugdaten / Tool data: TYP N, 2, 140°, IK, HA, HB, Norm, TIALN

Werkzeugempfehlung / Tool Recommendation: Universal

Einsatz / Capabilities: z, 3xD

D1 m7	D2	L2	L1	Artikel-Nr./ Article-No.	HA	HB
4,50	6,00	24	66	604.045...	.00	.10
4,60	6,00	24	66	604.046...	.00	.10
4,65	6,00	24	66	604.465...	.00	.10
4,70	6,00	24	66	604.047...	.00	.10
4,80	6,00	28	66	604.048...	.00	.10
4,90	6,00	28	66	604.049...	.00	.10
5,00	6,00	28	66	604.050...	.00	.10
5,10	6,00	28	66	604.051...	.00	.10
5,20	6,00	28	66	604.052...	.00	.10
5,30	6,00	28	66	604.053...	.00	.10
5,40	6,00	28	66	604.054...	.00	.10
5,50	6,00	28	66	604.055...	.00	.10
5,55	6,00	28	66	604.555...	.00	.10
5,60	6,00	28	66	604.056...	.00	.10
5,70	6,00	28	66	604.057...	.00	.10
5,80	6,00	28	66	604.058...	.00	.10
5,90	6,00	28	66	604.059...	.00	.10
6,00	6,00	28	66	604.060...	.00	.10
6,10	8,00	34	79	604.061...	.00	.10
6,20	8,00	34	79	604.062...	.00	.10
6,30	8,00	34	79	604.063...	.00	.10
6,40	8,00	34	79	604.064...	.00	.10
6,50	8,00	34	79	604.065...	.00	.10
6,60	8,00	34	79	604.066...	.00	.10
6,70	8,00	34	79	604.067...	.00	.10
6,80	8,00	34	79	604.068...	.00	.10
6,90	8,00	34	79	604.069...	.00	.10
7,00	8,00	34	79	604.070...	.00	.10
7,10	8,00	41	79	604.071...	.00	.10
7,20	8,00	41	79	604.072...	.00	.10
7,30	8,00	41	79	604.073...	.00	.10
7,40	8,00	41	79	604.074...	.00	.10
7,50	8,00	41	79	604.075...	.00	.10
7,60	8,00	41	79	604.076...	.00	.10
7,70	8,00	41	79	604.077...	.00	.10
7,80	8,00	41	79	604.078...	.00	.10
7,90	8,00	41	79	604.079...	.00	.10
8,00	8,00	41	79	604.080...	.00	.10
8,10	10,00	47	89	604.081...	.00	.10
8,20	10,00	47	89	604.082...	.00	.10
8,30	10,00	47	89	604.083...	.00	.10
8,40	10,00	47	89	604.084...	.00	.10
8,50	10,00	47	89	604.085...	.00	.10
8,60	10,00	47	89	604.086...	.00	.10
8,70	10,00	47	89	604.087...	.00	.10
8,80	10,00	47	89	604.088...	.00	.10
8,90	10,00	47	89	604.089...	.00	.10
9,00	10,00	47	89	604.090...	.00	.10
9,10	10,00	47	89	604.091...	.00	.10
9,20	10,00	47	89	604.092...	.00	.10
9,30	10,00	47	89	604.093...	.00	.10
9,40	10,00	47	89	604.094...	.00	.10
9,50	10,00	47	89	604.095...	.00	.10
9,60	10,00	47	89	604.096...	.00	.10
9,70	10,00	47	89	604.097...	.00	.10
9,80	10,00	47	89	604.098...	.00	.10

UNI

GP

VHM - Spiralbohrer mit Innenkühlung 3xD

Solid carbide drill with internal coolant hole

604...

Werkzeugdaten / Tool data	Werkzeugempfehlung / Tool Recommendation	Einsatz / Capabilities
TYP N, 2, 140°, IK, HA, HB, Norm, TIALN	Universal	z, 3xD

D1 m7	D2	L2	L1	Artikel-Nr./ Article-No.	HA	HB
9,90	10,00	47	89	604.099...	.00	.10
10,00	10,00	47	89	604.100...	.00	.10
10,10	12,00	55	102	604.101...	.00	.10
10,20	12,00	55	102	604.102...	.00	.10
10,30	12,00	55	102	604.103...	.00	.10
10,40	12,00	55	102	604.104...	.00	.10
10,50	12,00	55	102	604.105...	.00	.10
10,60	12,00	55	102	604.106...	.00	.10
10,70	12,00	55	102	604.107...	.00	.10
10,80	12,00	55	102	604.108...	.00	.10
10,90	12,00	55	102	604.109...	.00	.10
11,00	12,00	55	102	604.110...	.00	.10
11,10	12,00	55	102	604.111...	.00	.10
11,20	12,00	55	102	604.112...	.00	.10
11,30	12,00	55	102	604.113...	.00	.10
11,40	12,00	55	102	604.114...	.00	.10
11,50	12,00	55	102	604.115...	.00	.10
11,60	12,00	55	102	604.116...	.00	.10
11,70	12,00	55	102	604.117...	.00	.10
11,80	12,00	55	102	604.118...	.00	.10
11,90	12,00	55	102	604.119...	.00	.10
12,00	12,00	55	102	604.120...	.00	.10
12,20	14,00	60	107	604.122...	.00	.10
12,30	14,00	60	107	604.123...	.00	.10
12,50	14,00	60	107	604.125...	.00	.10
12,80	14,00	60	107	604.128...	.00	.10
13,00	14,00	60	107	604.130...	.00	.10
13,50	14,00	60	107	604.135...	.00	.10
13,80	14,00	60	107	604.138...	.00	.10
14,00	14,00	60	107	604.140...	.00	.10
14,20	16,00	65	115	604.142...	.00	.10
14,50	16,00	65	115	604.145...	.00	.10
14,80	16,00	65	115	604.148...	.00	.10
15,00	16,00	65	115	604.150...	.00	.10
15,10	16,00	65	115	604.151...	.00	.10
15,20	16,00	65	115	604.152...	.00	.10
15,50	16,00	65	115	604.155...	.00	.10
15,80	16,00	65	115	604.158...	.00	.10
16,00	16,00	65	115	604.160...	.00	.10
16,50	18,00	73	123	604.165...	.00	.10
16,80	18,00	73	123	604.168...	.00	.10
17,00	18,00	73	123	604.170...	.00	.10
17,30	18,00	73	123	604.173...	.00	.10
17,50	18,00	73	123	604.175...	.00	.10
17,70	18,00	73	123	604.177...	.00	.10
17,80	18,00	73	123	604.178...	.00	.10
18,00	18,00	73	123	604.180...	.00	.10
18,50	20,00	79	131	604.185...	.00	.10
19,00	20,00	79	131	604.190...	.00	.10
19,30	20,00	79	131	604.193...	.00	.10
19,50	20,00	79	131	604.195...	.00	.10
19,80	20,00	79	131	604.198...	.00	.10
20,00	20,00	79	131	604.200...	.00	.10

HP VHM - Spiralbohrer 5xD

Solid carbide drill

505...

Werkzeugdaten / Tool data	Werkzeugempfehlung / Tool Recommendation	Einsatz / Capabilities
TYP N, 2, 140°, o.IK, HA, HB, TIALN	Universal	z, 5xD

D1 m7	D2 h6	L2	L1	Artikel-Nr./ Article-No.	HA	HB
0,50	3,00	10	50	505.005...	.00	-
0,60	3,00	10	50	505.006...	.00	-
0,70	3,00	10	50	505.007...	.00	-
0,80	3,00	10	50	505.008...	.00	-
0,90	3,00	10	50	505.009...	.00	-
1,00	3,00	10	55	505.010...	.00	-
1,10	3,00	12	55	505.011...	.00	-
1,20	3,00	12	55	505.012...	.00	-
1,30	3,00	12	55	505.013...	.00	-
1,40	3,00	12	55	505.014...	.00	-
1,50	3,00	12	55	505.015...	.00	-
1,60	3,00	16	55	505.016...	.00	-
1,70	3,00	16	55	505.017...	.00	-
1,80	3,00	16	55	505.018...	.00	-
1,90	3,00	16	55	505.019...	.00	-
2,00	3,00	21	57	505.020...	.00	-
2,10	3,00	21	57	505.021...	.00	-
2,20	3,00	21	57	505.022...	.00	-
2,30	3,00	21	57	505.023...	.00	-
2,40	3,00	21	57	505.024...	.00	-
2,50	3,00	21	57	505.025...	.00	-
2,60	3,00	21	57	505.026...	.00	-
2,70	3,00	21	57	505.027...	.00	-
2,80	3,00	21	57	505.028...	.00	-
2,90	3,00	21	57	505.029...	.00	-
3,00	6,00	28	66	505.030...	.00	.10
3,10	6,00	28	66	505.031...	.00	.10
3,20	6,00	28	66	505.032...	.00	.10
3,25	6,00	28	66	505.325...	.00	.10
3,30	6,00	28	66	505.033...	.00	.10
3,40	6,00	28	66	505.034...	.00	.10
3,50	6,00	28	66	505.035...	.00	.10
3,60	6,00	28	66	505.036...	.00	.10
3,70	6,00	28	66	505.037...	.00	.10
3,80	6,00	36	74	505.038...	.00	.10
3,90	6,00	36	74	505.039...	.00	.10
4,00	6,00	36	74	505.040...	.00	.10
4,10	6,00	36	74	505.041...	.00	.10
4,20	6,00	36	74	505.042...	.00	.10
4,30	6,00	36	74	505.043...	.00	.10
4,40	6,00	36	74	505.044...	.00	.10
4,50	6,00	36	74	505.045...	.00	.10
4,60	6,00	36	74	505.046...	.00	.10
4,65	6,00	36	74	505.465...	.00	.10
4,70	6,00	36	74	505.047...	.00	.10
4,80	6,00	44	82	505.048...	.00	.10
4,90	6,00	44	82	505.049...	.00	.10
5,00	6,00	44	82	505.050...	.00	.10
5,10	6,00	44	82	505.051...	.00	.10
5,20	6,00	44	82	505.052...	.00	.10

UNI

HP

VHM - Spiralbohrer 5xD

Solid carbide drill

505...

Werkzeugdaten / Tool data				Werkzeugempfehlung / Tool Recommendation	Einsatz / Capabilities
TYP N	2	140°	o.IK	Universal	z
HA	HB	TIALN			5xD

D1 m7	D2 h6	L2	L1	Artikel-Nr./ Article-No.	HA	HB
5,30	6,00	44	82	505.053...	.00	.10
5,40	6,00	44	82	505.054...	.00	.10
5,50	6,00	44	82	505.055...	.00	.10
5,55	6,00	44	82	505.555...	.00	.10
5,60	6,00	44	82	505.056...	.00	.10
5,70	6,00	44	82	505.057...	.00	.10
5,80	6,00	44	82	505.058...	.00	.10
5,90	6,00	44	82	505.059...	.00	.10
6,00	6,00	44	82	505.060...	.00	.10
6,10	8,00	53	91	505.061...	.00	.10
6,20	8,00	53	91	505.062...	.00	.10
6,30	8,00	53	91	505.063...	.00	.10
6,40	8,00	53	91	505.064...	.00	.10
6,50	8,00	53	91	505.065...	.00	.10
6,60	8,00	53	91	505.066...	.00	.10
6,70	8,00	53	91	505.067...	.00	.10
6,80	8,00	53	91	505.068...	.00	.10
6,90	8,00	53	91	505.069...	.00	.10
7,00	8,00	53	91	505.070...	.00	.10
7,10	8,00	53	91	505.071...	.00	.10
7,20	8,00	53	91	505.072...	.00	.10
7,30	8,00	53	91	505.073...	.00	.10
7,40	8,00	53	91	505.074...	.00	.10
7,50	8,00	53	91	505.075...	.00	.10
7,60	8,00	53	91	505.076...	.00	.10
7,70	8,00	53	91	505.077...	.00	.10
7,80	8,00	53	91	505.078...	.00	.10
7,90	8,00	53	91	505.079...	.00	.10
8,00	8,00	53	91	505.080...	.00	.10
8,10	10,00	61	103	505.081...	.00	.10
8,20	10,00	61	103	505.082...	.00	.10
8,30	10,00	61	103	505.083...	.00	.10
8,40	10,00	61	103	505.084...	.00	.10
8,50	10,00	61	103	505.085...	.00	.10
8,60	10,00	61	103	505.086...	.00	.10
8,70	10,00	61	103	505.087...	.00	.10
8,80	10,00	61	103	505.088...	.00	.10
8,90	10,00	61	103	505.089...	.00	.10
9,00	10,00	61	103	505.090...	.00	.10
9,10	10,00	61	103	505.091...	.00	.10
9,20	10,00	61	103	505.092...	.00	.10
9,30	10,00	61	103	505.093...	.00	.10
9,40	10,00	61	103	505.094...	.00	.10
9,50	10,00	61	103	505.095...	.00	.10
9,60	10,00	61	103	505.096...	.00	.10
9,70	10,00	61	103	505.097...	.00	.10
9,80	10,00	61	103	505.098...	.00	.10
9,90	10,00	61	103	505.099...	.00	.10
10,00	10,00	61	103	505.100...	.00	.10
10,10	12,00	71	118	505.101...	.00	.10
10,20	12,00	71	118	505.102...	.00	.10
10,30	12,00	71	118	505.103...	.00	.10
10,40	12,00	71	118	505.104...	.00	.10
10,50	12,00	71	118	505.105...	.00	.10
10,60	12,00	71	118	505.106...	.00	.10
10,70	12,00	71	118	505.107...	.00	.10

HP VHM - Spiralbohrer 5xD

Solid carbide drill

505...

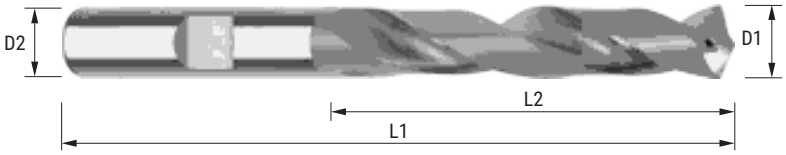
Werkzeugdaten / Tool data	Werkzeugempfehlung / Tool Recommendation	Einsatz / Capabilities
TYP N, 2, 140°, o.IK, HA, HB, TIALN	Universal	z, 5xD

D1 m7	D2 h6	L2	L1	Artikel-Nr./ Article-No.	HA	HB
10,80	12,00	71	118	505.108...	.00	.10
10,90	12,00	71	118	505.109...	.00	.10
11,00	12,00	71	118	505.110...	.00	.10
11,10	12,00	71	118	505.111...	.00	.10
11,20	12,00	71	118	505.112...	.00	.10
11,30	12,00	71	118	505.113...	.00	.10
11,40	12,00	71	118	505.114...	.00	.10
11,50	12,00	71	118	505.115...	.00	.10
11,60	12,00	71	118	505.116...	.00	.10
11,70	12,00	71	118	505.117...	.00	.10
11,80	12,00	71	118	505.118...	.00	.10
11,90	12,00	71	118	505.119...	.00	.10
12,00	12,00	71	118	505.120...	.00	.10
12,20	14,00	77	124	505.122...	.00	.10
12,30	14,00	77	124	505.123...	.00	.10
12,50	14,00	77	124	505.125...	.00	.10
12,80	14,00	77	124	505.128...	.00	.10
13,00	14,00	77	124	505.130...	.00	.10
13,20	14,00	77	124	505.132...	.00	.10
13,50	14,00	77	124	505.135...	.00	.10
13,80	14,00	77	124	505.138...	.00	.10
14,00	14,00	77	124	505.140...	.00	.10
14,50	16,00	83	133	505.145...	.00	.10
14,80	16,00	83	133	505.148...	.00	.10
15,00	16,00	83	133	505.150...	.00	.10
15,50	16,00	83	133	505.155...	.00	.10
15,80	16,00	83	133	505.158...	.00	.10
16,00	16,00	83	133	505.160...	.00	.10
16,50	18,00	93	143	505.165...	.00	.10
16,80	18,00	93	143	505.168...	.00	.10
17,00	18,00	93	143	505.170...	.00	.10
17,50	18,00	93	143	505.175...	.00	.10
17,80	18,00	93	143	505.178...	.00	.10
18,00	18,00	93	143	505.180...	.00	.10
18,50	20,00	101	153	505.185...	.00	.10
19,00	20,00	101	153	505.190...	.00	.10
19,50	20,00	101	153	505.195...	.00	.10
20,00	20,00	101	153	505.200...	.00	.10

HP VHM - Hochleistungsspiralbohrer mit Innenkühlung 5xD

Solid carbide high performance drill with internal coolant hole

845...



InoTV

Werkzeugdaten / Tool data	Werkzeugempfehlung / Tool Recommendation	Einsatz / Capabilities
TYP N-W, 2, 120° 135°, K, HA, HB, TIALN	HPC, Universal	z, 5xD

D1 m7	D2 h6	L2	L1	Artikel-Nr./ Article-No.	HA	HB
3,00	6,00	28	66	845.030...	.00	.10
3,10	6,00	28	66	845.031...	.00	.10
3,20	6,00	28	66	845.032...	.00	.10
3,30	6,00	28	66	845.033...	.00	.10
3,40	6,00	28	66	845.034...	.00	.10
3,50	6,00	28	66	845.035...	.00	.10
3,60	6,00	28	66	845.036...	.00	.10
3,70	6,00	28	66	845.037...	.00	.10
3,80	6,00	36	74	845.038...	.00	.10
3,90	6,00	36	74	845.039...	.00	.10
4,00	6,00	36	74	845.040...	.00	.10
4,10	6,00	36	74	845.041...	.00	.10
4,20	6,00	36	74	845.042...	.00	.10
4,30	6,00	36	74	845.043...	.00	.10
4,40	6,00	36	74	845.044...	.00	.10
4,50	6,00	36	74	845.045...	.00	.10
4,60	6,00	36	74	845.046...	.00	.10
4,65	6,00	36	74	845.465...	.00	.10
4,70	6,00	36	74	845.047...	.00	.10
4,80	6,00	44	82	845.048...	.00	.10
4,90	6,00	44	82	845.049...	.00	.10
5,00	6,00	44	82	845.050...	.00	.10
5,10	6,00	44	82	845.051...	.00	.10
5,20	6,00	44	82	845.052...	.00	.10
5,30	6,00	44	82	845.053...	.00	.10
5,40	6,00	44	82	845.054...	.00	.10
5,50	6,00	44	82	845.055...	.00	.10
5,55	6,00	44	82	845.555...	.00	.10
5,60	6,00	44	82	845.056...	.00	.10
5,70	6,00	44	82	845.057...	.00	.10
5,80	6,00	44	82	845.058...	.00	.10
5,90	6,00	44	82	845.059...	.00	.10
6,00	6,00	44	82	845.060...	.00	.10
6,10	8,00	53	91	845.061...	.00	.10
6,20	8,00	53	91	845.062...	.00	.10
6,30	8,00	53	91	845.063...	.00	.10
6,40	8,00	53	91	845.064...	.00	.10
6,50	8,00	53	91	845.065...	.00	.10
6,60	8,00	53	91	845.066...	.00	.10
6,70	8,00	53	91	845.067...	.00	.10
6,80	8,00	53	91	845.068...	.00	.10
6,90	8,00	53	91	845.069...	.00	.10
7,00	8,00	53	91	845.070...	.00	.10
7,10	8,00	53	91	845.071...	.00	.10
7,20	8,00	53	91	845.072...	.00	.10
7,30	8,00	53	91	845.073...	.00	.10
7,40	8,00	53	91	845.074...	.00	.10
7,50	8,00	53	91	845.075...	.00	.10
7,60	8,00	53	91	845.076...	.00	.10
7,70	8,00	53	91	845.077...	.00	.10

HP VHM - Hochleistungsspiralbohrer mit Innenkühlung 5xD

Solid carbide high performance drill with internal coolant hole

845...

Werkzeugdaten / Tool data: TYP N-W, 2, TYP DIN, IK, HA, HB, TIALN

Werkzeugempfehlung / Tool Recommendation: HPC, Universal

Einsatz / Capabilities: z, 5xD

D1 m7	D2 h6	L2	L1	Artikel-Nr./ Article-No.	HA	HB
7,80	8,00	53	91	845.078...	.00	.10
7,90	8,00	53	91	845.079...	.00	.10
8,00	8,00	53	91	845.080...	.00	.10
8,10	10,00	61	103	845.081...	.00	.10
8,20	10,00	61	103	845.082...	.00	.10
8,30	10,00	61	103	845.083...	.00	.10
8,40	10,00	61	103	845.084...	.00	.10
8,50	10,00	61	103	845.085...	.00	.10
8,60	10,00	61	103	845.086...	.00	.10
8,70	10,00	61	103	845.087...	.00	.10
8,80	10,00	61	103	845.088...	.00	.10
8,90	10,00	61	103	845.089...	.00	.10
9,00	10,00	61	103	845.090...	.00	.10
9,10	10,00	61	103	845.091...	.00	.10
9,20	10,00	61	103	845.092...	.00	.10
9,30	10,00	61	103	845.093...	.00	.10
9,40	10,00	61	103	845.094...	.00	.10
9,50	10,00	61	103	845.095...	.00	.10
9,60	10,00	61	103	845.096...	.00	.10
9,70	10,00	61	103	845.097...	.00	.10
9,80	10,00	61	103	845.098...	.00	.10
9,90	10,00	61	103	845.099...	.00	.10
10,00	10,00	61	103	845.100...	.00	.10
10,10	12,00	71	118	845.101...	.00	.10
10,20	12,00	71	118	845.102...	.00	.10
10,30	12,00	71	118	845.103...	.00	.10
10,40	12,00	71	118	845.104...	.00	.10
10,50	12,00	71	118	845.105...	.00	.10
10,60	12,00	71	118	845.106...	.00	.10
10,70	12,00	71	118	845.107...	.00	.10
10,80	12,00	71	118	845.108...	.00	.10
10,90	12,00	71	118	845.109...	.00	.10
11,00	12,00	71	118	845.110...	.00	.10
11,10	12,00	71	118	845.111...	.00	.10
11,20	12,00	71	118	845.112...	.00	.10
11,30	12,00	71	118	845.113...	.00	.10
11,40	12,00	71	118	845.114...	.00	.10
11,50	12,00	71	118	845.115...	.00	.10
11,60	12,00	71	118	845.116...	.00	.10
11,70	12,00	71	118	845.117...	.00	.10
11,80	12,00	71	118	845.118...	.00	.10
11,90	12,00	71	118	845.119...	.00	.10
12,00	12,00	71	118	845.120...	.00	.10
12,20	14,00	77	124	845.122...	.00	.10
12,30	14,00	77	124	845.123...	.00	.10
12,50	14,00	77	124	845.125...	.00	.10
12,80	14,00	77	124	845.128...	.00	.10
13,00	14,00	77	124	845.130...	.00	.10
13,50	14,00	77	124	845.135...	.00	.10
13,80	14,00	77	124	845.138...	.00	.10
14,00	14,00	77	124	845.140...	.00	.10
14,50	16,00	83	133	845.145...	.00	.10
14,80	16,00	83	133	845.148...	.00	.10
15,00	16,00	83	133	845.150...	.00	.10
15,10	16,00	83	133	845.151...	.00	.10
15,50	16,00	83	133	845.155...	.00	.10

HP VHM - Hochleistungsspiralbohrer mit Innenkühlung 5xD

Solid carbide high performance drill with internal coolant hole

845...

Werkzeugdaten / Tool data				Werkzeugempfehlung / Tool Recommendation	Einsatz / Capabilities
TYP N-W, 2, 120°/135°, IK, HA, HB, TIALN				HPC, Universal	z, 5xD

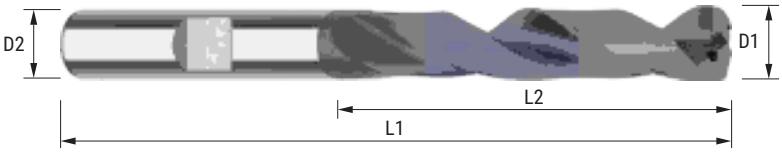
D1 m7	D2 h6	L2	L1	Artikel-Nr./ Article-No.	HA	HB
15,80	16,00	83	133	845.158...	.00	.10
16,00	16,00	83	133	845.160...	.00	.10
16,50	18,00	93	143	845.165...	.00	.10
16,80	18,00	93	143	845.168...	.00	.10
17,00	18,00	93	143	845.170...	.00	.10
17,50	18,00	93	143	845.175...	.00	.10
17,80	18,00	93	143	845.178...	.00	.10
18,00	18,00	93	143	845.180...	.00	.10
18,50	20,00	101	153	845.185...	.00	.10
19,00	20,00	101	153	845.190...	.00	.10
19,50	20,00	101	153	845.195...	.00	.10
20,00	20,00	101	153	845.200...	.00	.10

HP VHM - Spiralbohrer mit Innenkühlung 5xD

Solid carbide drill with internal coolant hole

1st CHOICE

705...



Werkzeugdaten / Tool data				Werkzeugempfehlung / Tool Recommendation	Einsatz / Capabilities
TYP N, 2, 140°, IK, HA, HB, TIALN				Universal	z, 5xD

D1 m7	D2 h6	L2	L1	Artikel-Nr./ Article-No.	HA	HB
1,00	3,00	10	55	705.010...	.00	-
1,10	3,00	12	55	705.011...	.00	-
1,20	3,00	12	55	705.012...	.00	-
1,30	3,00	12	55	705.013...	.00	-
1,40	3,00	12	55	705.014...	.00	-
1,50	3,00	12	55	705.015...	.00	-
1,60	3,00	16	55	705.016...	.00	-
1,70	3,00	16	55	705.017...	.00	-
1,80	3,00	16	55	705.018...	.00	-
1,90	3,00	16	55	705.019...	.00	-
2,00	3,00	21	57	705.020...	.00	-
2,02	3,00	16	57	705.202...	.00	-
2,10	3,00	21	57	705.021...	.00	-
2,20	3,00	21	57	705.022...	.00	-
2,22	3,00	21	57	705.222...	.00	-
2,30	3,00	21	57	705.023...	.00	-

HP VHM - Spiralbohrer mit Innenkühlung 5xD

Solid carbide drill with internal coolant hole

1st CHOICE

705...

Werkzeugdaten / Tool data: TYP N, 2, 140°, IK, HA, HB, TIALN

Werkzeugempfehlung / Tool Recommendation: Universal

Einsatz / Capabilities: z, 5xD

D1 m7	D2 h6	L2	L1	Artikel-Nr./ Article-No.	HA	HB
2,32	3,00	21	57	705.232...	.00	-
2,40	3,00	21	57	705.024...	.00	-
2,42	3,00	21	57	705.242...	.00	-
2,50	3,00	21	57	705.025...	.00	-
2,52	3,00	21	57	705.252...	.00	-
2,60	3,00	21	57	705.026...	.00	-
2,70	3,00	21	57	705.027...	.00	-
2,72	3,00	21	57	705.272...	.00	-
2,75	3,00	21	57	705.275...	.00	-
2,80	3,00	21	57	705.028...	.00	-
2,82	3,00	21	57	705.282...	.00	-
2,90	3,00	21	57	705.029...	.00	-
3,00	6,00	28	66	705.030...	.00	.10
3,02	6,00	28	66	705.302...	.00	.10
3,10	6,00	28	66	705.031...	.00	.10
3,20	6,00	28	66	705.032...	.00	.10
3,22	6,00	28	66	705.322...	.00	.10
3,25	6,00	28	66	705.325...	.00	.10
3,30	6,00	28	66	705.033...	.00	.10
3,32	6,00	28	66	705.332...	.00	.10
3,40	6,00	28	66	705.034...	.00	.10
3,50	6,00	28	66	705.035...	.00	.10
3,52	6,00	28	66	705.352...	.00	.10
3,60	6,00	28	66	705.036...	.00	.10
3,65	6,00	28	66	705.365...	.00	.10
3,70	6,00	28	66	705.037...	.00	.10
3,80	6,00	36	74	705.038...	.00	.10
3,82	6,00	36	74	705.382...	.00	.10
3,90	6,00	36	74	705.039...	.00	.10
4,00	6,00	36	74	705.040...	.00	.10
4,02	6,00	36	74	705.402...	.00	.10
4,10	6,00	36	74	705.041...	.00	.10
4,20	6,00	36	74	705.042...	.00	.10
4,22	6,00	36	74	705.422...	.00	.10
4,30	6,00	36	74	705.043...	.00	.10
4,40	6,00	36	74	705.044...	.00	.10
4,50	6,00	36	74	705.045...	.00	.10
4,52	6,00	36	74	705.452...	.00	.10
4,60	6,00	36	74	705.046...	.00	.10
4,65	6,00	36	74	705.465...	.00	.10
4,70	6,00	36	74	705.047...	.00	.10
4,80	6,00	44	82	705.048...	.00	.10
4,82	6,00	44	82	705.482...	.00	.10
4,90	6,00	44	82	705.049...	.00	.10
5,00	6,00	44	82	705.050...	.00	.10
5,02	6,00	44	82	705.502...	.00	.10
5,10	6,00	44	82	705.051...	.00	.10
5,20	6,00	44	82	705.052...	.00	.10
5,30	6,00	44	82	705.053...	.00	.10
5,40	6,00	44	82	705.054...	.00	.10
5,50	6,00	44	82	705.055...	.00	.10
5,52	6,00	44	82	705.552...	.00	.10
5,55	6,00	44	82	705.555...	.00	.10
5,60	6,00	44	82	705.056...	.00	.10
5,65	6,00	44	82	705.565...	.00	.10
5,70	6,00	44	82	705.057...	.00	.10

UNI

HP

VHM - Spiralbohrer mit Innenkühlung 5xD

Solid carbide drill with internal coolant hole

1st CHOICE

705...

Werkzeugdaten / Tool data				Werkzeugempfehlung / Tool Recommendation	Einsatz / Capabilities
TYP N, 2, 140°, IK, HA, HB, TIALN				Universal	z, 5xD

D1 m7	D2 h6	L2	L1	Artikel-Nr./ Article-No.	HA	HB
5,80	6,00	44	82	705.058...	.00	.10
5,82	6,00	44	82	705.582...	.00	.10
5,90	6,00	44	82	705.059...	.00	.10
6,00	6,00	44	82	705.060...	.00	.10
6,02	6,00	44	82	705.602...	.00	.10
6,10	8,00	53	91	705.061...	.00	.10
6,20	8,00	53	92	705.062...	.00	.10
6,30	8,00	53	91	705.063...	.00	.10
6,40	8,00	53	91	705.064...	.00	.10
6,50	8,00	53	91	705.065...	.00	.10
6,52	8,00	53	91	705.652...	.00	.10
6,60	8,00	53	91	705.066...	.00	.10
6,70	8,00	53	91	705.067...	.00	.10
6,80	8,00	53	91	705.068...	.00	.10
6,82	8,00	53	91	705.682...	.00	.10
6,90	8,00	53	91	705.069...	.00	.10
7,00	8,00	53	91	705.070...	.00	.10
7,02	8,00	53	91	705.702...	.00	.10
7,10	8,00	53	91	705.071...	.00	.10
7,20	8,00	53	91	705.072...	.00	.10
7,30	8,00	53	91	705.073...	.00	.10
7,40	8,00	53	91	705.074...	.00	.10
7,50	8,00	53	91	705.075...	.00	.10
7,52	8,00	53	91	705.752...	.00	.10
7,60	8,00	53	91	705.076...	.00	.10
7,65	8,00	53	91	705.765...	.00	.10
7,70	8,00	53	91	705.077...	.00	.10
7,80	8,00	53	91	705.078...	.00	.10
7,82	8,00	53	91	705.782...	.00	.10
7,90	8,00	53	91	705.079...	.00	.10
8,00	8,00	53	91	705.080...	.00	.10
8,02	8,00	53	91	705.802...	.00	.10
8,10	10,00	61	103	705.081...	.00	.10
8,20	10,00	61	103	705.082...	.00	.10
8,30	10,00	61	103	705.083...	.00	.10
8,40	10,00	61	103	705.084...	.00	.10
8,50	10,00	61	103	705.085...	.00	.10
8,52	10,00	61	103	705.852...	.00	.10
8,60	10,00	61	103	705.086...	.00	.10
8,70	10,00	61	103	705.087...	.00	.10
8,80	10,00	61	103	705.088...	.00	.10
8,82	10,00	61	103	705.882...	.00	.10
8,90	10,00	61	103	705.089...	.00	.10
9,00	10,00	61	103	705.090...	.00	.10
9,02	10,00	61	103	705.902...	.00	.10
9,10	10,00	61	103	705.091...	.00	.10
9,20	10,00	61	103	705.092...	.00	.10
9,30	10,00	61	103	705.093...	.00	.10
9,40	10,00	61	103	705.094...	.00	.10
9,50	10,00	61	103	705.095...	.00	.10
9,55	10,00	61	103	705.955...	.00	.10
9,60	10,00	61	103	705.096...	.00	.10
9,70	10,00	61	103	705.097...	.00	.10
9,80	10,00	61	103	705.098...	.00	.10
9,82	10,00	61	103	705.982...	.00	.10
9,90	10,00	61	103	705.099...	.00	.10

HP VHM - Spiralbohrer mit Innenkühlung 5xD

Solid carbide drill with internal coolant hole

1st CHOICE

705...

Werkzeugdaten / Tool data: TYP N, 2, 140°, IK, HA, HB, TIALN

Werkzeugempfehlung / Tool Recommendation: Universal

Einsatz / Capabilities: z, 5xD

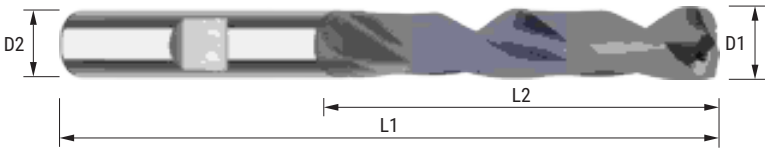
D1 m7	D2 h6	L2	L1	Artikel-Nr./ Article-No.	HA	HB
10,00	10,00	61	103	705.100...	.00	.10
10,02	10,00	61	103	705.983...	.00	.10
10,10	12,00	71	118	705.101...	.00	.10
10,20	12,00	71	118	705.102...	.00	.10
10,22	12,00	71	118	705.984...	.00	.10
10,30	12,00	71	118	705.103...	.00	.10
10,40	12,00	71	118	705.104...	.00	.10
10,50	12,00	71	118	705.105...	.00	.10
10,60	12,00	71	118	705.106...	.00	.10
10,70	12,00	71	118	705.107...	.00	.10
10,80	12,00	71	118	705.108...	.00	.10
10,82	12,00	71	118	705.985...	.00	.10
10,90	12,00	71	118	705.109...	.00	.10
11,00	12,00	71	118	705.110...	.00	.10
11,10	12,00	71	118	705.111...	.00	.10
11,20	12,00	71	118	705.112...	.00	.10
11,30	12,00	71	118	705.113...	.00	.10
11,40	12,00	71	118	705.114...	.00	.10
11,50	12,00	71	118	705.115...	.00	.10
11,55	12,00	71	118	705.1155...	.00	.10
11,60	12,00	71	118	705.116...	.00	.10
11,70	12,00	71	118	705.117...	.00	.10
11,80	12,00	71	118	705.118...	.00	.10
11,82	12,00	71	118	705.986...	.00	.10
11,90	12,00	71	118	705.119...	.00	.10
12,00	12,00	71	118	705.120...	.00	.10
12,02	12,00	71	118	705.987...	.00	.10
12,20	14,00	77	124	705.122...	.00	.10
12,30	14,00	77	124	705.123...	.00	.10
12,50	14,00	77	124	705.125...	.00	.10
12,80	14,00	77	124	705.128...	.00	.10
13,00	14,00	77	124	705.130...	.00	.10
13,20	14,00	77	124	705.132...	.00	.10
13,50	14,00	77	124	705.135...	.00	.10
13,70	14,00	77	124	705.137...	.00	.10
13,80	14,00	77	124	705.138...	.00	.10
14,00	14,00	77	124	705.140...	.00	.10
14,20	16,00	83	133	705.142...	.00	.10
14,50	16,00	83	133	705.145...	.00	.10
14,80	16,00	83	133	705.148...	.00	.10
15,00	16,00	83	133	705.150...	.00	.10
15,10	16,00	83	133	705.151...	.00	.10
15,20	16,00	83	133	705.152...	.00	.10
15,50	16,00	83	133	705.155...	.00	.10
15,80	16,00	83	133	705.158...	.00	.10
16,00	16,00	83	133	705.160...	.00	.10
16,50	18,00	93	143	705.165...	.00	.10
16,80	18,00	93	143	705.168...	.00	.10
17,00	18,00	93	143	705.170...	.00	.10
17,50	18,00	93	143	705.175...	.00	.10
17,80	18,00	93	143	705.178...	.00	.10
18,00	18,00	93	143	705.180...	.00	.10
18,50	20,00	101	153	705.185...	.00	.10
19,00	20,00	101	153	705.190...	.00	.10
19,50	20,00	101	153	705.195...	.00	.10
20,00	20,00	101	153	705.200...	.00	.10

GP

VHM - Spiralbohrer mit Innenkühlung 5xD

Solid carbide drill with internal coolant hole

614...



Werkzeugdaten / Tool data	Werkzeugempfehlung / Tool Recommendation	Einsatz / Capabilities
TYP N, 2, 140°, IK, HA, HB, Norm, TIALN	Universal	z, 5xD

D1 m7	D2	L2	L1	Artikel-Nr./ Article-No.	HA	HB
1,00	3,00	10	55	614.010...	.00	-
1,10	3,00	12	55	614.011...	.00	-
1,20	3,00	12	55	614.012...	.00	-
1,30	3,00	12	55	614.013...	.00	-
1,40	3,00	12	55	614.014...	.00	-
1,50	3,00	12	55	614.015...	.00	-
1,60	3,00	16	55	614.016...	.00	-
1,70	3,00	16	55	614.017...	.00	-
1,80	3,00	16	55	614.018...	.00	-
1,90	3,00	16	55	614.019...	.00	-
2,00	3,00	16	57	614.020...	.00	-
2,10	3,00	21	57	614.021...	.00	-
2,20	3,00	21	57	614.022...	.00	-
2,30	3,00	21	57	614.023...	.00	-
2,40	3,00	21	57	614.024...	.00	-
2,50	3,00	21	57	614.025...	.00	-
2,60	3,00	21	57	614.026...	.00	-
2,70	3,00	21	57	614.027...	.00	-
2,80	3,00	21	57	614.028...	.00	-
2,90	3,00	21	57	614.029...	.00	-
3,00	6,00	28	66	614.030...	.00	.10
3,10	6,00	28	66	614.031...	.00	.10
3,20	6,00	28	66	614.032...	.00	.10
3,30	6,00	28	66	614.033...	.00	.10
3,40	6,00	28	66	614.034...	.00	.10
3,50	6,00	28	66	614.035...	.00	.10
3,60	6,00	28	66	614.036...	.00	.10
3,65	6,00	28	66	614.365...	.00	.10
3,70	6,00	28	66	614.037...	.00	.10
3,80	6,00	36	74	614.038...	.00	.10
3,90	6,00	36	74	614.039...	.00	.10
4,00	6,00	36	74	614.040...	.00	.10
4,10	6,00	36	74	614.041...	.00	.10
4,20	6,00	36	74	614.042...	.00	.10
4,30	6,00	36	74	614.043...	.00	.10
4,40	6,00	36	74	614.044...	.00	.10
4,50	6,00	36	74	614.045...	.00	.10
4,60	6,00	36	74	614.046...	.00	.10
4,65	6,00	36	74	614.465...	.00	.10
4,70	6,00	36	74	614.047...	.00	.10
4,80	6,00	44	82	614.048...	.00	.10
4,90	6,00	44	82	614.049...	.00	.10
5,00	6,00	44	82	614.050...	.00	.10
5,10	6,00	44	82	614.051...	.00	.10
5,20	6,00	44	82	614.052...	.00	.10
5,30	6,00	44	82	614.053...	.00	.10
5,40	6,00	44	82	614.054...	.00	.10
5,50	6,00	44	82	614.055...	.00	.10
5,55	6,00	44	82	614.555...	.00	.10
5,60	6,00	44	82	614.056...	.00	.10

GP

VHM - Spiralbohrer mit Innenkühlung 5xD

Solid carbide drill with internal coolant hole

614...

Werkzeugdaten / Tool data: TYP N, 2, 140°, IK, HA, HB, Norm, TIALN

Werkzeugempfehlung / Tool Recommendation: Universal

Einsatz / Capabilities: z, 5xD

D1 m7	D2	L2	L1	Artikel-Nr./ Article-No.	HA	HB
5,70	6,00	44	82	614.057...	.00	.10
5,80	6,00	44	82	614.058...	.00	.10
5,90	6,00	44	82	614.059...	.00	.10
6,00	6,00	44	82	614.060...	.00	.10
6,10	8,00	53	91	614.061...	.00	.10
6,20	8,00	53	91	614.062...	.00	.10
6,30	8,00	53	91	614.063...	.00	.10
6,40	8,00	53	91	614.064...	.00	.10
6,50	8,00	53	91	614.065...	.00	.10
6,60	8,00	53	91	614.066...	.00	.10
6,70	8,00	53	91	614.067...	.00	.10
6,80	8,00	53	91	614.068...	.00	.10
6,90	8,00	53	91	614.069...	.00	.10
7,00	8,00	53	91	614.070...	.00	.10
7,10	8,00	53	91	614.071...	.00	.10
7,20	8,00	53	91	614.072...	.00	.10
7,30	8,00	53	91	614.073...	.00	.10
7,40	8,00	53	91	614.074...	.00	.10
7,50	8,00	53	91	614.075...	.00	.10
7,60	8,00	53	91	614.076...	.00	.10
7,70	8,00	53	91	614.077...	.00	.10
7,80	8,00	53	91	614.078...	.00	.10
7,90	8,00	53	91	614.079...	.00	.10
8,00	8,00	53	91	614.080...	.00	.10
8,10	10,00	61	103	614.081...	.00	.10
8,20	10,00	61	103	614.082...	.00	.10
8,30	10,00	61	103	614.083...	.00	.10
8,40	10,00	61	103	614.084...	.00	.10
8,50	10,00	61	103	614.085...	.00	.10
8,60	10,00	61	103	614.086...	.00	.10
8,70	10,00	61	103	614.087...	.00	.10
8,80	10,00	61	103	614.088...	.00	.10
8,90	10,00	61	103	614.089...	.00	.10
9,00	10,00	61	103	614.090...	.00	.10
9,10	10,00	61	103	614.091...	.00	.10
9,20	10,00	61	103	614.092...	.00	.10
9,30	10,00	61	103	614.093...	.00	.10
9,40	10,00	61	103	614.094...	.00	.10
9,50	10,00	61	103	614.095...	.00	.10
9,55	10,00	61	103	614.955...	.00	.10
9,60	10,00	61	103	614.096...	.00	.10
9,70	10,00	61	103	614.097...	.00	.10
9,80	10,00	61	103	614.098...	.00	.10
9,90	10,00	61	103	614.099...	.00	.10
10,00	10,00	61	103	614.100...	.00	.10
10,10	12,00	71	118	614.101...	.00	.10
10,20	12,00	71	118	614.102...	.00	.10
10,30	12,00	71	118	614.103...	.00	.10
10,40	12,00	71	118	614.104...	.00	.10
10,50	12,00	71	118	614.105...	.00	.10
10,60	12,00	71	118	614.106...	.00	.10
10,70	12,00	71	118	614.107...	.00	.10
10,80	12,00	71	118	614.108...	.00	.10
10,90	12,00	71	118	614.109...	.00	.10
11,00	12,00	71	118	614.110...	.00	.10
11,10	12,00	71	118	614.111...	.00	.10

GP

VHM - Spiralbohrer mit Innenkühlung 5xD

Solid carbide drill with internal coolant hole

614...

Werkzeugdaten / Tool data	Werkzeugempfehlung / Tool Recommendation	Einsatz / Capabilities
TYP N, 2, 140°, IK, HA, HB, Norm, TIALN	Universal	z, 5xD

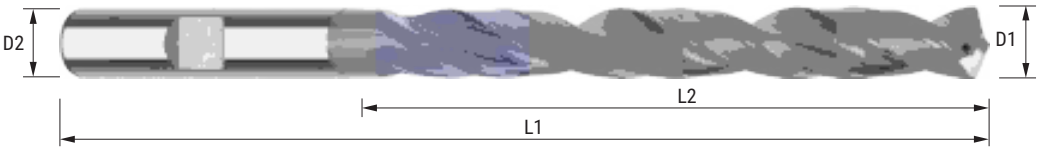
D1 m7	D2	L2	L1	Artikel-Nr./ Article-No.	HA	HB
11,20	12,00	71	118	614.112...	.00	.10
11,30	12,00	71	118	614.113...	.00	.10
11,40	12,00	71	118	614.114...	.00	.10
11,50	12,00	71	118	614.115...	.00	.10
11,55	12,00	71	118	614.1155...	.00	.10
11,60	12,00	71	118	614.116...	.00	.10
11,70	12,00	71	118	614.117...	.00	.10
11,80	12,00	71	118	614.118...	.00	.10
11,90	12,00	71	118	614.119...	.00	.10
12,00	12,00	71	118	614.120...	.00	.10
12,20	14,00	77	124	614.122...	.00	.10
12,30	14,00	77	124	614.123...	.00	.10
12,50	14,00	77	124	614.125...	.00	.10
12,80	14,00	77	124	614.128...	.00	.10
13,00	14,00	77	124	614.130...	.00	.10
13,50	14,00	77	124	614.135...	.00	.10
13,80	14,00	77	124	614.138...	.00	.10
14,00	14,00	77	124	614.140...	.00	.10
14,20	16,00	83	133	614.142...	.00	.10
14,50	16,00	83	133	614.145...	.00	.10
14,80	16,00	83	133	614.148...	.00	.10
15,00	16,00	83	133	614.150...	.00	.10
15,10	16,00	83	133	614.151...	.00	.10
15,20	16,00	83	133	614.152...	.00	.10
15,50	16,00	83	133	614.155...	.00	.10
15,80	16,00	83	133	614.158...	.00	.10
16,00	16,00	83	133	614.160...	.00	.10
16,50	18,00	93	143	614.165...	.00	.10
16,80	18,00	93	143	614.168...	.00	.10
17,00	18,00	93	143	614.170...	.00	.10
17,30	18,00	93	143	614.173...	.00	.10
17,40	18,00	93	143	614.177...	.00	.10
17,50	18,00	93	143	614.175...	.00	.10
17,80	18,00	93	143	614.178...	.00	.10
18,00	18,00	93	143	614.180...	.00	.10
18,50	20,00	101	153	614.185...	.00	.10
19,00	20,00	101	153	614.190...	.00	.10
19,30	20,00	101	153	614.193...	.00	.10
19,50	20,00	101	153	614.195...	.00	.10
20,00	20,00	101	153	614.200...	.00	.10

UNI

HP VHM - Hochleistungsspiralbohrer mit Innenkühlung 8xD

Solid carbide high performance drill with internal coolant hole

848...



Werkzeugdaten / Tool data	Werkzeugempfehlung / Tool Recommendation	Einsatz / Capabilities
TYP N-W, IK, HA, HB, TIALN	HPC, Universal	z, 8xD

D1 m7	D2 h6	L2	L1	Artikel-Nr./ Article-No.	HA	HB
3,00	6,00	31	71	848.030...	.00	.10
3,10	6,00	31	71	848.031...	.00	.10
3,20	6,00	31	71	848.032...	.00	.10
3,30	6,00	31	71	848.033...	.00	.10
3,40	6,00	31	71	848.034...	.00	.10
3,50	6,00	31	71	848.035...	.00	.10
3,60	6,00	31	71	848.036...	.00	.10
3,70	6,00	31	71	848.037...	.00	.10
3,80	6,00	43	86	848.038...	.00	.10
3,90	6,00	43	86	848.039...	.00	.10
4,00	6,00	43	86	848.040...	.00	.10
4,10	6,00	43	86	848.041...	.00	.10
4,20	6,00	43	86	848.042...	.00	.10
4,30	6,00	43	86	848.043...	.00	.10
4,40	6,00	43	86	848.044...	.00	.10
4,50	6,00	43	86	848.045...	.00	.10
4,60	6,00	43	86	848.046...	.00	.10
4,70	6,00	57	95	848.047...	.00	.10
4,80	6,00	57	95	848.048...	.00	.10
4,90	6,00	57	95	848.049...	.00	.10
5,00	6,00	57	95	848.050...	.00	.10
5,10	6,00	57	95	848.051...	.00	.10
5,20	6,00	57	95	848.052...	.00	.10
5,30	6,00	57	95	848.053...	.00	.10
5,40	6,00	57	95	848.054...	.00	.10
5,50	6,00	57	95	848.055...	.00	.10
5,60	6,00	57	95	848.056...	.00	.10
5,70	6,00	57	95	848.057...	.00	.10
5,80	6,00	57	95	848.058...	.00	.10
5,90	6,00	57	95	848.059...	.00	.10
6,00	6,00	57	95	848.060...	.00	.10
6,10	8,00	76	114	848.061...	.00	.10
6,20	8,00	76	114	848.062...	.00	.10
6,30	8,00	76	114	848.063...	.00	.10
6,40	8,00	76	114	848.064...	.00	.10
6,50	8,00	76	114	848.065...	.00	.10
6,60	8,00	76	114	848.066...	.00	.10
6,70	8,00	76	114	848.067...	.00	.10
6,80	8,00	76	114	848.068...	.00	.10
6,90	8,00	76	114	848.069...	.00	.10
7,00	8,00	76	114	848.070...	.00	.10
7,10	8,00	76	114	848.071...	.00	.10
7,20	8,00	76	114	848.072...	.00	.10
7,30	8,00	76	114	848.073...	.00	.10
7,40	8,00	76	114	848.074...	.00	.10
7,50	8,00	76	114	848.075...	.00	.10
7,60	8,00	76	114	848.076...	.00	.10
7,70	8,00	76	114	848.077...	.00	.10
7,80	8,00	76	114	848.078...	.00	.10
7,90	8,00	76	114	848.079...	.00	.10

HP VHM - Hochleistungsspiralbohrer mit Innenkühlung 8xD

Solid carbide high performance drill with internal coolant hole

848...

Werkzeugdaten / Tool data	Werkzeugempfehlung / Tool Recommendation	Einsatz / Capabilities
TYP N-W, 2, 120° 135°, IK, HA, HB, TIALN	HPC, Universal	z, 8xD

D1 m7	D2 h6	L2	L1	Artikel-Nr./ Article-No.	HA	HB
8,00	8,00	76	114	848.080...	.00	.10
8,10	10,00	95	142	848.081...	.00	.10
8,20	10,00	95	142	848.082...	.00	.10
8,30	10,00	95	142	848.083...	.00	.10
8,40	10,00	95	142	848.084...	.00	.10
8,50	10,00	95	142	848.085...	.00	.10
8,60	10,00	95	142	848.086...	.00	.10
8,70	10,00	95	142	848.087...	.00	.10
8,80	10,00	95	142	848.088...	.00	.10
8,90	10,00	95	142	848.089...	.00	.10
9,00	10,00	95	142	848.090...	.00	.10
9,10	10,00	95	142	848.091...	.00	.10
9,20	10,00	95	142	848.092...	.00	.10
9,30	10,00	95	142	848.093...	.00	.10
9,40	10,00	95	142	848.094...	.00	.10
9,50	10,00	95	142	848.095...	.00	.10
9,60	10,00	95	142	848.096...	.00	.10
9,70	10,00	95	142	848.097...	.00	.10
9,80	10,00	95	142	848.098...	.00	.10
9,90	10,00	95	142	848.099...	.00	.10
10,00	10,00	95	142	848.100...	.00	.10
10,10	12,00	114	162	848.101...	.00	.10
10,20	12,00	114	162	848.102...	.00	.10
10,30	12,00	114	162	848.103...	.00	.10
10,40	12,00	114	162	848.104...	.00	.10
10,50	12,00	114	162	848.105...	.00	.10
10,60	12,00	114	162	848.106...	.00	.10
10,70	12,00	114	162	848.107...	.00	.10
10,80	12,00	114	162	848.108...	.00	.10
10,90	12,00	114	162	848.109...	.00	.10
11,00	12,00	114	162	848.110...	.00	.10
11,10	12,00	114	162	848.111...	.00	.10
11,20	12,00	114	162	848.112...	.00	.10
11,30	12,00	114	162	848.113...	.00	.10
11,40	12,00	114	162	848.114...	.00	.10
11,50	12,00	114	162	848.115...	.00	.10
11,60	12,00	114	162	848.116...	.00	.10
11,70	12,00	114	162	848.117...	.00	.10
11,80	12,00	114	162	848.118...	.00	.10
11,90	12,00	114	162	848.119...	.00	.10
12,00	12,00	114	162	848.120...	.00	.10
12,50	14,00	133	178	848.125...	.00	.10
12,80	14,00	133	178	848.128...	.00	.10
13,00	14,00	133	178	848.130...	.00	.10
13,50	14,00	133	178	848.135...	.00	.10
14,00	14,00	133	178	848.140...	.00	.10
14,50	16,00	152	203	848.145...	.00	.10
15,00	16,00	152	203	848.150...	.00	.10
15,50	16,00	152	203	848.155...	.00	.10
16,00	16,00	152	203	848.160...	.00	.10
16,50	18,00	171	222	848.165...	.00	.10
17,00	18,00	171	222	848.170...	.00	.10
17,50	18,00	171	222	848.175...	.00	.10
18,00	18,00	171	222	848.180...	.00	.10
18,50	20,00	190	243	848.185...	.00	.10
19,00	20,00	190	243	848.190...	.00	.10
20,00	20,00	190	243	848.200...	.00	.10

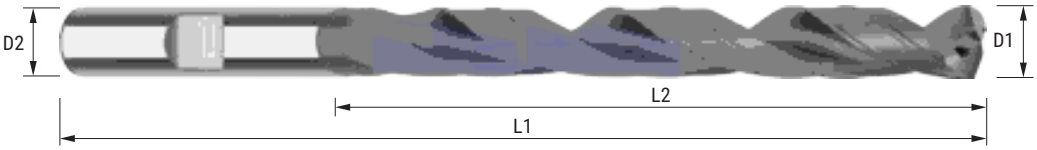
UNI

HP VHM - Spiralbohrer mit Innenkühlung 8xD

Solid carbide drill with internal coolant hole

1st CHOICE

708...



Werkzeugdaten / Tool data	Werkzeugempfehlung / Tool Recommendation	Einsatz / Capabilities
TYP N, 2, 140°, 4, IK, HA, HB, TIALN	Universal	8xD

D1 h7	D2 h6	L2	L1	Artikel-Nr./ Article-No.	HA	HB
1,00	3,00	11	55	708.010...	.00	-
1,10	3,00	17	55	708.011...	.00	-
1,20	3,00	17	55	708.012...	.00	-
1,30	3,00	17	55	708.013...	.00	-
1,40	3,00	17	55	708.014...	.00	-
1,50	3,00	22	65	708.015...	.00	-
1,60	3,00	22	65	708.016...	.00	-
1,70	3,00	22	65	708.017...	.00	-
1,80	3,00	22	65	708.018...	.00	-
1,90	3,00	22	65	708.019...	.00	-
2,00	3,00	28	74	708.020...	.00	-
2,10	3,00	28	74	708.021...	.00	-
2,20	3,00	28	74	708.022...	.00	-
2,30	3,00	28	74	708.023...	.00	-
2,40	3,00	28	74	708.024...	.00	-
2,50	3,00	32	81	708.025...	.00	-
2,60	3,00	32	81	708.026...	.00	-
2,70	3,00	32	81	708.027...	.00	-
2,80	3,00	32	81	708.028...	.00	-
2,90	3,00	32	81	708.029...	.00	-
3,00	6,00	34	72	708.030...	.00	.10
3,10	6,00	34	72	708.031...	.00	.10
3,20	6,00	34	72	708.032...	.00	.10
3,30	6,00	34	72	708.033...	.00	.10
3,40	6,00	34	72	708.034...	.00	.10
3,50	6,00	34	72	708.035...	.00	.10
3,60	6,00	34	72	708.036...	.00	.10
3,70	6,00	34	72	708.037...	.00	.10
3,80	6,00	43	86	708.038...	.00	.10
3,90	6,00	43	86	708.039...	.00	.10
4,00	6,00	43	86	708.040...	.00	.10
4,10	6,00	43	86	708.041...	.00	.10
4,20	6,00	43	86	708.042...	.00	.10
4,30	6,00	43	86	708.043...	.00	.10
4,40	6,00	43	86	708.044...	.00	.10
4,50	6,00	43	86	708.045...	.00	.10
4,60	6,00	43	86	708.046...	.00	.10
4,70	6,00	57	95	708.047...	.00	.10
4,80	6,00	57	95	708.048...	.00	.10
4,90	6,00	57	95	708.049...	.00	.10
5,00	6,00	57	95	708.050...	.00	.10
5,10	6,00	57	95	708.051...	.00	.10
5,20	6,00	57	95	708.052...	.00	.10
5,30	6,00	57	95	708.053...	.00	.10
5,40	6,00	57	95	708.054...	.00	.10
5,50	6,00	57	95	708.055...	.00	.10
5,60	6,00	57	95	708.056...	.00	.10
5,70	6,00	57	95	708.057...	.00	.10
5,80	6,00	57	95	708.058...	.00	.10
5,90	6,00	57	95	708.059...	.00	.10
6,00	6,00	57	95	708.060...	.00	.10

HP VHM - Spiralbohrer mit Innenkühlung 8xD

Solid carbide drill with internal coolant hole

1st CHOICE

708...

Werkzeugdaten / Tool data	Werkzeugempfehlung / Tool Recommendation	Einsatz / Capabilities
TYP N, 2, 140°, 4, IK, HA, HB, TIALN	Universal	8xD

D1 h7	D2 h6	L2	L1	Artikel-Nr./ Article-No.	HA	HB
6,10	8,00	76	114	708.061...	.00	.10
6,20	8,00	76	114	708.062...	.00	.10
6,30	8,00	76	114	708.063...	.00	.10
6,40	8,00	76	114	708.064...	.00	.10
6,50	8,00	76	114	708.065...	.00	.10
6,60	8,00	76	114	708.066...	.00	.10
6,70	8,00	76	114	708.067...	.00	.10
6,80	8,00	76	114	708.068...	.00	.10
6,90	8,00	76	114	708.069...	.00	.10
7,00	8,00	76	114	708.070...	.00	.10
7,10	8,00	76	114	708.071...	.00	.10
7,20	8,00	76	114	708.072...	.00	.10
7,30	8,00	76	114	708.073...	.00	.10
7,40	8,00	76	114	708.074...	.00	.10
7,50	8,00	76	114	708.075...	.00	.10
7,60	8,00	76	114	708.076...	.00	.10
7,70	8,00	76	114	708.077...	.00	.10
7,80	8,00	76	114	708.078...	.00	.10
7,90	8,00	76	114	708.079...	.00	.10
8,00	8,00	76	114	708.080...	.00	.10
8,10	10,00	95	142	708.081...	.00	.10
8,20	10,00	95	142	708.082...	.00	.10
8,30	10,00	95	142	708.083...	.00	.10
8,40	10,00	95	142	708.084...	.00	.10
8,50	10,00	95	142	708.085...	.00	.10
8,60	10,00	95	142	708.086...	.00	.10
8,70	10,00	95	142	708.087...	.00	.10
8,80	10,00	95	142	708.088...	.00	.10
8,90	10,00	95	142	708.089...	.00	.10
9,00	10,00	95	142	708.090...	.00	.10
9,10	10,00	95	142	708.091...	.00	.10
9,20	10,00	95	142	708.092...	.00	.10
9,30	10,00	95	142	708.093...	.00	.10
9,40	10,00	95	142	708.094...	.00	.10
9,50	10,00	95	142	708.095...	.00	.10
9,60	10,00	95	142	708.096...	.00	.10
9,70	10,00	95	142	708.097...	.00	.10
9,80	10,00	95	142	708.098...	.00	.10
9,90	10,00	95	142	708.099...	.00	.10
10,00	10,00	95	142	708.100...	.00	.10
10,10	12,00	114	162	708.101...	.00	.10
10,20	12,00	114	162	708.102...	.00	.10
10,30	12,00	114	162	708.103...	.00	.10
10,40	12,00	114	162	708.104...	.00	.10
10,50	12,00	114	162	708.105...	.00	.10
10,60	12,00	114	162	708.106...	.00	.10
10,70	12,00	114	162	708.107...	.00	.10
10,80	12,00	114	162	708.108...	.00	.10
10,90	12,00	114	162	708.109...	.00	.10
11,00	12,00	114	162	708.110...	.00	.10
11,10	12,00	114	162	708.111...	.00	.10
11,20	12,00	114	162	708.112...	.00	.10
11,30	12,00	114	162	708.113...	.00	.10
11,40	12,00	114	162	708.114...	.00	.10
11,50	12,00	114	162	708.115...	.00	.10
11,60	12,00	114	162	708.116...	.00	.10
11,70	12,00	114	162	708.117...	.00	.10

HP VHM - Spiralbohrer mit Innenkühlung 8xD
Solid carbide drill with internal coolant hole

1st CHOICE

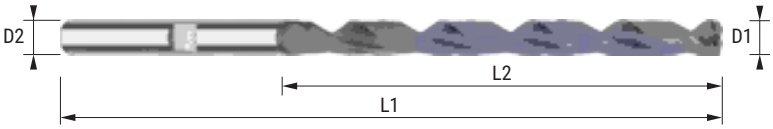
708...

Werkzeugdaten / Tool data				Werkzeugempfehlung / Tool Recommendation	Einsatz / Capabilities
TYP N, 2, 140°, 4, IK, HA, HB, TIALN				Universal	8xD

D1 h7	D2 h6	L2	L1	Artikel-Nr./ Article-No.	HA	HB
11,80	12,00	114	162	708.118...	.00	.10
11,90	12,00	114	162	708.119...	.00	.10
12,00	12,00	114	162	708.120...	.00	.10
12,50	14,00	133	184	708.125...	.00	.10
12,80	14,00	133	184	708.128...	.00	.10
13,00	14,00	133	184	708.130...	.00	.10
13,50	14,00	133	184	708.135...	.00	.10
14,00	14,00	133	184	708.140...	.00	.10
14,50	16,00	152	203	708.145...	.00	.10
15,00	16,00	152	203	708.150...	.00	.10
15,50	16,00	152	203	708.155...	.00	.10
16,00	16,00	152	203	708.160...	.00	.10
16,50	18,00	171	222	708.165...	.00	.10
17,00	18,00	171	222	708.170...	.00	.10
17,50	18,00	171	222	708.175...	.00	.10
18,00	18,00	171	222	708.180...	.00	.10
18,50	20,00	190	243	708.185...	.00	.10
19,00	20,00	190	243	708.190...	.00	.10
20,00	20,00	190	243	708.200...	.00	.10

HP VHM - Spiralbohrer mit Innenkühlung 12xD
Solid carbide drill with internal coolant hole

710...



Werkzeugdaten / Tool data				Werkzeugempfehlung / Tool Recommendation	Einsatz / Capabilities
TYP N, 2, 135°, 4, IK, HA, HB, TIALN				Universal	z, 12xD

D1 h7	D2 h6	L2	L1	Artikel-Nr./ Article-No.	HA	HB
1,00	3,00	15	55	710.010...	.00	-
1,10	3,00	23	55	710.011...	.00	-
1,20	3,00	23	55	710.012...	.00	-
1,30	3,00	23	55	710.013...	.00	-
1,40	3,00	23	55	710.014...	.00	-
1,50	3,00	30	65	710.015...	.00	-
1,60	3,00	30	65	710.016...	.00	-
1,70	3,00	30	65	710.017...	.00	-
1,80	3,00	30	65	710.018...	.00	-
1,90	3,00	30	65	710.019...	.00	-
2,00	3,00	38	74	710.020...	.00	-
2,10	3,00	38	74	710.021...	.00	-
2,20	3,00	38	74	710.022...	.00	-
2,30	3,00	38	74	710.023...	.00	-
2,40	3,00	38	74	710.024...	.00	-
2,50	3,00	44	81	710.025...	.00	-
2,60	3,00	44	81	710.026...	.00	-
2,70	3,00	44	81	710.027...	.00	-
2,80	3,00	44	81	710.028...	.00	-

UNI

HP

VHM - Spiralbohrer mit Innenkühlung 12xD

Solid carbide drill with internal coolant hole

710...

Werkzeugdaten / Tool data	Werkzeugempfehlung / Tool Recommendation	Einsatz / Capabilities
TYP N, 2, 135°, 4, IK, HA, HB, TIALN	Universal	z, 12xD

D1 h7	D2 h6	L2	L1	Artikel-Nr./ Article-No.	HA	HB
2,90	3,00	44	81	710.029...	.00	-
3,00	6,00	54	92	710.030...	.00	.10
3,10	6,00	54	92	710.031...	.00	.10
3,20	6,00	54	92	710.032...	.00	.10
3,30	6,00	54	92	710.033...	.00	.10
3,40	6,00	54	92	710.034...	.00	.10
3,50	6,00	54	92	710.035...	.00	.10
3,60	6,00	54	92	710.036...	.00	.10
3,70	6,00	54	92	710.037...	.00	.10
3,80	6,00	64	102	710.038...	.00	.10
3,90	6,00	64	102	710.039...	.00	.10
4,00	6,00	64	102	710.040...	.00	.10
4,10	6,00	64	102	710.041...	.00	.10
4,20	6,00	64	102	710.042...	.00	.10
4,30	6,00	64	102	710.043...	.00	.10
4,40	6,00	64	102	710.044...	.00	.10
4,50	6,00	64	102	710.045...	.00	.10
4,60	6,00	64	102	710.046...	.00	.10
4,70	6,00	64	102	710.047...	.00	.10
4,80	6,00	78	118	710.048...	.00	.10
4,90	6,00	78	118	710.049...	.00	.10
5,00	6,00	78	118	710.050...	.00	.10
5,10	6,00	78	118	710.051...	.00	.10
5,20	6,00	78	118	710.052...	.00	.10
5,30	6,00	78	118	710.053...	.00	.10
5,40	6,00	78	118	710.054...	.00	.10
5,50	6,00	78	118	710.055...	.00	.10
5,60	6,00	78	118	710.056...	.00	.10
5,70	6,00	78	118	710.057...	.00	.10
5,80	6,00	78	118	710.058...	.00	.10
5,90	6,00	78	118	710.059...	.00	.10
6,00	6,00	78	118	710.060...	.00	.10
6,10	8,00	108	146	710.061...	.00	.10
6,20	8,00	108	146	710.062...	.00	.10
6,30	8,00	108	146	710.063...	.00	.10
6,40	8,00	108	146	710.064...	.00	.10
6,50	8,00	108	146	710.065...	.00	.10
6,60	8,00	108	146	710.066...	.00	.10
6,70	8,00	108	146	710.067...	.00	.10
6,80	8,00	108	146	710.068...	.00	.10
6,90	8,00	108	146	710.069...	.00	.10
7,00	8,00	108	146	710.070...	.00	.10
7,10	8,00	108	146	710.071...	.00	.10
7,20	8,00	108	146	710.072...	.00	.10
7,30	8,00	108	146	710.073...	.00	.10
7,40	8,00	108	146	710.074...	.00	.10
7,50	8,00	108	146	710.075...	.00	.10
7,60	8,00	108	146	710.076...	.00	.10
7,70	8,00	108	146	710.077...	.00	.10
7,80	8,00	108	146	710.078...	.00	.10
7,90	8,00	108	146	710.079...	.00	.10
8,00	8,00	108	146	710.080...	.00	.10
8,10	10,00	120	162	710.081...	.00	.10
8,20	10,00	120	162	710.082...	.00	.10
8,30	10,00	120	162	710.083...	.00	.10
8,40	10,00	120	162	710.084...	.00	.10
8,50	10,00	120	162	710.085...	.00	.10
8,60	10,00	120	162	710.086...	.00	.10

HP VHM - Spiralbohrer mit Innenkühlung 12xD

Solid carbide drill with internal coolant hole

710...

Werkzeugdaten / Tool data: TYP N, 2, 135°, 4, IK, HA, HB, TIALN

Werkzeugempfehlung / Tool Recommendation: Universal

Einsatz / Capabilities: z, 12xD

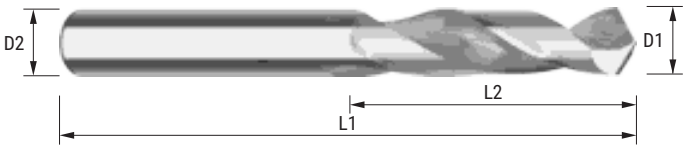
D1 h7	D2 h6	L2	L1	Artikel-Nr./ Article-No.	HA	HB
8,70	10,00	120	162	710.087...	.00	.10
8,80	10,00	120	162	710.088...	.00	.10
8,90	10,00	120	162	710.089...	.00	.10
9,00	10,00	120	162	710.090...	.00	.10
9,10	10,00	120	162	710.091...	.00	.10
9,20	10,00	120	162	710.092...	.00	.10
9,30	10,00	120	162	710.093...	.00	.10
9,40	10,00	120	162	710.094...	.00	.10
9,50	10,00	120	162	710.095...	.00	.10
9,60	10,00	120	162	710.096...	.00	.10
9,70	10,00	120	162	710.097...	.00	.10
9,80	10,00	120	162	710.098...	.00	.10
9,90	10,00	120	162	710.099...	.00	.10
10,00	10,00	120	162	710.100...	.00	.10
10,10	12,00	156	204	710.101...	.00	.10
10,20	12,00	156	204	710.102...	.00	.10
10,30	12,00	156	204	710.103...	.00	.10
10,40	12,00	156	204	710.104...	.00	.10
10,50	12,00	156	204	710.105...	.00	.10
10,60	12,00	156	204	710.106...	.00	.10
10,70	12,00	156	204	710.107...	.00	.10
10,80	12,00	156	204	710.108...	.00	.10
10,90	12,00	156	204	710.109...	.00	.10
11,00	12,00	156	204	710.110...	.00	.10
11,10	12,00	156	204	710.111...	.00	.10
11,20	12,00	156	204	710.112...	.00	.10
11,30	12,00	156	204	710.113...	.00	.10
11,40	12,00	156	204	710.114...	.00	.10
11,50	12,00	156	204	710.115...	.00	.10
11,60	12,00	156	204	710.116...	.00	.10
11,70	12,00	156	204	710.117...	.00	.10
11,80	12,00	156	204	710.118...	.00	.10
11,90	12,00	156	204	710.119...	.00	.10
12,00	12,00	156	204	710.120...	.00	.10
12,50	14,00	182	230	710.125...	.00	.10
12,80	14,00	182	230	710.128...	.00	.10
13,00	14,00	182	230	710.130...	.00	.10
13,50	14,00	182	230	710.135...	.00	.10
13,80	14,00	182	230	710.138...	.00	.10
14,00	14,00	182	230	710.140...	.00	.10
14,50	16,00	208	260	710.145...	.00	.10
14,80	16,00	208	260	710.148...	.00	.10
15,00	16,00	208	260	710.150...	.00	.10
15,50	16,00	208	260	710.155...	.00	.10
15,80	16,00	208	260	710.158...	.00	.10
16,00	16,00	208	260	710.160...	.00	.10
16,50	18,00	234	285	710.165...	.00	.10
16,80	18,00	234	285	710.168...	.00	.10
17,00	18,00	234	285	710.170...	.00	.10
17,50	18,00	234	285	710.175...	.00	.10
17,80	18,00	234	285	710.178...	.00	.10
18,00	18,00	234	285	710.180...	.00	.10
18,50	20,00	258	310	710.185...	.00	.10
18,80	20,00	258	310	710.188...	.00	.10
19,00	20,00	258	310	710.190...	.00	.10
19,50	20,00	258	310	710.195...	.00	.10
19,80	20,00	258	310	710.198...	.00	.10
20,00	20,00	258	310	710.200...	.00	.10

UNI

GP

VHM - Spiralbohrer
Solid carbide drill

701...



Werkzeugdaten / Tool data	Werkzeugempfehlung / Tool Recommendation	Einsatz / Capabilities
TYP N, 2, 118°, e.IK, HA, Norm, BLANK	Universal	z, 5xD

D1 h7	D2 h6	L2	L1	Artikel-Nr./ Article-No.
0,50	0,50	3,00	20	701.005.000
0,60	0,60	5,50	21	701.006.000
0,70	0,70	6,00	23	701.007.000
0,80	0,80	5,00	24	701.008.000
0,90	0,90	5,50	25	701.009.000
1,00	1,00	6,00	26	701.010.000
1,10	1,10	7,00	28	701.011.000
1,20	1,20	8,00	30	701.012.000
1,30	1,30	8,00	30	701.013.000
1,40	1,40	9,00	32	701.014.000
1,50	1,50	9,00	32	701.015.000
1,60	1,60	10,00	34	701.016.000
1,70	1,70	10,00	34	701.017.000
1,80	1,80	11,00	36	701.018.000
1,90	1,90	11,00	36	701.019.000
2,00	2,00	12,00	38	701.020.000
2,10	2,10	12,00	38	701.021.000
2,20	2,20	13,00	40	701.022.000
2,30	2,30	13,00	40	701.023.000
2,40	2,40	14,00	43	701.024.000
2,50	2,50	14,00	43	701.025.000
2,60	2,60	14,00	43	701.026.000
2,70	2,70	16,00	46	701.027.000
2,80	2,80	16,00	46	701.028.000
2,90	2,90	16,00	46	701.029.000
3,00	3,00	16,00	46	701.030.000
3,10	3,10	18,00	49	701.031.000
3,20	3,20	18,00	49	701.032.000
3,30	3,30	18,00	49	701.033.000
3,40	3,40	20,00	52	701.034.000
3,50	3,50	20,00	52	701.035.000
3,60	3,60	20,00	52	701.036.000
3,70	3,70	20,00	52	701.037.000
3,80	3,80	22,00	55	701.038.000
3,90	3,90	22,00	55	701.039.000
4,00	4,00	22,00	55	701.040.000
4,10	4,10	22,00	55	701.041.000
4,20	4,20	22,00	55	701.042.000
4,30	4,30	24,00	58	701.043.000
4,40	4,40	24,00	58	701.044.000
4,50	4,50	24,00	58	701.045.000
4,60	4,60	24,00	58	701.046.000
4,70	4,70	24,00	58	701.047.000
4,80	4,80	26,00	62	701.048.000
4,90	4,90	26,00	62	701.049.000
5,00	5,00	26,00	62	701.050.000
5,10	5,10	26,00	62	701.051.000
5,20	5,20	26,00	62	701.052.000
5,30	5,30	26,00	62	701.053.000
5,40	5,40	28,00	66	701.054.000

GP

VHM - Spiralbohrer
Solid carbide drill

701...

Werkzeugdaten / Tool data	Werkzeugempfehlung / Tool Recommendation	Einsatz / Capabilities
TYP N, 2, 118°, o.IK, HA, Norm, BLANK	Universal	z, 5xD

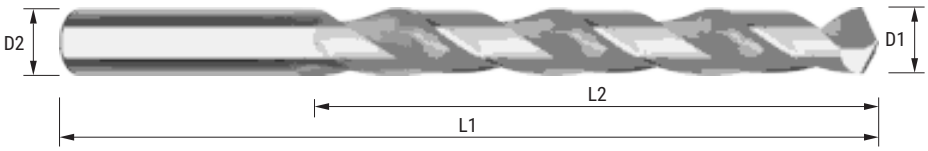
D1 h7	D2 h6	L2	L1	Artikel-Nr./ Article-No.
5,50	5,50	28,00	66	701.055.000
5,60	5,60	28,00	66	701.056.000
5,70	5,70	28,00	66	701.057.000
5,80	5,80	28,00	66	701.058.000
5,90	5,90	28,00	66	701.059.000
6,00	6,00	28,00	66	701.060.000
6,10	6,10	31,00	70	701.061.000
6,20	6,20	31,00	70	701.062.000
6,30	6,30	31,00	70	701.063.000
6,40	6,40	31,00	70	701.064.000
6,50	6,50	31,00	70	701.065.000
6,60	6,60	31,00	70	701.066.000
6,70	6,70	31,00	70	701.067.000
6,80	6,80	34,00	74	701.068.000
6,90	6,90	34,00	74	701.069.000
7,00	7,00	34,00	74	701.070.000
7,10	7,10	34,00	74	701.071.000
7,20	7,20	34,00	74	701.072.000
7,30	7,30	34,00	74	701.073.000
7,40	7,40	34,00	74	701.074.000
7,50	7,50	34,00	74	701.075.000
7,60	7,60	37,00	79	701.076.000
7,70	7,70	37,00	79	701.077.000
7,80	7,80	37,00	79	701.078.000
7,90	7,90	37,00	79	701.079.000
8,00	8,00	37,00	79	701.080.000
8,10	8,10	37,00	79	701.081.000
8,20	8,20	37,00	79	701.082.000
8,30	8,30	37,00	79	701.083.000
8,40	8,40	37,00	79	701.084.000
8,50	8,50	37,00	79	701.085.000
8,60	8,60	40,00	84	701.086.000
8,70	8,70	40,00	84	701.087.000
8,80	8,80	40,00	84	701.088.000
8,90	8,90	40,00	84	701.089.000
9,00	9,00	40,00	84	701.090.000
9,10	9,10	40,00	84	701.091.000
9,20	9,20	40,00	84	701.092.000
9,30	9,30	40,00	84	701.093.000
9,40	9,40	40,00	84	701.094.000
9,50	9,50	40,00	84	701.095.000
9,60	9,60	40,00	89	701.096.000
9,70	9,70	43,00	89	701.097.000
9,80	9,80	43,00	89	701.098.000
9,90	9,90	43,00	89	701.099.000
10,00	10,00	43,00	89	701.100.000
10,20	10,20	43,00	89	701.102.000
10,30	10,30	43,00	89	701.103.000
10,50	10,50	43,00	89	701.105.000
11,00	11,00	47,00	95	701.110.000
11,50	11,50	47,00	95	701.115.000
12,00	12,00	51,00	102	701.120.000

UNI

GP

VHM - Spiralbohrer
Solid carbide drill

702...



Werkzeugdaten / Tool data	Werkzeugempfehlung / Tool Recommendation	Einsatz / Capabilities
TYP N, 2, 118°, e.IK, HA, Norm, BLANK	Universal	z, 8xD

D1 h7	D2 h6	L2	L1	Artikel-Nr./ Article-No.
1,00	1,00	12	34	702.010.000
1,10	1,10	14	36	702.011.000
1,20	1,20	16	38	702.012.000
1,30	1,30	16	38	702.013.000
1,40	1,40	18	40	702.014.000
1,50	1,50	18	40	702.015.000
1,60	1,60	20	43	702.016.000
1,70	1,70	20	43	702.017.000
1,80	1,80	22	46	702.018.000
1,90	1,90	22	46	702.019.000
2,00	2,00	24	49	702.020.000
2,10	2,10	24	49	702.021.000
2,20	2,20	27	53	702.022.000
2,30	2,30	27	53	702.023.000
2,40	2,40	30	57	702.024.000
2,50	2,50	30	57	702.025.000
2,60	2,60	30	57	702.026.000
2,70	2,70	33	61	702.027.000
2,80	2,80	33	61	702.028.000
2,90	2,90	33	61	702.029.000
3,00	3,00	33	61	702.030.000
3,10	3,10	36	65	702.031.000
3,20	3,20	36	65	702.032.000
3,30	3,30	36	65	702.033.000
3,40	3,40	39	70	702.034.000
3,50	3,50	39	70	702.035.000
3,60	3,60	39	70	702.036.000
3,70	3,70	39	70	702.037.000
3,80	3,80	43	75	702.038.000
3,90	3,90	43	75	702.039.000
4,00	4,00	43	75	702.040.000
4,10	4,10	43	75	702.041.000
4,20	4,20	43	75	702.042.000
4,30	4,30	47	80	702.043.000
4,40	4,40	47	80	702.044.000
4,50	4,50	47	80	702.045.000
4,60	4,60	47	80	702.046.000
4,70	4,70	47	80	702.047.000
4,80	4,80	52	86	702.048.000
4,90	4,90	52	86	702.049.000
5,00	5,00	52	86	702.050.000
5,10	5,10	52	86	702.051.000
5,20	5,20	52	86	702.052.000
5,30	5,30	52	86	702.053.000
5,40	5,40	57	93	702.054.000
5,50	5,50	57	93	702.055.000
5,60	5,60	57	93	702.056.000
5,70	5,70	57	93	702.057.000
5,80	5,80	57	93	702.058.000
5,90	5,90	57	93	702.059.000

GP

VHM - Spiralbohrer
Solid carbide drill

702...

Werkzeugdaten / Tool data	Werkzeugempfehlung / Tool Recommendation	Einsatz / Capabilities
TYP N, 2, 118°, o.IK, HA, Norm, BLANK	Universal	z, 8xD

D1 h7	D2 h6	L2	L1	Artikel-Nr./ Article-No.
6,00	6,00	57	93	702.060.000
6,10	6,10	63	101	702.061.000
6,20	6,20	63	101	702.062.000
6,30	6,30	63	101	702.063.000
6,40	6,40	63	101	702.064.000
6,50	6,50	63	101	702.065.000
6,60	6,60	63	101	702.066.000
6,70	6,70	63	101	702.067.000
6,80	6,80	69	109	702.068.000
6,90	6,90	69	109	702.069.000
7,00	7,00	69	109	702.070.000
7,10	7,10	69	109	702.071.000
7,20	7,20	69	109	702.072.000
7,30	7,30	69	109	702.073.000
7,40	7,40	69	109	702.074.000
7,50	7,50	69	109	702.075.000
7,60	7,60	75	117	702.076.000
7,70	7,70	75	117	702.077.000
7,80	7,80	75	117	702.078.000
7,90	7,90	75	117	702.079.000
8,00	8,00	75	117	702.080.000
8,10	8,10	75	117	702.081.000
8,20	8,20	75	117	702.082.000
8,30	8,30	75	117	702.083.000
8,40	8,40	75	117	702.084.000
8,50	8,50	75	117	702.085.000
8,60	8,60	81	125	702.086.000
8,70	8,70	81	125	702.087.000
8,80	8,80	81	125	702.088.000
8,90	8,90	81	125	702.089.000
9,00	9,00	81	125	702.090.000
9,10	9,10	81	125	702.091.000
9,20	9,20	81	125	702.092.000
9,30	9,30	81	125	702.093.000
9,40	9,40	81	125	702.094.000
9,50	9,50	81	125	702.095.000
9,60	9,60	87	133	702.096.000
9,70	9,70	87	133	702.097.000
9,80	9,80	87	133	702.098.000
9,90	9,90	87	133	702.099.000
10,00	10,00	87	133	702.100.000
10,20	10,20	87	133	702.102.000
10,50	10,50	87	133	702.105.000
11,00	11,00	94	142	702.110.000
11,50	11,50	94	142	702.115.000
12,00	12,00	101	151	702.120.000

HP VHM - Hochleistungsspiralbohrer mit Innenkühlung 5xD

Solid carbide high performance drill with internal coolant hole

905...

InoTV

Werkzeugdaten / Tool data: TYP N-H, 2, 140°, 3, IK, HA, HB, nacro

Werkzeugempfehlung / Tool Recommendation: HPC, Stahl steel, GG(G)

Einsatz / Capabilities: z, 5xD

D1 m7	D2 h6	L2	L1	Artikel-Nr./ Article-No.	HA	HB
3,00	6,00	28	66	905.030...	.00	.10
3,10	6,00	28	66	905.031...	.00	.10
3,20	6,00	28	66	905.032...	.00	.10
3,30	6,00	28	66	905.033...	.00	.10
3,40	6,00	28	66	905.034...	.00	.10
3,50	6,00	28	66	905.035...	.00	.10
3,60	6,00	28	66	905.036...	.00	.10
3,70	6,00	28	66	905.037...	.00	.10
3,80	6,00	36	74	905.038...	.00	.10
3,90	6,00	36	74	905.039...	.00	.10
4,00	6,00	36	74	905.040...	.00	.10
4,10	6,00	36	74	905.041...	.00	.10
4,20	6,00	36	74	905.042...	.00	.10
4,30	6,00	36	74	905.043...	.00	.10
4,40	6,00	36	74	905.044...	.00	.10
4,50	6,00	36	74	905.045...	.00	.10
4,60	6,00	36	74	905.046...	.00	.10
4,65	6,00	36	74	905.465...	.00	.10
4,70	6,00	36	74	905.047...	.00	.10
4,80	6,00	44	82	905.048...	.00	.10
4,90	6,00	44	82	905.049...	.00	.10
5,00	6,00	44	82	905.050...	.00	.10
5,10	6,00	44	82	905.051...	.00	.10
5,20	6,00	44	82	905.052...	.00	.10
5,30	6,00	44	82	905.053...	.00	.10
5,40	6,00	44	82	905.054...	.00	.10
5,50	6,00	44	82	905.055...	.00	.10
5,55	6,00	44	82	905.555...	.00	.10
5,60	6,00	44	82	905.056...	.00	.10
5,70	6,00	44	82	905.057...	.00	.10
5,80	6,00	44	82	905.058...	.00	.10
5,90	6,00	44	82	905.059...	.00	.10
6,00	6,00	44	82	905.060...	.00	.10
6,10	8,00	53	91	905.061...	.00	.10
6,20	8,00	53	91	905.062...	.00	.10
6,30	8,00	53	91	905.063...	.00	.10
6,40	8,00	53	91	905.064...	.00	.10
6,50	8,00	53	91	905.065...	.00	.10
6,60	8,00	53	91	905.066...	.00	.10
6,70	8,00	53	91	905.067...	.00	.10
6,80	8,00	53	91	905.068...	.00	.10
6,90	8,00	53	91	905.069...	.00	.10
7,00	8,00	53	91	905.070...	.00	.10
7,10	8,00	53	91	905.071...	.00	.10
7,20	8,00	53	91	905.072...	.00	.10
7,30	8,00	53	91	905.073...	.00	.10
7,40	8,00	53	91	905.074...	.00	.10
7,50	8,00	53	91	905.075...	.00	.10
7,60	8,00	53	91	905.076...	.00	.10
7,70	8,00	53	91	905.077...	.00	.10

P K

HP

VHM - Hochleistungsspiralbohrer mit Innenkühlung 5xD

Solid carbide high performance drill with internal coolant hole

905...

Werkzeugdaten / Tool data | Werkzeugempfehlung / Tool Recommendation | Einsatz / Capabilities

TYP N-H | 2 | 140° | 3 | IK | HA | HB | nacro

HPC | Stahl steel | GG(G)

D1 m7	D2 h6	L2	L1	Artikel-Nr./ Article-No.	HA	HB
7,80	8,00	53	91	905.078...	.00	.10
7,90	8,00	53	91	905.079...	.00	.10
8,00	8,00	53	91	905.080...	.00	.10
8,10	10,00	61	103	905.081...	.00	.10
8,20	10,00	61	103	905.082...	.00	.10
8,30	10,00	61	103	905.083...	.00	.10
8,40	10,00	61	103	905.084...	.00	.10
8,50	10,00	61	103	905.085...	.00	.10
8,60	10,00	61	103	905.086...	.00	.10
8,70	10,00	61	103	905.087...	.00	.10
8,80	10,00	61	103	905.088...	.00	.10
8,90	10,00	61	103	905.089...	.00	.10
9,00	10,00	61	103	905.090...	.00	.10
9,10	10,00	61	103	905.091...	.00	.10
9,20	10,00	61	103	905.092...	.00	.10
9,30	10,00	61	103	905.093...	.00	.10
9,40	10,00	61	103	905.094...	.00	.10
9,50	10,00	61	103	905.095...	.00	.10
9,60	10,00	61	103	905.096...	.00	.10
9,70	10,00	61	103	905.097...	.00	.10
9,80	10,00	61	103	905.098...	.00	.10
9,90	10,00	61	103	905.099...	.00	.10
10,00	10,00	61	103	905.100...	.00	.10
10,10	12,00	71	118	905.101...	.00	.10
10,20	12,00	71	118	905.102...	.00	.10
10,30	12,00	71	118	905.103...	.00	.10
10,40	12,00	71	118	905.104...	.00	.10
10,50	12,00	71	118	905.105...	.00	.10
10,60	12,00	71	118	905.106...	.00	.10
10,70	12,00	71	118	905.107...	.00	.10
10,80	12,00	71	118	905.108...	.00	.10
10,90	12,00	71	118	905.109...	.00	.10
11,00	12,00	71	118	905.110...	.00	.10
11,10	12,00	71	118	905.111...	.00	.10
11,20	12,00	71	118	905.112...	.00	.10
11,30	12,00	71	118	905.113...	.00	.10
11,40	12,00	71	118	905.114...	.00	.10
11,50	12,00	71	118	905.115...	.00	.10
11,60	12,00	71	118	905.116...	.00	.10
11,70	12,00	71	118	905.117...	.00	.10
11,80	12,00	71	118	905.118...	.00	.10
11,90	12,00	71	118	905.119...	.00	.10
12,00	12,00	71	118	905.120...	.00	.10
12,20	14,00	77	124	905.122...	.00	.10
12,30	14,00	77	124	905.123...	.00	.10
12,50	14,00	77	124	905.125...	.00	.10
12,80	14,00	77	124	905.128...	.00	.10
13,00	14,00	77	124	905.130...	.00	.10
13,50	14,00	77	124	905.135...	.00	.10
13,80	14,00	77	124	905.138...	.00	.10
14,00	14,00	77	124	905.140...	.00	.10
14,50	16,00	83	133	905.145...	.00	.10
14,80	16,00	83	133	905.148...	.00	.10
15,00	16,00	83	133	905.150...	.00	.10
15,50	16,00	83	133	905.155...	.00	.10
15,80	16,00	83	133	905.158...	.00	.10

HP VHM - Hochleistungsspiralbohrer mit Innenkühlung 5xD

Solid carbide high performance drill with internal coolant hole

905...

Werkzeugdaten / Tool data	Werkzeugempfehlung / Tool Recommendation	Einsatz / Capabilities
TYP N-H, 2, 140°, 3, IK, HA, HB, nacro	HPC, Stahl steel, GG(G)	z, 5xD, i

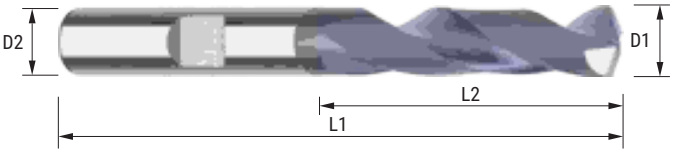
D1 m7	D2 h6	L2	L1	Artikel-Nr./ Article-No.	HA	HB
16,00	16,00	83	133	905.160...	.00	.10
16,50	18,00	93	143	905.165...	.00	.10
16,80	18,00	93	143	905.168...	.00	.10
17,00	18,00	93	143	905.170...	.00	.10
17,50	18,00	93	143	905.175...	.00	.10
17,80	18,00	93	143	905.178...	.00	.10
18,00	18,00	93	143	905.180...	.00	.10
18,50	20,00	101	153	905.185...	.00	.10
19,00	20,00	101	153	905.190...	.00	.10
19,50	20,00	101	153	905.195...	.00	.10
20,00	20,00	101	153	905.200...	.00	.10

HP VHM - Spiralbohrer 3xD

Solid carbide drill

1st CHOICE

751...



Werkzeugdaten / Tool data	Werkzeugempfehlung / Tool Recommendation	Einsatz / Capabilities
TYP N, 2, 140°, o.IK, HA, HB, Norm, VAROCON	INOX VA	z, 3xD

D1 m7	D2 h6	L2	L1	Artikel-Nr./ Article-No.	HA	HB
1,00	4,00	7	45	751.010...	.00	-
1,10	4,00	7	45	751.011...	.00	-
1,20	4,00	7	45	751.012...	.00	-
1,30	4,00	7	45	751.013...	.00	-
1,40	4,00	7	45	751.014...	.00	-
1,50	4,00	14	55	751.015...	.00	-
1,60	4,00	14	55	751.016...	.00	-
1,70	4,00	14	55	751.017...	.00	-
1,80	4,00	14	55	751.018...	.00	-
1,90	4,00	14	55	751.019...	.00	-
2,00	4,00	20	55	751.020...	.00	-
2,10	4,00	20	55	751.021...	.00	-
2,20	4,00	20	55	751.022...	.00	-
2,30	4,00	20	55	751.023...	.00	-
2,40	4,00	20	55	751.024...	.00	-
2,50	4,00	20	55	751.025...	.00	-
2,60	4,00	20	55	751.026...	.00	-
2,70	4,00	20	55	751.027...	.00	-
2,80	4,00	20	55	751.028...	.00	-
2,90	4,00	20	55	751.029...	.00	-
3,00	6,00	20	62	751.030...	.00	.10
3,10	6,00	20	62	751.031...	.00	.10
3,20	6,00	20	62	751.032...	.00	.10
3,25	6,00	20	62	751.325...	.00	.10
3,30	6,00	20	62	751.033...	.00	.10
3,40	6,00	20	62	751.034...	.00	.10
3,50	6,00	20	62	751.035...	.00	.10
3,60	6,00	20	62	751.036...	.00	.10
3,70	6,00	20	62	751.037...	.00	.10
3,80	6,00	24	66	751.038...	.00	.10
3,90	6,00	24	66	751.039...	.00	.10
4,00	6,00	24	66	751.040...	.00	.10
4,10	6,00	24	66	751.041...	.00	.10
4,20	6,00	24	66	751.042...	.00	.10
4,30	6,00	24	66	751.043...	.00	.10
4,40	6,00	24	66	751.044...	.00	.10
4,50	6,00	24	66	751.045...	.00	.10
4,60	6,00	24	66	751.046...	.00	.10
4,65	6,00	24	66	751.465...	.00	.10
4,70	6,00	24	66	751.047...	.00	.10
4,80	6,00	28	66	751.048...	.00	.10
4,90	6,00	28	66	751.049...	.00	.10
5,00	6,00	28	66	751.050...	.00	.10
5,10	6,00	28	66	751.051...	.00	.10
5,20	6,00	28	66	751.052...	.00	.10
5,30	6,00	28	66	751.053...	.00	.10
5,40	6,00	28	66	751.054...	.00	.10
5,50	6,00	28	66	751.055...	.00	.10
5,55	6,00	28	66	751.555...	.00	.10
5,60	6,00	28	66	751.056...	.00	.10

HP VHM - Spiralbohrer 3xD

Solid carbide drill

NEW 1st CHOICE 751...

Werkzeugdaten / Tool data	Werkzeugempfehlung / Tool Recommendation	Einsatz / Capabilities
TYP N, 2, 140°, o.IK, HA, HB, Norm, VAROCON	INOX VA	z, 3xD

D1 m7	D2 h6	L2	L1	Artikel-Nr./ Article-No.	HA	HB
5,70	6,00	28	66	751.057...	.00	.10
5,80	6,00	28	66	751.058...	.00	.10
5,90	6,00	28	66	751.059...	.00	.10
6,00	6,00	28	66	751.060...	.00	.10
6,10	8,00	34	79	751.061...	.00	.10
6,20	8,00	34	79	751.062...	.00	.10
6,30	8,00	34	79	751.063...	.00	.10
6,40	8,00	34	79	751.064...	.00	.10
6,50	8,00	34	79	751.065...	.00	.10
6,60	8,00	34	79	751.066...	.00	.10
6,70	8,00	34	79	751.067...	.00	.10
6,80	8,00	34	79	751.068...	.00	.10
6,90	8,00	34	79	751.069...	.00	.10
7,00	8,00	34	79	751.070...	.00	.10
7,10	8,00	41	79	751.071...	.00	.10
7,20	8,00	41	79	751.072...	.00	.10
7,30	8,00	41	79	751.073...	.00	.10
7,40	8,00	41	79	751.074...	.00	.10
7,50	8,00	41	79	751.075...	.00	.10
7,60	8,00	41	79	751.076...	.00	.10
7,70	8,00	41	79	751.077...	.00	.10
7,80	8,00	41	79	751.078...	.00	.10
7,90	8,00	41	79	751.079...	.00	.10
8,00	8,00	41	79	751.080...	.00	.10
8,10	10,00	47	89	751.081...	.00	.10
8,20	10,00	47	89	751.082...	.00	.10
8,30	10,00	47	89	751.083...	.00	.10
8,40	10,00	47	89	751.084...	.00	.10
8,50	10,00	47	89	751.085...	.00	.10
8,60	10,00	47	89	751.086...	.00	.10
8,70	10,00	47	89	751.087...	.00	.10
8,80	10,00	47	89	751.088...	.00	.10
8,90	10,00	47	89	751.089...	.00	.10
9,00	10,00	47	89	751.090...	.00	.10
9,10	10,00	47	89	751.091...	.00	.10
9,20	10,00	47	89	751.092...	.00	.10
9,30	10,00	47	89	751.093...	.00	.10
9,40	10,00	47	89	751.094...	.00	.10
9,50	10,00	47	89	751.095...	.00	.10
9,60	10,00	47	89	751.096...	.00	.10
9,70	10,00	47	89	751.097...	.00	.10
9,80	10,00	47	89	751.098...	.00	.10
9,90	10,00	47	89	751.099...	.00	.10
10,00	10,00	47	89	751.100...	.00	.10
10,10	12,00	55	102	751.101...	.00	.10
10,20	12,00	55	102	751.102...	.00	.10
10,30	12,00	55	102	751.103...	.00	.10
10,40	12,00	55	102	751.104...	.00	.10
10,50	12,00	55	102	751.105...	.00	.10
10,60	12,00	55	102	751.106...	.00	.10
10,70	12,00	55	102	751.107...	.00	.10
10,80	12,00	55	102	751.108...	.00	.10
10,90	12,00	55	102	751.109...	.00	.10
11,00	12,00	55	102	751.110...	.00	.10
11,10	12,00	55	102	751.111...	.00	.10
11,20	12,00	55	102	751.112...	.00	.10

HP VHM - Spiralbohrer 3xD

Solid carbide drill

NEW 1st CHOICE 751...

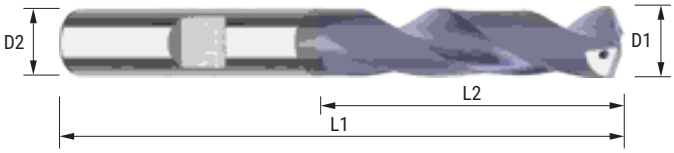
Werkzeugdaten / Tool data	Werkzeugempfehlung / Tool Recommendation	Einsatz / Capabilities
TYP N, 2, 140°, o.IK, HA, HB, Norm, VAROCON	INOX VA	z, 3xD

D1 m7	D2 h6	L2	L1	Artikel-Nr./ Article-No.	HA	HB
11,30	12,00	55	102	751.113...	.00	.10
11,40	12,00	55	102	751.114...	.00	.10
11,50	12,00	55	102	751.115...	.00	.10
11,60	12,00	55	102	751.116...	.00	.10
11,70	12,00	55	102	751.117...	.00	.10
11,80	12,00	55	102	751.118...	.00	.10
11,90	12,00	55	102	751.119...	.00	.10
12,00	12,00	55	102	751.120...	.00	.10
12,20	14,00	60	107	751.122...	.00	.10
12,30	14,00	60	107	751.123...	.00	.10
12,50	14,00	60	107	751.125...	.00	.10
12,80	14,00	60	107	751.128...	.00	.10
13,00	14,00	60	107	751.130...	.00	.10
13,50	14,00	60	107	751.135...	.00	.10
13,80	14,00	60	107	751.138...	.00	.10
14,00	14,00	60	107	751.140...	.00	.10
14,20	16,00	65	115	751.142...	.00	.10
14,50	16,00	65	115	751.145...	.00	.10
14,80	16,00	65	115	751.148...	.00	.10
15,00	16,00	65	115	751.150...	.00	.10
15,10	16,00	65	115	751.151...	.00	.10
15,20	16,00	65	115	751.152...	.00	.10
15,50	16,00	65	115	751.155...	.00	.10
15,80	16,00	65	115	751.158...	.00	.10
16,00	16,00	65	115	751.160...	.00	.10
16,50	18,00	73	123	751.165...	.00	.10
16,80	18,00	73	123	751.168...	.00	.10
17,00	18,00	73	123	751.170...	.00	.10
17,30	18,00	73	123	751.173...	.00	.10
17,50	18,00	73	123	751.175...	.00	.10
17,50	18,00	73	123	751.177...	.00	.10
17,80	18,00	73	123	751.178...	.00	.10
18,00	18,00	73	123	751.180...	.00	.10
18,50	20,00	79	131	751.185...	.00	.10
19,00	20,00	79	131	751.190...	.00	.10
19,30	20,00	79	131	751.193...	.00	.10
19,50	20,00	79	131	751.195...	.00	.10
19,80	20,00	79	131	751.198...	.00	.10
20,00	20,00	79	131	751.200...	.00	.10

HP VHM - Spiralbohrer mit Innenkühlung 3xD

Solid carbide drill with internal coolant hole

NEW 1st CHOICE 752...



Werkzeugdaten / Tool data	Werkzeugempfehlung / Tool Recommendation	Einsatz / Capabilities
TYP N, 2, 140°, K, HA, HB, VAROCON	INOX VA	z, 3xD

D1 m7	D2 h6	L2	L1	Artikel-Nr./ Article-No.	HA	HB
3,00	6,00	20	62	752.030...	.00	.10
3,10	6,00	20	62	752.031...	.00	.10
3,20	6,00	20	62	752.032...	.00	.10
3,30	6,00	20	62	752.033...	.00	.10
3,30	6,00	20	62	752.325...	.00	.10
3,40	6,00	20	62	752.034...	.00	.10
3,50	6,00	20	62	752.035...	.00	.10
3,60	6,00	20	62	752.036...	.00	.10
3,70	6,00	20	62	752.037...	.00	.10
3,80	6,00	24	66	752.038...	.00	.10
3,90	6,00	24	66	752.039...	.00	.10
4,00	6,00	24	66	752.040...	.00	.10
4,10	6,00	24	66	752.041...	.00	.10
4,20	6,00	24	66	752.042...	.00	.10
4,30	6,00	24	66	752.043...	.00	.10
4,40	6,00	24	66	752.044...	.00	.10
4,50	6,00	24	66	752.045...	.00	.10
4,60	6,00	24	66	752.046...	.00	.10
4,70	6,00	24	66	752.047...	.00	.10
4,70	6,00	24	66	752.465...	.00	.10
4,80	6,00	28	66	752.048...	.00	.10
4,90	6,00	28	66	752.049...	.00	.10
5,00	6,00	28	66	752.050...	.00	.10
5,10	6,00	28	66	752.051...	.00	.10
5,20	6,00	28	66	752.052...	.00	.10
5,30	6,00	28	66	752.053...	.00	.10
5,40	6,00	28	66	752.054...	.00	.10
5,50	6,00	28	66	752.055...	.00	.10
5,55	6,00	28	66	752.555...	.00	.10
5,60	6,00	28	66	752.056...	.00	.10
5,70	6,00	28	66	752.057...	.00	.10
5,80	6,00	28	66	752.058...	.00	.10
5,90	6,00	28	66	752.059...	.00	.10
6,00	6,00	28	66	752.060...	.00	.10
6,10	8,00	34	79	752.061...	.00	.10
6,20	8,00	34	79	752.062...	.00	.10
6,30	8,00	34	79	752.063...	.00	.10
6,40	8,00	34	79	752.064...	.00	.10
6,50	8,00	34	79	752.065...	.00	.10
6,60	8,00	34	79	752.066...	.00	.10
6,70	8,00	34	79	752.067...	.00	.10
6,80	8,00	34	79	752.068...	.00	.10
6,90	8,00	34	79	752.069...	.00	.10
7,00	8,00	34	79	752.070...	.00	.10
7,10	8,00	41	79	752.071...	.00	.10
7,20	8,00	41	79	752.072...	.00	.10
7,30	8,00	41	79	752.073...	.00	.10
7,40	8,00	41	79	752.074...	.00	.10
7,50	8,00	41	79	752.075...	.00	.10
7,60	8,00	41	79	752.076...	.00	.10

HP VHM - Spiralbohrer mit Innenkühlung 3xD

Solid carbide drill with internal coolant hole

NEW 1st CHOICE

752...

Werkzeugdaten / Tool data: TYP N, 2, 140°, IK, HA, HB, VAROCON

Werkzeugempfehlung / Tool Recommendation: INOX VA

Einsatz / Capabilities: z, 3xD

D1 m7	D2 h6	L2	L1	Artikel-Nr./ Article-No.	HA	HB
7,70	8,00	41	79	752.077...	.00	.10
7,80	8,00	41	79	752.078...	.00	.10
7,90	8,00	41	79	752.079...	.00	.10
8,00	8,00	41	79	752.080...	.00	.10
8,10	10,00	47	89	752.081...	.00	.10
8,20	10,00	47	89	752.082...	.00	.10
8,30	10,00	47	89	752.083...	.00	.10
8,40	10,00	47	89	752.084...	.00	.10
8,50	10,00	47	89	752.085...	.00	.10
8,60	10,00	47	89	752.086...	.00	.10
8,70	10,00	47	89	752.087...	.00	.10
8,80	10,00	47	89	752.088...	.00	.10
8,90	10,00	47	89	752.089...	.00	.10
9,00	10,00	47	89	752.090...	.00	.10
9,10	10,00	47	89	752.091...	.00	.10
9,20	10,00	47	89	752.092...	.00	.10
9,30	10,00	47	89	752.093...	.00	.10
9,40	10,00	47	89	752.094...	.00	.10
9,50	10,00	47	89	752.095...	.00	.10
9,60	10,00	47	89	752.096...	.00	.10
9,70	10,00	47	89	752.097...	.00	.10
9,80	10,00	47	89	752.098...	.00	.10
9,90	10,00	47	89	752.099...	.00	.10
10,00	10,00	47	89	752.100...	.00	.10
10,10	12,00	55	102	752.101...	.00	.10
10,20	12,00	55	102	752.102...	.00	.10
10,30	12,00	55	102	752.103...	.00	.10
10,40	12,00	55	102	752.104...	.00	.10
10,50	12,00	55	102	752.105...	.00	.10
10,60	12,00	55	102	752.106...	.00	.10
10,70	12,00	55	102	752.107...	.00	.10
10,80	12,00	55	102	752.108...	.00	.10
10,90	12,00	55	102	752.109...	.00	.10
11,00	12,00	55	102	752.110...	.00	.10
11,10	12,00	55	102	752.111...	.00	.10
11,20	12,00	55	102	752.112...	.00	.10
11,30	12,00	55	102	752.113...	.00	.10
11,40	12,00	55	102	752.114...	.00	.10
11,50	12,00	55	102	752.115...	.00	.10
11,60	12,00	55	102	752.116...	.00	.10
11,70	12,00	55	102	752.117...	.00	.10
11,80	12,00	55	102	752.118...	.00	.10
11,90	12,00	55	102	752.119...	.00	.10
12,00	12,00	55	102	752.120...	.00	.10
12,20	14,00	60	107	752.122...	.00	.10
12,30	14,00	60	107	752.123...	.00	.10
12,50	14,00	60	107	752.125...	.00	.10
12,80	14,00	60	107	752.128...	.00	.10
13,00	14,00	60	107	752.130...	.00	.10
13,50	14,00	60	107	752.135...	.00	.10
13,80	14,00	60	107	752.138...	.00	.10
14,00	14,00	60	107	752.140...	.00	.10
14,20	16,00	65	115	752.142...	.00	.10
14,50	16,00	65	115	752.145...	.00	.10
14,80	16,00	65	115	752.148...	.00	.10
15,00	16,00	65	115	752.150...	.00	.10

HP VHM - Spiralbohrer mit Innenkühlung 3xD

Solid carbide drill with internal coolant hole

NEW 1st CHOICE 752...

Werkzeugdaten / Tool data	Werkzeugempfehlung / Tool Recommendation	Einsatz / Capabilities
TYP N, 2, 140°, IK, HA, HB, VAROCON	INOX VA	z, 3xD

D1 m7	D2 h6	L2	L1	Artikel-Nr./ Article-No.	HA	HB
15,10	16,00	65	115	752.151...	.00	.10
15,20	16,00	65	115	752.152...	.00	.10
15,50	16,00	65	115	752.155...	.00	.10
15,80	16,00	65	115	752.158...	.00	.10
16,00	16,00	65	115	752.160...	.00	.10
16,50	18,00	73	123	752.165...	.00	.10
16,80	18,00	73	123	752.168...	.00	.10
17,00	18,00	73	123	752.170...	.00	.10
17,30	18,00	73	123	752.173...	.00	.10
17,50	18,00	73	123	752.175...	.00	.10
17,70	18,00	73	123	752.177...	.00	.10
17,80	18,00	73	123	752.178...	.00	.10
18,00	18,00	73	123	752.180...	.00	.10
18,50	20,00	79	131	752.185...	.00	.10
19,00	20,00	79	131	752.190...	.00	.10
19,50	20,00	79	131	752.193...	.00	.10
19,50	20,00	79	131	752.195...	.00	.10
19,80	20,00	79	131	752.198...	.00	.10
20,00	20,00	79	131	752.200...	.00	.10

HP VHM - Spiralbohrer mit Innenkühlung 5xD

Solid carbide drill with internal coolant hole

NEW 1st CHOICE 753...

Werkzeugdaten / Tool data	Werkzeugempfehlung / Tool Recommendation	Einsatz / Capabilities
TYP N, 2, 140°, IK, HA, HB, VAROCON	INOX VA	z, 5xD

D1 m7	D2 h6	L2	L1	Artikel-Nr./ Article-No.	HA	HB
1,00	3,00	10	55	753.010...	.00	-
1,10	3,00	12	55	753.011...	.00	-
1,20	3,00	12	55	753.012...	.00	-
1,30	3,00	12	55	753.013...	.00	-
1,40	3,00	12	55	753.014...	.00	-
1,50	3,00	12	55	753.015...	.00	-
1,60	3,00	16	55	753.016...	.00	-
1,70	3,00	16	55	753.017...	.00	-
1,80	3,00	16	55	753.018...	.00	-
1,90	3,00	16	55	753.019...	.00	-
2,00	3,00	16	57	753.020...	.00	-
2,10	3,00	21	57	753.021...	.00	-
2,20	3,00	21	57	753.022...	.00	-
2,30	3,00	21	57	753.023...	.00	-
2,40	3,00	21	57	753.024...	.00	-
2,50	3,00	21	57	753.025...	.00	-
2,60	3,00	21	57	753.026...	.00	-
2,70	3,00	21	57	753.027...	.00	-
2,80	3,00	21	57	753.028...	.00	-
2,90	3,00	21	57	753.029...	.00	-
3,00	6,00	28	66	753.030...	.00	.10
3,10	6,00	28	66	753.031...	.00	.10
3,20	6,00	28	66	753.032...	.00	.10
3,25	6,00	28	66	753.325...	.00	.10
3,30	6,00	28	66	753.033...	.00	.10
3,40	6,00	28	66	753.034...	.00	.10
3,50	6,00	28	66	753.035...	.00	.10
3,60	6,00	28	66	753.036...	.00	.10
3,65	6,00	28	66	753.365...	.00	.10
3,70	6,00	28	66	753.037...	.00	.10
3,80	6,00	36	74	753.038...	.00	.10
3,90	6,00	36	74	753.039...	.00	.10
4,00	6,00	36	74	753.040...	.00	.10
4,10	6,00	36	74	753.041...	.00	.10
4,20	6,00	36	74	753.042...	.00	.10
4,30	6,00	36	74	753.043...	.00	.10
4,40	6,00	36	74	753.044...	.00	.10
4,50	6,00	36	74	753.045...	.00	.10
4,50	6,00	36	74	753.046...	.00	.10
4,65	6,00	36	74	753.465...	.00	.10
4,70	6,00	36	74	753.047...	.00	.10
4,80	6,00	44	82	753.048...	.00	.10
4,90	6,00	44	82	753.049...	.00	.10
5,00	6,00	44	82	753.050...	.00	.10
5,10	6,00	44	82	753.051...	.00	.10
5,20	6,00	44	82	753.052...	.00	.10
5,30	6,00	44	82	753.053...	.00	.10
5,40	6,00	44	82	753.054...	.00	.10

HP VHM - Spiralbohrer mit Innenkühlung 5xD

Solid carbide drill with internal coolant hole

NEW 1st CHOICE 753...

Werkzeugdaten / Tool data				Werkzeugempfehlung / Tool Recommendation	Einsatz / Capabilities
TYP N, 2, 140°, IK, HA, HB, VAROCON				INOX VA	z, 5xD

D1 m7	D2 h6	L2	L1	Artikel-Nr./ Article-No.	HA	HB
5,50	6,00	44	82	753.055...	.00	.10
5,55	6,00	44	82	753.555...	.00	.10
5,60	6,00	44	82	753.056...	.00	.10
5,70	6,00	44	82	753.057...	.00	.10
5,80	6,00	44	82	753.058...	.00	.10
5,90	6,00	44	82	753.059...	.00	.10
6,00	6,00	44	82	753.060...	.00	.10
6,10	8,00	53	91	753.061...	.00	.10
6,20	8,00	53	91	753.062...	.00	.10
6,30	8,00	53	91	753.063...	.00	.10
6,40	8,00	53	91	753.064...	.00	.10
6,50	8,00	53	91	753.065...	.00	.10
6,60	8,00	53	91	753.066...	.00	.10
6,70	8,00	53	91	753.067...	.00	.10
6,80	8,00	53	91	753.068...	.00	.10
6,90	8,00	53	91	753.069...	.00	.10
7,00	8,00	53	91	753.070...	.00	.10
7,10	8,00	53	91	753.071...	.00	.10
7,20	8,00	53	91	753.072...	.00	.10
7,30	8,00	53	91	753.073...	.00	.10
7,40	8,00	53	91	753.074...	.00	.10
7,50	8,00	53	91	753.075...	.00	.10
7,60	8,00	53	91	753.076...	.00	.10
7,70	8,00	53	91	753.077...	.00	.10
7,80	8,00	53	91	753.078...	.00	.10
7,90	8,00	53	91	753.079...	.00	.10
8,00	8,00	53	91	753.080...	.00	.10
8,10	10,00	61	103	753.081...	.00	.10
8,20	10,00	61	103	753.082...	.00	.10
8,30	10,00	61	103	753.083...	.00	.10
8,40	10,00	61	103	753.084...	.00	.10
8,50	10,00	61	103	753.085...	.00	.10
8,60	10,00	61	103	753.086...	.00	.10
8,70	10,00	61	103	753.087...	.00	.10
8,80	10,00	61	103	753.088...	.00	.10
8,90	10,00	61	103	753.089...	.00	.10
9,00	10,00	61	103	753.090...	.00	.10
9,10	10,00	61	103	753.091...	.00	.10
9,20	10,00	61	103	753.092...	.00	.10
9,30	10,00	61	103	753.093...	.00	.10
9,40	10,00	61	103	753.094...	.00	.10
9,50	10,00	61	103	753.095...	.00	.10
9,60	10,00	61	103	753.096...	.00	.10
9,70	10,00	61	103	753.097...	.00	.10
9,80	10,00	61	103	753.098...	.00	.10
9,90	10,00	61	103	753.099...	.00	.10
10,00	10,00	61	103	753.100...	.00	.10
10,10	12,00	71	118	753.101...	.00	.10
10,20	12,00	71	118	753.102...	.00	.10
10,30	12,00	71	118	753.103...	.00	.10
10,40	12,00	71	118	753.104...	.00	.10
10,50	12,00	71	118	753.105...	.00	.10
10,60	12,00	71	118	753.106...	.00	.10
10,70	12,00	71	118	753.107...	.00	.10
10,80	12,00	71	118	753.108...	.00	.10
10,90	12,00	71	118	753.109...	.00	.10

HP VHM - Spiralbohrer mit Innenkühlung 5xD

Solid carbide drill with internal coolant hole

NEW 1st CHOICE 753...

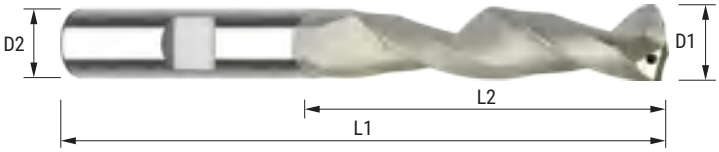
Werkzeugdaten / Tool data				Werkzeugempfehlung / Tool Recommendation			Einsatz / Capabilities
TYP N, 2, 140°, IK, HA, HB, VAROCON				INOX VA			z, 5xD
D1 m7	D2 h6	L2	L1	Artikel-Nr./ Article-No.	HA	HB	
11,00	12,00	71	118	753.110...	.00	.10	
11,10	12,00	71	118	753.111...	.00	.10	
11,20	12,00	71	118	753.112...	.00	.10	
11,30	12,00	71	118	753.113...	.00	.10	
11,40	12,00	71	118	753.114...	.00	.10	
11,50	12,00	71	118	753.115...	.00	.10	
11,55	12,00	71	118	753.1155...	.00	.10	
11,60	12,00	71	118	753.116...	.00	.10	
11,70	12,00	71	118	753.117...	.00	.10	
11,80	12,00	71	118	753.118...	.00	.10	
11,90	12,00	71	118	753.119...	.00	.10	
12,00	12,00	71	118	753.120...	.00	.10	
12,20	14,00	77	124	753.122...	.00	.10	
12,30	14,00	77	124	753.123...	.00	.10	
12,50	14,00	77	124	753.125...	.00	.10	
12,80	14,00	77	124	753.128...	.00	.10	
13,00	14,00	77	124	753.130...	.00	.10	
13,50	14,00	77	124	753.135...	.00	.10	
13,80	14,00	77	124	753.138...	.00	.10	
14,00	14,00	77	124	753.140...	.00	.10	
14,20	16,00	83	133	753.142...	.00	.10	
14,50	16,00	83	133	753.145...	.00	.10	
14,80	16,00	83	133	753.148...	.00	.10	
15,00	16,00	83	133	753.150...	.00	.10	
15,50	16,00	83	133	753.152...	.00	.10	
15,50	16,00	83	133	753.155...	.00	.10	
15,80	16,00	83	133	753.158...	.00	.10	
16,00	16,00	83	133	753.160...	.00	.10	
16,50	18,00	93	143	753.165...	.00	.10	
16,80	18,00	93	143	753.168...	.00	.10	
17,00	18,00	93	143	753.170...	.00	.10	
17,50	18,00	93	143	753.175...	.00	.10	
17,80	18,00	93	143	753.178...	.00	.10	
18,00	18,00	93	143	753.180...	.00	.10	
18,50	20,00	101	153	753.185...	.00	.10	
19,00	20,00	101	153	753.190...	.00	.10	
19,50	20,00	101	153	753.195...	.00	.10	
20,00	20,00	101	153	753.200...	.00	.10	

HP VHM - Hochleistungsspiralbohrer mit Innenkühlung 5xD

Solid carbide drill with internal coolant hole

1st CHOICE

706...



Werkzeugdaten / Tool data	Werkzeugempfehlung / Tool Recommendation	Einsatz / Capabilities
TYP W, 2, 140°, IK, HA, HB, ZrN	HPC, ALU NE, Kunststoff plastic	z, 5xD

D1 m7	D2 h6	L2	L1	Artikel-Nr./ Article-No.	HA	HB
3,00	6,00	28	66	706.030...	.00	.10
3,10	6,00	28	66	706.031...	.00	.10
3,20	6,00	28	66	706.032...	.00	.10
3,30	6,00	28	66	706.033...	.00	.10
3,40	6,00	28	66	706.034...	.00	.10
3,50	6,00	28	66	706.035...	.00	.10
3,60	6,00	28	66	706.036...	.00	.10
3,70	6,00	28	66	706.037...	.00	.10
3,80	6,00	36	74	706.038...	.00	.10
3,90	6,00	36	74	706.039...	.00	.10
4,00	6,00	36	74	706.040...	.00	.10
4,10	6,00	36	74	706.041...	.00	.10
4,20	6,00	36	74	706.042...	.00	.10
4,30	6,00	36	74	706.043...	.00	.10
4,40	6,00	36	74	706.044...	.00	.10
4,50	6,00	36	74	706.045...	.00	.10
4,60	6,00	36	74	706.046...	.00	.10
4,70	6,00	36	74	706.047...	.00	.10
4,80	6,00	44	82	706.048...	.00	.10
4,90	6,00	44	82	706.049...	.00	.10
5,00	6,00	44	82	706.050...	.00	.10
5,10	6,00	44	82	706.051...	.00	.10
5,20	6,00	44	82	706.052...	.00	.10
5,30	6,00	44	82	706.053...	.00	.10
5,40	6,00	44	82	706.054...	.00	.10
5,50	6,00	44	82	706.055...	.00	.10
5,60	6,00	44	82	706.056...	.00	.10
5,70	6,00	44	82	706.057...	.00	.10
5,80	6,00	44	82	706.058...	.00	.10
5,90	6,00	44	82	706.059...	.00	.10
6,00	6,00	44	82	706.060...	.00	.10
6,10	8,00	53	91	706.061...	.00	.10
6,20	8,00	53	91	706.062...	.00	.10
6,30	8,00	53	91	706.063...	.00	.10
6,40	8,00	53	91	706.064...	.00	.10
6,50	8,00	53	91	706.065...	.00	.10
6,60	8,00	53	91	706.066...	.00	.10
6,70	8,00	53	91	706.067...	.00	.10
6,80	8,00	53	91	706.068...	.00	.10
6,90	8,00	53	91	706.069...	.00	.10
7,00	8,00	53	91	706.070...	.00	.10
7,10	8,00	53	91	706.071...	.00	.10
7,20	8,00	53	91	706.072...	.00	.10
7,30	8,00	53	91	706.073...	.00	.10
7,40	8,00	53	91	706.074...	.00	.10
7,50	8,00	53	91	706.075...	.00	.10
7,60	8,00	53	91	706.076...	.00	.10
7,70	8,00	53	91	706.077...	.00	.10
7,80	8,00	53	91	706.078...	.00	.10
7,90	8,00	53	91	706.079...	.00	.10

HP VHM - Hochleistungsspiralbohrer mit Innenkühlung 5xD

Solid carbide drill with internal coolant hole

1st CHOICE

706...

Werkzeugdaten / Tool data: TYP W, 2, 140°, IK, HA, HB, ZrN

Werkzeugempfehlung / Tool Recommendation: HPC, ALU NE, Kunststoff plastic

Einsatz / Capabilities: z, 5xD

D1 m7	D2 h6	L2	L1	Artikel-Nr./ Article-No.	HA	HB
8,00	8,00	53	91	706.080...	.00	.10
8,10	10,00	61	103	706.081...	.00	.10
8,20	10,00	61	103	706.082...	.00	.10
8,30	10,00	61	103	706.083...	.00	.10
8,40	10,00	61	103	706.084...	.00	.10
8,50	10,00	61	103	706.085...	.00	.10
8,60	10,00	61	103	706.086...	.00	.10
8,70	10,00	61	103	706.087...	.00	.10
8,80	10,00	61	103	706.088...	.00	.10
8,90	10,00	61	103	706.089...	.00	.10
9,00	10,00	61	103	706.090...	.00	.10
9,10	10,00	61	103	706.091...	.00	.10
9,20	10,00	61	103	706.092...	.00	.10
9,30	10,00	61	103	706.093...	.00	.10
9,40	10,00	61	103	706.094...	.00	.10
9,50	10,00	61	103	706.095...	.00	.10
9,60	10,00	61	103	706.096...	.00	.10
9,70	10,00	61	103	706.097...	.00	.10
9,80	10,00	61	103	706.098...	.00	.10
9,90	10,00	61	103	706.099...	.00	.10
10,00	10,00	61	103	706.100...	.00	.10
10,10	12,00	71	118	706.101...	.00	.10
10,20	12,00	71	118	706.102...	.00	.10
10,30	12,00	71	118	706.103...	.00	.10
10,40	12,00	71	118	706.104...	.00	.10
10,50	12,00	71	118	706.105...	.00	.10
10,60	12,00	71	118	706.106...	.00	.10
10,70	12,00	71	118	706.107...	.00	.10
10,80	12,00	71	118	706.108...	.00	.10
10,90	12,00	71	118	706.109...	.00	.10
11,00	12,00	71	118	706.110...	.00	.10
11,10	12,00	71	118	706.111...	.00	.10
11,20	12,00	71	118	706.112...	.00	.10
11,30	12,00	71	118	706.113...	.00	.10
11,40	12,00	71	118	706.114...	.00	.10
11,50	12,00	71	118	706.115...	.00	.10
11,60	12,00	71	118	706.116...	.00	.10
11,70	12,00	71	118	706.117...	.00	.10
11,80	12,00	71	118	706.118...	.00	.10
11,90	12,00	71	118	706.119...	.00	.10
12,00	12,00	71	118	706.120...	.00	.10
12,20	14,00	77	124	706.122...	.00	.10
12,30	14,00	77	124	706.123...	.00	.10
12,50	14,00	77	124	706.125...	.00	.10
12,80	14,00	77	124	706.128...	.00	.10
13,00	14,00	77	124	706.130...	.00	.10
13,50	14,00	77	124	706.135...	.00	.10
13,80	14,00	77	124	706.138...	.00	.10
14,00	14,00	77	124	706.140...	.00	.10
14,50	16,00	83	133	706.145...	.00	.10
14,80	16,00	83	133	706.148...	.00	.10
15,00	16,00	83	133	706.150...	.00	.10
15,50	16,00	83	133	706.155...	.00	.10
15,80	16,00	83	133	706.158...	.00	.10
16,00	16,00	83	133	706.160...	.00	.10
16,50	18,00	93	143	706.165...	.00	.10

HP VHM - Hochleistungsspiralbohrer mit Innenkühlung 5xD

Solid carbide drill with internal coolant hole

1st CHOICE

706...

Werkzeugdaten / Tool data: TYP W, 2, 140°, IK, HA, HB, ZrN

Werkzeugempfehlung / Tool Recommendation: HPC, ALU NE, Kunststoff plastic

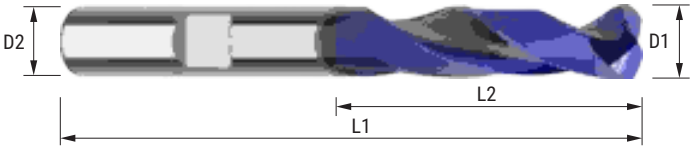
Einsatz / Capabilities: z, 5xD

D1 m7	D2 h6	L2	L1	Artikel-Nr./ Article-No.	HA	HB
16,80	18,00	93	143	706.168...	.00	.10
17,00	18,00	93	143	706.170...	.00	.10
17,50	18,00	93	143	706.175...	.00	.10
17,80	18,00	93	143	706.178...	.00	.10
18,00	18,00	93	143	706.180...	.00	.10
18,50	20,00	101	153	706.185...	.00	.10
19,00	20,00	101	153	706.190...	.00	.10
19,50	20,00	101	153	706.195...	.00	.10
20,00	20,00	101	153	706.200...	.00	.10

HP VHM - Hochleistungsbohrer 3xD

Solid carbide high performance drill

810...



Werkzeugdaten / Tool data: TYP H, 2, 135°, o.IK, HA, HB, Norm, naco blue

Werkzeugempfehlung / Tool Recommendation: Stahl steel, HRC 45-65

Einsatz / Capabilities: z, 3xD

D1 m7	D2 h6	L2	L1	Artikel-Nr./ Article-No.	HA	HB
2,80	6,00	20	62	810.028...	.00	.10
3,00	6,00	20	62	810.030...	.00	.10
3,30	6,00	20	62	810.033...	.00	.10
3,40	6,00	20	62	810.034...	.00	.10
3,50	6,00	20	62	810.035...	.00	.10
3,80	6,00	24	66	810.038...	.00	.10
4,00	6,00	24	66	810.040...	.00	.10
4,20	6,00	24	66	810.042...	.00	.10
4,30	6,00	24	66	810.043...	.00	.10
4,50	6,00	24	66	810.045...	.00	.10
4,80	6,00	28	66	810.048...	.00	.10
5,00	6,00	28	66	810.050...	.00	.10
5,20	6,00	28	66	810.052...	.00	.10
5,50	6,00	28	66	810.055...	.00	.10
5,80	6,00	28	66	810.058...	.00	.10
6,00	6,00	28	66	810.060...	.00	.10
6,50	8,00	34	79	810.065...	.00	.10
6,80	8,00	34	79	810.068...	.00	.10
7,00	8,00	34	79	810.070...	.00	.10
7,20	8,00	41	79	810.072...	.00	.10
7,80	8,00	41	79	810.078...	.00	.10
8,00	8,00	41	79	810.080...	.00	.10
8,50	10,00	47	89	810.085...	.00	.10
8,70	10,00	47	89	810.087...	.00	.10
8,80	10,00	47	89	810.088...	.00	.10
9,00	10,00	47	89	810.090...	.00	.10
9,80	10,00	47	89	810.098...	.00	.10
10,00	10,00	47	89	810.100...	.00	.10
10,20	12,00	55	102	810.102...	.00	.10
10,30	12,00	55	102	810.103...	.00	.10
10,50	12,00	55	102	810.105...	.00	.10
10,80	12,00	55	102	810.108...	.00	.10
11,00	12,00	55	102	810.110...	.00	.10
11,80	12,00	55	102	810.118...	.00	.10
12,00	12,00	55	102	810.120...	.00	.10
12,50	14,00	60	107	810.125...	.00	.10
12,80	14,00	60	107	810.128...	.00	.10
13,00	14,00	60	107	810.130...	.00	.10
13,80	14,00	60	107	810.138...	.00	.10
14,00	14,00	60	107	810.140...	.00	.10
14,80	16,00	65	115	810.148...	.00	.10
15,00	16,00	65	115	810.150...	.00	.10
15,80	16,00	65	115	810.158...	.00	.10
16,00	16,00	65	115	810.160...	.00	.10

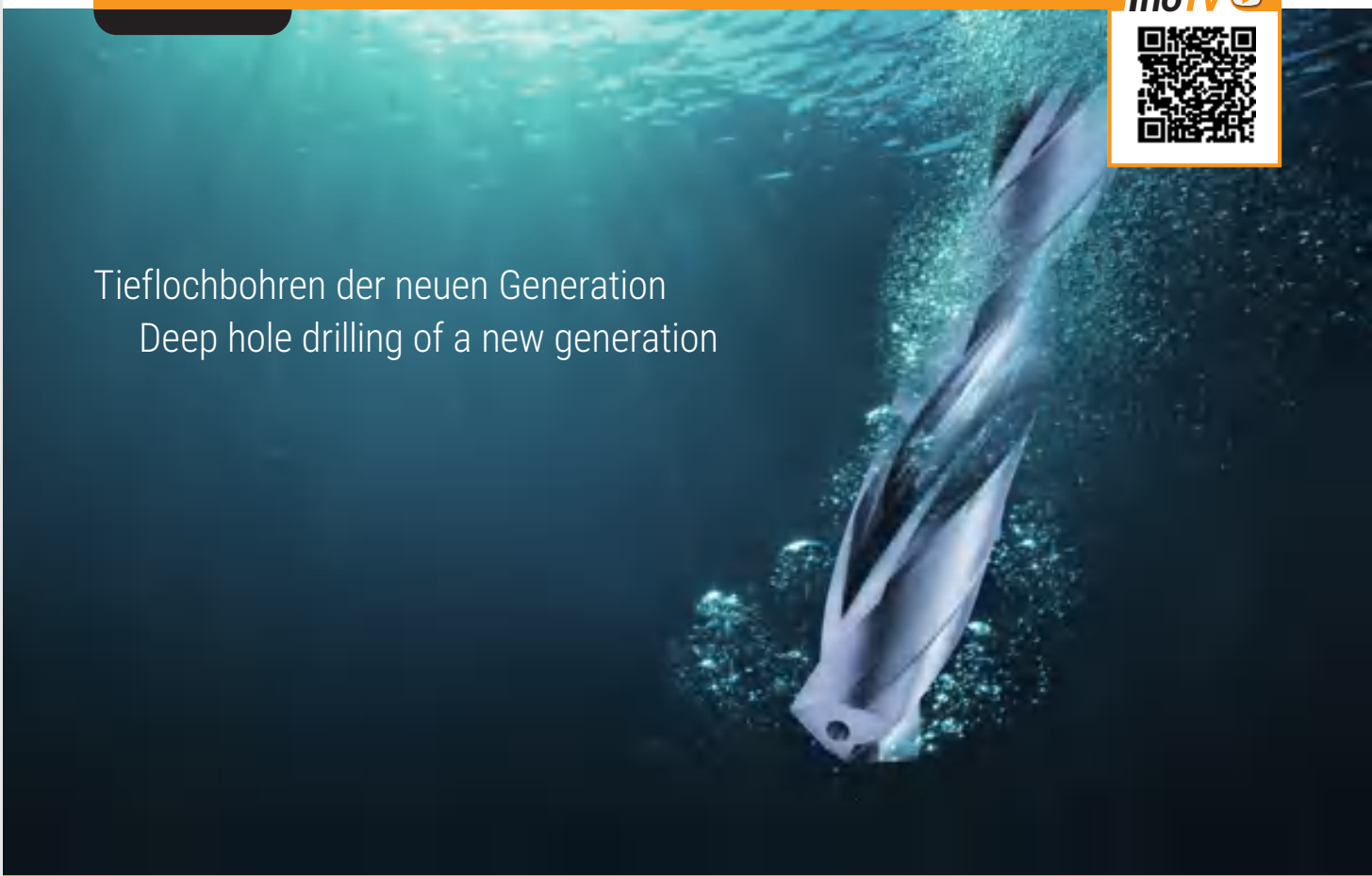
InovaTools **DEEPMAX**

Mit dem Inovatools DEEPMAX und seiner optimierten Schneidkantenpräparation, speziellen Nutform für sichere Spanabfuhr, definierten Spanraumgeometrie mit Kernverlauf und maximalen Standzeit, garantieren wir für Spitzenqualität! Die neu entwickelte Ausspitzung sorgt für idealen Spanbruch und erzielt niedrige Schnittkräfte und ruhigen Lauf.

With the Inovatools DEEPMAX and its optimized cutting edge preparation, special flute design for safe chip removal, defined flute geometry with core profile and maximum tool life, we guarantee top quality! The newly developed drill tip ensures ideal chip breaking and achieves low cutting forces and a smooth run.

Querschnitt: Spanraum
Cross section: chipping flute

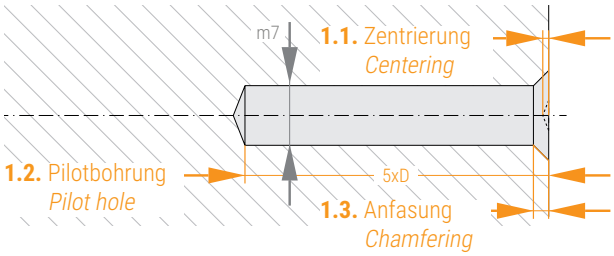
INO **DEEP HOLE DRILLING**

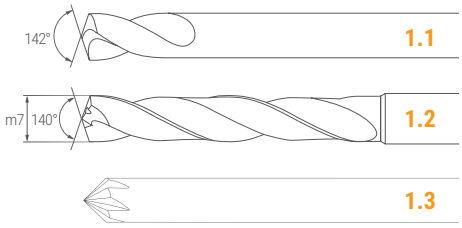


Anleitung Tieflochbohren / *Deep hole drilling instruction*

InoTV

1. Pilotbohrung / *Pilot hole*





Art.-Nr.: 814/830

Art.-Nr.: 705/505

Art.-Nr.: 790/903

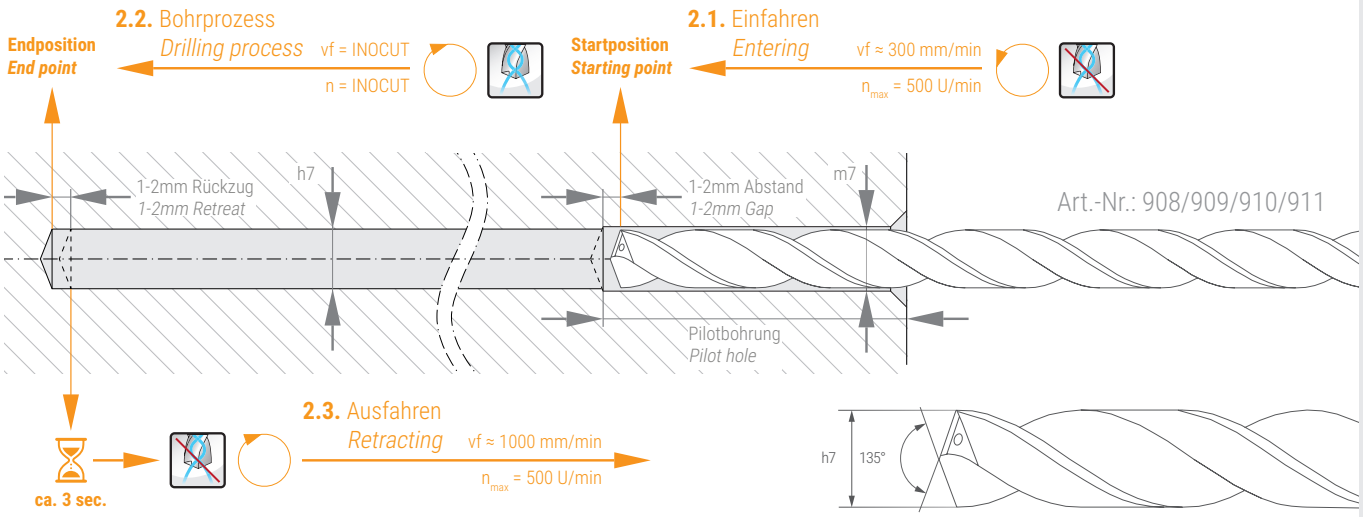
1.4 Die Pilotbohrung muss vor dem Tieflochbohren von Spänen komplett befreit werden

The pilot hole must be completely cleared of chips before deep hole drilling

2. Tieflochbohrung / *Deep hole*

Wir empfehlen den Prozess mit unseren INOCUT Schnittdaten ohne Entspanen (Lüften) durchzuführen.
Bis 30xD ist generell kein Rückzug notwendig. Falls das Entspanen trotzdem erforderlich ist, dann empfiehlt sich ein Rückzugsweg bis 3xD. Bei Kreuzbohrungen oder Austritten muss der Vorschub um 50% reduziert werden.

We recommend using our INOCUT cutting data to carry out the process without chip removing process (retreated).
Up to 30xD, retreat is generally not necessary. If you still need to retreat, then we recommend up to 3xD.
In the case of cross holes or exits, the feed must be reduced by 50%.



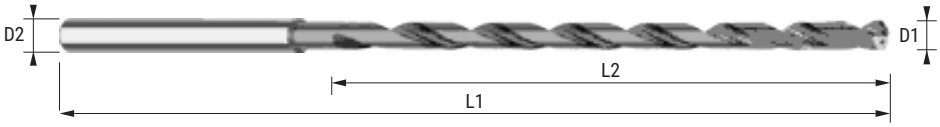
Art.-Nr.: 908/909/910/911

DEEPMAX Tieflochbohrer / Deep hole drill

HP VHM - Tieflochbohrer 15xD **DEEPMAX**

Solid carbide deep hole drill

NEW 1st CHOICE 908...



Werkzeugdaten / Tool data	Werkzeugempfehlung / Tool Recommendation	Einsatz / Capabilities
TYP N, 2, h7, 135°, 4, IK, HA, Norm, VAROCON	Stahl steel	z, 15xD

D1 h7	D2 h6	L2	L1	Artikel-Nr./ Article-No.
1,00	3,00	18,20	75	908.010.00
1,10	3,00	20,20	75	908.011.00
1,20	3,00	24,20	75	908.012.00
1,30	3,00	24,20	75	908.013.00
1,40	3,00	27,20	75	908.014.00
1,50	3,00	27,20	75	908.015.00
1,60	3,00	30,20	75	908.016.00
1,70	3,00	30,20	75	908.017.00
1,80	3,00	35,20	75	908.018.00
1,90	3,00	35,20	75	908.019.00
2,00	4,00	35,50	80	908.020.00
2,10	4,00	40,50	80	908.021.00
2,20	4,00	40,50	80	908.022.00
2,30	4,00	40,50	80	908.023.00
2,40	4,00	45,50	90	908.024.00
2,50	4,00	45,50	90	908.025.00
2,60	4,00	48,50	90	908.026.00
2,70	4,00	48,50	90	908.027.00
2,80	4,00	50,50	90	908.028.00
2,90	4,00	50,50	90	908.029.00
3,00	6,00	55,50	100	908.030.00
3,10	6,00	55,50	100	908.031.00
3,20	6,00	60,50	100	908.032.00
3,30	6,00	60,50	100	908.033.00
3,40	6,00	60,50	100	908.034.00
3,50	6,00	65,50	108	908.035.00
3,60	6,00	65,50	108	908.036.00
3,70	6,00	70,50	108	908.037.00
3,80	6,00	70,50	108	908.038.00
3,90	6,00	70,50	108	908.039.00
4,00	6,00	75,50	120	908.040.00
4,10	6,00	75,50	120	908.041.00
4,20	6,00	75,50	120	908.042.00
4,30	6,00	80,50	120	908.043.00
4,40	6,00	80,50	120	908.044.00
4,50	6,00	80,50	120	908.045.00
4,60	6,00	85,50	125	908.046.00
4,70	6,00	85,50	125	908.047.00
4,80	6,00	90,50	140	908.048.00
4,90	6,00	90,50	140	908.049.00
5,00	6,00	90,50	140	908.050.00
5,10	6,00	95,50	140	908.051.00
5,20	6,00	95,50	140	908.052.00
5,30	6,00	95,50	140	908.053.00
5,40	6,00	95,50	140	908.054.00
5,50	6,00	100,50	150	908.055.00
5,60	6,00	100,50	150	908.056.00
5,70	6,00	100,50	150	908.057.00
5,80	6,00	100,50	150	908.058.00
5,90	6,00	100,50	150	908.059.00

HP

VHM - Tieflochbohrer 15xD **DEEPMAX**

Solid carbide deep hole drill

NEW 1st CHOICE 908...

Werkzeugdaten / Tool data	Werkzeugempfehlung / Tool Recommendation	Einsatz / Capabilities
TYP N, 2, h7, 135°, 4, IK, HA, Norm, VAROCON	Stahl steel	z, 15xD

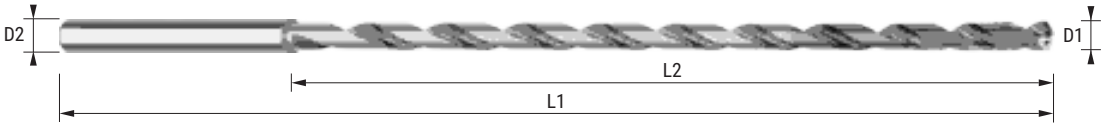
D1 h7	D2 h6	L2	L1	Artikel-Nr./ Article-No.
6,00	6,00	100,50	150	908.060.00
6,10	8,00	108,00	148	908.061.00
6,20	8,00	108,00	148	908.062.00
6,30	8,00	108,00	148	908.063.00
6,40	8,00	108,00	148	908.064.00
6,50	8,00	121,00	160	908.065.00
6,60	8,00	121,00	160	908.066.00
6,70	8,00	131,00	170	908.067.00
6,80	8,00	131,00	170	908.068.00
6,90	8,00	131,00	170	908.069.00
7,00	8,00	131,00	170	908.070.00
7,50	8,00	131,00	170	908.075.00
7,80	8,00	141,00	180	908.078.00
8,00	8,00	141,00	180	908.080.00
8,50	10,00	155,00	198	908.085.00
8,80	10,00	165,00	208	908.088.00
9,00	10,00	165,00	208	908.090.00
9,50	10,00	165,00	208	908.095.00
9,80	10,00	165,00	208	908.098.00
10,00	10,00	175,00	218	908.100.00
10,20	12,00	187,00	235	908.102.00
10,50	12,00	197,00	245	908.105.00
10,80	12,00	197,00	245	908.108.00
11,00	12,00	197,00	245	908.110.00
11,20	12,00	197,00	245	908.112.00
11,50	12,00	197,00	245	908.115.00
11,80	12,00	207,00	255	908.118.00
12,00	12,00	207,00	255	908.120.00

HP

VHM - Tieflochbohrer 20xD **DEEPMAX**

Solid carbide deep hole drill

NEW 1st CHOICE 909...



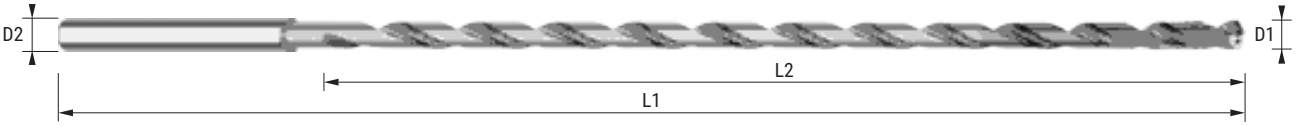
Werkzeugdaten / Tool data	Werkzeugempfehlung / Tool Recommendation	Einsatz / Capabilities
TYP N, 2, h7, 135°, 4, K, HA, Norm, VAROCON	Stahl steel	z, 20xD

D1 h7	D2 h6	L2	L1	Artikel-Nr./ Article-No.
2,00	4,00	45,50	95	909.020.00
2,10	4,00	50,50	95	909.021.00
2,20	4,00	50,50	95	909.022.00
2,30	4,00	55,50	95	909.023.00
2,40	4,00	55,50	95	909.024.00
2,50	4,00	60,50	108	909.025.00
2,60	4,00	60,50	108	909.026.00
2,70	4,00	65,50	108	909.027.00
2,80	4,00	65,50	108	909.028.00
2,90	4,00	68,50	112	909.029.00
3,00	6,00	68,50	112	909.030.00
3,20	6,00	75,50	120	909.032.00
3,30	6,00	75,50	120	909.033.00
3,50	6,00	80,50	130	909.035.00
3,80	6,00	90,50	140	909.038.00
4,00	6,00	95,50	140	909.040.00
4,20	6,00	95,50	140	909.042.00
4,50	6,00	110,50	160	909.045.00
4,60	6,00	110,50	160	909.046.00
4,80	6,00	115,50	160	909.048.00
5,00	6,00	115,50	160	909.050.00
5,50	6,00	140,50	185	909.055.00
5,80	6,00	140,50	185	909.058.00
6,00	6,00	140,50	185	909.060.00
6,50	8,00	150,00	190	909.065.00
6,80	8,00	160,00	200	909.068.00
7,00	8,00	170,00	210	909.070.00
7,50	8,00	170,00	210	909.075.00
7,80	8,00	190,00	230	909.078.00
8,00	8,00	190,00	230	909.080.00
8,50	10,00	196,00	240	909.085.00
8,80	10,00	216,00	260	909.088.00
9,00	10,00	216,00	260	909.090.00
9,80	10,00	236,00	280	909.098.00
10,00	10,00	236,00	280	909.100.00
10,20	12,00	241,00	290	909.102.00
10,80	12,00	266,00	315	909.108.00
11,80	12,00	266,00	315	909.118.00
12,00	12,00	266,00	315	909.120.00

HP VHM - Tieflochbohrer 25xD **DEEPMAX**

Solid carbide deep hole drill

NEW 1st CHOICE **910...**



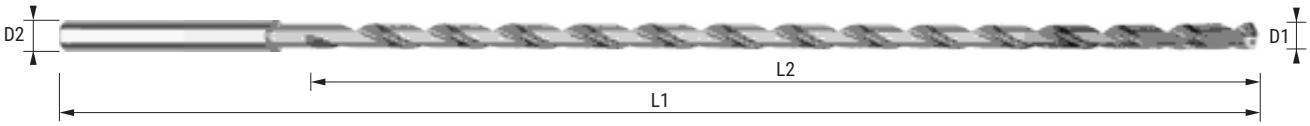
Werkzeugdaten / Tool data	Werkzeugempfehlung / Tool Recommendation	Einsatz / Capabilities
TYP N, 2, h7, 135°, 4, K, HA, Norm, VAROCON	Stahl steel	z, 25xD

D1 h7	D2 h6	L2	L1	Artikel-Nr./ Article-No.
3,00	6,00	85,50	130	910.030.00
3,20	6,00	95,50	140	910.032.00
3,30	6,00	95,50	140	910.033.00
3,50	6,00	100,50	150	910.035.00
3,80	6,00	105,50	150	910.038.00
4,00	6,00	110,50	160	910.040.00
4,20	6,00	120,50	170	910.042.00
4,50	6,00	130,50	180	910.045.00
4,80	6,00	140,50	190	910.048.00
5,00	6,00	140,50	190	910.050.00
5,50	6,00	160,50	210	910.055.00
5,80	6,00	160,50	210	910.058.00
6,00	6,00	170,50	220	910.060.00
6,50	8,00	191,00	230	910.065.00
6,80	8,00	191,00	230	910.068.00
7,00	8,00	201,00	240	910.070.00
7,50	8,00	214,00	250	910.075.00
7,80	8,00	224,00	260	910.078.00
8,00	8,00	224,00	260	910.080.00
8,50	10,00	237,00	280	910.085.00
8,80	10,00	247,00	290	910.088.00
9,00	10,00	247,00	290	910.090.00
9,50	10,00	267,00	310	910.095.00
9,80	10,00	267,00	310	910.098.00
10,00	10,00	267,00	310	910.100.00
10,20	12,00	292,00	340	910.102.00
10,80	12,00	302,00	350	910.108.00
11,80	12,00	327,00	375	910.118.00
12,00	12,00	327,00	375	910.120.00

HP VHM - Tieflochbohrer 30xD **DEEPMAX**

Solid carbide deep hole drill

NEW 1st CHOICE 911...



Werkzeugdaten / Tool data	Werkzeugempfehlung / Tool Recommendation	Einsatz / Capabilities
TYP N, 2, h7, 135°, 4, K, HA, Norm, VAROCON	Stahl steel	z, 30xD

D1 h7	D2 h6	L2	L1	Artikel-Nr./ Article-No.
2,00	4,00	65,50	105	911.020.00
2,20	4,00	75,50	115	911.022.00
2,30	4,00	75,50	115	911.023.00
2,40	4,00	85,50	130	911.024.00
2,50	4,00	85,50	130	911.025.00
2,70	4,00	95,50	140	911.027.00
2,80	4,00	95,50	140	911.028.00
2,90	4,00	95,50	140	911.029.00
3,00	6,00	105,50	150	911.030.00
3,20	6,00	105,50	150	911.032.00
3,30	6,00	115,50	160	911.033.00
3,50	6,00	115,50	160	911.035.00
3,80	6,00	125,50	175	911.038.00
4,00	6,00	135,50	185	911.040.00
4,20	6,00	135,50	185	911.042.00
4,50	6,00	145,50	195	911.045.00
4,60	6,00	155,50	205	911.046.00
4,80	6,00	165,50	210	911.048.00
5,00	6,00	165,50	210	911.050.00
5,50	6,00	180,50	240	911.055.00
5,80	6,00	190,50	240	911.058.00
6,00	6,00	190,50	240	911.060.00
6,50	8,00	222,00	260	911.065.00
6,80	8,00	222,00	260	911.068.00
7,00	8,00	232,00	270	911.070.00
7,50	8,00	252,00	290	911.075.00
7,80	8,00	262,00	300	911.078.00
8,00	8,00	267,00	305	911.080.00
8,50	10,00	278,00	320	911.085.00
8,80	10,00	298,00	340	911.088.00
9,00	10,00	298,00	340	911.090.00
9,50	10,00	318,00	360	911.095.00
9,80	10,00	338,00	380	911.098.00
10,00	10,00	338,00	380	911.100.00

UNI

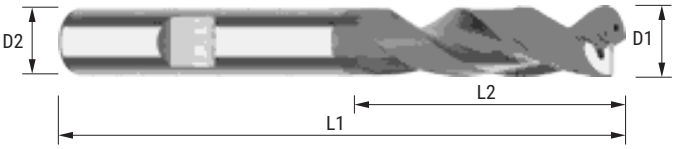
HP

VHM - Flachbohrer mit Innenkühlung 3xD

Solid carbide flat drill with internal coolant hole

NEW

817...



Werkzeugdaten / Tool data | Werkzeugempfehlung / Tool Recommendation | Einsatz / Capabilities

TYP N | 2 | 180° | 4 | IK | HA | HB | Norm | TIALN

Universal

z | 3xD | < Grattbildung < flashing

D1 m7	D2 h6	L2	L1	Artikel-Nr./ Article-No.	HA	HB
3,00	6,00	20	62	817.030...	.00	.10
3,10	6,00	20	62	817.031...	.00	.10
3,20	6,00	20	62	817.032...	.00	.10
3,30	6,00	20	62	817.033...	.00	.10
3,40	6,00	20	62	817.034...	.00	.10
3,50	6,00	20	62	817.035...	.00	.10
3,60	6,00	20	62	817.036...	.00	.10
3,70	6,00	20	62	817.037...	.00	.10
3,80	6,00	24	66	817.038...	.00	.10
3,90	6,00	24	66	817.039...	.00	.10
4,00	6,00	24	66	817.040...	.00	.10
4,10	6,00	24	66	817.041...	.00	.10
4,20	6,00	24	66	817.042...	.00	.10
4,30	6,00	24	66	817.043...	.00	.10
4,40	6,00	24	66	817.044...	.00	.10
4,50	6,00	24	66	817.045...	.00	.10
4,60	6,00	24	66	817.046...	.00	.10
4,65	6,00	24	66	817.465...	.00	.10
4,70	6,00	24	66	817.047...	.00	.10
4,80	6,00	28	66	817.048...	.00	.10
4,90	6,00	28	66	817.049...	.00	.10
5,00	6,00	28	66	817.050...	.00	.10
5,10	6,00	28	66	817.051...	.00	.10
5,20	6,00	28	66	817.052...	.00	.10
5,30	6,00	28	66	817.053...	.00	.10
5,40	6,00	28	66	817.054...	.00	.10
5,50	6,00	28	66	817.055...	.00	.10
5,55	6,00	28	66	817.555...	.00	.10
5,60	6,00	28	66	817.056...	.00	.10
5,70	6,00	28	66	817.057...	.00	.10
5,80	6,00	28	66	817.058...	.00	.10
5,90	6,00	28	66	817.059...	.00	.10
6,00	6,00	28	66	817.060...	.00	.10
6,10	8,00	34	79	817.061...	.00	.10
6,20	8,00	34	79	817.062...	.00	.10
6,30	8,00	34	79	817.063...	.00	.10
6,40	8,00	34	79	817.064...	.00	.10
6,50	8,00	34	79	817.065...	.00	.10
6,60	8,00	34	79	817.066...	.00	.10
6,70	8,00	34	79	817.067...	.00	.10
6,80	8,00	34	79	817.068...	.00	.10
6,90	8,00	34	79	817.069...	.00	.10
7,00	8,00	34	79	817.070...	.00	.10
7,10	8,00	41	79	817.071...	.00	.10
7,20	8,00	41	79	817.072...	.00	.10
7,30	8,00	41	79	817.073...	.00	.10
7,40	8,00	41	79	817.074...	.00	.10
7,50	8,00	41	79	817.075...	.00	.10
7,60	8,00	41	79	817.076...	.00	.10
7,70	8,00	41	79	817.077...	.00	.10

UNI

HP

VHM - Flachbohrer mit Innenkühlung 3xD

Solid carbide flat drill with internal coolant hole

NEW 817...

Werkzeugdaten / Tool data: TYP N, 2, 180°, 4, IK, HA, HB, Norm, TIALN

Werkzeugempfehlung / Tool Recommendation: Universal

Einsatz / Capabilities: z, 3xD, < Gratbildung < flashing

D1 m7	D2 h6	L2	L1	Artikel-Nr./ Article-No.	HA	HB
7,80	8,00	41	79	817.078...	.00	.10
7,90	8,00	41	79	817.079...	.00	.10
8,00	8,00	41	79	817.080...	.00	.10
8,10	10,00	47	89	817.081...	.00	.10
8,20	10,00	47	89	817.082...	.00	.10
8,30	10,00	47	89	817.083...	.00	.10
8,40	10,00	47	89	817.084...	.00	.10
8,50	10,00	47	89	817.085...	.00	.10
8,60	10,00	47	89	817.086...	.00	.10
8,70	10,00	47	89	817.087...	.00	.10
8,80	10,00	47	89	817.088...	.00	.10
8,90	10,00	47	89	817.089...	.00	.10
9,00	10,00	47	89	817.090...	.00	.10
9,10	10,00	47	89	817.091...	.00	.10
9,20	10,00	47	89	817.092...	.00	.10
9,30	10,00	47	89	817.093...	.00	.10
9,40	10,00	47	89	817.094...	.00	.10
9,50	10,00	47	89	817.095...	.00	.10
9,60	10,00	47	89	817.096...	.00	.10
9,70	10,00	47	89	817.097...	.00	.10
9,80	10,00	47	89	817.098...	.00	.10
9,90	10,00	47	89	817.099...	.00	.10
10,00	10,00	47	89	817.100...	.00	.10
10,10	12,00	55	102	817.101...	.00	.10
10,20	12,00	55	102	817.102...	.00	.10
10,30	12,00	55	102	817.103...	.00	.10
10,40	12,00	55	102	817.104...	.00	.10
10,50	12,00	55	102	817.105...	.00	.10
10,60	12,00	55	102	817.106...	.00	.10
10,70	12,00	55	102	817.107...	.00	.10
10,80	12,00	55	102	817.108...	.00	.10
10,90	12,00	55	102	817.109...	.00	.10
11,00	12,00	55	102	817.110...	.00	.10
11,10	12,00	55	102	817.111...	.00	.10
11,20	12,00	55	102	817.112...	.00	.10
11,30	12,00	55	102	817.113...	.00	.10
11,40	12,00	55	102	817.114...	.00	.10
11,50	12,00	55	102	817.115...	.00	.10
11,60	12,00	55	102	817.116...	.00	.10
11,70	12,00	55	102	817.117...	.00	.10
11,80	12,00	55	102	817.118...	.00	.10
11,90	12,00	55	102	817.119...	.00	.10
12,00	12,00	55	102	817.120...	.00	.10
12,50	14,00	60	107	817.125...	.00	.10
12,80	14,00	60	107	817.128...	.00	.10
13,00	14,00	60	107	817.130...	.00	.10
13,50	14,00	60	107	817.135...	.00	.10
13,80	14,00	60	107	817.138...	.00	.10
14,00	14,00	60	107	817.140...	.00	.10
14,50	16,00	65	115	817.145...	.00	.10
14,80	16,00	65	115	817.148...	.00	.10
15,00	16,00	65	115	817.150...	.00	.10
15,50	16,00	65	115	817.155...	.00	.10
15,80	16,00	65	115	817.158...	.00	.10
16,00	16,00	65	115	817.160...	.00	.10
16,50	18,00	73	123	817.165...	.00	.10

HP VHM - Flachbohrer mit Innenkühlung 3xD
Solid carbide flat drill with internal coolant hole

NEW **817...**

Werkzeugdaten / Tool data: TYP N, 2, 180°, 4, IK, HA, HB, Norm, TIALN

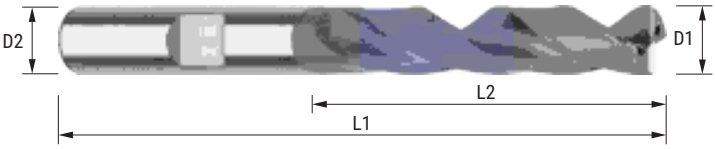
Werkzeugempfehlung / Tool Recommendation: Universal

Einsatz / Capabilities: z, 3xD, < Grathbildung < flashing

D1 m7	D2 h6	L2	L1	Artikel-Nr./ Article-No.	HA	HB
16,80	18,00	73	123	817.168...	.00	.10
17,00	18,00	73	123	817.170...	.00	.10
17,50	18,00	73	123	817.175...	.00	.10
17,80	18,00	73	123	817.178...	.00	.10
18,00	18,00	73	123	817.180...	.00	.10
18,50	20,00	79	131	817.185...	.00	.10
18,80	20,00	79	131	817.188...	.00	.10
19,00	20,00	79	131	817.190...	.00	.10
19,50	20,00	79	131	817.195...	.00	.10
19,80	20,00	79	131	817.198...	.00	.10
20,00	20,00	79	131	817.200...	.00	.10

HP VHM - Flachbohrer mit Innenkühlung 5xD
Solid carbide flat drill with internal coolant hole

818...



Werkzeugdaten / Tool data: TYP N, 2, 180°, 4, IK, HA, HB, Norm, TIALN

Werkzeugempfehlung / Tool Recommendation: Universal

Einsatz / Capabilities: z, 5xD, < Grathbildung < flashing

D1 m7	D2 h6	L2	L1	EF	Artikel-Nr./ Article-No.	HA	HB
3,00	6,00	28	66	0,15	818.030...	.00	.10
3,10	6,00	28	66	0,16	818.031...	.00	.10
3,20	6,00	28	66	0,16	818.032...	.00	.10
3,30	6,00	28	66	0,17	818.033...	.00	.10
3,40	6,00	28	66	0,17	818.034...	.00	.10
3,50	6,00	28	66	0,18	818.035...	.00	.10
3,60	6,00	28	66	0,18	818.036...	.00	.10
3,70	6,00	28	66	0,19	818.037...	.00	.10
3,80	6,00	36	74	0,19	818.038...	.00	.10
3,90	6,00	36	74	0,20	818.039...	.00	.10
4,00	6,00	36	74	0,20	818.040...	.00	.10
4,10	6,00	36	74	0,21	818.041...	.00	.10
4,20	6,00	36	74	0,21	818.042...	.00	.10
4,30	6,00	36	74	0,22	818.043...	.00	.10
4,40	6,00	36	74	0,22	818.044...	.00	.10
4,50	6,00	36	74	0,23	818.045...	.00	.10

UNI

HP VHM - Flachbohrer mit Innenkühlung 5xD

Solid carbide flat drill with internal coolant hole

818...

Werkzeugdaten / Tool data: TYP N, 2, 180°, 4, IK, HA, HB, Norm, TIALN

Werkzeugempfehlung / Tool Recommendation: Universal

Einsatz / Capabilities: z, 5xD, < Gratbildung < flashing

D1 m7	D2 h6	L2	L1	EF	Artikel-Nr./ Article-No.	HA	HB
4,60	6,00	36	74	0,23	818.046...	.00	.10
4,65	6,00	36	74	0,23	818.0465...	.00	.10
4,70	6,00	36	74	0,24	818.047...	.00	.10
4,80	6,00	44	82	0,24	818.048...	.00	.10
4,90	6,00	44	82	0,25	818.049...	.00	.10
5,00	6,00	44	82	0,25	818.050...	.00	.10
5,10	6,00	44	82	0,26	818.051...	.00	.10
5,20	6,00	44	82	0,26	818.052...	.00	.10
5,30	6,00	44	82	0,27	818.053...	.00	.10
5,40	6,00	44	82	0,27	818.054...	.00	.10
5,50	6,00	44	82	0,28	818.055...	.00	.10
5,55	6,00	44	82	0,28	818.0555...	.00	.10
5,60	6,00	44	82	0,28	818.056...	.00	.10
5,70	6,00	44	82	0,29	818.057...	.00	.10
5,80	6,00	44	82	0,29	818.058...	.00	.10
5,90	6,00	44	82	0,30	818.059...	.00	.10
6,00	6,00	44	82	0,30	818.060...	.00	.10
6,10	8,00	53	91	0,31	818.061...	.00	.10
6,20	8,00	53	91	0,31	818.062...	.00	.10
6,30	8,00	53	91	0,32	818.063...	.00	.10
6,40	8,00	53	91	0,32	818.064...	.00	.10
6,50	8,00	53	91	0,33	818.065...	.00	.10
6,60	8,00	53	91	0,33	818.066...	.00	.10
6,70	8,00	53	91	0,34	818.067...	.00	.10
6,80	8,00	53	91	0,34	818.068...	.00	.10
6,90	8,00	53	91	0,35	818.069...	.00	.10
7,00	8,00	53	91	0,35	818.070...	.00	.10
7,10	8,00	53	91	0,36	818.071...	.00	.10
7,20	8,00	53	91	0,36	818.072...	.00	.10
7,30	8,00	53	91	0,37	818.073...	.00	.10
7,40	8,00	53	91	0,37	818.074...	.00	.10
7,50	8,00	53	91	0,38	818.075...	.00	.10
7,60	8,00	53	91	0,38	818.076...	.00	.10
7,70	8,00	53	91	0,39	818.077...	.00	.10
7,80	8,00	53	91	0,39	818.078...	.00	.10
7,90	8,00	53	91	0,40	818.079...	.00	.10
8,00	8,00	53	91	0,40	818.080...	.00	.10
8,10	10,00	61	103	0,41	818.081...	.00	.10
8,20	10,00	61	103	0,41	818.082...	.00	.10
8,30	10,00	61	103	0,42	818.083...	.00	.10
8,40	10,00	61	103	0,42	818.084...	.00	.10
8,50	10,00	61	103	0,43	818.085...	.00	.10
8,60	10,00	61	103	0,43	818.086...	.00	.10
8,70	10,00	61	103	0,44	818.087...	.00	.10
8,80	10,00	61	103	0,44	818.088...	.00	.10
8,90	10,00	61	103	0,45	818.089...	.00	.10
9,00	10,00	61	103	0,45	818.090...	.00	.10
9,10	10,00	61	103	0,46	818.091...	.00	.10
9,20	10,00	61	103	0,46	818.092...	.00	.10
9,30	10,00	61	103	0,47	818.093...	.00	.10
9,40	10,00	61	103	0,47	818.094...	.00	.10
9,50	10,00	61	103	0,48	818.095...	.00	.10
9,60	10,00	61	103	0,48	818.096...	.00	.10
9,70	10,00	61	103	0,49	818.097...	.00	.10
9,80	10,00	61	103	0,49	818.098...	.00	.10
9,90	10,00	61	103	0,50	818.099...	.00	.10

HP VHM - Flachbohrer mit Innenkühlung 5xD

Solid carbide flat drill with internal coolant hole

818...

Werkzeugdaten / Tool data: TYP N, 2, 180°, 4, IK, HA, HB, Norm, TIALN

Werkzeugempfehlung / Tool Recommendation: Universal

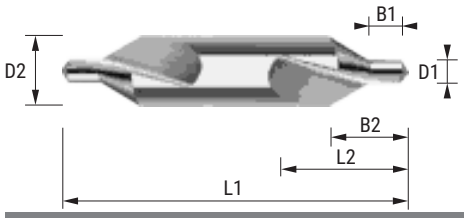
Einsatz / Capabilities: z, 5xD, < Grathbildung < flashing

D1 m7	D2 h6	L2	L1	EF	Artikel-Nr./ Article-No.	HA	HB
10,00	10,00	61	103	0,50	818.100...	.00	.10
10,10	12,00	69	116	0,51	818.101...	.00	.10
10,20	12,00	69	116	0,51	818.102...	.00	.10
10,30	12,00	69	116	0,52	818.103...	.00	.10
10,40	12,00	69	116	0,52	818.104...	.00	.10
10,50	12,00	69	116	0,53	818.105...	.00	.10
10,60	12,00	69	116	0,53	818.106...	.00	.10
10,70	12,00	69	116	0,54	818.107...	.00	.10
10,80	12,00	69	116	0,54	818.108...	.00	.10
10,90	12,00	69	116	0,55	818.109...	.00	.10
11,00	12,00	69	116	0,55	818.110...	.00	.10
11,10	12,00	69	116	0,56	818.111...	.00	.10
11,20	12,00	69	116	0,56	818.112...	.00	.10
11,30	12,00	69	116	0,57	818.113...	.00	.10
11,40	12,00	69	116	0,57	818.114...	.00	.10
11,50	12,00	69	116	0,58	818.115...	.00	.10
11,60	12,00	69	116	0,58	818.116...	.00	.10
11,70	12,00	69	116	0,59	818.117...	.00	.10
11,80	12,00	69	116	0,59	818.118...	.00	.10
11,90	12,00	69	116	0,60	818.119...	.00	.10
12,00	12,00	69	116	0,60	818.120...	.00	.10
12,50	14,00	75	122	0,63	818.125...	.00	.10
12,80	14,00	75	122	0,64	818.128...	.00	.10
13,00	14,00	75	122	0,65	818.130...	.00	.10
13,50	14,00	75	122	0,68	818.135...	.00	.10
13,80	14,00	75	122	0,69	818.138...	.00	.10
14,00	14,00	75	122	0,70	818.140...	.00	.10
14,50	16,00	81	131	0,73	818.145...	.00	.10
14,80	16,00	81	131	0,74	818.148...	.00	.10
15,00	16,00	81	131	0,75	818.150...	.00	.10
15,50	16,00	81	131	0,78	818.155...	.00	.10
15,80	16,00	81	131	0,79	818.158...	.00	.10
16,00	16,00	81	131	0,80	818.160...	.00	.10
16,50	18,00	91	141	0,83	818.165...	.00	.10
16,80	18,00	91	141	0,84	818.168...	.00	.10
17,00	18,00	91	141	0,85	818.170...	.00	.10
17,50	18,00	91	141	0,88	818.175...	.00	.10
17,80	18,00	91	141	0,89	818.178...	.00	.10
18,00	18,00	91	141	0,90	818.180...	.00	.10
18,50	20,00	99	151	0,93	818.185...	.00	.10
18,80	20,00	99	151	0,94	818.188...	.00	.10
19,00	20,00	99	151	0,95	818.190...	.00	.10
19,50	20,00	99	151	0,98	818.195...	.00	.10
19,80	20,00	99	151	0,99	818.198...	.00	.10
20,00	20,00	99	151	1,00	818.200...	.00	.10

UNI

HP VHM - Zentrierbohrer
Solid carbide center drill

608...

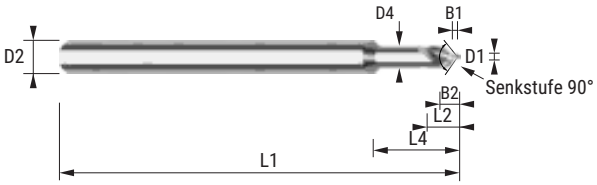


Werkzeugdaten / Tool data	Werkzeugempfehlung / Tool Recommendation	Einsatz / Capabilities
TYP N, 2, 120°, 90°, HA, Norm, BLANK	Universal	z

D1 h9	D2 h6	L2	L1	B1	B2	Artikel-Nr./ Article-No.
0,50	3,15	5,50	31,50	0,80	3,24	608.050.09
0,80	3,15	5,50	31,50	1,10	3,37	608.080.09
1,00	3,15	6,00	31,50	1,30	3,45	608.100.09
1,25	3,15	6,00	31,50	1,60	3,60	608.125.09
1,60	4,00	7,50	35,50	2,00	4,54	608.160.09
2,00	5,00	9,50	40,00	2,50	5,68	608.200.09
2,50	6,30	12,00	45,00	3,10	7,11	608.250.09
3,15	8,00	15,00	50,00	3,90	9,01	608.315.09
4,00	10,00	19,00	56,00	5,00	11,35	608.400.09
5,00	12,50	23,50	63,00	6,30	14,24	608.500.09
6,30	16,00	30,00	71,00	8,00	18,22	608.630.09

HP VHM - Mikro-Zentrierbohrer
Solid carbide micro center drill

509...

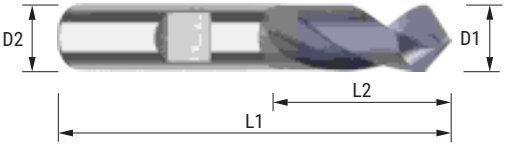


Werkzeugdaten / Tool data	Werkzeugempfehlung / Tool Recommendation	Einsatz / Capabilities
TYP N-H, 2, 118°, 30°, 90°, HA, Norm, BLANK	Universal	z

D1 js10	D2	L2	L1	D4	L4	B1	B2	Artikel-Nr./ Article-No.
0,10	3,00	1,70	38	0,60	1,80	0,070	0,35	509.010.09
0,15	3,00	1,70	38	0,60	1,80	0,100	0,37	509.015.09
0,20	3,00	1,70	38	0,60	1,80	0,140	0,40	509.020.09
0,25	3,00	2,20	38	0,90	2,70	0,175	0,58	509.025.09
0,30	3,00	2,25	38	0,90	2,70	0,210	0,60	509.030.09
0,40	3,00	2,65	38	1,50	4,50	0,280	0,95	509.040.09
0,50	3,00	2,75	38	1,50	4,50	0,350	1,00	509.050.09
0,60	3,00	3,30	38	2,40	7,20	0,420	1,50	509.060.09
0,80	3,00	3,50	38	2,40	7,20	0,560	1,60	509.080.09
1,00	3,00	5,00	38	-	-	0,700	2,00	509.100.09

HP VHM - Anbohrer 90°
Solid carbide spot drill

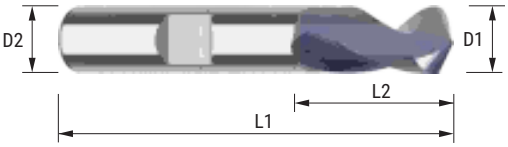
890...



Werkzeugdaten / Tool data				Werkzeugempfehlung / Tool Recommendation	Einsatz / Capabilities
TYP N, 2, 90°, 30°, o.IK, HB, D2 < ⌀6 HA, Norm, BLANK, TIALN				Universal	z
D1	D2 h6	L2	L1	Artikel-Nr./ Article-No.	BLANK / TIALN
3,00	3,00	8	38	890.030...	.09 / .00
4,00	4,00	10	50	890.040...	.09 / .00
5,00	5,00	13	50	890.050...	.09 / .00
6,00	6,00	13	57	890.060...	.09 / .00
8,00	8,00	19	63	890.080...	.09 / .00
10,00	10,00	20	66	890.100...	.09 / .00
12,00	12,00	22	73	890.120...	.09 / .00
16,00	16,00	24	82	890.160...	.09 / .00
20,00	20,00	30	92	890.200...	.09 / .00

HP VHM - Anbohrer 120°
Solid carbide spot drill

860...

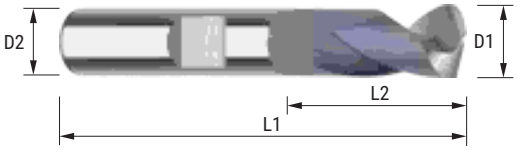


Werkzeugdaten / Tool data				Werkzeugempfehlung / Tool Recommendation	Einsatz / Capabilities
TYP N, 2, 120°, o.IK, 30°, HB, D2 < ⌀6 HA, Norm, BLANK, TIALN				Universal	z
D1	D2 h6	L2	L1	Artikel-Nr./ Article-No.	BLANK / TIALN
3,00	3,00	8	38	860.030...	.09 / .00
4,00	4,00	10	50	860.040...	.09 / .00
5,00	5,00	13	50	860.050...	.09 / .00
6,00	6,00	13	57	860.060...	.09 / .00
8,00	8,00	19	63	860.080...	.09 / .00
10,00	10,00	20	66	860.100...	.09 / .00
12,00	12,00	22	73	860.120...	.09 / .00
16,00	16,00	24	82	860.160...	.09 / .00
20,00	20,00	30	92	860.200...	.09 / .00

UNI

HP VHM - Anbohrer 142°
Solid carbide spot drill

814...

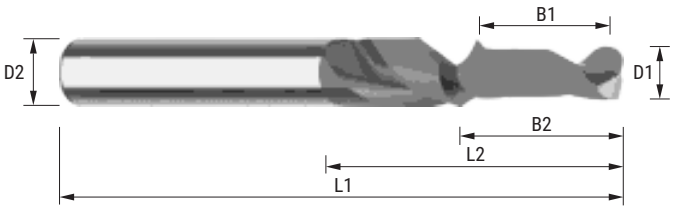


Werkzeugdaten / Tool data				Werkzeugempfehlung / Tool Recommendation	Einsatz / Capabilities
TYP N, 2, 142°, 30°, o.IK, HB, D2 < ⌀6 HA, Norm, BLANK, TIALN				Universal	z

D1	D2 h6	L2	L1	Artikel-Nr./ Article-No.	BLANK	TIALN
3,00	3,00	8	38	814.030...	.09	.00
4,00	4,00	10	50	814.040...	.09	.00
5,00	5,00	13	50	814.050...	.09	.00
6,00	6,00	11	57	814.060...	.09	.00
8,00	8,00	19	63	814.080...	.09	.00
10,00	10,00	20	66	814.100...	.09	.00
12,00	12,00	22	73	814.120...	.09	.00
16,00	16,00	24	82	814.160...	.09	.00
20,00	20,00	30	92	814.200...	.09	.00

HP VHM - Mehrfasenstufenbohrer kurz
Solid carbide subland twist drill

850...

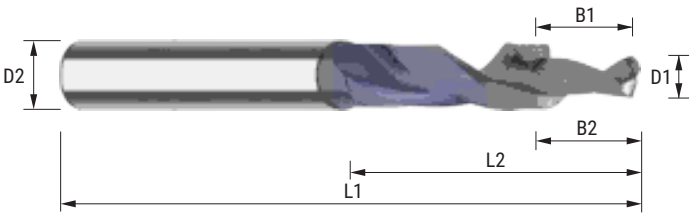


Werkzeugdaten / Tool data				Werkzeugempfehlung / Tool Recommendation	Einsatz / Capabilities
TYP N, 2, 140°, 90°, 30°, o.IK, HA, Norm, TIALN				Universal	z

D1 h7	D2 h6	L2	L1	B1	B2	Artikel-Nr./ Article-No.
2,50	6,00	20	66	8,80	11,00	850.025.00
2,80	6,00	20	66	12,00	14,11	850.028.00
3,30	6,00	24	66	11,40	13,35	850.033.00
3,70	6,00	24	66	14,00	15,82	850.037.00
4,20	6,00	28	66	13,60	15,26	850.042.00
4,65	6,00	28	66	20,00	21,52	850.0465.00
5,00	8,00	34	79	16,50	18,91	850.050.00
5,55	8,00	34	79	24,00	26,24	850.0555.00
6,80	10,00	47	89	21,00	23,84	850.068.00
7,45	10,00	47	89	21,00	23,63	850.0745.00
8,50	12,00	55	102	25,50	28,80	850.085.00
9,35	12,00	55	102	30,00	33,03	850.0935.00
10,20	14,00	60	107	30,00	33,76	850.102.00
11,20	14,00	60	107	30,00	33,44	850.112.00

HP VHM - Stufenbohrer kurz
Solid carbide step drill short

841...

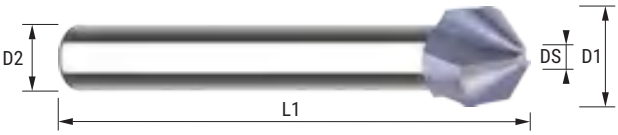


Werkzeugdaten / Tool data	Werkzeugempfehlung / Tool Recommendation	Einsatz / Capabilities
TYP N, 2, 140°, 30°, o.IK, HA, Norm, TIALN	Universal	z

D1 h8	D2 h6	L2	L1	B1	B2	Artikel-Nr./ Article-No.
3,40	6,00	28	64	9,00	9,62	841.034.00
4,50	8,00	37	79	11,00	11,82	841.045.00
5,50	10,00	43	89	13,00	14,00	841.055.00
6,60	12,00	55	102	15,00	16,20	841.066.00
9,00	16,00	65	115	19,00	20,64	841.090.00
11,00	18,00	62	123	23,00	25,00	841.110.00

HP VHM - Hochleistungskegelsenker 90°
Solid carbide high-performance countersink

730...



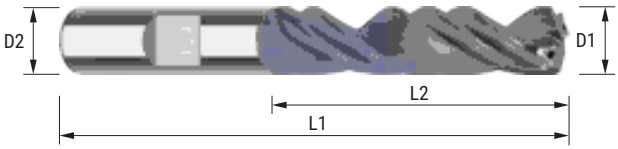
Werkzeugdaten / Tool data	Werkzeugempfehlung / Tool Recommendation	Einsatz / Capabilities
TYP N, 3, 90°, HA, Norm, TIALN	Universal	z

D1	D2 h6	DS	L1	Z	Artikel-Nr./ Article-No.
4,30	4,00	0,50	40	3	730.043.00
5,30	4,00	1,00	40	3	730.053.00
6,30	5,00	1,50	45	3	730.063.00
8,30	6,00	2,00	50	3	730.083.00
10,40	6,00	3,00	50	3	730.104.00
12,40	8,00	3,00	56	3	730.124.00
16,50	10,00	3,50	60	3	730.165.00
20,50	10,00	4,00	63	3	730.205.00
25,00	10,00	4,00	67	3	730.250.00

HP VHM - Bohr-Reibahle mit Innenkühlung 5xD

Solid carbide drill reamer with internal coolant hole

711...



InoTV

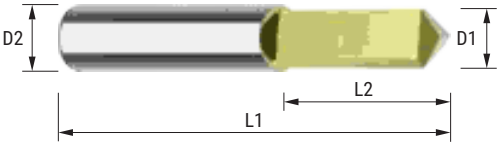
Werkzeugdaten / Tool data	Werkzeugempfehlung / Tool Recommendation	Einsatz / Capabilities
TYP N, 2, 140°, K, HA, HB, Norm, TIALN	Stahl steel, GG(G)	z, 5xD

D1 H7	D2 h6	L2	L1	Artikel-Nr./ Article-No.	HA	HB
3,98	6,00	36	74	711.038...	.00	.10
3,99	6,00	36	74	711.039...	.00	.10
4,00	6,00	36	74	711.040...	.00	.10
4,01	6,00	36	74	711.041...	.00	.10
4,02	6,00	36	74	711.042...	.00	.10
4,98	6,00	44	82	711.048...	.00	.10
4,99	6,00	44	82	711.049...	.00	.10
5,00	6,00	44	82	711.050...	.00	.10
5,01	6,00	44	82	711.501...	.00	.10
5,02	6,00	44	82	711.502...	.00	.10
5,98	6,00	44	81	711.051...	.00	.10
5,99	6,00	44	81	711.052...	.00	.10
6,00	6,00	44	81	711.060...	.00	.10
6,01	6,00	44	81	711.061...	.00	.10
6,02	6,00	44	81	711.062...	.00	.10
7,98	8,00	53	91	711.070...	.00	.10
7,99	8,00	53	91	711.071...	.00	.10
8,00	8,00	53	91	711.080...	.00	.10
8,01	8,00	53	91	711.081...	.00	.10
8,02	8,00	53	91	711.082...	.00	.10
9,98	10,00	61	103	711.090...	.00	.10
9,99	10,00	61	103	711.091...	.00	.10
10,00	10,00	61	103	711.092...	.00	.10
10,01	10,00	61	103	711.100...	.00	.10
10,02	10,00	61	103	711.101...	.00	.10
11,98	12,00	71	118	711.110...	.00	.10
11,99	12,00	71	118	711.111...	.00	.10
12,00	12,00	71	118	711.120...	.00	.10
12,01	12,00	71	118	711.121...	.00	.10
12,02	12,00	71	118	711.122...	.00	.10
14,00	14,00	77	124	711.140...	.00	.10
16,00	16,00	83	133	711.160...	.00	.10
18,00	18,00	93	143	711.180...	.00	.10
20,00	20,00	101	153	711.200...	.00	.10

HP VHM - Gewindebohrer-Ausbohrwerkzeug

Solid carbide tap destroying tool

400...



InoTV

Werkzeugdaten / Tool data	Werkzeugempfehlung / Tool Recommendation	Einsatz / Capabilities
TYP H, 2-3, HA, Norm, TIN	HRC 60-65	z

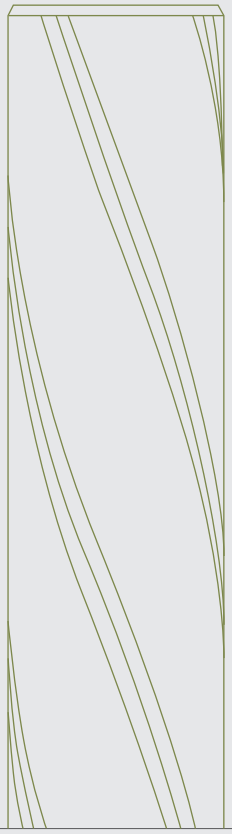
Größe / Size	D1 h9	D2 h6	L2	L1	Z	Artikel-Nr./ Article-No.
M3	2,50	6,00	12	50	2	400.025.00
M4	3,30	6,00	15	50	3	400.033.00
M5	4,20	6,00	15	50	3	400.042.00
M6	5,00	6,00	15	50	3	400.050.00
M8	6,80	8,00	20	60	3	400.068.00
M10	8,50	10,00	25	70	3	400.085.00
M12	10,20	12,00	30	75	3	400.102.00
M14	12,00	12,00	30	75	3	400.120.00
M16	14,00	14,00	40	100	3	400.140.00
M18	15,50	16,00	40	100	3	400.155.00
M20	17,50	18,00	50	100	3	400.175.00

VHM-Reibahlen / Solid carbide reamers

Reibahlen / Reamers

Übersicht und Einsatzempfehlung / Overview and field of application 265

VHM-Maschinenreibahlen / Solid carbide reamers 266-267

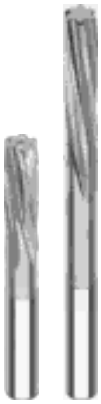


263-268

Reibahlen

Reamers

Maschinenreibahlen / *Solid carbide reamers*



Artikel / Article	880	882
Seite *Page*	266	267
Zähnezahl *No. of teeth*	4-6	4-6
Stirngeometrie *Tool face design*	EFx45°	EFx45°
Beschichtung *Coating*	BLANK	BLANK
High Performance/ General Purpose	HP	HP
Stahl steel	●	●
HRC 45-55	○	○
HRC 55-60		
HRC 60-65		
GG(G)	●	●
ALU NE	●	●
Kunststoff plastic	○	○
GFK/CFK		
Graphit		
INOX VA	●	●
INCONEL TITAN	○	○
IK		
TYP	N	N

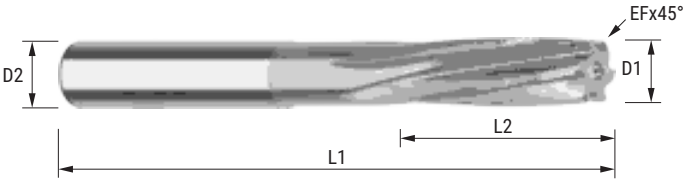
UNI

HP

VHM - Maschinenreibahle kurz

Solid carbide machine reamer short

880...



Werkzeugdaten / Tool data	Werkzeugempfehlung / Tool Recommendation	Einsatz / Capabilities
TYP N, 4-6, left right, HA, BLANK, TIALN	Universal	z

D1 H4	D2 h6	L2	L1	Z	Artikel-Nr./ Article-No.	BLANK	TIALN
0,48 - 0,53	1,50	5	35	4	880.....	.09	.00
0,54 - 0,59	1,50	5	35	4	880.....	.09	.00
0,60 - 0,69	1,50	6	35	4	880.....	.09	.00
0,70 - 0,79	1,50	6	35	4	880.....	.09	.00
0,80 - 0,90	1,50	6	35	4	880.....	.09	.00
0,91 - 1,00	1,50	8	35	4	880.....	.09	.00
1,01 - 1,20	1,50	10	35	4	880.....	.09	.00
1,21 - 1,50	1,50	12	40	4	880.....	.09	.00
1,51 - 2,00	2,00	16	45	4	880.....	.09	.00
2,01 - 2,40	2,00 - 3,00	18	50	4	880.....	.09	.00
2,41 - 2,70	3,00	20	55	4	880.....	.09	.00
2,71 - 3,10	3,00	20	60	4-6	880.....	.09	.00
3,11 - 3,70	4,00	22	60	6	880.....	.09	.00
3,71 - 4,10	4,00	24	65	6	880.....	.09	.00
4,11 - 4,60	5,00	24	65	6	880.....	.09	.00
4,61 - 4,90	5,00	26	65	6	880.....	.09	.00
4,91 - 5,20	5,00	28	75	6	880.....	.09	.00
5,21 - 5,70	5,00	28	75	6	880.....	.09	.00
5,71 - 6,20	5,00 - 6,00	28	75	6	880.....	.09	.00
6,21 - 6,60	6,00	30	80	6	880.....	.09	.00
6,61 - 6,90	6,00- 7,00	30	80	6	880.....	.09	.00
6,91 - 7,20	7,00	35	90	6	880.....	.09	.00
7,21 - 7,70	7,00	35	90	6	880.....	.09	.00
7,71 - 8,20	7,00 - 8,00	35	95	6	880.....	.09	.00
8,21 - 8,70	8,00	35	100	6	880.....	.09	.00
8,71 - 8,90	8,00 - 9,00	35	100	6	880.....	.09	.00
8,91 - 9,20	9,00	35	100	6	880.....	.09	.00
9,21 - 9,70	9,00	35	100	6	880.....	.09	.00
9,71 - 9,90	9,00 - 10,00	35	100	6	880.....	.09	.00
9,91 - 10,70	10,00	35	100	6	880.....	.09	.00
10,71 - 10,90	10,00 - 11,00	35	100	6	880.....	.09	.00
10,91 - 11,20	11,00	35	100	6	880.....	.09	.00
11,21 - 11,70	11,00	35	100	6	880.....	.09	.00
11,71 - 11,90	11,00 - 12,00	35	100	6	880.....	.09	.00
11,91 - 12,60	12,00	35	100	6	880.....	.09	.00
12,61 - 12,90	12,00 - 13,00	35	100	6	880.....	.09	.00
12,91 - 13,52	13,00	35	100	6	880.....	.09	.00
13,53 - 14,10	14,00	35	100	6	880.....	.09	.00
14,11 - 15,10	14,00	35	100	6	880.....	.09	.00
15,11 - 16,10	16,00	35	100	6	880.....	.09	.00
16,11 - 18,10	18,00	35	100	6	880.....	.09	.00

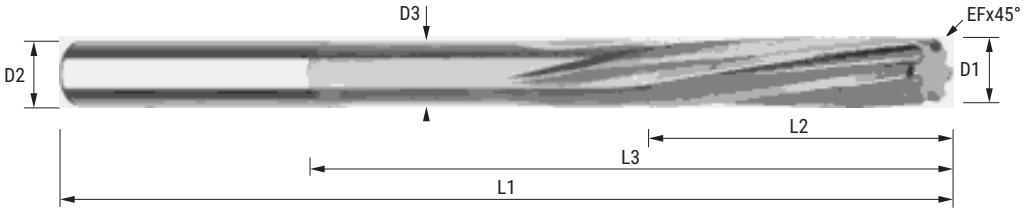
Bitte fügen Sie bei Ihrer Bestellung den Durchmesser hinzu: z.B. 880 5,71

Please add the mill diameter to your order: e.g. 880 5,71

HP VHM - Maschinenreibahle lang

Solid carbide machine reamer long

882...



Werkzeugdaten / Tool data	Werkzeugempfehlung / Tool Recommendation	Einsatz / Capabilities
TYP N, 4-6, left, right, HA, BLANK	Universal	z

D1 H7	D2 h6	L2	L1	D3	L3	EF	Z	Artikel-Nr./ Article-No.
1,00	3,00	10	50	0,90	25	0,15	4	882.010.00
1,50	3,00	10	50	1,30	25	0,15	4	882.015.00
2,00	3,00	15	60	1,80	25	0,20	4	882.020.00
2,50	3,00	15	60	2,30	30	0,20	4	882.025.00
3,00	3,00	18	60	2,80	30	0,25	4	882.030.00
3,50	6,00	18	80	3,20	40	0,30	4	882.035.00
4,00	6,00	20	80	3,80	40	0,35	4	882.040.00
4,50	6,00	20	80	4,30	60	0,35	4	882.045.00
5,00	6,00	26	100	4,70	60	0,50	6	882.050.00
5,50	6,00	26	100	5,20	60	0,50	6	882.055.00
6,00	6,00	26	100	5,70	60	0,50	6	882.060.00
6,50	8,00	36	118	6,20	75	0,60	6	882.065.00
7,00	8,00	36	118	6,70	75	0,60	6	882.070.00
7,50	8,00	36	118	7,20	75	0,60	6	882.075.00
8,00	8,00	36	118	7,70	75	0,60	6	882.080.00
8,50	10,00	36	135	8,30	90	0,70	6	882.085.00
9,00	10,00	36	135	8,70	90	0,70	6	882.090.00
9,50	10,00	36	135	9,30	90	0,70	6	882.095.00
10,00	10,00	36	135	9,70	90	0,80	6	882.100.00
10,50	12,00	45	150	10,20	105	0,80	6	882.105.00
11,00	12,00	45	150	10,70	105	0,80	6	882.110.00
11,50	12,00	45	150	11,20	105	0,80	6	882.115.00
12,00	12,00	45	150	11,70	105	0,80	6	882.120.00

Untermaße (Richtwerte in mm)
Undersize (guide values in mm)

Werkstoff / material	D1 < 6 mm	D1 < 10 mm	D1 < 16 mm	D1 < 25 mm	D1 > 25 mm
Stahl / steel < 700 N/mm²	0,1 - 0,2	0,2	0,2 - 0,3	0,3 - 0,4	0,4
Stahl / steel 700 - 1000 N/mm²	0,1 - 0,2	0,2	0,2	0,3	0,3 - 0,4
Stahlguss / cast iron	0,1 - 0,2	0,2	0,2	0,2 - 0,3	0,3 - 0,4
Grauguss / grey cast iron	0,1 - 0,2	0,2	0,2 - 0,3	0,3 - 0,4	0,3 - 0,4
Temperguss / malleable cast iron	0,1 - 0,2	0,2	0,2	0,3 - 0,4	0,4
Kupfer / copper	0,1 - 0,2	0,2 - 0,3	0,3 - 0,4	0,4	0,4 - 0,5
Messing, Bronze / brass, bronze	0,1 - 0,2	0,2	0,2 - 0,3	0,3	0,3 - 0,4
Leichtmetalle / light metals	0,1 - 0,2	0,2 - 0,3	0,3 - 0,4	0,4	0,4 - 0,5
Kunststoffe, hart / plastics, hard	0,1 - 0,2	0,2	0,4	0,4 - 0,5	0,5
Kunststoffe, weich / plastics, soft	0,1 - 0,2	0,2	0,2	0,3	0,3 - 0,4