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# Pricelist MINING

Valid from 04/01/2013

## Diamond prices

WA A2	(Economy)	(D-quality)	(only for reaming shells)	EUR	12.00 / carat
WA A1	(Standard)	(F-quality)	(A)	EUR	15.00 / carat
WA S	(Select)	(X-quality)	(AA)	EUR	21.00 / carat
Premium			(AAA)	EUR	24.00 / carat
Carbonados				EUR	35.00 / carat
Small synset-cutters ( 3 x 3 x 3 mm, 4 x 4 x 2.6 mm)				EUR	10.00 / piece
Big synset-cutters (6 x 6 x 4.5 mm)				EUR	15.00 / piece
Small stratacut-cutters (ø 7 – ø 8.2 mm)				EUR	90.00 / piece
Big stratacut-cutters (ø 10 – ø 13.44 mm)				EUR	130.00 / piece
Stratacut-stud-cutters				EUR	260.00 / piece

The carat weight and the number of waterways may vary according to drill technical demands.

**Face discharge holes** are charged with EUR 9.00 per hole (inclusive at T-6-S). These are single cylindrical holes.

**Non standard face discharge holes** such as conical holes, oval holes, rectangular holes, and double cylindrical holes are charged with EUR 18.00 per hole respectively double hole (at T-6-S EUR 9.00 per hole).

**TC-reinforced waterways** are charged with EUR 23.00 per piece.

The price of surface set diamond tools, synset tools, and stratacut tools is the sum of the setting charge plus extra features plus the diamond weight multiplied with the diamond price per carat or the number of cutters multiplied with the price per cutter.

The price of borit tools, these are tools with crushed TC, is 80 % of the setting charge of the equivalent surface set diamond tool.

## Surface set diamond drilling tools

type	size mm	diamond weight			number of water- ways	setting charge EUR	TC at bit body EUR
		20/25 spc carats	30/40 spc carats	40/60 spc carats			
B	36 x 22	7	6	5	3	188	48
	46 x 32	8	7	6	3	216	48
	56 x 42	10	9	7	4	263	55
	66 x 52	13	11	9	4	305	55
	76 x 62	14	12	10	5	335	63
	86 x 72	15	13	11	6	364	63
	101 x 87	20	17	13	7	431	70
	116 x 102	24	20	16	8	467	70
	131 x 117	27	22	18	9	483	78
	146 x 132	30	26	20	10	487	78
T-2	36 x 22	7	6	5	3	188	48
	46 x 32	8	7	6	3	216	48
	56 x 42	10	9	7	4	263	55
	66 x 52	13	11	9	4	305	55
	76 x 62	14	12	10	5	335	63
	86 x 72	15	13	11	6	364	63
	101 x 84	22	18	16	7	463	70
T-6	76 x 57	18	14	13	5	430	63
	86 x 67	21	18	15	6	498	63
	101 x 79	24	20	17	7	538	70
	116 x 93	28	24	21	8	578	70
	131 x 108	32	28	25	9	607	78
	146 x 123	42	35	30	10	684	78
T-6-S	76 x 48	29	24	-	5	536	63
	86 x 58	32	28	-	6	617	63
	101 x 72	35	30	-	7	710	70
	116 x 86	39	34	-	8	764	70
	131 x 101	43	38	-	9	812	78
	146 x 116	48	42	-	10	865	78
TT	46 x 35.6	7	6	5	3	195	48
	56 x 45.6	9	8	7	4	242	55
D	76 x 56	18	14	13	5	430	63
	86 x 66	21	18	15	6	498	63
	101 x 81	24	20	17	7	538	70
	116 x 96	28	24	21	8	578	70
	131 x 110	32	28	25	9	607	78
	146 x 122	42	35	30	10	684	78
K-3	66 x 38	18	14	12	4	419	55
	76 x 48	21	17	15	5	491	63
	86 x 58	24	19	16	6	563	63
	101 x 72	32	24	20	7	647	70
	116 x 86	37	29	22	8	692	70
	131 x 101	40	35	29	9	731	78
	146 x 116	44	39	35	10	775	78
	176 x 140	80	60	50	12	1,046	87
F	101 x 72	32	24	20	7	647	70
	116 x 86	37	29	22	8	692	70
	131 x 101	40	35	29	9	731	78
	146 x 116	44	39	35	10	775	78

Z	66 x 44	16	13	12	4	389	55	
	76 x 54	18	14	13	5	445	63	
	86 x 62	21	18	15	6	517	63	
	101 x 75	24	20	17	7	561	70	
	116 x 90	28	24	21	8	606	70	
	131 x 105	32	28	25	9	639	78	
	146 x 120	42	35	30	10	718	78	
Y	66 x 44	16	13	12	4	389	55	
	76 x 54	18	14	13	5	445	63	
	86 x 62	21	18	15	6	517	63	
	101 x 75	24	20	17	7	561	70	
non coring bit	28	-	6	-	-	379	48	
	36	-	8	-	-	463	48	
	46	-	10	-	-	568	48	
	56	-	15	-	-	671	55	
	66	-	19	-	-	775	55	
	76	-	25	-	-	879	63	
	86	-	34	-	-	984	63	
	96	-	45	-	-	1,085	70	
	101	-	55	-	-	1,135	70	
	116	-	60	-	-	1,288	70	
	131	-	80	-	-	1,439	78	
	146	-	90	-	-	1,591	78	
	casing shoe	46 x 37	5	4	3	3	169	48
		56 x 47	7	6	4	4	218	55
66 x 57		9	8	6	5	258	55	
76 x 67		10	9	7	6	292	63	
86 x 77		11	10	8	7	332	63	
101 x 89		12	11	9	8	397	70	
116 x 104		15	13	11	9	432	70	
131 x 119		17	15	13	10	447	78	
146 x 134		19	16	14	12	452	78	
casing bit		46 x 35	6	5	4	3	195	48
	56 x 45	8	7	5	4	242	55	
	66 x 55	10	9	7	5	278	55	
	76 x 65	11	10	8	6	310	63	
	86 x 75	12	11	9	7	353	63	
	101 x 86.5	14	13	11	8	431	70	
	116 x 101.5	18	16	13	9	467	70	
	131 x 116.5	20	17	14	10	483	78	
	146 x 131.5	22	19	16	12	487	78	
	DCDMA large series	2-3/4 x 3-7/8	32	25	20	8	647	70
4 x 5-1/2		60	50	38	10	1,214	78	
6 x 7-3/4		110	90	70	15	1,763	95	
AQ	47.8 x 26.9	12	10	8	4	316	48	
BQ	59.7 x 36.3	15	14	10	4	385	55	
NQ	75.4 x 47.5	20	18	15	6	491	63	
HQ	95.8 x 63.4	32	28	25	6	647	70	
PQ	122.3 x 84.8	45	40	30	8	923	70	
CP	122.6 x 85.0	45	40	30	8	923	70	
CHD	101.0 x 63.5	34	29	26	6	684	70	
	134.0 x 85.0	54	46	41	9	1,187	78	
HXB-1	95.4 x 61.8	32	28	25	8	647	70	
HXB-2	95.4 x 61.2	32	28	25	8	647	70	

EX	37.5 x 21.3	7	5	4	2	242	48
AX	47.8 x 30.0	10	8	6	3	276	48
BX	59.7 x 42.0	14	11	9	4	338	55
NX	75.4 x 54.6	20	16	12	6	430	63

type	size mm	diamond weight			number of water- ways	setting charge EUR	TC at bit body EUR
		10/15 spc carats	15/20 spc carats	20/25 spc carats			
SK-6-L	146 x 102	75	68	61	12	1,307	78
Geobor-S	150 x 102	80	72	65	12	1,370	78
CSK-146	165 x 102	98	90	80	12	1,608	87
NSK	78 x 47.5	26	23	21	6	556	63
	95 x 57	44	40	36	6	843	70
	122 x 79	55	50	45	9	1,186	70
	176 x 132	90	82	74	15	1,576	87

HXB-1 = 8 threads / 1", HXB-2 = 3 threads / 1"

### Diamond reaming shells

type	size mm	diamond weight 40/60 spc carats	setting charge EUR	
			ring-type	spiral-type
B	36	3	145	167
T-2	46	4	183	210
T-6	56	4	208	239
TT				
D	66	5	244	281
K-3	76	7	297	342
Z	86	10	376	432
	101	12	443	509
	116	12	475	546
	131	13	506	582
	146	14	537	618
	176	18	647	744
DCDMA	2-3/4 x 3-7/8	14	420	483
large	4 x 5-1/2	18	514	591
series	6 x 7-3/4	20	725	834
AQ	47.8	4	190	219
BQ	59.7	5	221	254
NQ	75.4	6	297	342
HQ	95.8	12	420	483
PQ	122.3	20	488	561
CP	122.6	20	488	561
CHD	101.0	14	443	509
HXB	95.4	12	420	483
SK-6-L	146	20	569	654
Geobor-S	150	20	597	687
CSK-146	165	23	702	807
NSK	122	20	516	593
	176	24	687	790

HXB-1 = 8 threads / 1", HXB-2 = 3 threads / 1"

## Impregnated diamond drilling tools

type	size  mm	number of water- ways	price with impregnation height			TC at bit body
			4.0 mm	6.0 mm	7.5 mm	
			EUR	EUR	EUR	EUR
B	36 x 22	4	226	247	261	48
	46 x 32	5	255	283	302	48
	56 x 42	6	284	319	343	55
	66 x 52	8	320	363	391	55
	76 x 62	9	354	404	437	63
	86 x 72	10	386	444	482	63
	101 x 87	12	453	521	567	70
	116 x 102	15	503	582	635	70
	131 x 117	16	553	643	703	78
	146 x 132	18	603	704	771	78
T-2	36 x 22	4	233	254	268	48
	46 x 32	5	262	290	309	48
	56 x 42	6	291	326	350	55
	66 x 52	8	322	365	393	55
	76 x 62	9	355	405	438	63
	86 x 72	10	384	442	480	63
	101 x 84	12	495	576	631	70
T-6	76 x 57	9	434	500	544	63
	86 x 67	10	474	549	599	63
	101 x 79	12	592	695	763	70
	116 x 93	15	683	807	890	70
	131 x 108	16	765	908	1,003	78
	146 x 123	18	859	1,019	1,126	78
TT	46 x 35.6	5	250	272	287	48
	56 x 45.6	6	271	299	317	55
D	76 x 56	9	446	515	560	63
	86 x 66	10	488	566	619	63
	101 x 81	12	559	653	716	70
	116 x 96	15	624	734	807	70
	131 x 110	16	720	851	939	78
	146 x 122	18	884	1,051	1,162	78
K-3	66 x 38	8	474	550	600	55
	76 x 48	9	532	622	682	63
	86 x 58	10	590	695	765	63
	101 x 72	12	709	839	925	70
	116 x 86	15	822	979	1,083	70
	131 x 101	16	923	1,104	1,224	78
	146 x 116	18	1,032	1,236	1,372	78
	176 x 140	24	1,450	1,745	1,942	87
F	101 x 72	12	731	861	948	70
	116 x 86	15	845	1,003	1,107	70
	131 x 101	16	951	1,131	1,251	78
	146 x 116	18	1,064	1,268	1,404	78
Z	66 x 44	8	415	478	519	55
	76 x 54	9	461	535	584	63
	86 x 62	10	537	629	691	63
	101 x 75	12	670	789	868	70
	116 x 90	15	763	901	994	70

	131 x 105	16	852	1,011	1,117	78
	146 x 120	18	940	1,119	1,239	78
Y	66 x 44	8	432	495	536	55
	76 x 54	9	478	552	601	63
	86 x 62	10	555	647	709	63
	101 x 75	12	694	813	892	70
casing shoe	46 x 37	5	249	-	-	48
	56 x 47	6	268	-	-	55
	66 x 57	8	286	-	-	55
	76 x 67	9	305	-	-	63
	86 x 77	10	324	-	-	63
	101 x 89	12	426	-	-	70
	116 x 104	15	476	-	-	70
	131 x 119	16	525	-	-	78
	146 x 134	18	576	-	-	78
casing bit	46 x 35	5	264	-	-	48
	56 x 45	6	287	-	-	55
	66 x 55	8	310	-	-	55
	76 x 65	9	332	-	-	63
	86 x 75	10	355	-	-	63
	101 x 86.5	12	472	-	-	70
	116 x 101.5	15	529	-	-	70
	131 x 116.5	16	586	-	-	78
	146 x 131.5	18	645	-	-	78
AQ	47.8 x 26.9	5	362	402	429	48
BQ	59.7 x 36.3	8	449	507	546	55
NQ	75.4 x 47.5	9	609	698	757	63
HQ	95.8 x 63.4	10	838	987	1,076	70
PQ	122.3 x 84.8	15	1,160	1,362	1,496	70
CP	122.6 x 85.0	15	1,164	1,367	1,502	70
CHD	101.0 x 63.5	12	958	1,118	1,225	70
	134.0 x 85.0	15	1,468	1,746	1,931	78
HXB-1	95.4 x 61.8	10	866	1,003	1,094	70
HXB-2	95.4 x 61.2	10	874	1,013	1,105	70
SK-6-L	146 x 102	18	1,531	1,814	2,003	78
Geobor-S	150 x 102	18	1,669	1,983	2,192	78
CSK-146	165 x 102	18	2,212	2,648	2,939	87
NSK	78 x 47.5	9	650	750	816	63
	95 x 57	10	932	1,081	1,181	70
	122 x 79	15	1,267	1,490	1,640	70
	176 x 132	20	1,925	2,276	2,510	87

HXB-1 = 8 threads / 1", HXB-2 = 3 threads / 1"

### **TC drilling bits and reaming shells** (bits set with octagonal TC pins)

type	size mm	bits EUR	reamers EUR
B	36 x 22	64	116
	46 x 32	64	116
	56 x 42	64	116
	66 x 52	74	119
	76 x 62	81	150

	86 x 72 101 x 87 116 x 102	86 119 128	150 180 180
	131 x 117 146 x 132	138 147	183 189
T-2	36 x 22 46 x 32 56 x 42	74 74 74	103 103 103
	66 x 52 76 x 62 86 x 72	77 83 83	103 103 103
	101 x 84	103	121
T-6	76 x 57 86 x 67 101 x 79	108 108 121	147 147 170
	116 x 93 131 x 108 146 x 123	125 141 172	176 198 231
T-6-S *	76 x 48 86 x 58 101 x 72	205 205 247	- - -
	116 x 86 131 x 101 146 x 116	260 282 324	- - -
T-6-S **	76 x 48 86 x 58 101 x 72	226 226 272	- - -
	116 x 86 131 x 101 146 x 116	286 310 356	- - -
TT	46 x 35,6 56 x 45,6	93 93	128 128
D	76 x 56 86 x 66 101 x 81	108 108 121	147 147 170
	116 x 96 131 x 110 146 x 122	125 141 172	176 198 231
K-3	66 x 38 76 x 48 86 x 58	108 108 108	141 141 141
	101 x 72 116 x 86 131 x 101	131 138 150	172 180 185
	146 x 116 176 x 140	172 249	198 286
F	101 x 72 116 x 86 131 x 101	163 172 189	- - -
	146 x 116	218	-
Z	66 x 44 76 x 54 86 x 62	96 96 103	141 141 160
	101 x 75 116 x 90	141 158	211 211

	131 x 105 146 x 120	170 180	222 222
Y	66 x 44 76 x 54 86 x 62 101 x 75	121 121 128 176	- - - -
casing shoe / bit	44 54 64	107 107 107	- - -
tube- $\emptyset$	74 84 98 113 128 143 159 168.3 177.8	107 107 133 151 167 187 297 356 372	- - - - - - - - -
AQ BQ NQ	47.8 x 26.9 59.7 x 36.3 75.4 x 47.5	147 170 224	128 147 195
HQ PQ *	95.8 x 63.4 122.3 x 84.8	317 369	275 320
AQ BQ NQ	47.8 x 26.9 59.7 x 36.3 75.4 x 47.5	162 187 246	128 147 195
HQ PQ **	95.8 x 63.4 122.3 x 84.8	365 406	275 320
NSK *	78 x 47.5 95 x 57 122 x 79 176 x 132	224 337 391 604	- - 339 426
NSK **	78 x 47.5 95 x 57 122 x 79 176 x 132	246 371 430 664	- - 339 426
SK-6-L +	146 x 102 150 x 102 165 x 102	433 455 531	375 391 462
SK-6-L ++	146 x 102 150 x 102 165 x 102	476 501 584	375 391 462
SK-6-L +++	146 x 102 150 x 102 165 x 102	743 778 912	375 391 462

- \* = incl. face discharge holes, without pilot  
\*\* = incl. face discharge holes, with 15 mm pilot  
+ = incl. face discharge holes, without pilot, method I  
++ = incl. face discharge holes, with 15 mm pilot, method I  
+++ = incl. face discharge holes, with 60 mm pilot, method II



## Recommendation for the number of stratacut cutters

<b>type</b>	<b>size</b>	<b>no. cutters</b>
B, T-2	36 x 22	3
	46 x 32	4
	56 x 42	5
	66 x 52	5
	76 x 62	6
	86 x 72	7
	B	101 x 87
116 x 102		9
131 x 117		10
146 x 132		12
T-2	101 x 84	8
T-6	76 x 57	6
	86 x 67	6
	101 x 79	8
	116 x 93	10
	131 x 108	10
	146 x 123	12
T-6-S	76 x 48	6
	86 x 58	6
	101 x 72	8
	116 x 86	10
	131 x 101	10
	146 x 116	12
D	76 x 56	6
	86 x 66	6
	101 x 81	8
	116 x 96	10
	131 x 110	10
	146 x 122	12
K-3	66 x 38	4
	76 x 48	6
	86 x 58	6
	101 x 72	8
	116 x 86	10
	131 x 101	10
	146 x 116	12
	176 x 140	14
F	101 x 72	8
	116 x 86	10
	131 x 101	10
	146 x 116	12
Z	66 x 44	4
	76 x 54	6
	86 x 62	6
	101 x 75	8
	116 x 90	10
	131 x 105	10
Y	146 x 116	12
	66 x 44	4
	76 x 54	6
	86 x 62	6

	101 x 75	8
SK-6-L	146 x 102	8
Geobor-S	150 x 102	8
CSK-146	165 x 102	12
AQ		4
BQ		4
NQ		6
HQ, HXB		8
PQ, CP		10
CHD	101 x 63.5	8

### **Recommendation for the number of synset cutters**

type	size	no.	
		synsets	WW
B, T-2	36 x 22	9	3
	46 x 32	12	4
	56 x 42	15	5
	66 x 52	18	6
	76 x 62	24	8
	86 x 72	24	8
	B	101 x 87	30
	116 x 102	36	12
	131 x 117	45	15
	146 x 132	48	16
T-2	101 x 84	40	10
TT	46 x 35,6	12	4
	56 x 45,6	15	5
T-6	76 x 57	32	8
	86 x 67	32	8
	101 x 79	40	10
	116 x 93	50	10
	131 x 108	60	12
	146 x 123	75	15
T-6-S	76 x 48	36	6
	86 x 58	48	8
	101 x 72	54	9
	116 x 86	60	10
	131 x 101	72	12
	146 x 116	90	15
D	76 x 56	32	8
	86 x 66	32	8
	101 x 81	40	10
	116 x 96	48	12
	131 x 110	60	15
	146 x 122	75	15
K-3	66 x 38	30	5
	76 x 48	36	6
	86 x 58	48	8
	101 x 72	54	9
	116 x 86	60	10
	131 x 101	72	12
	146 x 116	90	15
	176 x 140	126	18

F	101 x 72	54	9
	116 x 86	60	10
	131 x 101	72	12
	146 x 116	90	15
Z	66 x 44	24	6
	76 x 54	32	8
	86 x 62	40	8
	101 x 75	45	9
	116 x 90	50	10
	131 x 105	60	12
Y	146 x 116	75	15
	66 x 44	24	6
	76 x 54	32	8
	86 x 62	40	8
SK-6-L	101 x 75	45	9
	146 x 102	96	12
	Geobor-S	150 x 102	108
CSK-146	165 x 102	144	12
AQ		12	3
BQ		20	4
NQ		36	6
HQ		48	8
HXB		56	8
PQ, CP		70	10
CHD	101 x 63.5	56	8

### **Additional equipment for SK-6-L / Geobor-S / NSK-146 / CSK-146**

description	EUR / piece
locking coupling SK-6-L, $\varnothing$ 146 mm	617
locking coupling GEOBOR-S, 3 parts, complete, $\varnothing$ 146 mm	962
core lifter case method I	128
core lifter case method II	128
ring wrench for core lifter case method I, mill-cut	100
ring wrench for core lifter case method II, mill-cut	100
inner tube stabilizer, made of brass	88
core lifter, toothed and fluted	64
core lifter with short springs	128
core lifter with long springs	128
outer tube, 1,500 mm	285
inner tube, 1,500 mm	180
outer tube, 3,000 mm	435
inner tube, 3,000 mm	250
drill rod, flush jointed, 1,500 mm	300
drill rod, flush jointed, 3,000 mm	450

## Drill rods

Drill rods according to metric system, complete with double pin joint, without breaker slots. Two breaker slots will be charged extra with EUR 15. Double pin joint made of Ck45. Seamless steel tubes St52 with straight cut threads.

diameter	usable length	EUR
33.5 mm	1000 mm	126
	1500 mm	138
	3000 mm	173
	double pin	56
42.0 mm	1000 mm	147
	1500 mm	161
	3000 mm	201
	double pin	66
50.0 mm	1000 mm	183
	1500 mm	199
	3000 mm	246
	double pin	78

Drill rod according to WIRTH company standard. Tubes made of seamless steel tubes St52. Welded joints made of Ck45, without breaker slots.

diameter	usable length	EUR
WW 51 mm	1,000 mm	176
	1,500 mm	187
	3,000 mm	218
	set of joints	105
WW 63.5 mm	1,000 mm	195
	1,500 mm	208
	3,000 mm	249
	set of joints	116
WW 73 mm	1,000 mm	239
	1,500 mm	259
	3,000 mm	319
	set of joints	128

## Standard core barrels

Core barrel complete inclusive TC reamer and without bit.  
In case of order please mention drill rod thread.

type / size	B-46	B-56	B-66	B-76	B-86	B-101	B-116	B-131	B-146	
core barrel head	112	112	112	112	121	131	131	150	150	
tube	3,000 mm	132	132	154	154	195	248	267	286	311
	1,500 mm	95	95	110	110	140	177	188	198	215
	1,000 mm	78	78	86	86	107	129	143	152	163
	500 mm	60	60	61	61	74	81	98	106	109
core lifter	38	42	42	48	53	61	64	75	87	
core barrel complete	3,000 mm	398	402	427	464	519	620	642	694	737
	1,500 mm	361	365	383	420	464	549	563	606	641
	1,000 mm	344	348	359	396	431	501	518	560	589
	500 mm	326	330	334	371	398	453	473	514	535

<b>type / size</b>		<b>D-101</b>	<b>D-116</b>	<b>D-131</b>	<b>D-146</b>
core barrel head		667	737	807	878
outer tube	3,000 mm	248	267	286	311
	1,500 mm	177	188	198	215
inner tube	3,000 mm	182	200	213	232
	1,500 mm	130	142	150	164
extension tube		48	48	61	61
core lifter case		55	63	74	87
core lifter		61	62	74	83
core barrel complete	3,000 mm	1,431	1,553	1,713	1,883
	1,500 mm	1,308	1,416	1,562	1,719
extra charge for flushing redirection valve		265	265	310	310

<b>type / size</b>		<b>T6-101</b>	<b>T6-116</b>	<b>T6-131</b>	<b>T6-146</b>
core barrel head		667	737	807	878
outer tube	3,000 mm	261	278	299	326
	1,500 mm	191	200	212	230
inner tube	3,000 mm	193	204	218	237
	1,500 mm	142	146	155	169
extension tube		-	48	61	61
core lifter case		55	63	74	87
core lifter		51	57	71	74
core barrel complete	3,000 mm	1,397	1,563	1,728	1,894
	1,500 mm	1,276	1,427	1,578	1,730
extra charge for flushing redirection valve		265	265	310	310

Change in prices and mistake reserved.

All deliveries are made according to our terms of sales and delivery.