

Composition and properties

CERATIZIT grade code	ISO code	U.S. code	Binder [m %]	Density [g/cm ³]	Hardness			Transverse rupture strength		Fracture toughness (SEVNB) [MPa*m ^{1/2}]
					HV10	HV30	HRA	[MPa]	[P.S.I.]	

Ultrafine grades

HE40	K40	N/A	20,0	13,15	1250	1240	88,8	3500	508000	12,1
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Submicron grain

KCR08	N/A	N/A	4,2	15,20	1920	1885	93,4	2300	331000	8,7
MG18	K20	C2	10,0	14,45	1680	1660	92,3	3700	537000	9,4
CTOPP10	N/A	N/A	10,0	14,45	1570	1550	91,6	3000	435000	N/A

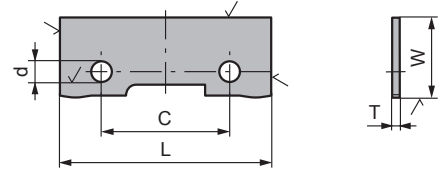
Fine grain grades

HC05	K10	C3	4,0	15,15	1730	1700	92,5	2200	319000	8,7
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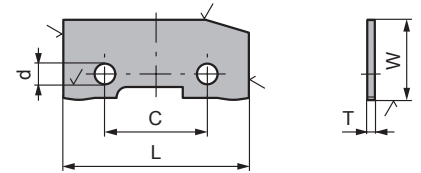
Comment:

1. The data in this table are typical material parameters. We reserve the right to modify the data due to technical progress or due to further development within our company.

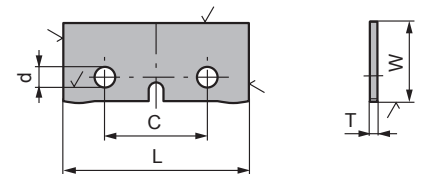
2. K_{IC}^* : The measured critical tension intensity factors (K_{IC}) depend to a high degree on the sample geometry and sample preparation. A direct comparison with parameters which have been determined by means of a different method is therefore not admissible.

CTBL SP20..


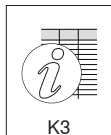
L [mm]	W [mm]	T [mm]	C [mm]	d [mm]	KCR08	HC05	MG18	HE40
30.6	25.5	1.5	20	4.0	82002867		80330712	
40.4	34.5	2.0	28	4.0	82023341			
40.4	34.5	1.5	28	4.0	11509585			
40.6	28.2	1.5	28	4.0	80301115	80166732	80330307	
40.6	28.2	2.0	28	4.0	80301116	80300300	80330308	
40.6	31.5	2.0	28	4.0	82025820			
40.6	31.5	1.5	28	4.0	11509584			
40.6	40.6	2.0	28	5.0	82002869	80330853	80330852	
50.7	34.5	1.5	35	4.0		80171145	82013237	
50.7	34.5	2.0	35	4.0	11286787			
60.6	30.2	2.0	48	4.0	11365817	80300301	80330310	
60.6	34.5	1.5	48	4.0	82031543		82010789	
60.6	45.6	2.0	45	5.0	80301118	80167058	80330311	
60.8	30.2	1.5	48	4.0	80301117	80166733	80330309	80300304
80.6	45.6	2.0	65	6.0	80301119	80167987	80167988	

CTBL SP20..


L [mm]	W [mm]	T [mm]	C [mm]	d [mm]	HC05
50.3	45.6	2.0	35	5.0	80171142

CTBL SP20..


L [mm]	W [mm]	T [mm]	C [mm]	d [mm]	HC05
30.6	25.5	1.5	20	4.0	80171167

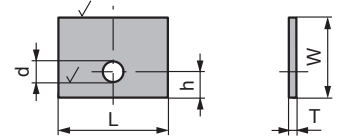


BLANKS FOR PROFILING

STANDARD – HOLE Ø 4.2 mm



CTBL ST10..



L [mm]	W [mm]	T [mm]	h [mm]	d [mm]	KCR08	HC05	MG18	HE40
10.0	20.3	2.0	6.0	4.2	80300500			
12.0	20.3	2.0	6.0	4.2	80301007	80357650		
15.0	15.5	2.0	6.5	4.2	11342113	11342095		
15.0	20.5	2.0	6.5	4.2	11342117	82011456		
15.0	25.5	2.0	6.5	4.2	11342115	82005498		
15.0	30.5	2.0	6.5	4.2	11342119	82009469		
15.1	20.3	2.0	6.0	4.2	80301008	80357651		
16.2	20.3	2.0	6.0	4.2	80301009	80357652		
16.2	25.3	2.0	6.0	4.2	80300501			
18.0	18.3	2.0	6.0	4.2	80168829			
18.2	18.3	2.0	6.0	4.2	80300502			
18.2	25.3	2.0	6.0	4.2	80300503			
18.2	36.3	2.0	6.0	4.2	80300504			
20.0	20.5	2.0	6.5	4.2	80301010	80332772	80300514	80300507
20.0	25.5	2.0	6.5	4.2	80301011	80331500	80300515	80300508
20.0	25.3	2.0	6.0	4.2	80168830			
20.0	30.5	2.0	6.5	4.2	80301012	80357653	80300516	80300509
20.0	30.5	2.0	6.5	4.5		82020717	82008887	
20.0	35.5	2.0	6.5	4.2	80301013	80357654	82018614	
20.2	20.3	2.0	6.0	4.2	80357655			
20.2	25.3	2.0	6.0	4.2	80357656			
20.2	30.3	2.0	6.0	4.2	80357657			
22.2	25.3	2.0	6.0	4.2	80357658		82025411	
24.0	28.3	2.0	6.0	4.2	80168831			
24.2	20.3	2.0	6.0	4.2	80300505			
24.2	28.3	2.0	6.0	4.2	80300506			
24.4	28.5	2.0	6.0	4.2	80357659			
25.0	20.5	2.0	6.5	4.2	80301014	80332964	82016647	
25.0	25.5	2.0	6.5	4.2	80301015	80357660	80300517	80300510
25.0	30.5	2.0	6.5	4.2	80301016	80357661	80300518	80300511
25.0	35.5	2.0	6.5	4.2	80301017	80357662	82020108	80358372
30.0	20.5	2.0	6.5	4.2	80301018	80357664	80300519	80300512
30.0	25.5	2.0	6.5	4.2	80301019	80357665		80358373
30.0	30.5	2.0	6.5	4.2	80301020	80357666	80300520	80300513
30.0	35.5	2.0	6.5	4.2	80332963			82002931
32.0	22.3	2.0	6.0	4.2	80168832			
35.0	25.5	2.0	6.5	4.2	80357667			
35.0	30.5	2.0	6.5	4.2	80301021	80332773		
35.0	35.5	2.0	6.5	4.2	80357668			
40.0	30.3	2.0	6.0	4.2	80168833			

STANDARD – HOLE Ø 4.2 mm

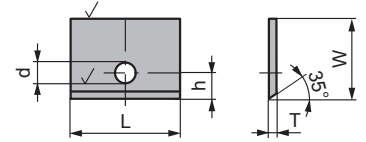
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BLANKS FOR PROFILING

STANDARD – HOLE Ø 4.2 mm

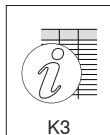
CTBL ST11..



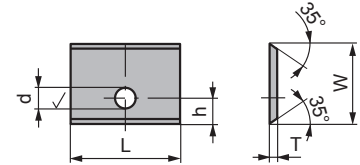
L [mm]	W [mm]	T [mm]	h [mm]	d [mm]	KCR08	HC05	MG18	HE40
15.0	15.5	2.0	6.3	4.2		80357686		
15.0	15.5	2.0	6.3	4.2	80301047			
15.0	20.5	2.0	6.3	4.2		80357687		
15.0	20.5	2.0	6.3	4.2	80301048		80300425	80300401
15.0	25.5	2.0	6.3	4.2		80332287		
15.0	25.5	2.0	6.3	4.2	80301049		80300426	80300402
15.0	30.5	2.0	6.3	4.2	80301050	80357688	80300427	80300403
20.0	20.5	2.0	6.3	4.2	80301051	80357689	80300428	80300404
20.0	25.5	2.0	6.3	4.2	80301052	80332286	80300429	80300405
20.0	30.5	2.0	6.3	4.2		80332289		
20.0	30.5	2.0	6.3	4.2	80301053		80300430	80300406
20.0	35.5	2.0	6.3	4.2	80301054	80357690	80300431	80300407
25.0	20.5	2.0	6.3	4.2	80301055	80332288	80300432	80300408
25.0	25.5	2.0	6.3	4.2		80357691		
25.0	25.5	2.0	6.3	4.2	80301056		80300433	80300409
25.0	30.5	2.0	6.3	4.2		80332290		
25.0	30.5	2.0	6.3	4.2	80301057		80300434	80300410
25.0	35.5	2.0	6.3	4.2		80357692		
25.0	35.5	2.0	6.3	4.2	80301058		80300435	80300411
30.0	20.5	2.0	6.3	4.2	80301059	80357693	80300436	80300412
30.0	25.5	2.0	6.3	4.2	80301060	80332291	80300437	80300413
30.0	30.5	2.0	6.3	4.2	80301061	80332292	80300438	80300414
30.0	35.5	2.0	6.3	4.2	80301062	80357694	80300439	80300415
30.0	40.5	2.0	6.3	4.2	80301063	80300400	80300440	80300416
35.0	20.5	2.0	6.3	4.2	80301064	80357695	80300441	80300417
35.0	25.5	2.0	6.3	4.2	80301065	80357696	80300442	80300418
35.0	30.5	2.0	6.3	4.2	80301066	80357697	82021729	82002624
35.0	35.5	2.0	6.3	4.2		80332990		
35.0	35.5	2.0	6.3	4.2	80301067		80300443	80300419
35.0	40.5	2.0	6.3	4.2	80301068	80357698		82011527
40.0	20.5	2.0	6.3	4.2			80300444	80300420
40.0	25.5	2.0	6.3	4.2	80357699		80300445	80300421
40.0	30.5	2.0	6.3	4.2	80357700		80300446	80300422
40.0	35.5	2.0	6.3	4.2	80357701		80300447	80300423
40.0	40.5	2.0	6.3	4.2	80357702		80300448	80300424

STANDARD – HOLE Ø 4.2 mm

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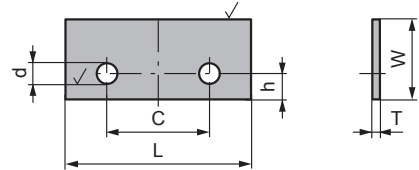


CTBL ST12..



L [mm]	W [mm]	T [mm]	h [mm]	d [mm]	HC05	MG18	HE40
12.0	14.5	2.0	6.0	4.2	80330839		
15.0	20.0	2.0	6.3	4.2		80300710	80300700
20.0	20.0	2.0	6.3	4.2	80357732	80300711	80300701
20.0	30.0	2.0	6.3	4.2	80357733	80300712	80300702
25.0	20.0	2.0	6.3	4.2	80357734	80300713	80300703
25.0	25.0	2.0	6.3	4.2	80357735	80300714	80300704
25.0	30.0	2.0	6.3	4.2	80357736	80300715	80300705
30.0	25.0	2.0	6.3	4.2	80357737	80300716	80300706
30.0	35.0	2.0	6.3	4.2	80357738	80300717	80300707
35.0	30.0	2.0	6.3	4.2	80357739	80300718	80300708
35.0	35.0	2.0	6.3	4.2	80357740	80300719	80300709

CTBL ST20..



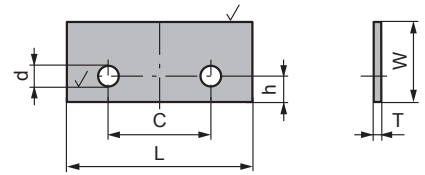
L [mm]	W [mm]	T [mm]	C [mm]	h [mm]	d [mm]	KCR08	HC05	MG18	HE40
30.0	20.5	2.0	14	6.5	4.2	80301022	80331501	82018921	
30.0	25.5	2.0	19	4.8	4.2	80301024	82022668		
30.0	25.5	2.0	14	6.5	4.2	80301023	80331502	80300218	80300201
30.0	30.5	2.0	19	4.8	4.2	80301026	82002226	82010680	
30.0	30.5	2.0	14	6.5	4.2	80301025	80357669	80300219	80300202
30.0	35.5	2.0	14	6.5	4.2	80301027	80357670	80300220	80300203
35.0	25.5	2.0	14	6.5	4.2	80301028	80357671	80300221	80300204
35.0	30.5	2.0	14	6.5	4.2	80301029	80300200		
35.0	35.5	2.0	14	6.5	4.2	80301030	80357672	80300222	80300205
40.0	20.5	2.0	26	6.5	4.2	80301031	80332684	80300223	80300206
40.0	25.5	2.0	26	6.5	4.2	80301032	80357673	80300224	80300207
40.0	30.5	2.0	26	6.5	4.2	80301033	80331503	80300225	80300208
40.0	35.5	2.0	26	6.5	4.2	80301034	80357674	80300226	80300209
40.0	40.5	2.0	26	6.5	4.2	80301035	80357675	80300227	80300210
50.0	20.5	2.0	26	6.5	4.2	80301036	80357676	80300228	80300211
50.0	25.5	2.0	26	6.5	4.2	80301037	80332578	80300229	80300212
50.0	30.5	2.0	26	6.5	4.2	80301038	80357677	82016794	82004972
50.0	32.3	2.0	24	6.0	4.2	80301039	80168834		
50.0	35.5	2.0	26	6.5	4.2	80301040	80357678	80300230	80300213
50.0	40.5	2.0	26	6.5	4.2	80301041	80357679		
60.0	35.5	2.0	26	6.5	4.2	80301042	80357680	80300231	80300214
60.0	40.5	2.0	26	6.5	4.2	80301043	80357681	80300232	80300215



BLANKS FOR PROFILING

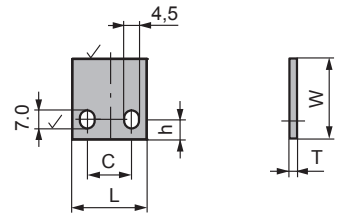
STANDARD – HOLE Ø 4.2 mm

CTBL ST20..



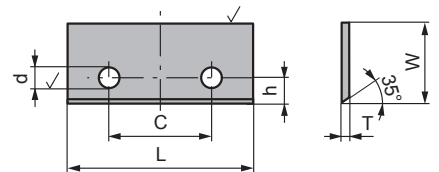
L [mm]	W [mm]	T [mm]	C [mm]	h [mm]	d [mm]	KCR08	HC05	MG18	HE40
60.0	45.5	2.0	26	6.5	4.2		80357682		
60.0	45.5	2.0	26	6.5	4.2	80301044			
80.0	25.5	2.0	60	6.5	4.2		80357683		
80.0	25.5	2.0	60	6.5	4.2	80301045		80300233	80300216
80.0	35.5	2.0	26	6.5	4.4	11830100			
80.0	35.5	2.0	60	6.5	4.2	80301046	80357684		
80.0	40.5	2.0	60	6.5	4.2				80300217
80.0	40.5	2.0	60	6.5	4.2	80357685		80300234	

CTBL ST20..

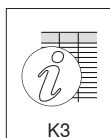


L [mm]	W [mm]	T [mm]	C [mm]	h [mm]	d [mm]	HC05	
40.0	50.5	2.0	27	7.5	4.5	82005596	
40.0	60.5	2.0	27	7.5	4.5	80331321	

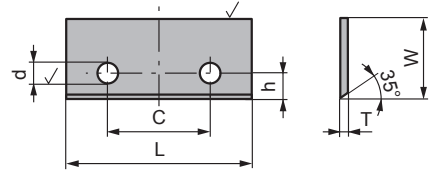
CTBL ST21..



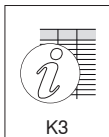
L [mm]	W [mm]	T [mm]	C [mm]	h [mm]	d [mm]	KCR08	HC05	MG18	HE40
30.0	20.5	2.0	14	6.3	4.2	80301069	82009340		
30.0	25.5	2.0	14	6.3	4.2	80301070	80357703	82026773	
30.0	30.5	2.0	14	6.3	4.2	80301071	80357704		
30.0	30.5	2.0	14	6.3	4.2			82025457	
30.0	35.5	2.0	14	6.3	4.2		80357705		
30.0	35.5	2.0	14	6.3	4.2	80301072		82015150	
35.0	15.5	2.0	26	5.5	4.2		11794214		
35.0	25.5	2.0	14	6.3	4.2	80301073	80357706	82026992	
35.0	30.5	2.0	14	6.3	4.2	80301074	80357707		



CTBL ST21..



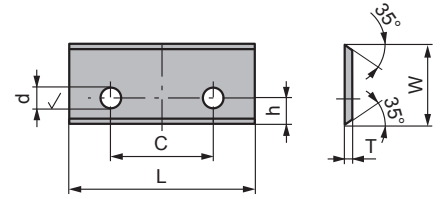
L [mm]	W [mm]	T [mm]	C [mm]	h [mm]	d [mm]	KCR08	HC05	MG18	HE40
35.0	35.5	2.0	14	6.3	4.2	80301075	80357708		
40.0	20.5	2.0	26	6.3	4.2	80301076	80331496	80300619	80300600
40.0	20.5	2.0	26	5.5	4.2		80357709		
40.0	20.5	2.0	26	6.0	4.2		80168838		
40.0	25.5	2.0	26	6.3	4.2	80301077	80357710	80300621	80300602
40.0	25.5	2.0	26	5.5	4.2		80333079	80300620	80300601
40.0	30.5	2.0	26	6.3	4.2	80301078	80357711		80300604
40.0	30.5	2.0	26	6.3	4.2			80300623	
40.0	30.5	2.0	26	5.5	4.2		80333078	80300622	80300603
40.0	35.5	2.0	26	6.3	4.2	80301079	80357713	80300625	80300606
40.0	35.5	2.0	26	5.5	4.2		80357712	80300624	80300605
40.0	40.5	2.0	26	6.3	4.2	80301080	80357715	80300626	80300607
40.0	40.5	2.0	26	5.5	4.2	80357714		82026993	
50.0	20.5	2.0	26	6.3	4.2	80301081	80331497	80300627	80300608
50.0	25.5	2.0	26	6.3	4.2	80301082	80357716		82015962
50.0	25.5	2.0	26	5.5	4.2	11456636	80331621		
50.0	30.5	2.0	26	6.3	4.2	80301083	80357719	80300628	80300609
50.0	35.5	2.0	26	6.3	4.2	80301084	80357720		80300610
50.0	40.5	2.0	26	6.3	4.2	80301085	80357721	80300629	80300611
51.0	26.5	2.0	26	6.3	4.2	80357718			
51.0	26.5	2.0	26	5.5	4.2	80357717			
52.0	27.5	2.0	26	6.0	4.2		80168839		
60.0	25.5	2.0	26	6.3	4.2		80331498		
60.0	25.5	2.0	26	6.3	4.2	80301086		80300630	80300612
60.0	30.5	2.0	26	6.3	4.2	80301087	80357722	80300631	80300613
60.0	35.5	2.0	26	6.3	4.2	80301088	80357723	80300632	82002631
60.0	39.5	2.0	44	6.0	4.2	80301089	80168840		80300614
60.0	40.5	2.0	26	6.3	4.2	80301090	80331499	80300634	80300615
60.0	40.5	2.0	44	6.3	4.2			80300633	
70.0	20.5	2.0	26	6.3	4.2	11424210			
70.0	25.5	2.0	26	6.3	4.2	80301091	80357724		
70.0	30.5	2.0	26	6.3	4.2	80301092	80357725		82002516
70.0	35.5	2.0	26	6.3	4.2	80301093	80357726	80300635	80300616
70.0	35.5	2.0	44	6.3	4.2	80301094			
70.0	35.5	2.0	44	6.3	4.2		82018987		
80.0	25.5	2.0	60	6.3	4.2	80301095	80357727	82019966	82002633
80.0	30.5	2.0	60	6.3	4.2	80301096	80357728		
80.0	35.5	2.0	60	6.3	4.2	80301097	80357729	80300636	80300617
80.0	40.5	2.0	60	6.3	4.2	80301098	80357730	80300637	80300618



BLANKS FOR PROFILING

STANDARD – HOLE Ø 4.2 mm

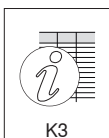
CTBL ST22..



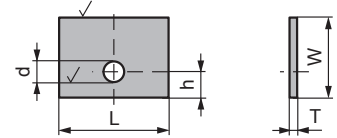
L [mm]	W [mm]	T [mm]	C [mm]	h [mm]	d [mm]	HC05	MG18	HE40	
40.0	20.0	2.0	26	6.3	4.2	80300800			
40.0	20.0	2.0	26	5.5	4.2	80357741			
40.0	25.0	2.0	26	5.5	4.2	80300801	80300834	80300821	
40.0	30.0	2.0	26	5.5	4.2	80357743	80300835	80300822	
40.0	32.0	2.0	26	6.3	4.2	80300802			
40.0	35.0	2.0	26	6.3	4.2	80300803	80300837	80300824	
40.0	35.0	2.0	26	5.5	4.2	80357744	80300836	80300823	
40.0	40.0	2.0	26	6.3	4.2	80300805	80300839	80300825	
40.0	40.0	2.0	26	5.5	4.2	80300804			
45.0	35.0	2.0	26	6.3	4.2	80300807			
45.0	35.0	2.0	26	5.5	4.2	80300806			
50.0	25.0	2.0	26	6.3	4.2	80300808			
50.0	25.0	2.0	26	5.5	4.2	80357745			
50.0	30.0	2.0	26	6.3	4.2	80300809	80300840	80300826	
50.0	35.0	2.0	26	6.3	4.2	80300810			
50.0	40.0	2.0	26	6.3	4.2	80300811	80300841	80300827	
51.0	26.0	2.0	26	5.5	4.2	80300812			
60.0	18.0	2.0	26	5.5	4.2	80300813			
60.0	20.0	2.0	26	5.5	4.2	80300814			
60.0	20.0	2.0	44	5.5	4.2	80300815			
60.0	25.0	2.0	26	6.3	4.2	80300816	80300842	80300828	
60.0	25.0	2.0	26	5.5	4.2	80300817			
60.0	30.0	2.0	26	6.3	4.2	80300818	80300843	80300829	
60.0	35.0	2.0	26	6.3	4.2	80300819	80300844	80300830	
60.0	40.0	2.0	26	6.3	4.2		80300845	80300831	
60.0	40.0	2.0	44	6.3	4.2		80300846	80300832	

STANDARD – HOLE Ø 4.2 mm

BLANKS FOR PROFILING

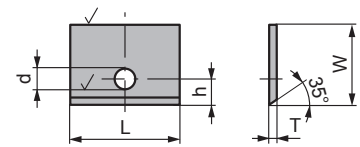


CTBL IT10..

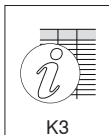


L [mm]	W [mm]	T [mm]	h [mm]	d [mm]	HC05
15.0	15.5	2.0	6.5	4.5	82030381
15.0	20.5	2.0	6.5	4.5	82030356
15.0	25.5	2.0	6.5	4.5	82029861
15.0	30.5	2.0	6.5	4.5	82029862
16.0	20.5	2.0	6.5	4.5	82029867
20.0	20.5	2.0	6.5	4.5	82029866
20.0	25.5	2.0	6.5	4.5	82029865
20.0	30.5	2.0	6.5	4.5	82029868
20.0	35.5	2.0	6.5	4.5	82030484
25.0	20.5	2.0	6.5	4.5	82029711
25.0	25.5	2.0	6.5	4.5	82029712
25.0	30.5	2.0	6.5	4.5	82029713
25.0	35.5	2.0	6.5	4.5	82029714
25.0	40.5	2.0	6.5	4.5	11844907
30.0	20.5	2.0	6.5	4.5	82029718
30.0	25.5	2.0	6.5	4.5	82029719
30.0	30.5	2.0	6.5	4.5	82029720
30.0	35.5	2.0	6.5	4.5	82029871
30.0	40.5	2.0	6.5	4.5	82029863
35.0	25.5	2.0	6.5	4.5	82029721
35.0	30.5	2.0	6.5	4.5	82029709
35.0	35.5	2.0	6.5	4.5	82029722
35.0	40.5	2.0	6.5	4.5	82029864

CTBL IT11..



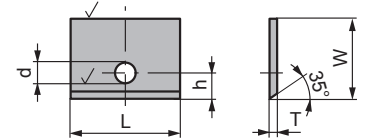
L [mm]	W [mm]	T [mm]	h [mm]	d [mm]	HC05
9.6	25.5	2.0	6.3	4.5	6228277
15.0	15.5	2.0	6.3	4.5	82029759
15.0	20.5	2.0	6.3	4.5	82029760
15.0	25.5	2.0	6.3	4.5	82029753
15.0	30.5	2.0	6.3	4.5	82029761
20.0	20.5	2.0	6.3	4.5	82029762
20.0	25.5	2.0	6.3	4.5	82029752
20.0	30.5	2.0	6.3	4.5	82030351
20.0	35.5	2.0	6.3	4.5	82029763
25.0	20.5	2.0	6.3	4.5	82029754



BLANKS FOR PROFILING

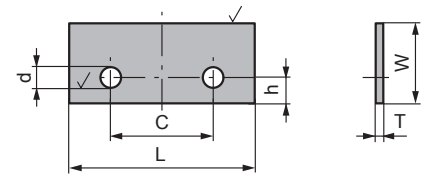
ITALIAN STYLE – HOLE Ø 4.5 mm

CTBL IT11..

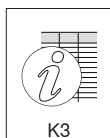


L [mm]	W [mm]	T [mm]	h [mm]	d [mm]	HC05	
25.0	25.5	2.0	6.3	4.5	82030378	
25.0	30.5	2.0	6.3	4.5	82029755	
25.0	35.5	2.0	6.3	4.5	82029764	
30.0	20.5	2.0	6.3	4.5	82030353	
30.0	25.5	2.0	6.3	4.5	82029756	
30.0	30.5	2.0	6.3	4.5	82029757	
30.0	35.5	2.0	6.3	4.5	82029872	
30.0	40.5	2.0	6.3	4.5	82029751	
35.0	20.5	2.0	6.3	4.5	82029767	
35.0	25.5	2.0	6.3	4.5	82029768	
35.0	30.5	2.0	6.3	4.5	82029769	
35.0	35.5	2.0	6.3	4.5	82029758	
35.0	40.5	2.0	6.3	4.5	82029770	

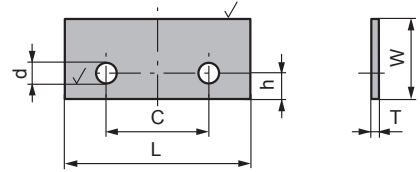
CTBL IT20..



L [mm]	W [mm]	T [mm]	C [mm]	h [mm]	d [mm]	HC05	
30.0	20.5	2.0	14	6.5	4.5	82029778	
30.0	25.5	2.0	14	6.5	4.5	82029779	
30.0	30.5	2.0	14	6.5	4.5	82029846	
30.0	35.5	2.0	14	6.5	4.5	82029847	
30.0	40.5	2.0	14	6.5	4.5	82029727	
35.0	25.5	2.0	14	6.5	4.5	82029848	
35.0	30.5	2.0	14	6.5	4.5	82029777	
35.0	35.5	2.0	14	6.5	4.5	82029849	
35.0	40.5	2.0	14	6.5	4.5	82029728	
40.0	20.5	2.0	26	6.5	4.5	82029845	
40.0	25.5	2.0	26	6.5	4.5	82029850	
40.0	30.5	2.0	26	6.5	4.5	82030486	
40.0	35.5	2.0	26	6.5	4.5	82029852	
40.0	40.5	2.0	26	6.5	4.5	82029853	
50.0	20.5	2.0	26	6.5	4.5	82029854	
50.0	25.5	2.0	26	6.5	4.5	82029780	
50.0	30.5	2.0	26	6.5	4.5	82029851	
50.0	35.5	2.0	26	6.5	4.5	82029855	
50.0	40.5	2.0	26	6.5	4.5	82029856	
50.0	45.5	2.0	26	6.5	4.5	82029729	

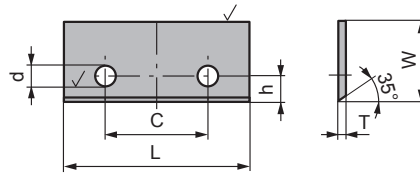


CTBL IT20..



L [mm]	W [mm]	T [mm]	C [mm]	h [mm]	d [mm]	HC05	
60.0	20.5	2.0	26	6.5	4.5	82029730	
60.0	25.5	2.0	26	6.5	4.5	82029731	
60.0	30.5	2.0	26	6.5	4.5	82029732	
60.0	35.5	2.0	26	6.5	4.5	82029857	
60.0	40.5	2.0	26	6.5	4.5	82029870	
60.0	45.5	2.0	26	6.5	4.5	82030487	
70.0	30.5	2.0	26	6.5	4.5	82029733	
80.0	25.5	2.0	60	6.5	4.5	82030488	
80.0	30.5	2.0	60	6.5	4.5	82029734	
80.0	35.5	2.0	60	6.5	4.5	82029859	
80.0	40.5	2.0	60	6.5	4.5	82029860	
80.0	50.5	2.0	60	6.5	4.5	82029776	

CTBL IT21..



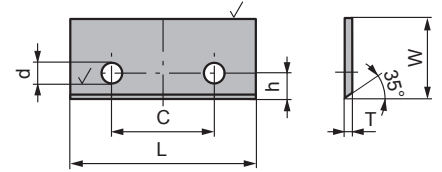
L [mm]	W [mm]	T [mm]	C [mm]	h [mm]	d [mm]	HC05	
30.0	25.5	2.0	14	6.3	4.5	82030355	
30.0	30.5	2.0	14	6.3	4.5	82029737	
30.0	35.5	2.0	14	6.3	4.5	82029738	
35.0	25.5	2.0	18	6.3	4.5	6228274	
35.0	30.5	2.0	18	6.3	4.5	6228275	
35.0	35.5	2.0	18	6.3	4.5	6228276	
40.0	20.5	2.0	26	5.5	4.5	6228244	
40.0	20.5	2.0	26	6.3	4.5	82029773	
40.0	25.5	2.0	26	6.3	4.5	82029739	
40.0	25.5	2.0	26	5.5	4.5	82030352	
40.0	30.5	2.0	26	5.5	4.5	82029736	
40.0	30.5	2.0	26	6.3	4.5	82029740	
40.0	35.5	2.0	26	6.3	4.5	82029742	
40.0	35.5	2.0	26	5.5	4.5	82029741	
40.0	40.5	2.0	26	6.3	4.5	82029744	
40.0	40.5	2.0	26	5.5	4.5	82029743	
45.0	25.5	2.0	26	5.5	4.5	6284648	
50.0	20.5	2.0	26	6.3	4.5	82030349	
50.0	25.5	2.0	26	6.3	4.5	82029775	
50.0	25.5	2.0	26	5.5	4.5	82029735	
50.0	30.5	2.0	26	6.3	4.5	82029745	



BLANKS FOR PROFILING

ITALIAN STYLE – HOLE Ø 4.5 mm

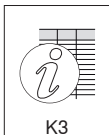
CTBL IT21..



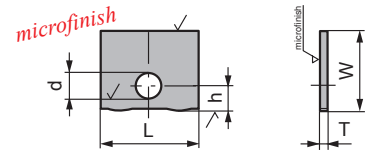
L [mm]	W [mm]	T [mm]	C [mm]	h [mm]	d [mm]	HC05	
50.0	30.5	2.0	26	5.5	4.5	6228254	
50.0	35.5	2.0	26	6.3	4.5	82030380	
50.0	35.5	2.0	26	5.5	4.5	6228280	
50.0	40.5	2.0	26	6.3	4.5	82029746	
60.0	20.5	2.0	26	5.5	4.5	6229172	
60.0	25.5	2.0	26	6.3	4.5	82029774	
60.0	25.5	2.0	26	5.5	4.5	6228285	
60.0	30.5	2.0	26	6.3	4.5	82029747	
60.0	35.5	2.0	26	6.3	4.5	82029748	
60.0	40.5	2.0	26	6.3	4.5	82030350	
60.0	45.5	2.0	26	6.3	4.5	82029771	
70.0	25.5	2.0	26	6.3	4.5	82029749	
70.0	30.5	2.0	44	6.3	4.5	6228286	
70.0	30.5	2.0	26	6.3	4.5	82029724	
70.0	35.5	2.0	26	6.3	4.5	82029725	
70.0	40.5	2.0	26	6.3	4.5	82030382	
80.0	25.5	2.0	60	6.3	4.5	82029869	
80.0	30.5	2.0	60	6.3	4.5	82029750	
80.0	35.5	2.0	60	6.3	4.5	82029772	
80.0	40.5	2.0	60	6.3	4.5	82029726	
100.0	30.5	2.0	60	6.3	4.5	82029723	

ITALIAN STYLE – HOLE Ø 4.5 mm

BLANKS FOR PROFILING

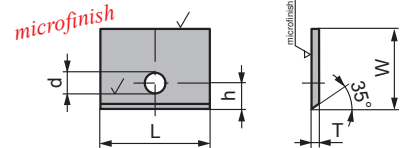


CTBL MP10..

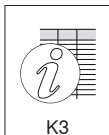


L [mm]	W [mm]	T [mm]	h [mm]	d [mm]	KCR08
20.0	20.5	2.0	6.5	5.2	80302000
20.0	25.5	2.0	6.5	5.2	80302001
20.0	30.5	2.0	6.5	5.2	80302002
20.0	35.5	2.0	6.5	5.2	80302003
25.0	20.5	2.0	6.5	5.2	80302004
25.0	25.5	2.0	6.5	5.2	80302005
25.0	30.5	2.0	6.5	5.2	80302006
25.0	35.5	2.0	6.5	5.2	80302007
30.0	20.5	2.0	6.5	5.2	80302008
30.0	25.5	2.0	6.5	5.2	80302009
30.0	30.5	2.0	6.5	5.2	80302010
35.0	30.5	2.0	6.5	5.2	80302011
26.0	32.0	2.0	6.5	5.2	11803771

CTBL MP11..



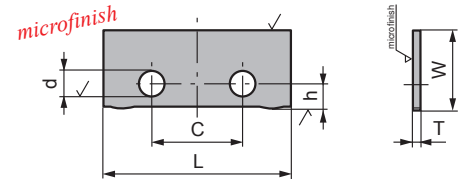
L [mm]	W [mm]	T [mm]	h [mm]	d [mm]	KCR08
20.0	20.5	2.0	5.9	5.2	80302037
20.0	25.5	2.0	5.9	5.2	80302038
20.0	30.5	2.0	5.9	5.2	80302039
20.0	35.5	2.0	5.9	5.2	80302040
25.0	20.5	2.0	5.9	5.2	80302041
25.0	25.5	2.0	5.9	5.2	80302042
25.0	30.5	2.0	5.9	5.2	80302043
25.0	35.5	2.0	5.9	5.2	80302044
30.0	20.5	2.0	5.9	5.2	80302045
30.0	25.5	2.0	5.9	5.2	80302046
30.0	30.5	2.0	5.9	5.2	80302047
30.0	35.5	2.0	5.9	5.2	80302048
30.0	40.5	2.0	5.9	5.2	80302049
35.0	20.5	2.0	5.9	5.2	80302050
35.0	25.5	2.0	5.9	5.2	80302051
35.0	30.5	2.0	5.9	5.2	80302052
35.0	35.5	2.0	5.9	5.2	80302053
35.0	40.5	2.0	5.9	5.2	80302054



BLANKS FOR PROFILING

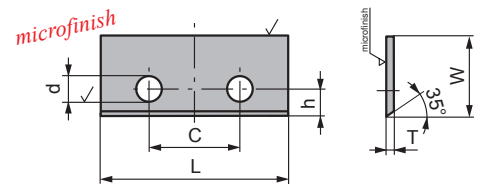
MULTIPURP – HOLE Ø 5.2 mm

CTBL MP20..

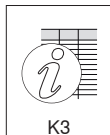


L [mm]	W [mm]	T [mm]	h [mm]	d [mm]	KCR08	
30.0	20.5	2.0	6.5	5.2	80302012	
30.0	25.5	2.0	6.5	5.2	80302013	
30.0	30.5	2.0	6.5	5.2	80302015	
30.0	35.5	2.0	6.5	5.2	80302017	
35.0	25.5	2.0	6.5	5.2	80302018	
35.0	30.5	2.0	6.5	5.2	80302019	
35.0	35.5	2.0	6.5	5.2	80302020	
40.0	20.5	2.0	6.5	5.2	80302021	
40.0	25.5	2.0	6.5	5.2	80302022	
40.0	30.5	2.0	6.5	5.2	80302023	
40.0	35.5	2.0	6.5	5.2	80302024	
40.0	40.5	2.0	6.5	5.2	80302025	
50.0	20.5	2.0	6.5	5.2	80302026	
50.0	25.5	2.0	6.5	5.2	80302027	
50.0	30.5	2.0	6.5	5.2	80302028	
50.0	32.3	2.0	6.5	5.2	80302029	
50.0	35.5	2.0	6.5	5.2	80302030	
50.0	40.5	2.0	6.5	5.2	80302031	
60.0	35.5	2.0	6.5	5.2	80302032	
60.0	45.5	2.0	6.5	5.2	80302034	
80.0	35.5	2.0	6.5	5.2	80302036	
30.0	25.5	2.0	6.5	5.2	80302014	
30.0	30.5	2.0	6.5	5.2	80302016	
60.0	40.5	2.0	6.5	5.2	80302033	
80.0	25.5	2.0	6.5	5.2	80302035	

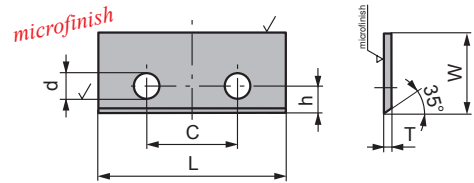
CTBL MP21..



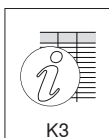
L [mm]	W [mm]	T [mm]	h [mm]	d [mm]	KCR08	
30.0	20.5	2.0	5.9	5.2	80302055	
30.0	25.5	2.0	5.9	5.2	80302056	
30.0	30.5	2.0	5.9	5.2	80302057	
30.0	35.5	2.0	5.9	5.2	80302058	
35.0	25.5	2.0	5.9	5.2	80302059	
35.0	30.5	2.0	5.9	5.2	80302060	
35.0	35.5	2.0	5.9	5.2	80302061	
40.0	20.5	2.0	5.9	5.2	80302062	

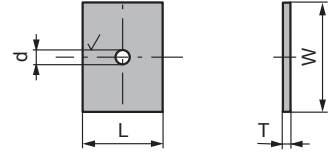


CTBL MP21..

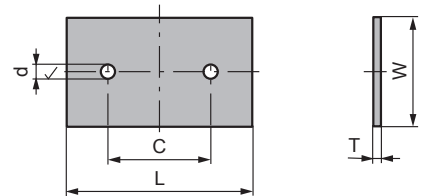


L [mm]	W [mm]	T [mm]	h [mm]	d [mm]	KCR08	
40.0	25.5	2.0	5.9	5.2	80302063	
40.0	30.5	2.0	5.9	5.2	80302064	
40.0	35.5	2.0	5.9	5.2	80302065	
40.0	40.5	2.0	5.9	5.2	80302066	
50.0	20.5	2.0	5.9	5.2	80302067	
50.0	25.5	2.0	5.9	5.2	80302068	
50.0	30.5	2.0	5.9	5.2	80302069	
50.0	35.5	2.0	5.9	5.2	80302070	
50.0	40.5	2.0	5.9	5.2	80302071	
60.0	25.5	2.0	5.9	5.2	80302072	
60.0	30.5	2.0	5.9	5.2	80302073	
60.0	35.5	2.0	5.9	5.2	80302074	
60.0	40.5	2.0	5.9	5.2	80302076	
70.0	25.5	2.0	5.9	5.2	80302077	
70.0	30.5	2.0	5.9	5.2	80302078	
70.0	35.5	2.0	5.9	5.2	80302079	
80.0	25.5	2.0	5.9	5.2	80302081	
80.0	30.5	2.0	5.9	5.2	80302082	
80.0	35.5	2.0	5.9	5.2	80302083	
60.0	39.5	2.0	5.9	5.2	80302075	
70.0	35.5	2.0	5.9	5.2	80302080	
80.0	40.5	2.0	5.9	5.2	80302084	

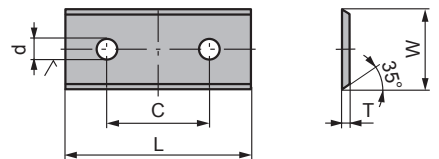


CTBL RV10..


L [mm]	W [mm]	T [mm]	d [mm]	KCR08	HC05
12.0	20.4	2.0	4.2		81100001
24.0	22.0	2.0	4.2	80301107	80168821
28.0	24.0	2.0	4.2		80168822
32.0	24.0	2.0	4.2		80168823
36.0	28.0	2.0	4.2	80301108	80168824
40.0	26.0	2.0	4.2		80168825

CTBL RV20..


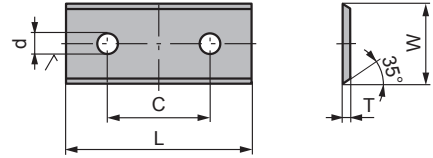
L [mm]	W [mm]	T [mm]	d [mm]	HC05
42.0	32.0	2.0	4.2	80168826
48.0	36.0	2.0	4.2	80168827
40.0	20.4	2.0	4.2	81100041

CTBL RV22..


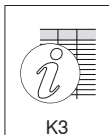
L [mm]	W [mm]	T [mm]	d [mm]	KCR08	HC05
30.0	25.0	2.0	4.2		80168871
40.0	30.0	2.0	4.2	80301099	80168872
40.0	32.62	2.0	4.2		80300900
40.0	35.0	2.0	4.2	80301100	80300902
40.0	35.0	2.0	4.2		80300901
40.0	37.82	2.0	4.2		80300903
40.0	42.86	2.0	4.2	80301101	80300904
42.0	32.0	2.0	4.2		80300905
45.0	35.0	2.0	4.2		80300906



CTBL RV22..



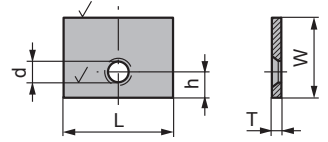
L [mm]	W [mm]	T [mm]	d [mm]	KCR08	HC05
50.0	16.0	2.0	4.2		80300907
50.0	20.0	2.0	4.2		80300908
50.0	25.0	2.0	4.2		80300909
50.0	30.0	2.0	4.2	80301102	80300910
50.0	30.0	2.0	4.2		80300911
50.0	40.0	2.0	4.2		80300912
50.0	45.0	2.0	4.2		80168873
51.0	26.0	2.0	4.2		80300913
52.0	34.0	2.0	4.2		80168828
60.0	19.0	2.0	4.2		80168835
60.0	20.0	2.0	4.2	80301103	80300914
60.0	25.0	2.0	4.2	80301104	80168836
60.0	25.0	2.0	4.2		80300915
60.0	30.0	2.0	4.2		80300916
60.0	30.0	2.0	4.2		80300917
60.0	32.62	2.0	4.2		80300918
60.0	35.0	2.0	4.2	80301106	80168837
60.0	35.0	2.0	4.2	80301105	80357749
60.0	37.82	2.0	4.2		80300919
60.0	40.0	2.0	4.2		80300999
60.0	42.86	2.0	4.2		80300920



BLANKS FOR PROFILING

WITH COUNTERSUNK HOLE – HOLE Ø 4.5 mm

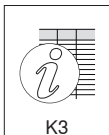
CTBL CH10..



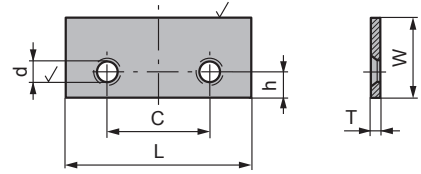
L [mm]	W [mm]	T [mm]	h [mm]	d [mm]	KCR08	MG18
20.0	20.5	3.0	7.0	4.5	80301120	
20.0	25.5	3.0	7.0	4.5	80301121	80300543
20.0	30.5	3.0	7.0	4.5	80301122	
20.0	35.5	3.0	7.0	4.5	80301123	
25.0	25.5	3.0	7.0	4.5	80301125	80300547
25.0	30.5	3.0	7.0	4.5	80301126	
25.0	35.5	3.0	7.0	4.5	80301127	80300549
25.0	40.5	3.0	7.0	4.5	80301128	
30.0	25.5	3.0	7.0	4.5	80301129	
30.0	30.5	3.0	7.0	4.5	80301130	
30.0	35.5	3.0	7.0	4.5	80301131	
30.0	40.5	3.0	7.0	4.5	80301132	
35.0	25.5	3.0	7.0	4.5	80301133	
35.0	30.5	3.0	7.0	4.5	80301134	
35.0	35.5	3.0	7.0	4.5	80301135	
35.0	40.5	3.0	7.0	4.5	80301136	
20.0	40.5	3.0	7.0	4.5	80301124	

WITH COUNTERSUNK HOLE – HOLE Ø 4.5 mm

BLANKS FOR PROFILING



CTBL CH20..



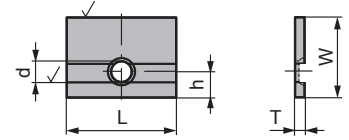
L [mm]	W [mm]	T [mm]	h [mm]	d [mm]	KCR08	
40.0	20.5	3.0	7.0	4.5	80301137	
40.0	25.5	3.0	7.0	4.5	80301138	
40.0	30.5	3.0	7.0	4.5	80301139	
45.0	25.5	3.0	7.0	4.5	80301140	
45.0	30.5	3.0	7.0	4.5	80301141	
45.0	35.5	3.0	7.0	4.5	80301142	
55.0	25.5	3.0	6.0	4.5	80301143	
55.0	30.5	3.0	6.0	4.5	80301144	
55.0	35.5	3.0	6.0	4.5	80301145	
55.0	40.5	3.0	6.0	4.5	80301146	
65.0	20.5	3.0	6.0	4.5	80301155	
65.0	25.5	3.0	6.0	4.5	80301147	
65.0	30.5	3.0	6.0	4.5	80301148	
65.0	35.5	3.0	6.0	4.5	80301149	
65.0	40.5	3.0	6.0	4.5	80301150	
80.0	25.5	3.0	6.0	4.5	80301151	
80.0	30.5	3.0	6.0	4.5	80301152	
80.0	35.5	3.0	6.0	4.5	80301153	
80.0	40.5	3.0	6.0	4.5	80301154	



BLANKS FOR PROFILING

WITH COUNTERSUNK HOLE AND GROOVE – HOLE Ø 4.5 mm

CTBL GR10..

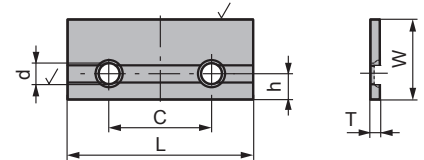
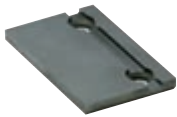


L [mm]	W [mm]	T [mm]	h [mm]	d [mm]	CTOPP10	KCR08
20.0	20.5	3.0	7.0	4.5		80301156
20.0	25.5	3.0	7.0	4.5		80301157
20.0	30.5	3.0	7.0	4.5		80301158
20.0	35.5	3.0	7.0	4.5		80301159
20.0	40.5	3.0	7.0	4.5		80301160
25.0	25.5	3.0	7.0	4.5		80301161
25.0	30.5	3.0	7.0	4.5		80301162
25.0	35.5	3.0	7.0	4.5	11778840	80301163
25.0	40.5	3.0	7.0	4.5		80301164
30.0	25.5	3.0	7.0	4.5		80301165
30.0	30.5	3.0	7.0	4.5		80301166
30.0	35.5	3.0	7.0	4.5		80301167
30.0	40.5	3.0	7.0	4.5		80301168
35.0	25.5	3.0	7.0	4.5		80301169
35.0	30.5	3.0	7.0	4.5		80301170
35.0	35.5	3.0	7.0	4.5		80301171
35.0	40.5	3.0	7.0	4.5		80301172

WITH COUNTERSUNK HOLE AND GROOVE – HOLE Ø 4.5 mm

BLANKS FOR PROFILING

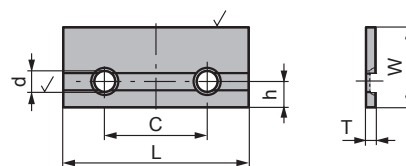
CTBL GR20..



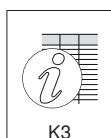
L [mm]	W [mm]	T [mm]	h [mm]	d [mm]	KCR08	
40.0	25.5	3.0	7.0	4.5	80301174	
40.0	20.5	3.0	7.0	4.5	80301173	
40.0	30.5	3.0	7.0	4.5	80301175	
45.0	25.5	3.0	7.0	4.5	80301176	
45.0	30.5	3.0	7.0	4.5	80301177	
45.0	35.5	3.0	7.0	4.5	80301178	
55.0	25.5	3.0	6.0	4.5	80301179	
55.0	30.5	3.0	6.0	4.5	80301180	
55.0	35.5	3.0	6.0	4.5	80301181	
55.0	40.5	3.0	6.0	4.5	80301182	
65.0	20.5	3.0	6.0	4.5	80301183	
65.0	25.5	3.0	6.0	4.5	80301184	
65.0	30.5	3.0	6.0	4.5	80301185	
65.0	35.5	3.0	6.0	4.5	80301186	
65.0	40.5	3.0	6.0	4.5	80301187	
70.0	25.5	3.0	6.0	4.5	80301188	



CTBL GR20..



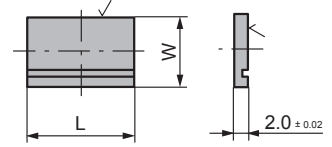
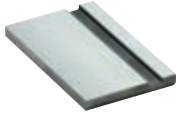
L [mm]	W [mm]	T [mm]	h [mm]	d [mm]	KCR08	
80.0	25.5	3.0	6.0	4.5	80301189	
80.0	30.5	3.0	6.0	4.5	80301190	
80.0	35.5	3.0	6.0	4.5	80301191	
80.0	40.5	3.0	6.0	4.5	80301192	



BLANKS FOR PROFILING

WITH GROOVE

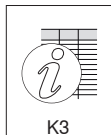
CTBL MC00..



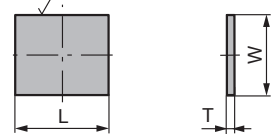
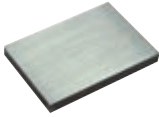
L [mm]	W [mm]	T [mm]	KCR08	
20.5	16.5	2.0	80301200	
20.5	22.5	2.0	80301201	
20.5	25.5	2.0	80301202	
20.5	27.9	2.0	80301203	
20.5	30.5	2.0	80301204	
20.5	34.5	2.0	80301205	
25.5	25.5	2.0	80301206	
25.5	27.9	2.0	80301207	
25.5	30.5	2.0	80301208	
25.5	34.5	2.0	80301209	
30.5	22.5	2.0	80301210	
30.5	25.5	2.0	80301211	
30.5	27.9	2.0	80301212	
30.5	30.5	2.0	80301213	
30.5	34.5	2.0	80301214	
35.5	22.5	2.0	80301215	
35.5	25.5	2.0	80301216	
35.5	32.5	2.0	80301217	
40.5	16.5	2.0	80301218	
40.5	22.5	2.0	80301219	
40.5	25.5	2.0	80301220	
40.5	27.9	2.0	80301221	
40.5	30.5	2.0	80301222	
40.5	32.5	2.0	80301223	
40.5	34.5	2.0	80301224	
50.5	22.5	2.0	80301225	
50.5	25.5	2.0	80301226	
50.5	27.9	2.0	80301227	
50.5	30.5	2.0	80301228	
50.5	32.5	2.0	80301229	
50.5	34.5	2.0	80301230	
60.5	22.5	2.0	80301231	
60.5	25.5	2.0	80301232	
60.5	27.9	2.0	80301233	
60.5	30.5	2.0	80301234	
60.5	32.5	2.0	80301235	
80.5	16.5	2.0	80301236	
150.0	35.5	2.0	11702317	
150.0	30.5	2.0	11702318	
150.0	20.5	2.0	11702320	
150.0	15.5	2.0	11702321	
150.0	25.5	2.0	11607971	

WITH GROOVE

BLANKS FOR PROFILING



CTBL WH00..



L [mm]	W [mm]	T [mm]	KCR08	MG18	CTOPP10	HC05
15.0	15.5	2.0		82031757		80300000
15.0	20.5	2.0		82013199		80300001
15.0	25.5	2.0		82008547		
20.0	20.5	2.0	82023321	82019729	11776550	80300002
20.0	25.5	2.0	82019119	82010599		80300003
20.0	30.5	2.0	80301000	82010600		80300004
20.0	35.5	2.0		82010601		80300005
25.0	20.5	2.0	82021847	82019394		80300006
25.0	25.5	2.0	82026075	82010602		80300007
25.0	30.5	2.0	82026077	82021577		80300008
25.0	35.5	2.0	80301001	82010612		80300009
30.0	15.5	2.0	82019728	82020309		
30.0	20.5	2.0	82022403	82010615		80300010
30.0	25.5	2.0	82024505	82013140		80300011
30.0	30.5	2.0	82021360	82013141		80300012
30.0	35.5	2.0	80301002	82014358		80300013
30.0	40.5	2.0		82012978		80300014
35.0	20.5	2.0	82026079	82020661	11776554	80300015
35.0	25.5	2.0	82022466	82019562	11792776	80300016
35.0	30.5	2.0	82021848	82019577		
35.0	35.5	2.0	82019712	82019397		80300017
35.0	40.5	2.0	82027464	82030141		80300018
40.0	20.5	2.0	82026080	82019396		80300019
40.0	25.0	2.0	82019223	82012513		80300020
40.0	30.4	2.0	82021543	82010250		80300021
40.0	35.5	2.0	82019225	82015197		80300022
40.0	40.5	2.0	80301003	82010623		80300023
45.0	20.5	2.0	82028692			
45.0	25.5	2.0	82026152	82019541		
45.0	30.5	2.0	11544440	82029279		80300024
45.0	35.5	2.0		82029179		80300025
50.0	20.5	2.0	82026548	82020980		80300026
50.0	25.5	2.0	82023927	82019576		80300027
50.0	30.5	2.0	80301004	82013697		80300028
50.0	35.5	2.0	82023784	82022404		
50.0	40.5	2.0	82023785	82019932		80300029
50.0	45.5	2.0		82020364		80300030
50.0	50.5	2.0	82024736	82022227		
60.0	20.5	2.0	82026549	82027071		80300031
60.0	25.5	2.0	82025828	82022738		80300032
60.0	30.5	2.0	82028435	82021225		80300033
60.0	35.5	2.0	11363187	82019220		80300034
60.0	40.5	2.0	80301005	82014359		80300035
60.0	45.5	2.0		11253159		
60.0	50.5	2.0	82024737	82024049		
70.0	20.5	2.0		11231334		
70.0	25.5	2.0	82026081	82019401		
70.0	30.5	2.0	11495972	82023380		
70.0	35.5	2.0	82026082	82019405		

