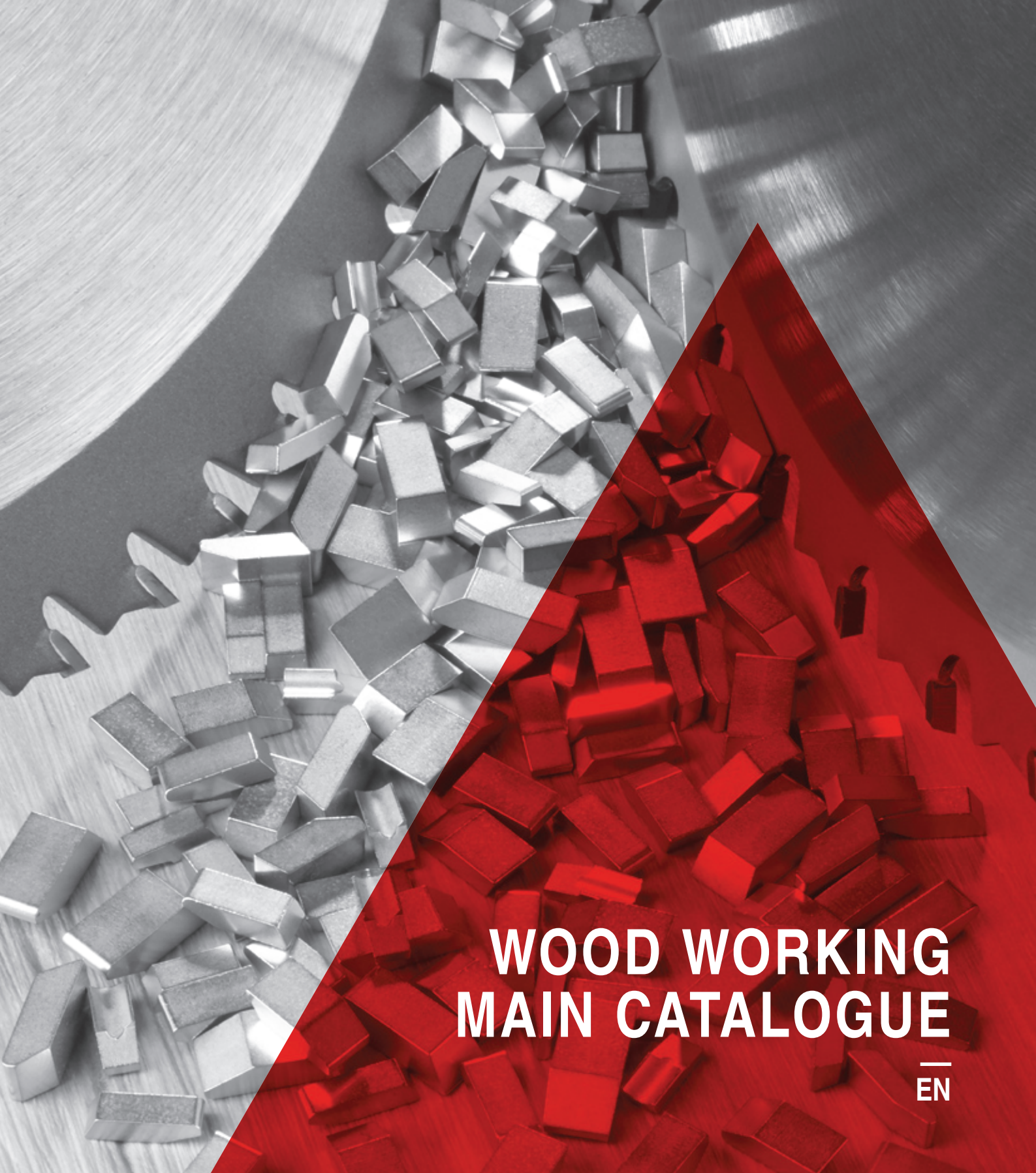




WOOD WORKING MAIN CATALOGUE

—
EN



Indexable knives

For tooling systems with replaceable indexable knives we produce a wide range of products in optimised carbide grades. Our indexable knives made of chrome grades or the grades SMG02 and UMG04 are the market leaders in this field. Our Easy Line indexable knives stand for a good price-performance-ratio in standard applications.

We also produce specific indexable knives according to customer request.





Composition and properties

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

Nano-grades

UMG04	K01	C4	2,2	15,30	2500	2400	96,0	3200	464000	5,4
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Ultrafine grades

SMG02	K01	C4	2,4	15,25	2300	2200	95,2	3500	508000	5,7
HE40	K40	N/A	20,0	13,15	1250	1240	88,8	3500	508000	12,1

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
HC20	K20	C2-C3	6,0	15,00	1640	1620	92,1	2200	319,000	9,9

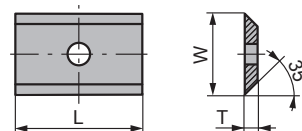
Medium grain grades

HC35	K30	C1	9,0	14,60	1400	1380	90,3	2800	335000	10,9
------	-----	----	-----	-------	------	------	------	------	--------	------

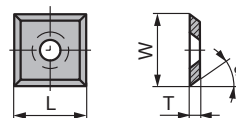
Comment:

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.

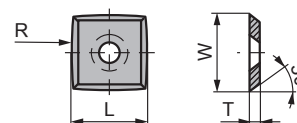
2. K_{IC}^* : The measured critical tension intensity factors (K_{IC}) depend to a high degree on the sample geometry and sample preparation. A direct comparison with parameters which have been determined by means of a different method is therefore not admissible.


EL CTK ST..


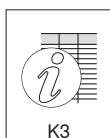
L [mm]	W [mm]	T [mm]	CTOPP10	
9.6	12.0	1.5	11791000	
15.0	12.0	1.5	11791001	
20.0	12.0	1.5	11791002	
30.0	12.0	1.5	11742547	
40.0	12.0	1.5	11791003	
50.0	12.0	1.5	11742544	
60.0	12.0	1.5	11791004	

EL CTK SC


L [mm]	W [mm]	T [mm]	CTOPP10	
14.0	14.0	2.0	11742545	

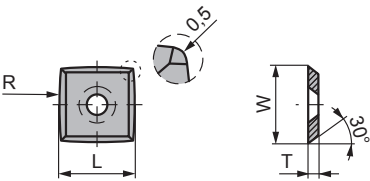
EL CTK SC..R


L [mm]	W [mm]	T [mm]	R [mm]	CTOPP10	
15.0	15.0	2.5	95	11778838	
15.0	15.0	2.5	115	11789902	
15.0	15.0	2.5	150	11789899	



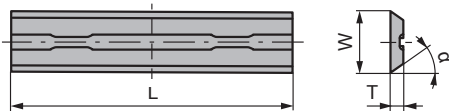


EL CTK SC..R

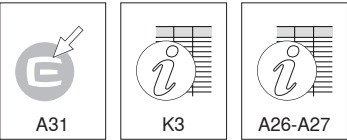


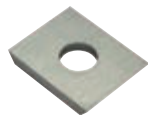
L [mm]	W [mm]	T [mm]	R [mm]	CTOPP10	
15.0	15.0	2.5	95	11827619	
15.0	15.0	2.5	115	11827617	
15.0	15.0	2.5	150	11827613	

EL CTK PK..

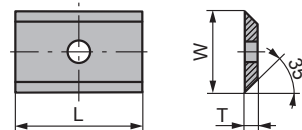


L [mm]	W [mm]	T [mm]	CTOPP10	
75.5	5.5	1.1	11871695	
80.5	5.9	1.2	11871691	
82.0	5.5	1.1	11801133	




CTK ST

 Easy Line
 see page(s)


A27

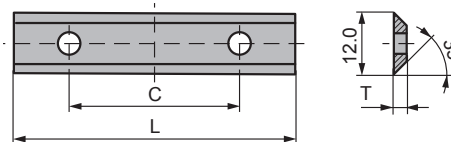


L [mm]	W [mm]	T [mm]	α [°]	UMG04	SMG02	KCR08	HC05	
7.5	12.0	1.5	35			80360013		
7.6	12.0	1.5	35				80330647	
9.6	12.0	1.5	35		80358956	80360014	80330652	
10.5	12.0	1.5	35			80360015	80239369	
11.0	12.0	1.5	35			80360016	80239370	
13.0	12.0	1.5	35			80360017	80239371	
15.0	12.0	1.5	35		80358308	80360018	80330640	
15.7	12.0	1.5	35			80360019	80239372	
17.0	12.0	1.5	35			80360020	80331564	
18.0	12.0	1.5	35			80360021	80239368	
19.0	12.0	1.5	35			80360022	80331565	
20.0	12.0	1.5	35	80358633	80330673	80358831	80330641	
24.7	12.0	1.5	35			80360023	80239680	

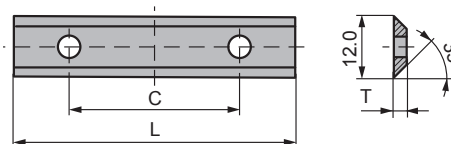
CTK ST

 Easy Line
 see page(s)

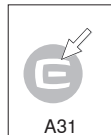

A27



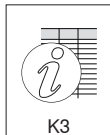
L [mm]	W [mm]	T [mm]	C [mm]	UMG04	SMG02	KCR08	HC05	
24.7	12.0	1.5	14			80360024	80239681	
30.0	12.0	1.5	14	80358634	80330674	80358833	80330642	
40.0	12.0	1.5	26	82009287	80358316	80360025	80330649	
50.0	12.0	1.5	26	80358635	80330675	80358835	80330643	
60.0	12.0	1.5	26		80358317	80360026	80330644	

CTK ST


L [mm]	W [mm]	T [mm]	C [mm]	HC05	MG18
30.0	12.0	2.5	14	82015043	82028333



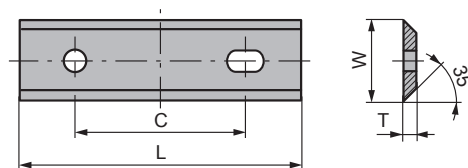
A31



K3

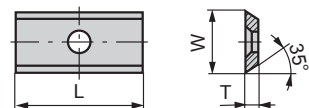
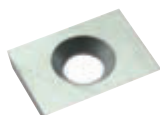


CTK ST

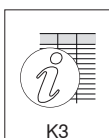


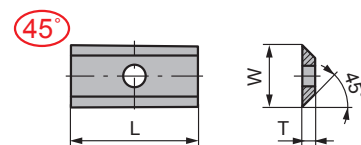
L [mm]	W [mm]	T [mm]	C [mm]	KCR08	
80.0	13.0	2.2	60	80360069	
100.0	13.0	2.2	60	80360084	
120.0	13.0	2.2	60	80360085	

CTK ST.. SH

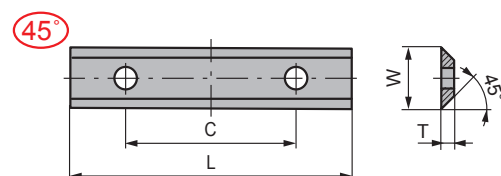


L [mm]	W [mm]	T [mm]	SMG02	
20.0	14.3	2.5	82030290	

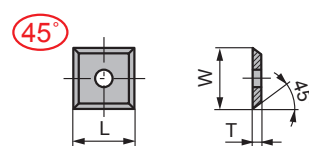
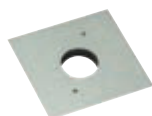



CTK ST.. 45°


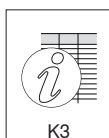
L [mm]	W [mm]	T [mm]	MG18	
7.5	12.0	1.5	80330520	
15.0	12.0	1.5	80330522	
20.0	12.0	1.5	80330523	
24.7	12.0	1.5	80332389	

CTK ST.. 45°


L [mm]	W [mm]	T [mm]	C [mm]	MG18	
30.0	12.0	1.5	14	80330524	
40.0	12.0	1.5	26	80330525	
50.0	12.0	1.5	26	80330526	
60.0	12.0	1.5	26	80330527	

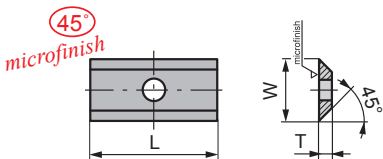
CTK FC.. 45°


L [mm]	W [mm]	T [mm]	MG18	
12.0	12.0	1.5	80330521	



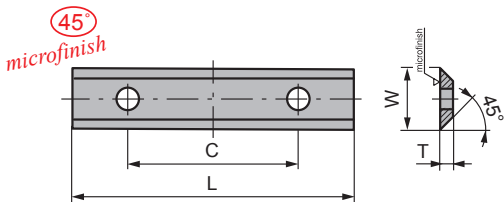


CTK ST.. MIC45°



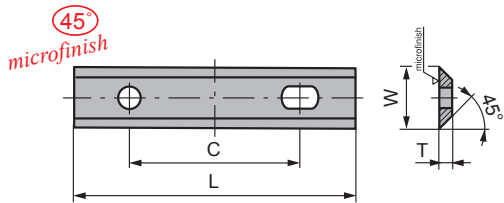
L [mm]	W [mm]	T [mm]	MG18	HE40
9.6	12.0	1.5	80359051	80359044
15.0	12.0	1.5	80330537	80359045
20.0	12.0	1.5	80330538	80357973

CTK ST.. MIC45°



L [mm]	W [mm]	T [mm]	C [mm]	MG18	HE40
30.0	12.0	1.5	14	80330539	80357974
40.0	12.0	1.5	26	80330540	80359046
50.0	12.0	1.5	26	80330541	80357975
60.0	12.0	1.5	26	80330542	80359047

CTK ST.. MIC45°



L [mm]	W [mm]	T [mm]	C [mm]	MG18	HE40
80.0	13.0	2.2	60	80359052	80359048

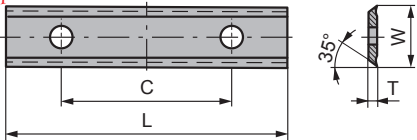




CTK ST.. CB

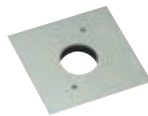


with chip breaker

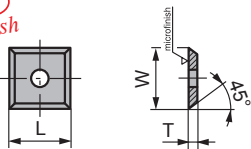


L [mm]	W [mm]	T [mm]	C [mm]	HE40	
20.0	12.0	1.5	0	80357984	
30.0	12.0	1.5	14	80357985	
50.0	12.0	1.5	26	80357986	

CTK FC.. MIC45°

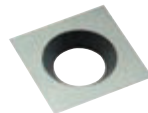


*45°
microfinish*

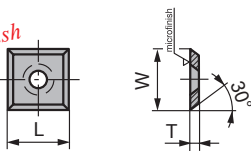


L [mm]	W [mm]	T [mm]	MG18	HE40
12.0	12.0	1.5	80330536	80359049

CTK SC.. MIC



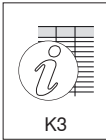
microfinish



L [mm]	W [mm]	T [mm]	MG18	HE40
14.0	14.0	2.0	80332257	80359050

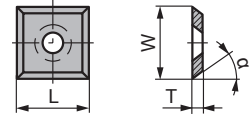
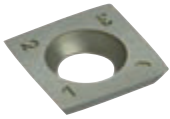
STANDARD 45° – MICROFINISH

KNIVES



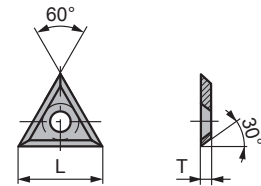


CTK SC..



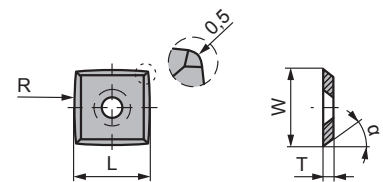
L [mm]	W [mm]	T [mm]	α [°]	MG18	SMG02	KCR08	HC05	HC35
10.5	10.5	1.5	35	80330882				
13.0	13.0	2.5	30	80357494				82001035
13.4	13.4	1.5	30					80332547
13.6	13.6	2.0	45					80239418
14.0	14.0	1.2	30					80330669
14.0	14.0	1.7	30					80331749
14.0	14.0	2.0	30	80239725	80332539	80359802	80332394	80330668
14.6	14.6	2.5	30			11444230		
15.0	15.0	2.5	30	82001124				

CTK SC.. 3CUT

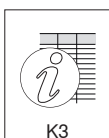


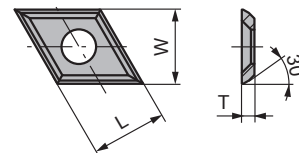
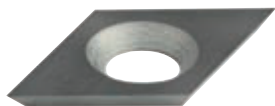
L [mm]	T [mm]	α [°]	MG18
22.0	2.0	30	80239466

CTK SC..R

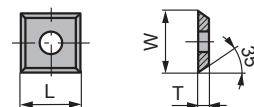
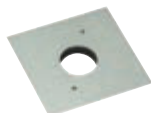


L [mm]	W [mm]	T [mm]	R [mm]	α [°]	HC35	SMG02	KCR08	HC05	MG18
14.0	14.0	2.0	100	30	80359039				
15.0	15.0	2.5	115	30				82003329	82023168
15.0	15.0	2.5	115	30			82019711		
15.0	15.0	2.5	115	30					
15.0	15.0	2.5	150	30				11281810	11225484
15.0	15.0	2.5		30		82018721	82022498	82018719	
15.0	15.0	2.5		37				82018720	

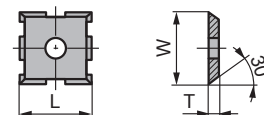



CTK SC.. RHO


L [mm]	T [mm]	α [°]	HC05	
14.0	2.0	30.0	80332377	

CTK FC..


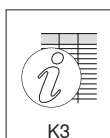
L [mm]	W [mm]	T [mm]	β [°]	SMG02	KCR08	HC05	
10.5	10.5	1.5	35		80360027		
12.0	12.0	1.5	35	80358314	80360030	80330657	
15.0	15.0	2.0	35		11235079		
17.0	17.0	2.0	35		80360028	80239386	
19.0	19.0	2.0	35		80360029	80239387	

CTK FC.. CB


L [mm]	T [mm]	α [°]	MG18	
15.0	2.0	30	80239392	



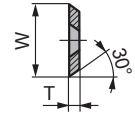
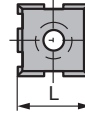
A31



K3

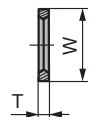
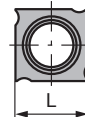


CTK FC.. CB/SH

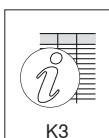


L [mm]	T [mm]	α [°]	MG18	
15.0	2.0	30	82009817	

CTK GR..



L [mm]	W [mm]	T [mm]	HC20	
14.0	14.0	2.0	80359032	
14.0	14.0	2.5	80332764	
14.0	14.0	3.0	80359033	
18.0	18.0	1.95	80330658	
18.0	18.0	2.5	80330659	
18.0	18.0	2.95	80331492	
18.0	18.0	3.7	80239391	
18.0	18.0	4.0	80331493	

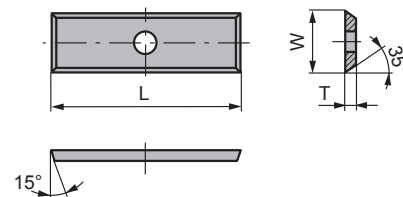




KNIVES

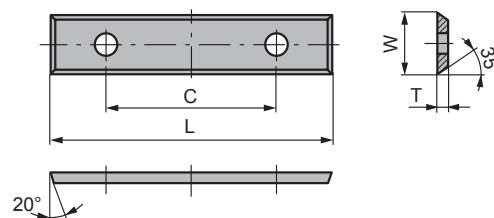
4 CUTTING EDGES

CTK FC..



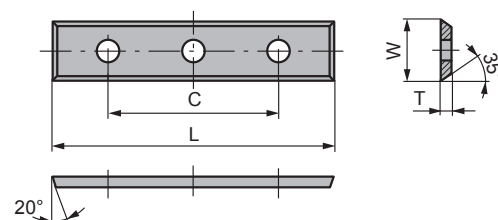
L [mm]	W [mm]	T [mm]	SMG02	HC05
9.0	12.0	1.5		80239376
10.0	12.0	1.5		80239374
19.4	12.0	1.5	80359075	
19.5	12.0	1.5		11935393

CTK FC..

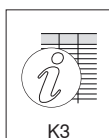


L [mm]	W [mm]	T [mm]	C [mm]	UMG04	SMG02	KCR08	HC05
29.0	12.0	1.5	14				80330711
29.5	12.0	1.5	14		80359076	80360082	80331886
29.2	12.0	1.5	14	80359079			
29.5	9.0	1.5	14			80360081	80331173
49.2	12.0	1.5	26	80359080	80359077	80360089	80331887
49.2	9.0	1.5	26			80360083	80359034
59.2	12.0	1.5	26		80359078		80359035

CTK FC.. 3H

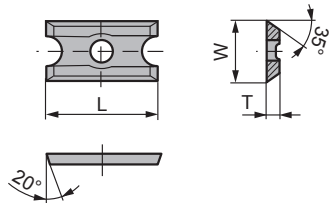


L [mm]	W [mm]	T [mm]	C [mm]	SMG02	KCR08	HC05	
50.0	12.0	1.7	37	82004411	80358958	80419334	



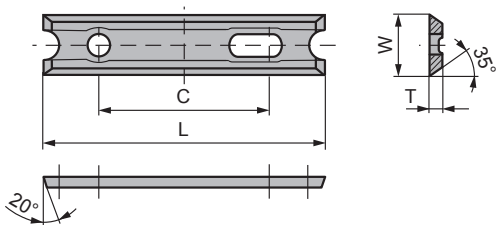


CTK ECO.. FC



L [mm]	W [mm]	T [mm]	KCR08	
19.2	12.0	1.5	11507903	

CTK ECO.. FC

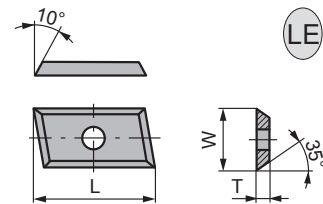


L [mm]	W [mm]	T [mm]	C [mm]	KCR08	
29.2	12.0	1.5	14	11507905	
49.2	12.0	1.5	26	11507910	



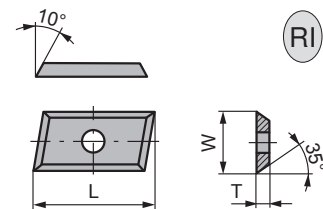


CTK SK.. LE..°



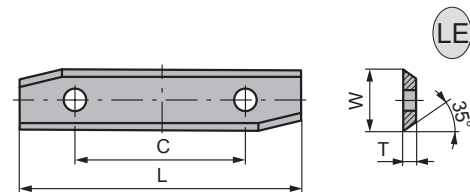
L [mm]	W [mm]	T [mm]	KCR08	HC05
19.5	12.0	1.5	80360076	80239367

CTK SK.. RI..°



L [mm]	W [mm]	T [mm]	KCR08	HC05
19.5	12.0	1.5	80360075	80239366

CTK SK.. LE..°



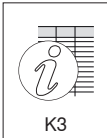
L [mm]	W [mm]	T [mm]	C [mm]	KCR08	HC05
29.5	12.0	1.5	14	80360071	80330648
49.5	12.0	1.5	26	80360073	80359036

SLANTING KNIVES/BOSSED

KNIVES



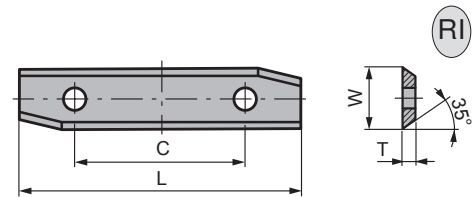
A31



K3

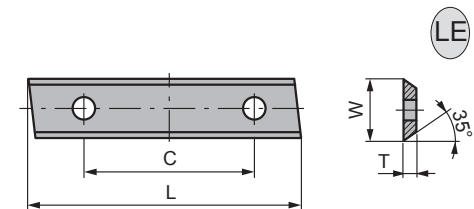


CTK SK.. RI..°



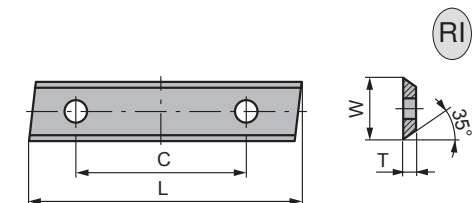
L [mm]	W [mm]	T [mm]	C [mm]	KCR08	HC05
29.5	12.0	1.5	14	80360070	80239365
49.5	12.0	1.5	26	80360072	80359037

CTK SK.. LE..°

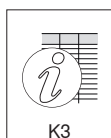


L [mm]	W [mm]	T [mm]	C [mm]	KCR08	HC05
29.5	12.0	1.5	14	80360077	80330646
49.5	12.0	1.5	26	80360079	80239361

CTK SK.. RI..°

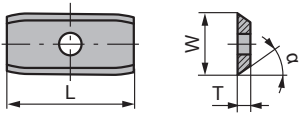


L [mm]	W [mm]	T [mm]	C [mm]	KCR08	HC05
29.5	12.0	1.5	14	80360078	80330645
49.5	12.0	1.5	26	80360080	80239360



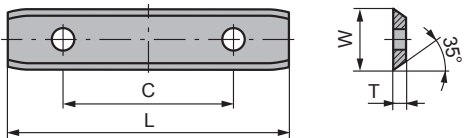


CTK ST.. BO



L [mm]	W [mm]	T [mm]	α [°]	HC05	
20.0	12.0	1.5	35	80359038	
24.0	12.0	1.5	40	82000067	
24.7	12.0	1.5	40	80334040	

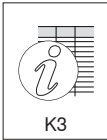
CTK ST.. BO



L [mm]	W [mm]	T [mm]	C [mm]	HC05	
30.0	12.0	1.5	14	80357890	
50.0	12.0	1.5	26	80357892	
40.0	12.0	1.5	26	82018841	



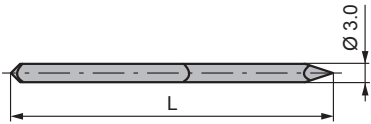
A31



K3

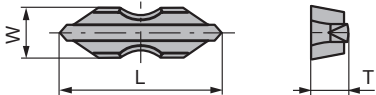


CTK CP..



L [mm]	D [mm]		HC35	
33.5	3.0		80162624	

CTK SC..

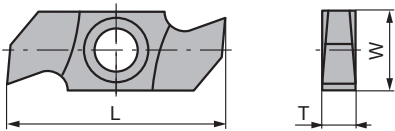


L [mm]	W [mm]	T [mm]	HC20	
18.0	6.0	3.5	80360002	



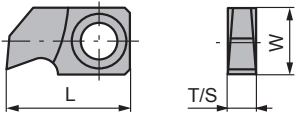


CTK GR..



L [mm]	W [mm]	T [mm]	HC35	CTOPP10
34.0	16.0	3.2	80239830	11921649
34.0	16.0	4.0	80239831	11921650
34.0	16.0	5.0	80239832	11921651

CTK GR..

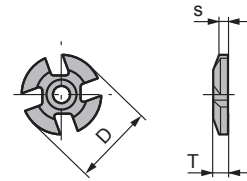


L [mm]	W [mm]	T [mm]	MG18	CTOPP10
24.5	13.0	3.0		11921643
24.5	13.0	4.0	80357834	11921646
24.5	13.0	5.0	80358124	11921648



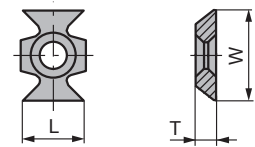


CTK CH..



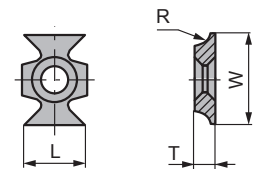
T [mm]	D [mm]	S [mm]	HC20	
4.6	25.0	2.8	80239567	

CTK CH.. 45°



L [mm]	W [mm]	T [mm]	HC20	CTOPP10	KCR08	
16.0	22.0	5.0	80330575		11498133	
16.5	22.0	5.0		11921629		

CTK CH.. R

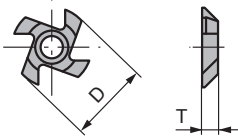


L [mm]	W [mm]	T [mm]	R [mm]	HC20	CTOPP10	KCR08	
16.0	22.0	5.0	1.0	80359041	11921631		
16.0	22.0	5.0	1.5	80330576		11844764	
16.0	22.0	5.0	2.0	80330577	11921635	11716752	
16.0	22.0	5.0	2.5	80330579	11921636	11716750	
16.0	22.0	5.0	3.0	80330578	11921638	11498136	
16.0	22.0	5.0	5.0	80333980	11921640		
16.0	22.0	5.0	6.0	80359042			





CTK CH.. RI/LE

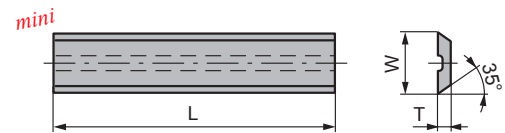


	D [mm]	T [mm]	HC20	
RI	25.0	5.0	80239423	
LE	25.0	5.0	80239424	



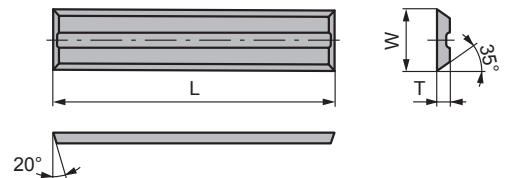


CTK MK..FG



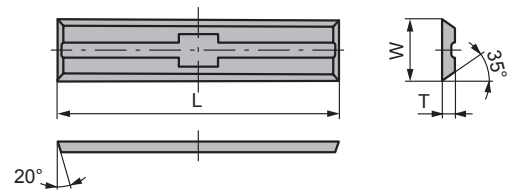
L [mm]	W [mm]	T [mm]	HC05	
12.0	5.5	1.1	80330662	
20.0	5.5	1.1	80330660	
30.0	5.5	1.1	80331568	
40.0	5.5	1.1	80330661	
50.0	5.5	1.1	80239396	
60.0	5.5	1.1	80359040	

CTK MK..BG



L [mm]	W [mm]	T [mm]	HC05	
12.0	5.5	1.1	80239398	

CTK MK..BCG

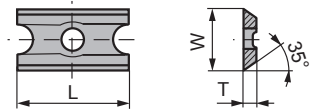


L [mm]	W [mm]	T [mm]	HC05	
20.0	4.1	1.1	80331404	
20.0	5.5	1.1	80331406	
25.0	5.5	1.1	80331408	
30.0	5.5	1.1	80331407	
40.0	5.5	1.1	80331381	
50.0	5.5	1.1	80331409	



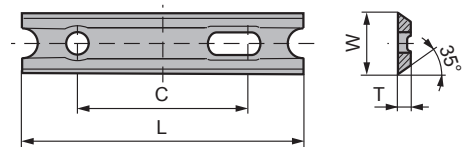


CTK ECO..



L [mm]	W [mm]	T [mm]	KCR08	
20.0	12.0	1.5	80359581	

CTK ECO..

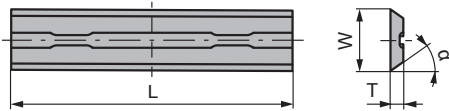


L [mm]	W [mm]	T [mm]	C [mm]	KCR08	
30.0	12.0	1.5	14	80359561	
50.0	12.0	1.5	26	80359562	





CTK PK..



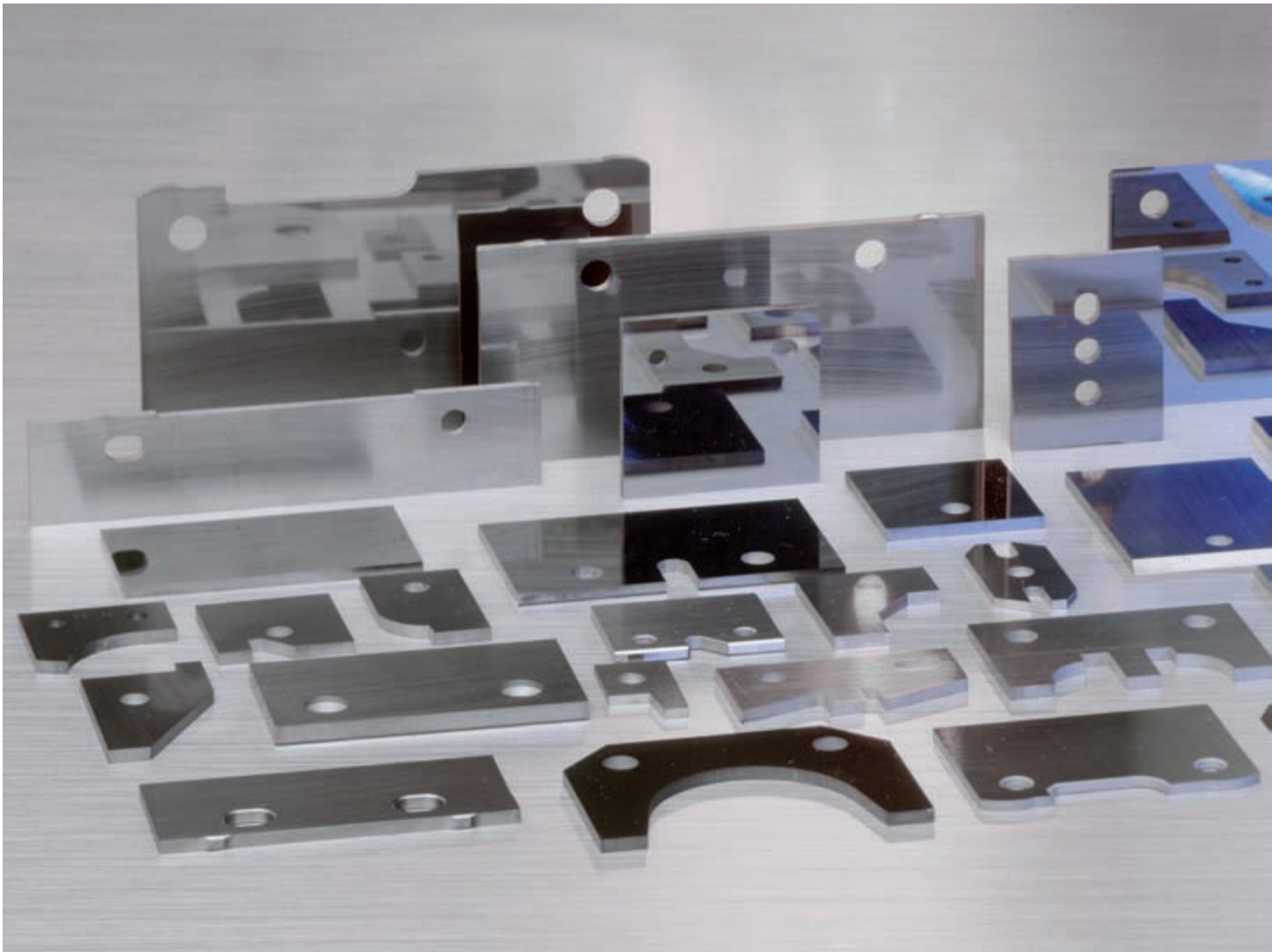
L [mm]	W [mm]	T [mm]	HC35	
56.0	5.5	1.1	80333440	
75.5	5.5	1.1	80330664	
78.0	5.5	1.1	80331436	
80.5	5.9	1.2	80330666	
82.0	5.5	1.1	80330665	
92.0	5.5	1.2	80332144	
102.0	5.5	1.1	80239410	





Blanks for profiling

A wide product range is available for tools with profiled blanks, including our leading carbide grades like KCR08. Other product innovations from CERATIZIT represent the market standard, such as 3-p blanks and multi-purpose blanks. In addition, we develop specific solutions together with our business partners.





Composition and properties

CERATIZIT grade code	ISO code	U.S. code	Binder [m %]	Density [g/cm ³]	Hardness			Transverse rupture strength		Fracture toughness [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.

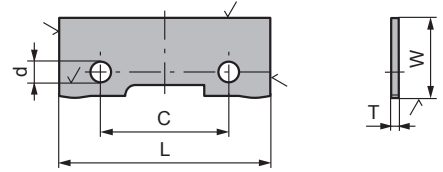
2. K_{IC}^* : The measured critical tension intensity factors (K_{IC}) depend to a high degree on the sample geometry and sample preparation. A direct comparison with parameters which have been determined by means of a different method is therefore not admissible.



BLANKS FOR PROFILING

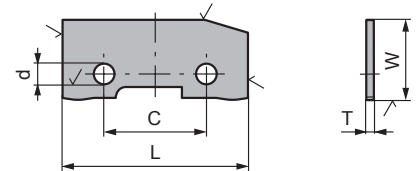
SUPERPROFILER

CTBL SP20..

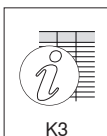


L [mm]	W [mm]	T [mm]	C [mm]	d [mm]	KCR08	HC05	MG18	HE40
30.6	25.5	1.5	20	4.0	82002867		80330712	
40.4	34.5	1.5	28	4.0	11509585			
40.4	34.5	2.0	28	4.0	82023341			
40.6	28.2	1.5	28	4.0	80301115	80166732	80330307	
40.6	28.2	2.0	28	4.0	80301116	80300300	80330308	
40.6	31.5	1.5	28	4.0	11509584			
40.6	31.5	2.0	28	4.0	82025820			
40.6	40.6	2.0	28	5.0	82002869	80330853	80330852	
50.7	34.5	1.5	35	4.0	11805260	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..

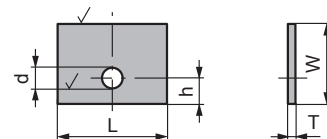


L [mm]	W [mm]	T [mm]	C [mm]	d [mm]	KCR08	HC05
50.3	45.6	2.0	35	4.0	11964343	80171142



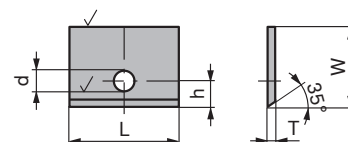


CTBL ST10..

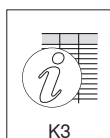


L [mm]	W [mm]	T [mm]	h [mm]	d [mm]	KCR08	HC05	MG18	HE40
15.0	15.5	2.0	6.5	4.2	11342113	11342095		
15.0	20.5	2.0	6.5	4.2	11342117			
15.0	25.5	2.0	6.5	4.2	11342115			
15.0	30.5	2.0	6.5	4.2	11342119	82009469		
20.0	20.5	2.0	6.5	4.2	80301010	80332772	80300514	80300507
20.0	25.5	2.0	6.5	4.2	80301011	80331500	80300515	80300508
20.0	30.5	2.0	6.5	4.2	80301012		80300516	80300509
20.0	35.5	2.0	6.5	4.2	80301013	80357654	82018614	
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
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			

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	80301047			
15.0	20.5	2.0	6.3	4.2	80301048		80300425	80300401
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		80300428	80300404
20.0	25.5	2.0	6.3	4.2	80301052		80300429	80300405
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
20.0	40.5	2.0	6.3	4.2	11965561			
25.0	20.5	2.0	6.3	4.2	80301055	80332288	80300432	80300408
25.0	25.5	2.0	6.3	4.2	80301056		80300433	80300409
25.0	30.5	2.0	6.3	4.2	80301057		80300434	80300410
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

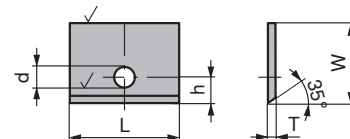




BLANKS FOR PROFILING

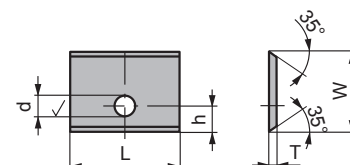
STANDARD – HOLE Ø 4.2 mm

CTBL ST11..

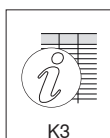


L [mm]	W [mm]	T [mm]	h [mm]	d [mm]	KCR08	HC05	MG18	HE40
30.0	25.5	2.0	6.3	4.2	80301060	80332291	80300437	80300413
30.0	30.5	2.0	6.3	4.2	80301061	80332292	80300438	80300414
30.0	35.5	2.0	6.3	4.2	80301062	80357694	80300439	80300415
30.0	40.5	2.0	6.3	4.2	80301063	80300400	80300440	80300416
35.0	20.5	2.0	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	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	11964489		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

CTBL ST12..

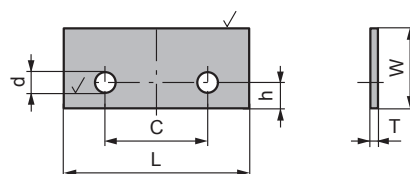


L [mm]	W [mm]	T [mm]	h [mm]	d [mm]	KCR08	HC05	MG18	HE40
12.0	14.5	2.0	6.0	4.2	11964634	80330839		
15.0	20.0	2.0	6.3	4.2			80300710	80300700
15.0	20.5	2.0	6.3	4.2	11964635			
20.0	20.0	2.0	6.3	4.2		80357732	80300711	80300701
20.0	30.0	2.0	6.3	4.2		80357733	80300712	80300702
25.0	20.0	2.0	6.3	4.2		80357734	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
25.0	30.5	2.0	6.3	4.2	11964636			
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



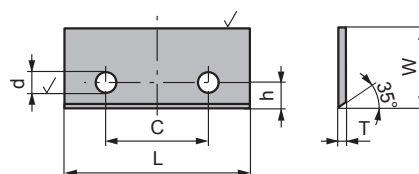


CTBL ST20..

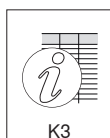


L [mm]	W [mm]	T [mm]	C [mm]	h [mm]	d [mm]	KCR08	HC05	MG18	HE40
30.0	20.5	2.0	14	6.5	4.2	80301022	80331501	82018921	
30.0	25.5	2.0	14	6.5	4.2	80301023	80331502	80300218	80300201
30.0	30.5	2.0	14	6.5	4.2	80301025	80357669	80300219	80300202
30.0	35.5	2.0	14	6.5	4.2	80301027	80357670	80300220	80300203
35.0	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		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
60.0	45.5	2.0	26	6.5	4.2	80301044			
80.0	25.5	2.0	60	6.5	4.2	80301045		80300233	80300216
80.0	35.5	2.0	60	6.5	4.2	80301046	80357684		
80.0	40.5	2.0	60	6.5	4.2	80357685		80300234	80300217

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	80301072		82015150	
35.0	25.5	2.0	14	6.3	4.2	80301073		82026992	
35.0	30.5	2.0	14	6.3	4.2	80301074	80357707		
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

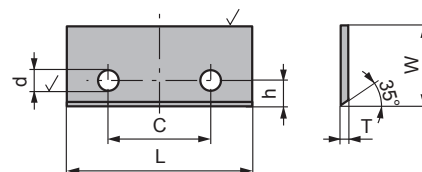




BLANKS FOR PROFILING

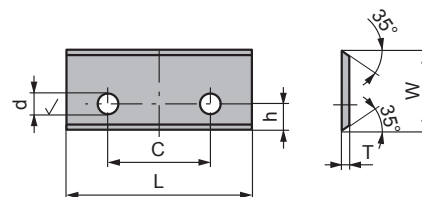
STANDARD – HOLE Ø 4.2 mm

CTBL ST21..



L [mm]	W [mm]	T [mm]	C [mm]	h [mm]	d [mm]	KCR08	HC05	MG18	HE40
40.0	25.5	2.0	26	6.3	4.2	80301077	80357710	80300621	80300602
40.0	30.5	2.0	26	6.3	4.2	80301078		80300623	80300604
40.0	35.5	2.0	26	6.3	4.2	80301079	80357713	80300625	80300606
40.0	40.5	2.0	26	6.3	4.2	80301080	80357715	80300626	80300607
50.0	20.5	2.0	26	6.3	4.2	80301081		80300627	80300608
50.0	25.5	2.0	26	6.3	4.2	80301082	80357716		82015962
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			
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			
60.0	40.5	2.0	26	6.3	4.2	80301090	80331499	80300634	80300615
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
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

CTBL ST22..

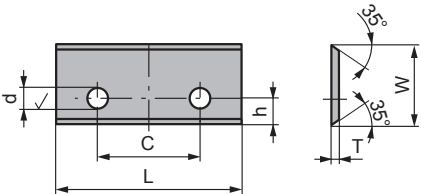


L [mm]	W [mm]	T [mm]	C [mm]	h [mm]	d [mm]	KCR08	HC05	MG18	HE40
40.0	20.0	2.0	26	6.3	4.2	11965983	80300800		
40.0	25.0	2.0	26	6.3	4.2	11965986		80300834	80300821
40.0	30.0	2.0	26	6.3	4.2	11965987		80300835	80300822
40.0	32.0	2.0	26	6.3	4.2		80300802		
40.0	35.0	2.0	26	6.3	4.2	11965992	80300803	80300837	80300824
40.0	40.0	2.0	26	6.3	4.2	11965993	80300805	80300839	80300825
45.0	35.0	2.0	26	6.3	4.2	11965994	80300807		
50.0	25.0	2.0	26	6.3	4.2	11965995	80300808		
50.0	30.0	2.0	26	6.3	4.2	11965997	80300809	80300840	80300826
50.0	35.0	2.0	26	6.3	4.2		80300810		





CTBL ST22..



L [mm]	W [mm]	T [mm]	C [mm]	h [mm]	d [mm]	KCR08	HC05	MG18	HE40
50.0	40.0	2.0	26	6.3	4.2	11965998	80300811	80300841	80300827
60.0	25.0	2.0	26	6.3	4.2	11965999	80300816	80300842	80300828
60.0	30.0	2.0	26	6.3	4.2	11966000	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	11966002		80300845	80300831

STANDARD – HOLE Ø 4.2 mm

BLANKS FOR PROFILING

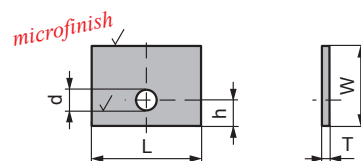




BLANKS FOR PROFILING

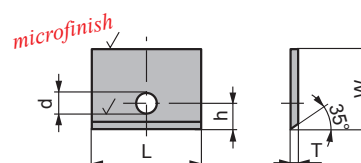
ITALIAN STYLE – HOLE Ø 4.5 mm

CTBL IT10..

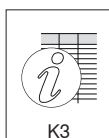


L [mm]	W [mm]	T [mm]	h [mm]	d [mm]	HC05	KCR08
15.0	15.5	2.0	6.5	4.5	82030381	11965039
15.0	20.5	2.0	6.5	4.5	82030356	11965050
15.0	25.5	2.0	6.5	4.5	82029861	11965053
15.0	30.5	2.0	6.5	4.5	82029862	11965055
16.0	20.5	2.0	6.5	4.5	82029867	11482195
20.0	20.5	2.0	6.5	4.5	82029866	11965058
20.0	25.5	2.0	6.5	4.5	82029865	11965072
20.0	30.5	2.0	6.5	4.5	82029868	11965117
20.0	35.5	2.0	6.5	4.5	82030484	11965119
25.0	20.5	2.0	6.5	4.5	82029711	11965122
25.0	25.0	2.0	6.5	4.5		11556261
25.0	25.5	2.0	6.5	4.5	82029712	
25.0	30.5	2.0	6.5	4.5	82029713	11965124
25.0	35.5	2.0	6.5	4.5	82029714	11965126
25.0	40.5	2.0	6.5	4.5	11844907	11965283
30.0	20.5	2.0	6.5	4.5	82029718	11965285
30.0	25.5	2.0	6.5	4.5	82029719	11965288
30.0	30.5	2.0	6.5	4.5	82029720	11965292
30.0	35.5	2.0	6.5	4.5	82029871	11827297
30.0	40.5	2.0	6.5	4.5	82029863	11965294
35.0	25.5	2.0	6.5	4.5	82029721	11965295
35.0	30.5	2.0	6.5	4.5	82029709	11965299
35.0	35.5	2.0	6.5	4.5	82029722	11965301
35.0	40.5	2.0	6.5	4.5	82029864	11965303

CTBL IT11..

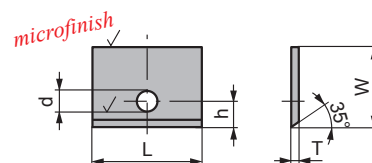


L [mm]	W [mm]	T [mm]	h [mm]	d [mm]	HC05	KCR08
9.6	25.5	2.0	6.3	4.5	6228277	11965308
15.0	15.5	2.0	6.3	4.5	82029759	11965310
15.0	20.5	2.0	6.3	4.5	82029760	11965312
15.0	25.5	2.0	6.3	4.5	82029753	11965315
15.0	30.5	2.0	6.3	4.5	82029761	11965333
20.0	20.5	2.0	6.3	4.5	82029762	11965337
20.0	25.5	2.0	6.3	4.5	82029752	11965340
20.0	30.5	2.0	6.3	4.5	82030351	11965343
20.0	35.5	2.0	6.3	4.5	82029763	11965349



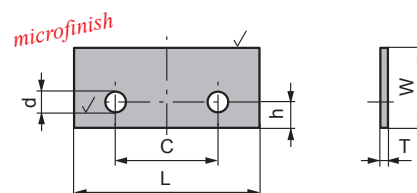


CTBL IT11..

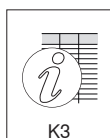


L [mm]	W [mm]	T [mm]	h [mm]	d [mm]	HC05	KCR08
25.0	20.5	2.0	6.3	4.5	82029754	11965355
25.0	25.5	2.0	6.3	4.5	82030378	11965363
25.0	30.5	2.0	6.3	4.5	82029755	11965365
25.0	35.5	2.0	6.3	4.5	82029764	11965367
30.0	20.5	2.0	6.3	4.5	82030353	11965374
30.0	25.5	2.0	6.3	4.5	82029756	11965380
30.0	30.5	2.0	6.3	4.5	82029757	11965382
30.0	35.5	2.0	6.3	4.5	82029872	11965391
30.0	40.5	2.0	6.3	4.5	82029751	11965397
35.0	20.5	2.0	6.3	4.5	82029767	11965401
35.0	25.5	2.0	6.3	4.5	82029768	11965415
35.0	30.5	2.0	6.3	4.5	82029769	11965419
35.0	35.5	2.0	6.3	4.5	82029758	11965426
35.0	40.5	2.0	6.3	4.5	82029770	11965429

CTBL IT20..



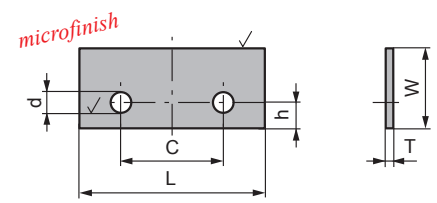
L [mm]	W [mm]	T [mm]	C [mm]	h [mm]	d [mm]	HC05	KCR08
30.0	20.5	2.0	14	6.5	4.5	82029778	11965436
30.0	25.5	2.0	14	6.5	4.5	82029779	11965441
30.0	30.5	2.0	14	6.5	4.5	82029846	11965444
30.0	35.5	2.0	14	6.5	4.5	82029847	11965448
30.0	40.5	2.0	14	6.5	4.5	82029727	11844700
35.0	25.5	2.0	14	6.5	4.5	82029848	11965452
35.0	30.5	2.0	14	6.5	4.5	82029777	11965456
35.0	35.5	2.0	14	6.5	4.5	82029849	11965458
35.0	40.5	2.0	14	6.5	4.5	82029728	11965474
40.0	20.5	2.0	26	6.5	4.5	82029845	11965475
40.0	25.5	2.0	26	6.5	4.5	82029850	11965480
40.0	30.5	2.0	26	6.5	4.5	82030486	11965481
40.0	35.5	2.0	26	6.5	4.5	82029852	11965482
40.0	40.5	2.0	26	6.5	4.5	82029853	11965493
50.0	20.5	2.0	26	6.5	4.5	82029854	11965500
50.0	25.5	2.0	26	6.5	4.5	82029780	11965502
50.0	30.5	2.0	26	6.5	4.5	82029851	11965506
50.0	35.5	2.0	26	6.5	4.5	82029855	11965512
50.0	40.5	2.0	26	6.5	4.5	82029856	11965514





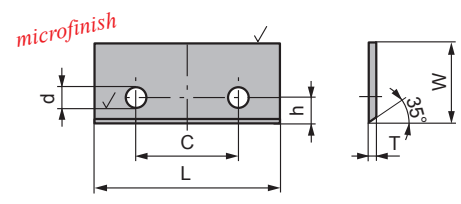
BLANKS FOR PROFILING ITALIAN STYLE – HOLE Ø 4.5 mm

CTBL IT20..

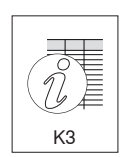


L [mm]	W [mm]	T [mm]	C [mm]	h [mm]	d [mm]	HC05	KCR08
50.0	45.5	2.0	26	6.5	4.5	82029729	11965517
60.0	20.5	2.0	26	6.5	4.5	82029730	11965518
60.0	25.5	2.0	26	6.5	4.5	82029731	11965521
60.0	30.5	2.0	26	6.5	4.5	82029732	11965522
60.0	35.5	2.0	26	6.5	4.5	82029857	11965527
60.0	40.5	2.0	26	6.5	4.5	82029870	11965530
60.0	45.5	2.0	26	6.5	4.5	82030487	11965531
70.0	30.5	2.0	26	6.5	4.5	82029733	11965535
80.0	25.5	2.0	60	6.5	4.5	82030488	11965537
80.0	30.5	2.0	60	6.5	4.5	82029734	11965541
80.0	35.5	2.0	60	6.5	4.5	82029859	11965546
80.0	40.5	2.0	60	6.5	4.5	82029860	11965548
80.0	50.5	2.0	60	6.5	4.5	82029776	11965551

CTBL IT21..



L [mm]	W [mm]	T [mm]	C [mm]	h [mm]	d [mm]	HC05	KCR08
30.0	25.5	2.0	14	6.3	4.5	82030355	11965552
30.0	30.5	2.0	14	6.3	4.5	82029737	11965601
30.0	35.5	2.0	14	6.3	4.5	82029738	11965602
35.0	25.5	2.0	18	6.3	4.5	6228274	11965603
35.0	30.5	2.0	18	6.3	4.5	6228275	11965605
35.0	35.5	2.0	18	6.3	4.5	6228276	11965636
40.0	20.5	2.0	26	6.3	4.5	82029773	11965638
40.0	25.5	2.0	26	6.3	4.5	82029739	11965641
40.0	30.5	2.0	26	6.3	4.5	82029740	11965647
40.0	35.5	2.0	26	6.3	4.5	82029742	11965648
40.0	40.5	2.0	26	6.3	4.5	82029744	11965650
50.0	20.5	2.0	26	6.3	4.5	82030349	11965657
50.0	25.5	2.0	26	6.3	4.5	82029775	11965659
50.0	30.5	2.0	26	6.3	4.5	82029745	11965667
50.0	35.5	2.0	26	6.3	4.5	82030380	11965670
50.0	40.5	2.0	26	6.3	4.5	82029746	11965678
60.0	25.5	2.0	26	6.3	4.5	82029774	11965680
60.0	30.5	2.0	26	6.3	4.5	82029747	11965682
60.0	35.5	2.0	26	6.3	4.5	82029748	11965683
60.0	40.5	2.0	26	6.3	4.5	82030350	11965700

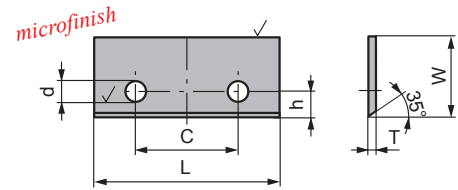


ITALIAN STYLE – HOLE Ø 4.5 mm

BLANKS FOR PROFILING



CTBL IT21..



L [mm]	W [mm]	T [mm]	C [mm]	h [mm]	d [mm]	HC05	KCR08
60.0	45.5	2.0	26	6.3	4.5	82029771	11965721
70.0	25.5	2.0	26	6.3	4.5	82029749	11965726
70.0	30.5	2.0	26	6.3	4.5	82029724	11965743
70.0	35.5	2.0	26	6.3	4.5	82029725	11965744
70.0	40.5	2.0	26	6.3	4.5	82030382	11965745
80.0	25.5	2.0	60	6.3	4.5	82029869	11965747
80.0	30.5	2.0	60	6.3	4.5	82029750	11965749
80.0	35.5	2.0	60	6.3	4.5	82029772	11965751
80.0	40.5	2.0	60	6.3	4.5	82029726	11965752
100.0	30.5	2.0	60	6.3	4.5	82029723	11965753

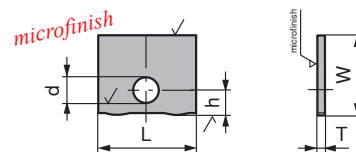




BLANKS FOR PROFILING

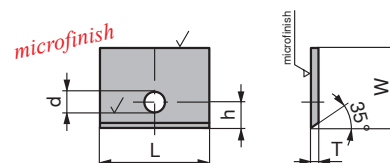
MULTIPURP – HOLE Ø 5.2 mm

CTBL MP10..

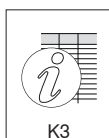


L [mm]	W [mm]	T [mm]	h [mm]	d [mm]	KCR08	
20.0	20.5	2.0	6.5	5.2	80302000	
20.0	25.5	2.0	6.5	5.2	80302001	
20.0	30.5	2.0	6.5	5.2	80302002	
20.0	35.5	2.0	6.5	5.2	80302003	
25.0	20.5	2.0	6.5	5.2	80302004	
25.0	25.5	2.0	6.5	5.2	80302005	
25.0	30.5	2.0	6.5	5.2	80302006	
25.0	35.5	2.0	6.5	5.2	80302007	
30.0	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..

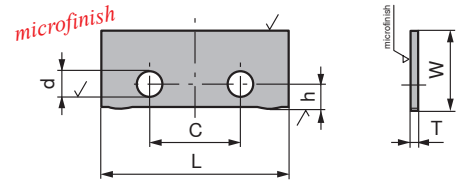


L [mm]	W [mm]	T [mm]	h [mm]	d [mm]	KCR08	
20.0	20.5	2.0	5.9	5.2	80302037	
20.0	25.5	2.0	5.9	5.2	80302038	
20.0	30.5	2.0	5.9	5.2	80302039	
20.0	35.5	2.0	5.9	5.2	80302040	
25.0	20.5	2.0	5.9	5.2	80302041	
25.0	25.5	2.0	5.9	5.2	80302042	
25.0	30.5	2.0	5.9	5.2	80302043	
25.0	35.5	2.0	5.9	5.2	80302044	
30.0	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	



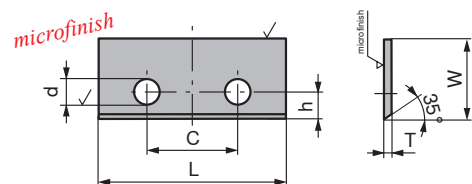


CTBL MP20..

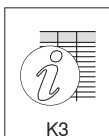


L [mm]	W [mm]	T [mm]	C [mm]	h [mm]	d [mm]	KCR08	
30.0	20.5	2.0	14	6.5	5.2	80302012	
30.0	25.5	2.0	14	6.5	5.2	80302013	
30.0	30.5	2.0	14	6.5	5.2	80302015	
30.0	35.5	2.0	14	6.5	5.2	80302017	
35.0	25.5	2.0	14	6.5	5.2	80302018	
35.0	30.5	2.0	14	6.5	5.2	80302019	
35.0	35.5	2.0	14	6.5	5.2	80302020	
40.0	20.5	2.0	26	6.5	5.2	80302021	
40.0	25.5	2.0	26	6.5	5.2	80302022	
40.0	30.5	2.0	26	6.5	5.2	80302023	
40.0	35.5	2.0	26	6.5	5.2	80302024	
40.0	40.5	2.0	26	6.5	5.2	80302025	
50.0	20.5	2.0	26	6.5	5.2	80302026	
50.0	25.5	2.0	26	6.5	5.2	80302027	
50.0	30.5	2.0	26	6.5	5.2	80302028	
50.0	32.3	2.0	24	6.5	5.2	80302029	
50.0	35.5	2.0	26	6.5	5.2	80302030	
50.0	40.5	2.0	26	6.5	5.2	80302031	
60.0	35.5	2.0	26	6.5	5.2	80302032	
60.0	45.5	2.0	26	6.5	5.2	80302034	
80.0	35.5	2.0	60	6.5	5.2	80302036	
60.0	40.5	2.0	26	6.5	5.2	80302033	
80.0	25.5	2.0	60	6.5	5.2	80302035	

CTBL MP21..



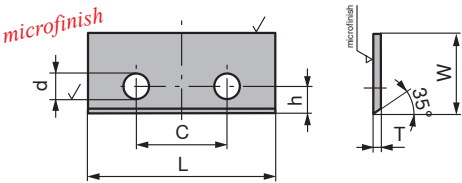
L [mm]	W [mm]	T [mm]	C [mm]	h [mm]	d [mm]	KCR08	
30.0	20.5	2.0	14	5.9	5.2	80302055	
30.0	25.5	2.0	14	5.9	5.2	80302056	
30.0	30.5	2.0	14	5.9	5.2	80302057	
30.0	35.5	2.0	14	5.9	5.2	80302058	
35.0	25.5	2.0	14	5.9	5.2	80302059	
35.0	30.5	2.0	14	5.9	5.2	80302060	
35.0	35.5	2.0	14	5.9	5.2	80302061	
40.0	20.5	2.0	26	5.9	5.2	80302062	
40.0	25.5	2.0	26	5.9	5.2	80302063	
40.0	30.5	2.0	26	5.9	5.2	80302064	





BLANKS FOR PROFILING
MULTIPURP – HOLE Ø 5.2 mm

CTBL MP21..



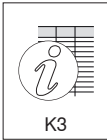
L [mm]	W [mm]	T [mm]	C [mm]	h [mm]	d [mm]	KCR08	
40.0	35.5	2.0	26	5.9	5.2	80302065	
40.0	40.5	2.0	26	5.9	5.2	80302066	
50.0	20.5	2.0	26	5.9	5.2	80302067	
50.0	25.5	2.0	26	5.9	5.2	80302068	
50.0	30.5	2.0	26	5.9	5.2	80302069	
50.0	35.5	2.0	26	5.9	5.2	80302070	
50.0	40.5	2.0	26	5.9	5.2	80302071	
60.0	25.5	2.0	26	5.9	5.2	80302072	
60.0	30.5	2.0	26	5.9	5.2	80302073	
60.0	35.5	2.0	26	5.9	5.2	80302074	
60.0	40.5	2.0	26	5.9	5.2	80302076	
70.0	25.5	2.0	26	5.9	5.2	80302077	
70.0	30.5	2.0	26	5.9	5.2	80302078	
70.0	35.5	2.0	26	5.9	5.2	80302079	
80.0	25.5	2.0	60	5.9	5.2	80302081	
80.0	30.5	2.0	60	5.9	5.2	80302082	
80.0	35.5	2.0	60	5.9	5.2	80302083	
60.0	39.5	2.0	44	5.9	5.2	80302075	
80.0	40.5	2.0	60	5.9	5.2	80302084	

MULTIPURP – HOLE Ø 5.2 mm

BLANKS FOR PROFILING



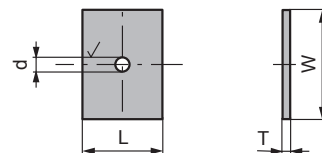
A31



K3

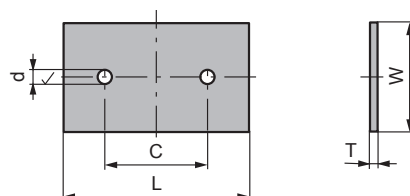


CTBL RV10..



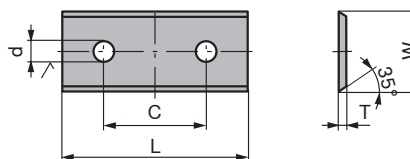
L [mm]	W [mm]	T [mm]	d [mm]	HC05	KCR08
12.0	20.4	2.0	4.2	81100001	11965758
24.0	22.0	2.0	4.2	80168821	80301107
28.0	24.0	2.0	4.2	80168822	11965760
32.0	24.0	2.0	4.2	80168823	11965765
36.0	28.0	2.0	4.2	80168824	80301108
40.0	26.0	2.0	4.2	80168825	11965767

CTBL RV20..

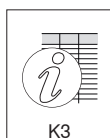


L [mm]	W [mm]	T [mm]	C [mm]	d [mm]	HC05	KCR08
40.0	20.4	2.0	26	4.2	81100041	11965777
42.0	32.0	2.0	24	4.2	80168826	11965770
48.0	36.0	2.0	24	4.2	80168827	11965774

CTBL RV22..



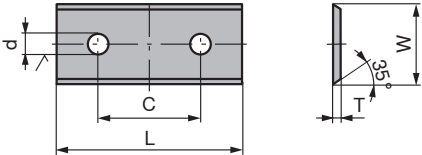
L [mm]	W [mm]	T [mm]	C [mm]	d [mm]	HC05	KCR08
30.0	25.0	2.0	20	4.2	80168871	11965780
40.0	30.0	2.0	20	4.2	80168872	80301099
40.0	32.62	2.0	20	4.2	80300900	11965781
40.0	35.0	2.0	20	4.2	80300901	11965785
40.0	35.0	2.0	26	4.2	80300902	80301100
40.0	37.82	2.0	20	4.2	80300903	11965792
40.0	42.86	2.0	20	4.2	80300904	80301101
42.0	32.0	2.0	26	4.2	80300905	11965812
45.0	35.0	2.0	26	4.2	80300906	11965821





BLANKS FOR PROFILING
INDEXABLE BLANKS – HOLE Ø 4.2 mm

CTBL RV22..



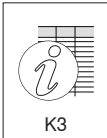
L [mm]	W [mm]	T [mm]	C [mm]	d [mm]	HC05	KCR08
50.0	16.0	2.0	26	4.2	80300907	11965834
50.0	20.0	2.0	26	4.2	80300908	11965835
50.0	25.0	2.0	26	4.2	80300909	11965836
50.0	30.0	2.0	26	4.2	80300910	80301102
50.0	30.0	2.0	34	4.2	80300911	11965837
50.0	40.0	2.0	34	4.2	80300912	11965838
50.0	45.0	2.0	34	4.2	80168873	11965839
51.0	26.0	2.0	26	4.2	80300913	11965840
52.0	34.0	2.0	24	4.2	80168828	11965846
60.0	19.0	2.0	44	4.2	80168835	11965847
60.0	20.0	2.0	26	4.2	80300914	80301103
60.0	25.0	2.0	26	4.2	80168836	80301104
60.0	25.0	2.0	44	4.2	80300915	11965848
60.0	30.0	2.0	26	4.2	80300916	11965849
60.0	30.0	2.0	44	4.2	80300917	11965850
60.0	32.62	2.0	20	4.2	80300918	11965851
60.0	35.0	2.0	26	4.2	80357749	80301105
60.0	35.0	2.0	44	4.2	80168837	80301106
60.0	37.82	2.0	20	4.2	80300919	11965852
60.0	40.0	2.0	44	4.2	80300999	11965853
60.0	42.86	2.0	20	4.2	80300920	11965855

INDEXABLE BLANKS – HOLE Ø 4.2 mm

BLANKS FOR PROFILING



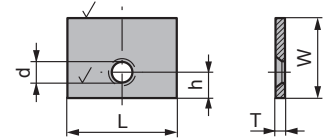
A31



K3

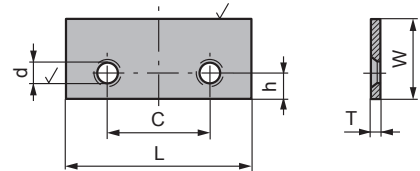


CTBL CH10..

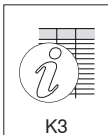


L [mm]	W [mm]	T [mm]	h [mm]	d [mm]	KCR08	MG18
20.0	20.5	3.0	7.0	4.5	80301120	
20.0	25.5	3.0	7.0	4.5	80301121	80300543
20.0	30.5	3.0	7.0	4.5	80301122	
20.0	35.5	3.0	7.0	4.5	80301123	
25.0	25.5	3.0	7.0	4.5	80301125	80300547
25.0	30.5	3.0	7.0	4.5	80301126	
25.0	35.5	3.0	7.0	4.5	80301127	80300549
25.0	40.5	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	

CTBL CH20..



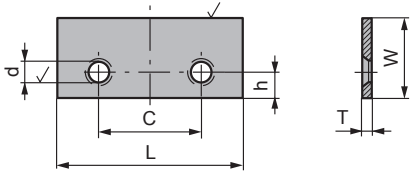
L [mm]	W [mm]	T [mm]	C [mm]	h [mm]	d [mm]	KCR08	
40.0	20.5	3.0	28	7.0	4.5	80301137	
40.0	25.5	3.0	28	7.0	4.5	80301138	
40.0	30.5	3.0	28	7.0	4.5	80301139	
45.0	25.5	3.0	28	7.0	4.5	80301140	
45.0	30.5	3.0	28	7.0	4.5	80301141	
45.0	35.5	3.0	28	7.0	4.5	80301142	
55.0	25.5	3.0	41	6.0	4.5	80301143	
55.0	30.5	3.0	41	6.0	4.5	80301144	
55.0	35.5	3.0	41	6.0	4.5	80301145	
55.0	40.5	3.0	41	6.0	4.5	80301146	
65.0	20.5	3.0	28	6.0	4.5	80301155	
65.0	25.5	3.0	28	6.0	4.5	80301147	
65.0	30.5	3.0	28	6.0	4.5	80301148	
65.0	35.5	3.0	28	6.0	4.5	80301149	
65.0	40.5	3.0	28	6.0	4.5	80301150	
80.0	25.5	3.0	66	6.0	4.5	80301151	





BLANKS FOR PROFILING
WITH COUNTERSUNK HOLE – HOLE Ø 4.5 mm

CTBL CH20..



L [mm]	W [mm]	T [mm]	C [mm]	h [mm]	d [mm]	KCR08	
80.0	30.5	3.0	66	6.0	4.5	80301152	
80.0	35.5	3.0	66	6.0	4.5	80301153	
80.0	40.5	3.0	66	6.0	4.5	80301154	

WITH COUNTERSUNK HOLE – HOLE Ø 4.5 mm

BLANKS FOR PROFILING



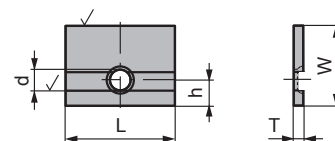
A31



K3

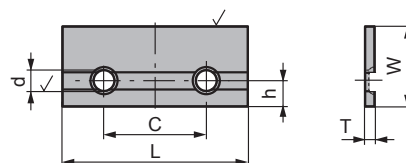


CTBL GR10..

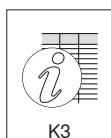


L [mm]	W [mm]	T [mm]	h [mm]	d [mm]	CTOPP10	KCR08
20.0	20.5	3.0	7.0	4.5		80301156
20.0	25.5	3.0	7.0	4.5		80301157
20.0	30.5	3.0	7.0	4.5		80301158
20.0	35.5	3.0	7.0	4.5		80301159
20.0	40.5	3.0	7.0	4.5		80301160
25.0	25.5	3.0	7.0	4.5		80301161
25.0	30.5	3.0	7.0	4.5		80301162
25.0	35.5	3.0	7.0	4.5	11778840	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

CTBL GR20..



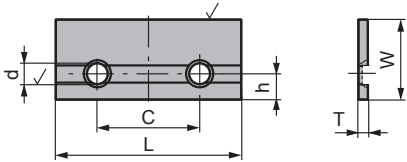
L [mm]	W [mm]	T [mm]	C [mm]	h [mm]	d [mm]	KCR08	
40.0	25.5	3.0	28	7.0	4.5	80301174	
40.0	20.5	3.0	28	7.0	4.5	80301173	
40.0	30.5	3.0	28	7.0	4.5	80301175	
45.0	25.5	3.0	28	7.0	4.5	80301176	
45.0	30.5	3.0	28	7.0	4.5	80301177	
45.0	35.5	3.0	28	7.0	4.5	80301178	
55.0	25.5	3.0	41	6.0	4.5	80301179	
55.0	30.5	3.0	41	6.0	4.5	80301180	
55.0	35.5	3.0	41	6.0	4.5	80301181	
55.0	40.5	3.0	41	6.0	4.5	80301182	
65.0	20.5	3.0	28	6.0	4.5	80301183	
65.0	25.5	3.0	28	6.0	4.5	80301184	
65.0	30.5	3.0	28	6.0	4.5	80301185	
65.0	35.5	3.0	28	6.0	4.5	80301186	
65.0	40.5	3.0	28	6.0	4.5	80301187	
70.0	25.5	3.0	41	6.0	4.5	80301188	





BLANKS FOR PROFILING
WITH COUNTERSUNK HOLE AND GROOVE – HOLE Ø 4.5 mm

CTBL GR20..



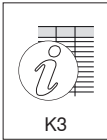
L [mm]	W [mm]	T [mm]	C [mm]	h [mm]	d [mm]	KCR08	
80.0	25.5	3.0	66	6.0	4.5	80301189	
80.0	30.5	3.0	66	6.0	4.5	80301190	
80.0	35.5	3.0	66	6.0	4.5	80301191	
80.0	40.5	3.0	66	6.0	4.5	80301192	

WITH COUNTERSUNK HOLE AND GROOVE – HOLE Ø 4.5 mm

BLANKS FOR PROFILING



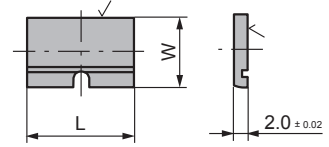
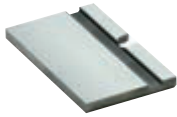
A31



K3



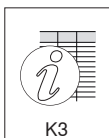
CTBL MC00..



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

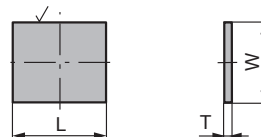
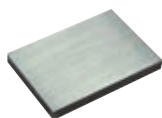




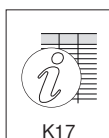
BLANKS FOR PROFILING

WITHOUT HOLE

CTBL WH00..

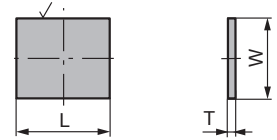
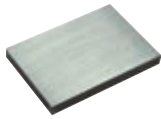


L [mm]	W [mm]	T [mm]	HC05	CTOPP10	KCR08	MG18
15.0	15.5	2.0	80300000		11965858	82031757
15.0	20.5	2.0	80300001		11965861	82013199
15.0	25.5	2.0			11965867	82008547
20.0	20.5	2.0	80300002	11776550	82023321	82019729
20.0	25.5	2.0	80300003		82019119	82010599
20.0	30.5	2.0	80300004		80301000	82010600
20.0	35.5	2.0	80300005		11965873	82010601
25.0	20.5	2.0	80300006		82021847	82019394
25.0	25.5	2.0	80300007		82026075	82010602
25.0	30.5	2.0	80300008		82026077	82021577
25.0	35.5	2.0	80300009		80301001	82010612
30.0	15.5	2.0			82019728	82020309
30.0	20.5	2.0	80300010		82022403	82010615
30.0	25.5	2.0	80300011		82024505	82013140
30.0	30.5	2.0	80300012		82021360	82013141
30.0	35.5	2.0	80300013		80301002	82014358
30.0	40.5	2.0	80300014		11965874	82012978
35.0	20.5	2.0	80300015	11776554	82026079	82020661
35.0	25.5	2.0	80300016	11792776	82022466	82019562
35.0	30.5	2.0			82021848	82019577
35.0	35.5	2.0	80300017		82019712	82019397
35.0	40.5	2.0	80300018		82027464	82030141
40.0	20.5	2.0	80300019		82026080	82019396
40.0	25.5	2.0	80300020		82019223	82012513
40.0	30.5	2.0	80300021		82021543	82010250
40.0	35.5	2.0	80300022		82019225	82015197
40.0	40.5	2.0	80300023		80301003	82010623
45.0	20.5	2.0			82028692	
45.0	25.5	2.0			82026152	82019541
45.0	30.5	2.0	80300024		11544440	82029279
45.0	35.5	2.0	80300025		11965876	82029179
50.0	20.5	2.0	80300026		82026548	82020980
50.0	25.5	2.0	80300027		82023927	82019576
50.0	30.5	2.0	80300028		80301004	82013697
50.0	35.5	2.0			82023784	82022404
50.0	40.5	2.0	80300029		82023785	82019932
50.0	45.5	2.0	80300030		11272525	82020364
50.0	50.5	2.0			82024736	82022227
60.0	20.5	2.0	80300031		82026549	82027071
60.0	25.5	2.0	80300032		82025828	82022738
60.0	30.5	2.0	80300033		82028435	82021225
60.0	35.5	2.0	80300034		11363187	82019220
60.0	40.5	2.0	80300035		80301005	82014359
60.0	45.5	2.0			11965880	11253159
60.0	50.5	2.0			82024737	82024049
70.0	20.5	2.0			11965881	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





CTBL WH00..



L [mm]	W [mm]	T [mm]	HC05	CTOPP10	KCR08	MG18
70.0	40.5	2.0			82026083	82021544
70.0	50.5	2.0			82024732	82024051
80.0	25.5	2.0	80300036		11965882	82019726
80.0	35.5	2.0	80300037	11783958	80301006	
80.0	40.5	2.0			11790549	
80.0	45.5	2.0	80300038		11284684	
80.0	60.5	2.0	11914940	11842060	11965884	
85.0	20.5	2.0			11965886	82031439
85.0	25.5	2.0			11965887	82019404
85.0	30.5	2.0			11495981	
85.0	35.5	2.0			11965890	82027072
85.0	40.5	2.0			11965894	11232689
85.0	50.5	2.0			11965897	82024052
100.0	25.5	2.0			11965898	82025347
100.0	30.5	2.0			11610153	82023479
100.0	35.5	2.0	82012458		11610155	82025410
100.0	40.5	2.0			11965900	82025594
100.0	50.5	2.0			11965901	82022399
105.0	25.5	2.0			11965902	82022401
105.0	30.5	2.0			11965903	82028873
105.0	35.5	2.0			11278382	82028440
105.0	40.5	2.0			11965905	82024807

WITHOUT HOLE

BLANKS FOR PROFILING

