



**KLINGELNBERG  
GROUP**

## **PRODUCT CATALOGUE**

SLITTER AND SHEETER KNIVES  
FOR THE PAPER CONVERTING INDUSTRY

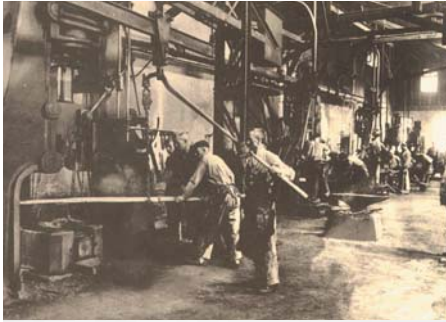
IKS KLINGELNBERG GROUP · THE KNIFE MANUFACTURERS

 DIVISION PAPER





## KNIVES FOR PAPER MAKING AND CONVERTING

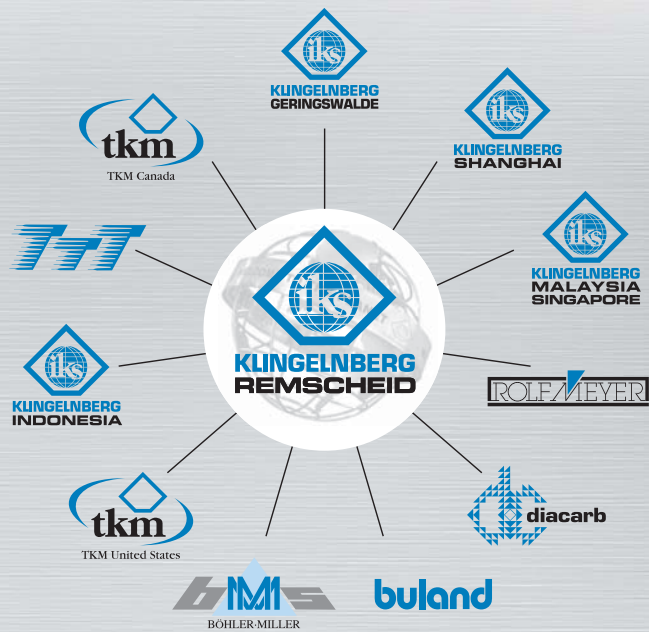


### ABOUT US

A long tradition signifies commitment. The history of our company can be traced back to 1814. The manufacturing of machine knives started in 1908. Klingelberg today is numbered as one of the oldest existing machine knife factories in the region called "Bergisches Land". Over the decades, this region has built up a worldwide reputation. Only by constant improvements developing specialised expertise the challenges of the market could be met. Close cooperation with leading steel mills as well as good connections and exceptional partnerships with innovative key customers have guaranteed a continuing positive development.



IKS Klingelberg GmbH, Remscheid  
Headquarters



The IKS Klingelberg Group

Constantly expanding production facilities in Europe and overseas and their highly skilled employees provide flexibility and a high quality level of production.



Böhler-Miller Messer- u. Sägen GmbH, Böhlerwerk  
Sales and Production



IKS Messerfabrik Geringswalde GmbH, Geringswalde  
Production



Rolf Meyer GmbH, Bargteheide  
Sales and Production



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## KNIVES FOR PAPER MAKING AND CONVERTING

### (RE)WINDER

High precision circular knives manufactured by IKS KlingelInberg made from tool steel, HcHc, HSS- or Powder Steel as well as Tungsten Carbide or Ceramic.

Ample stocks available.

All products made according to OEM- or customers' specifications.



### CHORD-TOOL

The gauge for correct and easy knife overlap adjustment.  
Please call for technical advice!



### HYPERWAVE / HYPERHONE

Unique knife edge geometry for highest requirements.





## KNIVES FOR PAPER MAKING AND CONVERTING

(RE)WINDER

JAGENBERG  
(today VOITH)



### standard knives

machines	knives	dimensions „mm“	quality	IKS-K part no.
VARI-DUR VARI-ROLL VARI-FLEX VARI-FLOAT VARI-STEP VARI-TOP	top knife 45°	200 x 2 x 65	tool steel	410232
			12%Cr	263715
			ASP2023	203034
			ASP2053	411530
	top knife 60°	200 x 3 x 65	12%Cr	435454
			ASP2023	428324
			ASP2053	466029
	bottom knife 6°	240 x 30 x 188	TC-Ring (1x)	79228
	bottom knife 0,5°	240 x 30 x 188	TC-Ring (1x)	480020
	bottom knife 6° for adopting ring	240 x 30 x 200	TC-Ring (1x)	434176

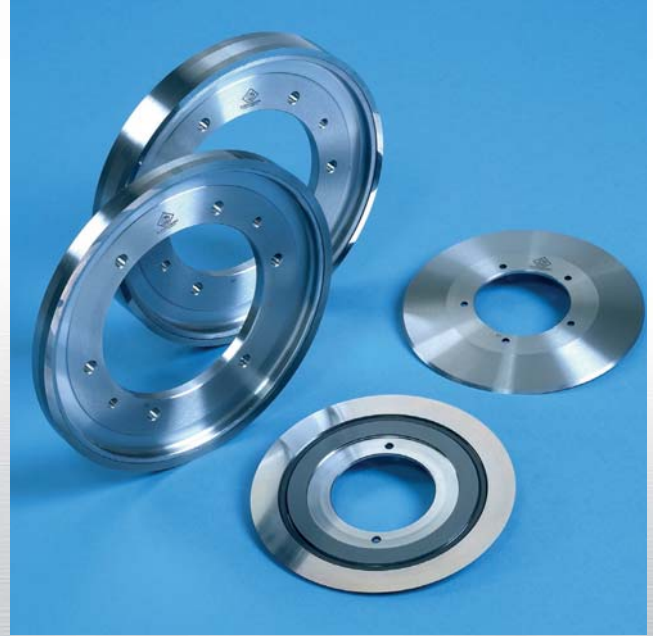
OTHER DIMENSIONS OR QUALITIES UPON REQUEST



## KNIVES FOR PAPER MAKING AND CONVERTING

(RE)WINDER

METSO  
(ex Valmet)



### standard knives

machines	knives	dimensions „mm“	quality	IKS-K part no.
e.g. KL500 KL1000 JR 1000	top knife 35° old dished version	190 x 8/3 x 75	12%Cr	261800
			ASP2023	245795
			ASP2053	416453
WINBELT	top knife 45° new flat version	190 x 5 x 75	ASP2053	437271 (419475)
WINROLL	bottom knife 5° single edge	250 x 20 x 140	TC-Ring (1x)	262899
WINDRUM and others	bottom knife 5° double edge	250 x 30 x 140	TC-Ring (2x)	239848

OTHER DIMENSIONS OR QUALITIES UPON REQUEST



KNIVES FOR PAPER MAKING AND CONVERTING

(RE)WINDER

VOITH  
(compare Jagenberg)



standard knives

machines	knives	dimensions „mm“	quality	IKS-K part no.
DUO-ROLLER TORO and others	top knife 45°	200 x 2,6 x 70	12%Cr	410195
			ASP2023	414160
			ASP2053	439892
	bottom knife 5° double sided	250 x 25 x 188	12%Cr	410199
bottom knife 0,5° double sided	250 x 25 x 188	TC-Ring (2x)	236141	

OTHER DIMENSIONS OR QUALITIES UPON REQUEST



## KNIVES FOR PAPER MAKING AND CONVERTING

(RE)WINDER

BELOIT



### standard knives

machines	knives	dimensions „mm“	quality	IKS-K part no.
VARIOUS MACHINES AND REBUILD EQUIPMENT	top knife 45°	180 x 2 x 70	12%Cr	415475
			ASP2023	410244
			ASP2053	411903
	top knife 30°	180 x 5 x 70	12%Cr	410333
			ASP2023	413759
			ASP2053	478342
	top knife 45° (USA-version)	203,2 x 2,38 x 73,05	12%Cr	410165
			ASP2023	477922
	bottom knife 5° double sided	250 x 15 x 188	12%Cr	410139
	bottom knife 2° double sided	250 x 15 x 188	TC-Ring (2x)	410124

OTHER DIMENSIONS OR QUALITIES UPON REQUEST





## KNIVES FOR PAPER MAKING AND CONVERTING

(RE)WINDER

TIDLAND



### standard knives

machines	knives	dimensions „mm“	quality	IKS-K part no.
VARIOUS MACHINES AND REBUILD EQUIPMENT	dished top knife 25°	200 x 4 x 80,01	12%Cr	418318
			ASP2023	419663
	flat top knife 25°(*)	200 x 4 x 80,01	ASP2023	413307
			ASP2053	410365
	dished top knife 25°	150 x 2,5 x 80,01	tool steel	414525
			12%Cr	436868
	flat top knife 25°(*)	150 x 2,5 x 80,01	ASP2023	426802
	bottom knife 5°	250 x 15 x 188	12%Cr	410139
	bottom knife 2°		TC-Ring (2x)	410124
	bottom knife 5°	190 x 15 x 138	12%Cr	421817
bottom knife 0,5°	TC-Ring (2x)		431157	
bottom knife 2°	160 x 15 x 112	TC-Ring (2x)	463216	

(\*) flat instead of dished knives recommended

Large variety of bottom knives - quotation upon request



## KNIVES FOR PAPER MAKING AND CONVERTING

### (RE)WINDER

### DISHED TOP KNIVES AND BOTTOM KNIVES



- CIRC. DISHED TOP KNIVES (COMPARE NEXT PAGE)
- SINGLE / DOUBLE EDGE BOTTOM KNIVES (PLAIN BORE, SCREW OR EXCENTRIC FIXATION)
- MULTIPLE BOTTOM KNIVES

BOTTOM KNIVES UPON REQUEST





## KNIVES FOR PAPER MAKING AND CONVERTING

### DISHED CIRC. TOP KNIVES

standard items (tool steel)

dimensions (various machines)	IKS-K part no. single bevel	IKS-K part no. double bevel
90 x 60 x 1,2	261750	423836
100 x 70 x 1,2	421464	423920
105 x 65 x 1,2	413441	420987
105 x 70 x 1,2	425803	469365
105 x 75 x 1,2	419992	473058
130 x 80 x 1,5	423222	411575
130 x 100 x 1,5	411961	410833
140 x 70 x 3	upon request	427011
140 x 95 x 2 (Goebel) *	411713	427325 *
150 x 90 x 3,5 (Bruderhaus)	not standard	437959
175 x 70 x 2,2 (Jagenberg)	418266	not standard

\* different knife executions

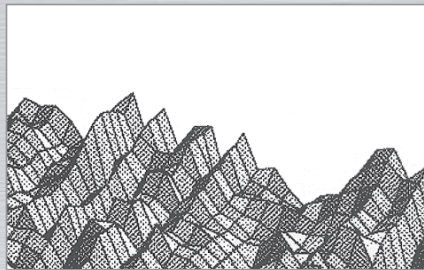
OTHER DIMENSIONS OR QUALITIES UPON REQUEST



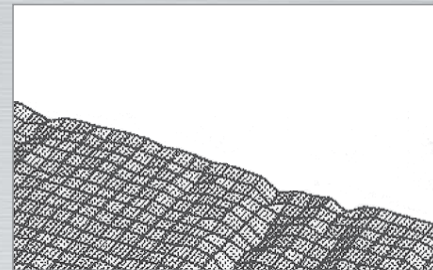
SHEETERS



- micro-polished sheeter cut-off knives in OEM-quality



standard grinding



micro-polished (10 x finer)

- TC knives „The new generation“

Micro-polished edge for longest lifetime, best performance and easy adjustment (less run-in-time) – depending on paper grades and qualities.

TC-tipped knives are not always the best choice. We like to give advice.





KNIVES FOR PAPER MAKING AND CONVERTING

SHEETER

JAGENBERG  
(Bielomatik-Jagenberg)



standard knives

machines	knives	dimensions „mm“	quality	IKS-K part no.
SYNCHRO-SERIES	circ. top knives 60°	200 x 3 x 90	ASP2023	432654
		200 x 4 x 90	ASP2023	416291
		200 x 5 x 90	ASP2023	74609
	circ. bottom knife 5° single edge	200 x 25 x 150	TC-Ring (1x)	124438
	<u>transversal knife</u>	<u>examples</u>		
	radial	2285 x 55 x 10	ASP2023 ASP2053 TCT and others	various executions
		2285 x 32 x 10		
	radial (conical)	2230 x 60 x 9,5		
		2230 x 35 x 10		
	tangential	2285 x 40 x 12		
2285 x 38 x 12				

OTHER DIMENSIONS OR QUALITIES UPON REQUEST



KNIVES FOR PAPER MAKING AND CONVERTING

SHEETER

BIELOMATIK  
(compare Jagenberg)



standard knives

machines	knives	dimensions „mm“	quality	IKS-K part no.
CUT-SIZE AND FOLIO-SIZE	circ. top knife 63°	220 x 2,5 x 120	ASP2023	166678
			ASP2053	419991
	circ. bottom knife 0,5°	210 x 25 x 180	TC-Ring (1x)	416469
			TC-Ring (2x)	249508
	circ. bottom knife 5°	210 x 80 x 180	TC-Ring (1x)	423946
			TC-Ring (2x)	412662
	<u>transversal knife</u>	<u>example</u>		
	radial		2150 x 35 x 8/5	ASP2023 ASP2053 TCT and others
2150 x 30 x 8/5				

OTHER DIMENSIONS OR QUALITIES UPON REQUEST

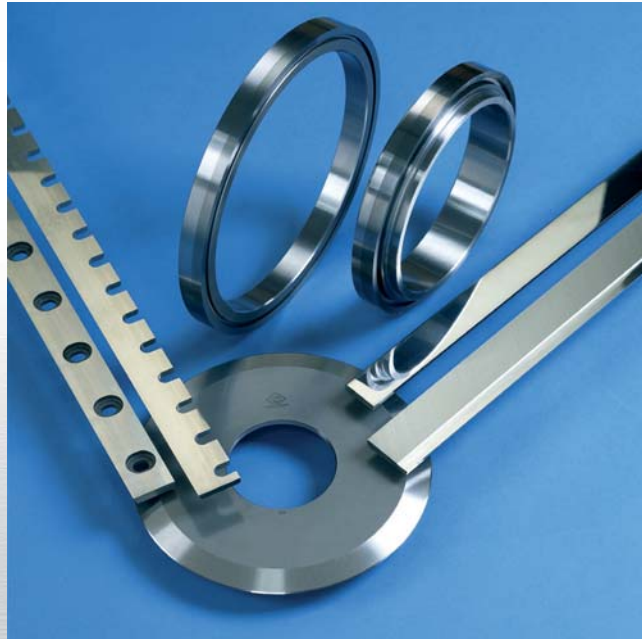




KNIVES FOR PAPER MAKING AND CONVERTING

SHEETER

E.C.H. Will



standard knives

machines	knives	dimensions „mm“	quality	IKS-K part no.	
CUT-SIZE AND FOLIO-SIZE	circ. top knife 60°	220 x 5 x 80	ASP2023	53454	
			ASP2053	280040	
	circ. bottom knife 3°	202 x 38 x 155 250 x 20 x 210	TC-Ring (1x)	416495	
			TC-Ring (1x)	434626	
	<u>transversal knives</u>	<u>example</u>			
	radial (conical)	2200 x 40,1 x 8	} ASP2023 ASP2053 TCT and others	} various executions	
		2200 x 30,1 x 8,1			
		tangential			1390 x 33 x 8
		Pemco (USA)			1790 x 33 x 6

OTHER DIMENSIONS OR QUALITIES UPON REQUEST



KNIVES FOR PAPER MAKING AND CONVERTING

SHEETER

PASABAN



standard knives

machines	knives	dimensions „mm“	quality	IKS-K part no.
VARIOUS MACHINES E.G.	circ. top knife 25° (*) dished	200 x 4 x 80	12% Cr	418318
			ASP2053	419663
	circ. top knife 60°	200 x 3 x 90	ASP2023	432654
	circ. top knife 58°	180 x 3 x 70	ASP2023	417257
KD	circ. bottom knife 2,5°	250 x 12 x 130	TC-Ring (1x)	465226
KDD		250 x 12 x 180	TC-Ring (1x)	423641
KDB		250 x 15 x 130	TC-Ring (1x)	435888
KSD		250 x 15 x 180	TC-Ring (1x)	440056
KP				
	<u>transversal knives</u>	<u>examples</u>		
FOR PAPER BOARD PULP	A large variety of different knives on various machines	2900 x 57 x 14	ASP2023 ASP2053 TCT and others.	various executions
		2900 x 50 x 6		
		2500 x 35 x 8		
		2500 x 60 x 6		

(\*)we recommend flat knives, compare Tidland page 9

OTHER DIMENSIONS OR QUALITIES UPON REQUEST



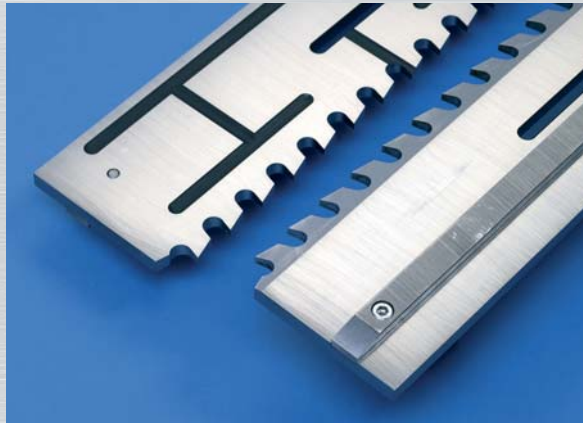


## KNIVES FOR PAPER MAKING AND CONVERTING

KNIVES FOR  
VARIOUS  
APPLICATIONS



Bale wire knives  
e.g. type B+G (Voith)



Paper tube /  
core cutting knives  
e.g. type Eberlé, Parkland,  
Brodbeck, Core Link  
(also circ. saws)

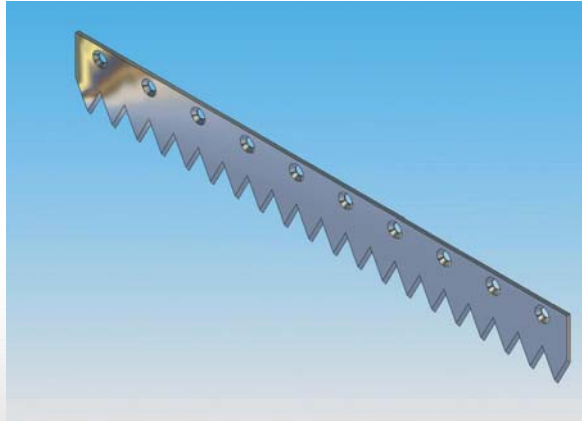


UPON REQUEST

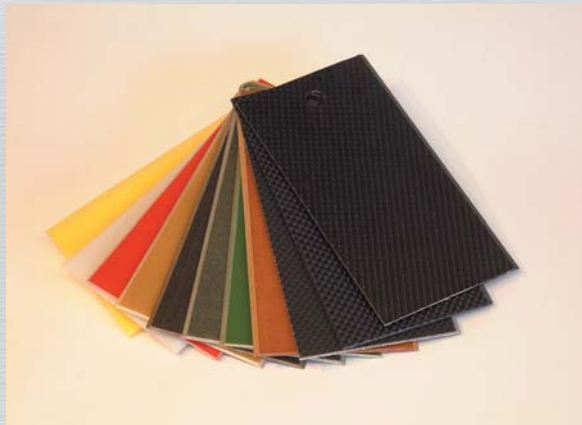


## KNIVES FOR PAPER MAKING AND CONVERTING

### KNIVES FOR VARIOUS APPLICATIONS



Cut-off knives  
e.g. for paper / coating machines  
or rewinder (web-end cut-off)



Doctor blades  
from steel or plastics



Tip cutter (splicing)  
for paper machines, e.g. Voith

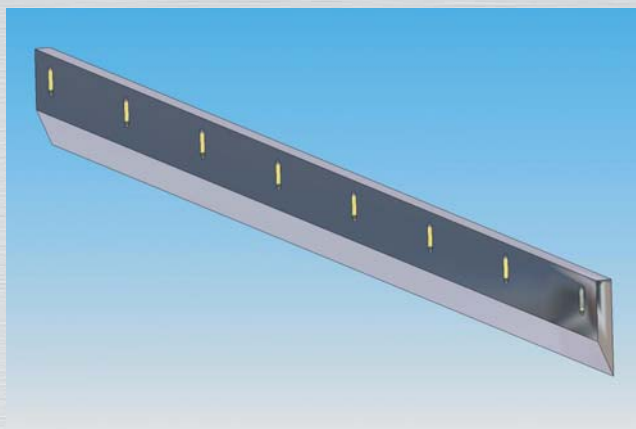
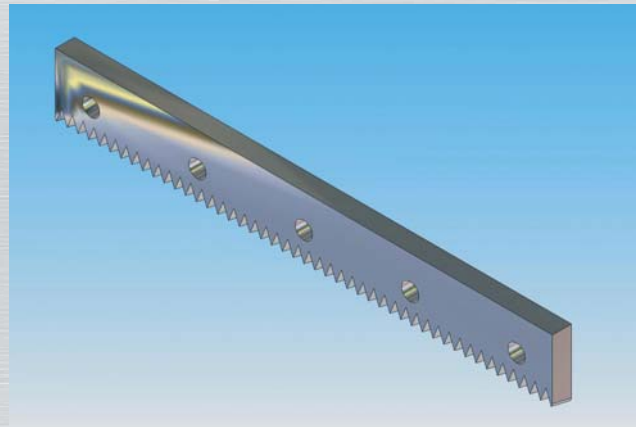
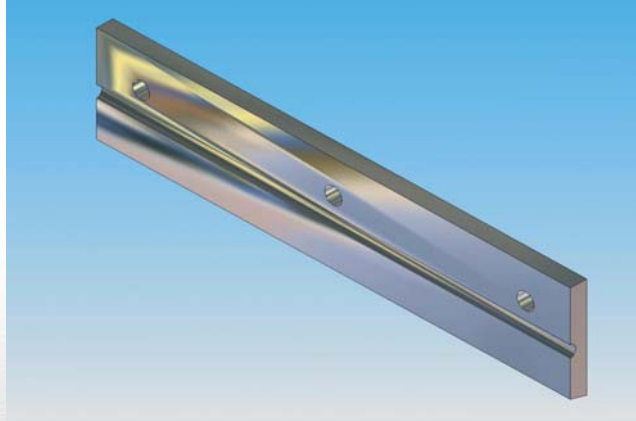


UPON REQUEST



## KNIVES FOR PAPER MAKING AND CONVERTING

### KNIVES FOR VARIOUS APPLICATIONS



Ventilator shredding knives  
edge trim strip removal  
on paper machine,  
rewinder or sheeter

Reel split knife  
e.g. De Pekker, Boa, Core Link, ...

UPON REQUEST

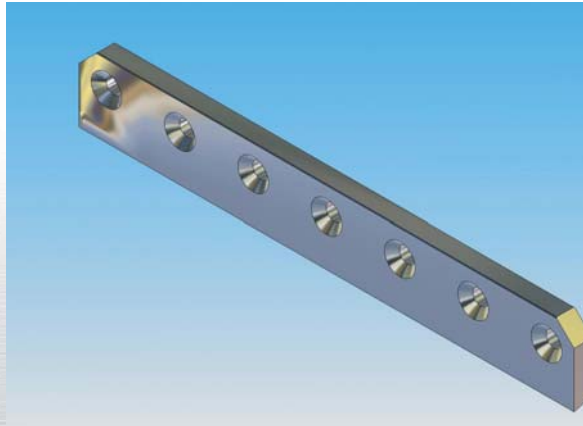


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## KNIVES FOR PAPER MAKING AND CONVERTING

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### KNIVES FOR VARIOUS APPLICATIONS



Pulper rope knife  
waste removal from pulper centrifuge



Knives for the  
Corrugating Industry  
transversal and circular knives  
(Razor-Blades)

UPON REQUEST



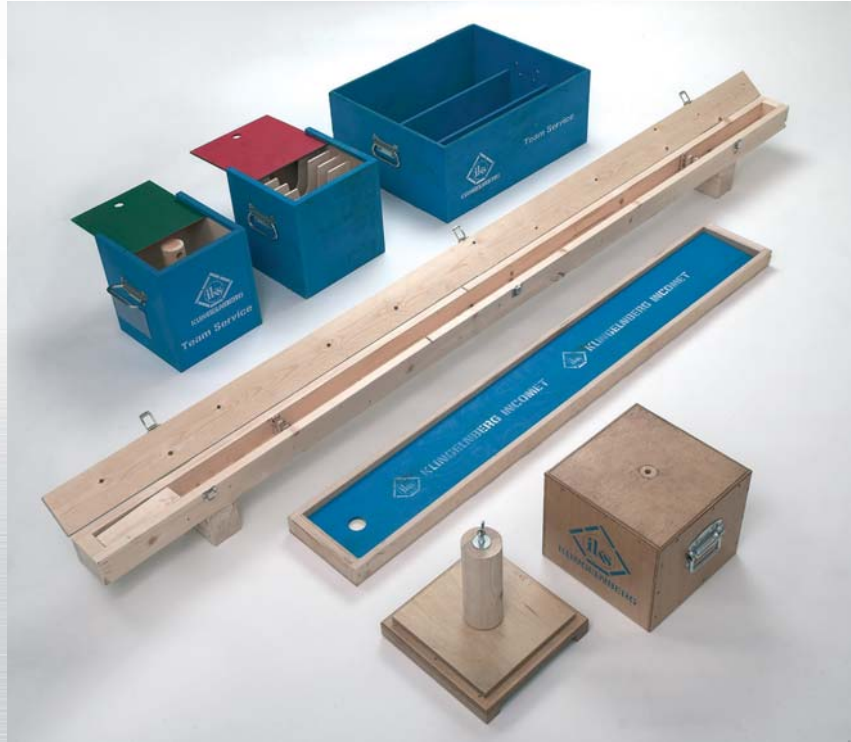


## KNIVES FOR PAPER MAKING AND CONVERTING

### PACKAGING

- appropriate packaging for each article
- save storage
- save transport protection
- easy handling

Standard or individually made – no problem with adequate packaging.



knives	box	IKS-K part no.
circular knives up to OD.220 mm (max. 30 knives)	box with turn-around lid (red/green)	487670
	box with hat-lid	467333
circular bottom knives up to OD.250 mm (max. 6 knives)	box with turn-around lid (red/green)	483368
sheeter knives (individually made for a set of knives)	box with hingelid	individual
paper guillotine knives (suitable for each knife)	box with screwed lid	standard
special packaging	collecting boxes or single packaging	upon request

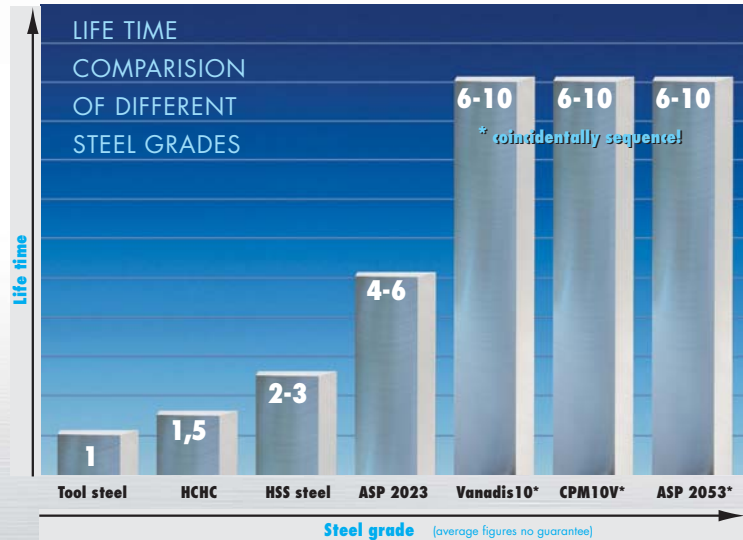


## KNIVES FOR PAPER MAKING AND CONVERTING

### STEEL GRADES

Excellent slitting performance - a result of the right choice

ASP2023 + ASP2053 best price-performance ratio, thus recommended as standard and available within short.



### QUALITY

The trend towards higher demands in a perfect paper-cut has lead to the development of high precision machine knives. We commit ourselves to a high product reliability based on a constantly high quality level of our production, in order to guarantee secured processes and reproducible results.

### POPULAR STEEL GRADES

Steel Grade	No.	Composition (Alloys)	Hardness in HRC	life time (about) sheeter knives	life time (about) slitter knives
<b>Tool Steel</b>					
	AISI L3	1,5% Cr	59 +/- 1		1 (Basis)
<b>HCHC</b>					
	AISI D2	12% Cr, 0,7% M, 1% V	59 +/- 1	1 (Basis)	1,5
	AISI D6	12% Cr, 0,7% Tungsten	59 +/- 1	1 (Basis)	1,5
<b>HSS (High Speed Steel)</b>					
	AISI M2	4,2% Cr, 5% Mo, 2% V, 6,5% Tungsten	62 +/- 1	1,5 - 2	2 - 3
	AISI T1	4,2% Cr, 1,1%V, 18% Tungsten	62 +/- 1	2 - 2,5	
<b>Powdermetallurgical HSS</b>					
<b>1. Generation PM-Steel</b>					
	ASP2023	4,2% Cr, 5% Mo, 3% V, 6,5% Tungsten	64 +/- 1	3 - 4	4 - 6
<b>2. Generation PM-Steel</b>					
	ASP2053	4,2% Cr, 3,1% Mo, 8% V, 4,2% Tungsten	64 +/- 1	} 5 - 8	} 6 - 10
	CPM10V	5,25%Cr, 1,3%Mo, 9,75%V,	64 +/- 1		
	VANADIS 10	8%Cr, 1,5%Mo, 9,8% V	64 +/- 1		

average figures no guarantee



## KNIVES FOR PAPER MAKING AND CONVERTING

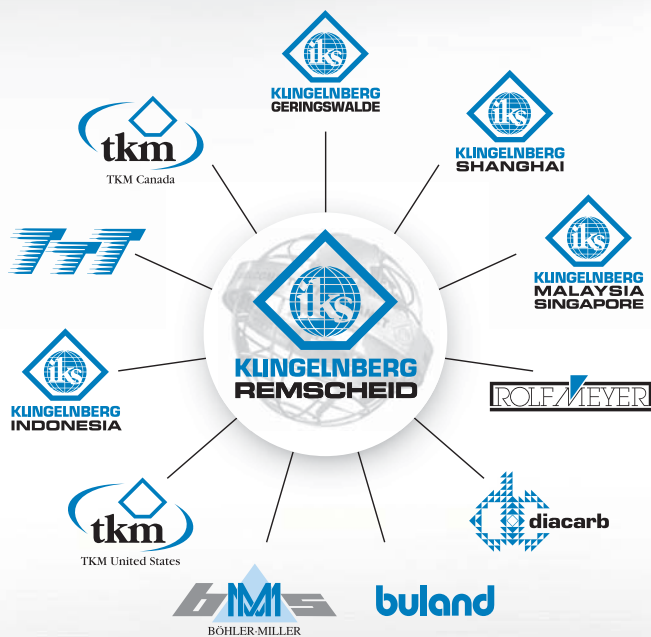


### RELIABILITY

The constant modernization of manufacturing equipment over the last 10 years has led to an increase in capacity, which has clearly reduced the delivery time in favour of our customers. Today, most common knives are available from stock. We aim for our customers' satisfaction.

Since 1995 we have been certified to DIN EN ISO 9001 (issue 1994) and obtained the registration under No. 003274 QM from DQS in August 2005, according to DIN EN ISO 9001:2000.





THE IKS KLINGELNBERG GROUP · WORLDWIDE

 KNIVES FOR THE PAPER INDUSTRY

 KNIVES FOR THE METAL INDUSTRY

 KNIVES FOR THE WOOD INDUSTRY

 KNIVES FOR THE PLASTIC, RUBBER & RECYCLING INDUSTRY

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IKS KLINGELNBERG GROUP · THE KNIFE MANUFACTURERS

 DIVISION PAPER

