



KLINGELNBERG

MACHINE
KNIVES
& TOOLS

Knife
Style

THE KNIFE MANUFACTURERS KNIFE STYLE

KNI
SHREDDER KNI



PRO

COMPLETE PROGRAMME
FOR SOFT AND HARDCOVER
BOOK PRODUCTION

IKS KLINGELNBERG GROUP · THE KNIFE MANUFACTURERS

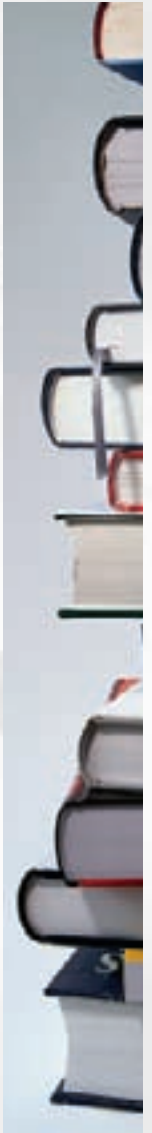




IKS Klingelberg Group, Headquarters Remscheid

ABOUT US

A long tradition signifies commitment. The history of IKS Klingelberg can be traced back to 1863. 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, could the challenges of the market be met. Close cooperation with leading steel mills on one side, good connections and exceptional partnerships with innovative key customers has guaranteed a continuing positive development.





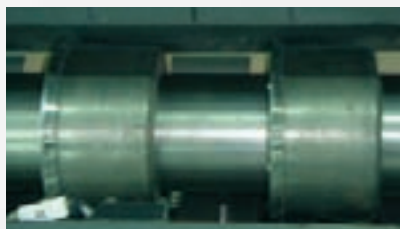
IKS Klingelberg offers a wide range of cutting tools for the most efficient soft and hardcover book production. All knives are strictly produced in accordance to the OEM requirements.

1.) HARD COVER BOOK PRODUCTION

The slitter and sheeter knives which are used for the board cutters are either supplied in steel (tool steel, HSS, powder metal) or tungsten carbide material grades. The most popular steel grades can be seen below.



Circular Knives



Rotary Board Cutter

POPULAR STEEL GRADES

Steel Grade	No.	Composition (Alloys)	Hardness in HRC	life time (about)
Tool Steel				
	AISI L3	1,5% Cr	59 +/- 1	1 (Basis)
HCHC				
	AISI D2	12% Cr, 0,7% M, 1% V	59 +/- 1	1,5
	AISI D6	12% Cr, 0,7% Tungsten	59 +/- 1	1,5
HSS (High Speed Steel)				
	AISI M2	4,2% Cr, 5% Mo, 2% V, 6,5% Tungsten	62 +/- 1	2 - 3
	AISI T1	4,2% Cr, 1,1%V, 18% Tungsten	62 +/- 1	
Powder Metal Steel				
	ASP2023	4,2% Cr, 5% Mo, 3% V, 6,5% Tungsten	64 +/- 1	4 - 6

average figures no guarantee



2.) SOFT COVER BOOK PRODUCTION

IKS Klingelberg offers the right knife for every common adhesive binding machine in the market (Kolbus, MüllerMartini, Wohlenberg, Horizon, Sulby, Sheridan etc.). The knives perform well for machine speeds of 500 copies up to high performance machines of 20.000 copies per hour. The products are mainly supplied in solid and tungsten carbide (TC) tipped qualities.

The wide range of products includes milling tools, shredder knives, levelling as well as fibre rougher blades which are operating in the primary and secondary book line production unit.

IKS Klingelberg products are unique for preparing a perfect and almost dust free book block surface while using PUR, EVA-Hotmelt or Dispersion glue.



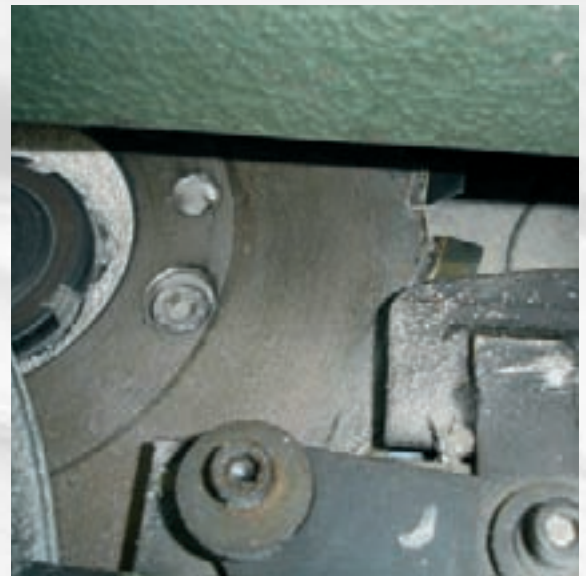
Perfect Binder / Adhesive Binding Machine

a) SHREDDER KNIVES – PRIMARY BOOK BLOCK OPERATION

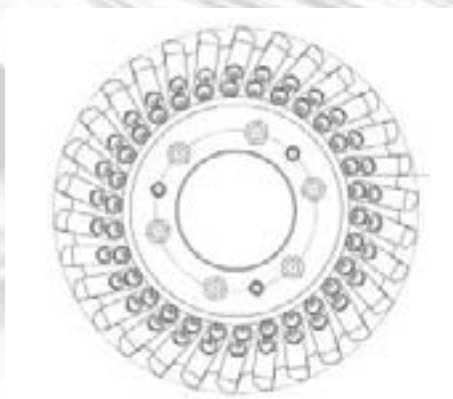
The shredder head is offered in a brazed and a mechanically fixed version. The advantage of the mechanically fixed version is that the operator can change broken or worn out inserts on a low cost basis on location. For enhancing customer's satisfaction in the best and most favourable way, IKS Klingelberg designed a shredder head on a mechanical fixed basis.



Shredder Head (Mechanical fixed)



Shredding Unit



IKS Klingelberg Shredder Head

- Mechanical Fixed Segments
- 2 Mounting Screws for Safety Reason
- Easy and Quick Insert Change
- Precision Body can be used almost Indefinitely
- Segments can be Re-sharpened
- Universal segments for every Common Binding Machine (MM Corona, MM Normbinder, Kolbus Ratiobinder etc.)
- Reduced Dust

b) MILLING TOOLS PRIMARY BOOK BLOCK PRODUCTION

While producing thicker book blocks, the milling head is improving the milling quality while operating with faster speeds. The range of IKS Klingelberg products includes the milling tools (dust cutting tools) as well as milling discs. Tight tolerances as well as improved angle geometries assure a perfect preparation of the book block.



Milling Tools



Milling Unit

c) LEVELLING BLADES AND FIBRE ROUGHER SECONDARY BOOK BLOCK PRODUCTION

After the main operation, the secondary operation will be done from a levelling as well as fibre rougher blade. IKS Klingelberg levelling blades smooth out unequal areas (angle, flatness) of a book block. The cutting tools are mainly supplied in a sub micron TC quality.

The fibre rougher increases the edge surface of the paper sheet in order to stabilise the glue on the book block in a better way. The fibre rougher cuts cross slots in the back of the book (scoring knife) and prepares small grooves for the improving the bond strength.



Levelling Blades and Roughing Blades



Saw Notcher Unit

3) BOOK SPLITTER SAW

The book splitter saw complete the full range of IKS Klingelberg products for a full service perfect binding and book production technology. IKS Klingelberg saws are cutting two-up product into single books for the most effective production.

The saws are TC tipped with a through hardened steel body for a high performance application (run out and OD tolerances up to 0,1 mm).

IKS Klingelberg high precision splitter saws can be offered for all common machine types like Müller Martini, Kolbus, Wohlenberg etc.



Book Splitter Saw

4) THREE WAY TRIMMER KNIVES AND CUTTING STICKS

IKS Klingelberg trimmer knives are cost effective and the raw materials are suited for the most effective cutting technology. Most of the knives can be supplied from stock for all common machines like Müller Martini, Kolbus, Wohlenberg, Perfecta, Heidelberg, Horizon etc.

All knives will be produced strictly to the OEM requirements (flatness 0,03 mm, cut edge straightness 0,1 / 1000 mm, polished cut edge). The knives can be supplied in different material grades



Three Way Trimmer Knives

Quality	Quality Grade IKS Klingelberg
Standard	Tool Steel
High Speed Steel	18% W HSS Steel / AISI T1
Tungsten Carbide	Sub Micron Size

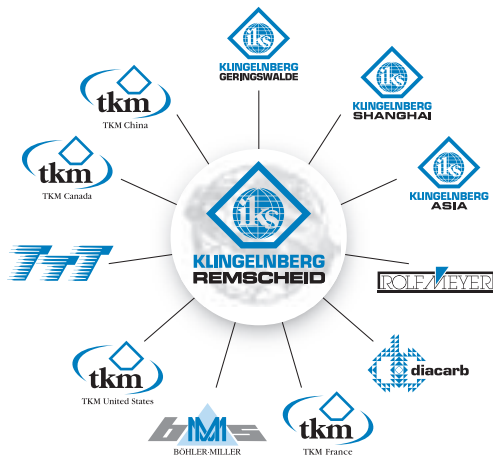


Cutting Sticks

The correct cutting stick can guarantee the best performance on cutting technology. (IKS Klingelberg Polypropylene for Standard and High Speed Steel and as well as IKS Klingelberg Polypropylene and Nylon for Sub Micron Tungsten Carbide Knives).



Trimming Unit



DIE IKS KLINGELBERG GRUPPE
THE IKS KLINGELBERG GROUP



- MESSER FÜR DIE PAPIER-INDUSTRIE**

KNIVES FOR THE PAPER-INDUSTRY
- MESSER FÜR DIE METALL-INDUSTRIE**

KNIVES FOR THE METAL-INDUSTRY
- MESSER FÜR DIE HOLZ-INDUSTRIE**

KNIVES FOR THE WOOD-INDUSTRY
- MESSER FÜR DIE KUNSTSTOFF-, GUMMI- & RECYCLING-INDUSTRIE**

KNIVES FOR THE PLASTIC, RUBBER & RECYCLING INDUSTRY

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