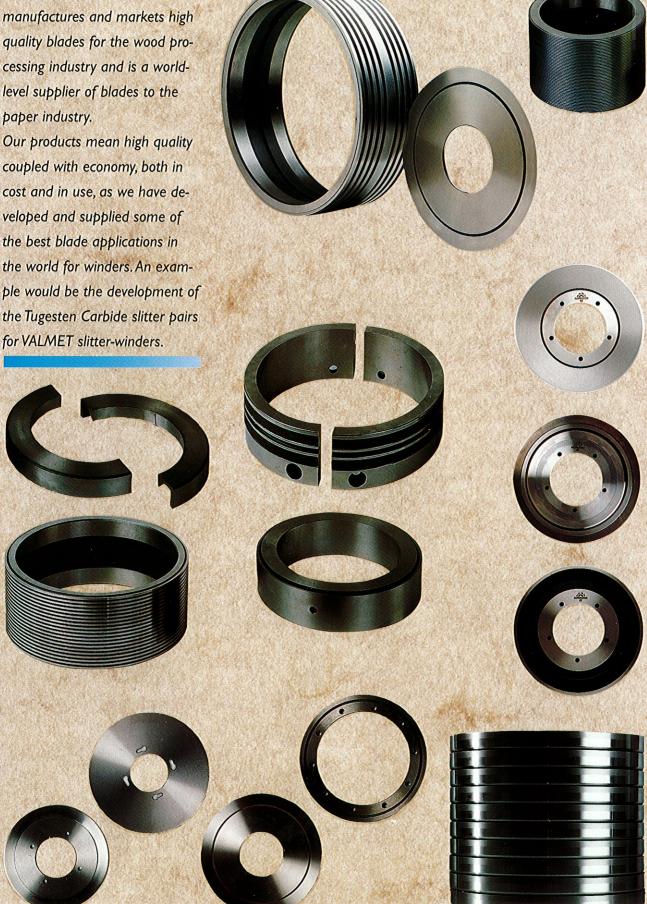


TOP QUALITY
KNIVES
FOR PAPER INDUSTRY

RUMMAKKO COMPANY

quality blades for the wood processing industry and is a worldlevel supplier of blades to the paper industry.

Our products mean high quality coupled with economy, both in cost and in use, as we have developed and supplied some of the best blade applications in the world for winders. An example would be the development of the Tugesten Carbide slitter pairs for VALMET slitter-winders.



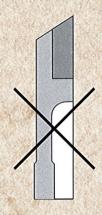
RUMCUT TCS

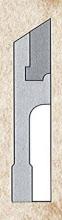
A special super-finished blade application with a bottom blade of Tungsten Carbide and a top blade of special powder high speed steel, with special polishing and the sides of the cutting edge micro-finished. This is the proper selection for very rigorous conditions as in abrasive paper grades and printing fine paper grades.



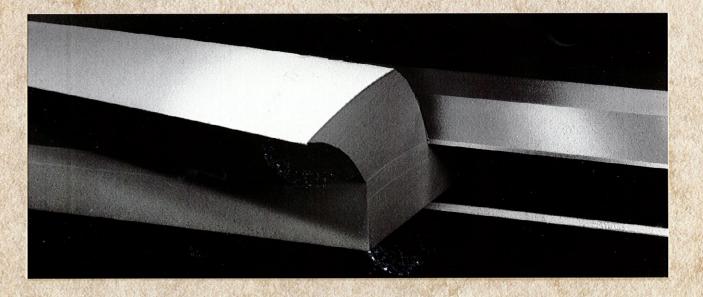
SAFETY CONSTRUCTION

The Tungsten Carbide slitter
blades have two parts, the base
ring and the Tungsten Carbide
knife ring. Traditionally they are
clued together. This traditional
constructions may fail in some
situations causing the Tungsten
Carbide ring to become loose.





To avoid dangerous situations RUMMAKKO has developed a unique safety construction.



TRIMMER BLADES

Our product range consists of a large selection of cutting blades for 1-sided, 2-sided and 3-sided trimmers.

The blade materials are different grades of tool steel, high speed steel and Tungsten Carbide. We also have quality blades for BIELOMATIC, PERFECTA, POLAR and many other trimmers.

QUALITY

Dust is the traditional problem with cutting paper. The formation of dust can be reduced with the following metodes:

- using high quality blades
- selecting the right blade material
- proper operation of the winder, pressures, transmissions
- proper handling, sharpening and finishing the blades

WINDER

BLADES

BLADE MATERIALS

Our winder blades (top and bottem slitter) are available in:

- tool steel
- high speed steel
- powder high speed steel
- Tungsten Carbide

Each of these materials have different grades and qualities, but we use only the best available.

Features to achieve the best economical results:

- wear resistance
- toughness
- grinding

WEAR RESISTANCE AND TOUGHNESS

Described here with an index based on tool steel (TS)

	I. WEAR RESISTANCEE	2.TOUGHNESS	
Tool Steel (TS)	5	10	
Powder Steel (PS)	50 - 95	10	
Tungsten Carbide (TC)	50 - 200	5 - 10	

I. Test at upper abrasion situations; bottom blade TC; top blade hardness HCR 62±1 (Rockwell C-test)

The above indexes are approximate and depend on each material.

RUMMAKKO	TOP AND	BOTTOM	RIADE	PAIRS
NO MIMANNO	IUI AND	DUTTUM	DLADL	ININO

TS/TS	traditional; no special requirements for resistance to abrasion; not for abrasive paper grades
TS/PS	one of powder high speed steel; resistance to abrasion and cutting results will increase
TC/TS	increased resistance to abrasion; the bottom blade is of Tungsten Carbide; printing papers
TC/PS	very good resistance to abrasion and excellent cutting results, the bottom blade is of TC; high quality printing papers
TC/TC	very good resistance to abrasion; excellent cutting result, long life; high quality printing papers

special finish, long lasting blade pair

AVAILABILITY AND DELIVERY

RUMMAKKO inventories a large variety of blades for such machines as BELOIT, JAGENBERG, VALMET, VOITH, WÄRTSILÄ, ect., and accompanies this with fast delivery on special-sized blades and blades of special application.

RUMCUTTCS

² Toughness CHARPY C-NOTCH

SPECIAL BLADES

Our wide product range covers the whole pulp and paper industry:

- circular saw blades
- chipper knives
- cutters
- flaker knives
- special blades



SERVICE

We will service all of our blades if so desired; if a mill does not have the equipment available, we can suggest such a service outlet or make arrangements for the return to our facilities for sharpening. We are also in ISO 9000 system.









Rummakko Oy P.O. Box95 Kaivokatu 5 FIN-40101 Jyväskylä, Finland
Tel. +358-41-617 181 NEW CONTACT NUMBERS. Telefax +358-41-617 108

NEW CONTACT NUMBERS: Tel. int. +358-14-617 181 Fax int. +358-14-617 108