



## **CUBOGRIT® K, S, U**

THE CBN-COATED BAND SAW BLADES FOR HARDENED FERROUS MATERIALS  
AND HARD ALLOYS UP TO 70 HRC



**NEW!**

- 3D-printed components
- hardened ferrous materials up to 70 HRC
- hard alloys

## CUBOGRIT® K, S, U

The CBN-coated band saw blades for hardened ferrous materials and hard alloys up to 70 HRC



WIKUS expands its portfolio of the coated band saw blades by the new product CUBOGRIT® which uses cubic boron nitride (CBN) as cutting material. Cubic boron nitride is the second hardest material known. Besides a high hardness and strength, also thermal and chemical resistance are its properties.

Due to these properties, CUBOGRIT® band saw blades are ideal for the reliable processing of hardened ferrous materials and hard alloys as well as for hard alloys produced in 3D-print. From now on, even the hardest alloys up to 70 HRC can be cut economically with CUBOGRIT®.

### ADVANTAGES AT A GLANCE



**reliable processing resistance**  
ensured by a very high hardness and temperature resistance



**low reworking**  
due to very good cutting surfaces



**variable application**  
by using different kinds of coatings (K, S, U) and grain sizes



**high wear resistance**  
by high abrasion and chemical resistance

### APPLICATION

- 3D-printed hard alloys
- hardened ferrous materials up to 70 HRC
- hard alloys
- cutting of additive components also possible without cooling

### FEATURES

- very low wearing at suitable application
- very high thermal conductivity
- chemical resistance
- hardness of CBN unchanged even at temperatures up to 1000°C
- optimal backing material to be used at extremely high cutting speeds
- grain sizes of B91-B602 available according to application and dimension



**CUBOGRIT® K** 

The continuously CBN-coated band saw blade

- Application:**
- hardened high speed steel (HSS), case-hardened steels
  - high-alloy tool steels > 55 HRC
  - iron-based powder coatings, chilled casting, stellite
  - small workpiece dimensions

- Advantages:**
- no chipping at the edge of the contours
  - low reworking due to very good cutting surfaces

- Features:**
- complete CBN-coating at the band edge
  - backing material made of alloyed tempering steel

Dimensions Width x Thickness		Dimensions Width x Thickness		Dimensions Width x Thickness	
mm	Inch	mm	Inch	mm	Inch
10 x 0.50	3/8 x 0.020	27 x 0.70	1-1/16 x 0.028	54 x 1.10	2-1/8 x 0.042
13 x 0.50	1/2 x 0.020	27 x 0.90	1-1/16 x 0.035	67 x 0.70	2-5/8 x 0.028
13 x 0.65	1/2 x 0.025	34 x 1.10	1-3/8 x 0.042	80 x 0.90	3-1/8 x 0.035
16 x 0.50	5/8 x 0.020	41 x 0.50	1-5/8 x 0.020	80 x 1.10	3-1/8 x 0.042
20 x 0.50	3/4 x 0.020	41 x 0.80	1-5/8 x 0.032	100 x 0.90	4 x 0.035
20 x 0.80	3/4 x 0.032	41 x 1.30	1-5/8 x 0.050	100 x 1.10	4 x 0.042
27 x 0.50	1-1/16 x 0.020	50 x 0.90	2 x 0.035		

CUBOGRIT® K is also available with a backing material made of corrosion-resistant special steel as **CUBOGRIT® K VA**. This execution offers the following advantages:

- cooling with pure water
- no corrosion of backing material during longer downtime

In order to achieve an optimal and efficient result for your sawing applications, we will be gladly prepared to advise you on the possible combinations regarding the grain sizes, band saw blade dimensions as well as operating and basic conditions of CUBOGRIT®. Our experts of the technical customer care will gladly get in contact with you.

Machine requirements:

- cutting speed higher than 1200 m/min
- high machine stability
- high torque of the drive engine



**CUBOGRIT® S** **The segmented CBN-coated band saw blade**

- Application:**
- hardened high speed steel (HSS), case-hardened steels
  - high-alloy tool steels > 55 HRC
  - iron-based powder coatings, chilled casting, stellite
  - medium workpiece dimensions

- Advantages:**
- high cutting performance
  - individual design of the coating geometry
  - low reworking due to very good cutting surfaces

- Features:**
- segmented CBN-coating at the band edge
  - backing material made of alloyed tempering steel

Dimensions Width x Thickness		Dimensions Width x Thickness		Dimensions Width x Thickness	
mm	Inch	mm	Inch	mm	Inch
10 x 0.50	3/8 x 0.020	27 x 0.70	1-1/16 x 0.028	50 x 0.90	2 x 0.035
13 x 0.65	1/2 x 0.025	27 x 0.90	1-1/16 x 0.035	67 x 0.70	2-5/8 x 0.028
16 x 0.50	5/8 x 0.020	34 x 1.10	1-3/8 x 0.042	80 x 0.90	3-1/8 x 0.035
20 x 0.50	3/4 x 0.020	41 x 0.50	1-5/8 x 0.020	80 x 1.10	3-1/8 x 0.042
20 x 0.80	3/4 x 0.032	41 x 0.80	1-5/8 x 0.032	100 x 0.90	4 x 0.035
27 x 0.50	1-1/16 x 0.020	41 x 1.30	1-5/8 x 0.050	100 x 1.10	4 x 0.042

CUBOGRIT® S is also available with a backing material made of corrosion-resistant special steel as **CUBOGRIT® S VA**. This execution offers the following advantages:

- cooling with pure water
- no corrosion of backing material during longer downtime

In order to achieve an optimal and efficient result for your sawing applications, we will be gladly prepared to advise you on the possible combinations regarding the grain sizes, band saw blade dimensions as well as operating and basic conditions of CUBOGRIT®. Our experts of the technical customer care will gladly get in contact with you.

Machine requirements:

- cutting speed higher than 1200 m/min
- high machine stability
- high torque of the drive engine





## CUBOGRIT® U

The CBN-coated band saw blade with toothing

- Application:**
- hardened high speed steel (HSS), case-hardened steels
  - high-alloy tool steels > 55 HRC
  - iron-based powder coatings, chilled casting, stellite
  - large workpiece dimensions

- Advantages:**
- large chip space for material abrasion
  - individual design of the segment geometry (special tooth)
  - short cutting time due to high cutting performance

- Features:**
- raised segments with CBN-coating with variable pitch
  - backing material made of alloyed tempering steel

Dimensions Width x Thickness		Pitch T mm	Dimensions Width x Thickness		Pitch T mm	Dimensions Width x Thickness		Pitch T mm
mm	Inch		mm	Inch		mm	Inch	
10 x 0.50	3/8 x 0.020	6	27 x 0.70	1-1/16 x 0.028	30	54 x 1.10	2-1/8 x 0.042	20
13 x 0.50	1/2 x 0.020	8	27 x 0.90	1-1/16 x 0.035	12	67 x 1.60	2-5/8 x 0.063	30
13 x 0.65	1/2 x 0.025	8	34 x 1.10	1-3/8 x 0.042	20	80 x 1.10	3-1/8 x 0.042	12
16 x 0.50	5/8 x 0.020	8	41 x 0.50	1-5/8 x 0.020	20	100 x 0.90	4 x 0.035	12
20 x 0.80	3/4 x 0.032	8	41 x 0.80	1-5/8 x 0.032	20	100 x 1.10	4 x 0.042	12
27 x 0.50	1-1/16 x 0.020	12	41 x 1.30	1-5/8 x 0.050	20	100 x 1.10	4 x 0.042	30
27 x 0.70	1-1/16 x 0.028	12	50 x 0.90	2 x 0.035	20			

CUBOGRIT® U is also available with a backing material made of corrosion-resistant special steel as **CUBOGRIT® U VA**. This execution offers the following advantages:

- cooling with pure water
- no corrosion of backing material during longer downtime

In order to achieve an optimal and efficient result for your sawing applications, we will be gladly prepared to advise you on the possible combinations regarding the grain sizes, band saw blade dimensions as well as operating and basic conditions of CUBOGRIT®. Our experts of the technical customer care will gladly get in contact with you.

Machine requirements:

- cutting speed higher than 1200 m/min
- high machine stability
- high torque of the drive engine





**WIKUS-Sägenfabrik**  
**Wilhelm H. Kullmann GmbH & Co. KG**

Melsunger Str. 30  
34286 Spangenberg, Germany

Phone: +49 5663 500-0  
Fax: +49 5663 500-57

[www.wikus.com](http://www.wikus.com)  
[info@wikus.com](mailto:info@wikus.com)



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Innovative precision tools  
designed and manufactured  
in Spangenberg, Germany

