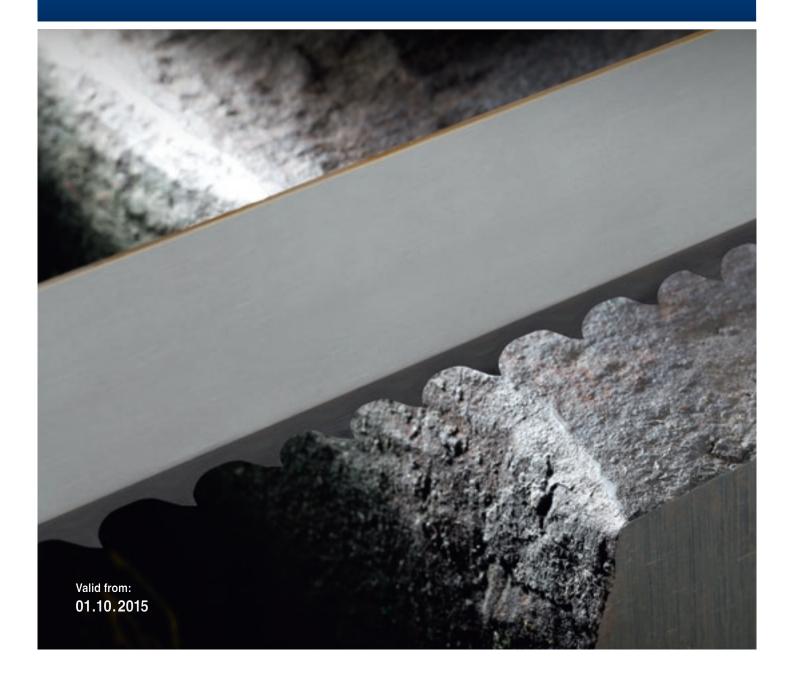


PRECISION BAND SAW BLADES



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TOP QUALITY MADE IN SPANGENBERG

Wilhelm H. Kullmann founded the WIKUS saw factory in Spangenberg back in 1958.

Today, the name WIKUS stands for maximum precision, quality and performance. Our family business has made a name for itself all over the world with these values.

We owe our success story mainly to the high qualifications and outstanding know-how of our employees. With representations around the world and sales and service companies in Europe and overseas, we offer our customers expert advice and personal service.

Our international presence is just as important to us as our ties to the region: as a family business, we feel responsible for the city and region we live in. Together with our employees, we support local projects and initiatives in social, cultural and ecological areas.

Please visit our website: www.wikus.com

- More than 50 years of experience in developing and manufacturing high-performance tools
- The first European band saw manufacturer to be certified according to the DIN EN ISO 9001 standard
- Continuous development of innovations
- Highly qualified employees in all positions
- Environmentally friendly manufacturing techniques









WIKUS GLOBAL SERVICES CENTERED AROUND YOUR NEEDS

Customer satisfaction always comes first for us. For this reason, our products and technologies are developed and manufactured in Germany on the basis of the highest standards for quality.

Cost optimization and conservation of resources are the success factors for efficient manufacturing processes. Combining high-tech products with outstanding service is the key to meeting the rising demands for the quality of cutting and the need for higher efficiency.

Benefit from our broad personal advice. We offer excellent solutions custom-designed to meet your needs. You will be very happy with the results: not only will you increase your productivity, but also save time and money.

You can depend on partnering with WIKUS. We will help you to increase the accuracy of all your cutting activities.

Our services:

- · Representations all over the world
- · Outstanding industry know-how
- Sampling
- Cutting tests and analyses on site and at the WIKUS Sawing Center in Spangenberg
- Training at the WIKUS Training Center in Spangenberg
- Commercial and technical support

WIKUS PARAMASTER® 3.0 ONLINE CUTTING DATA PROGRAM

LOWER OVERALL CUTTING COSTS

We can rely on more than 50 years of experience in developing and manufacturing high-performance tools. Our product line includes just the right product for every application. Customers around the world from many different industries depend on our innovative band saw solutions.

A practical software bundles our product variety and vast applications know-how:

ParaMaster® 3.0, the online cutting data program from WI-KUS, provides you with efficient support on optimizing your cutting processes. You will be pleasantly surprised, not only with the results, but also the ease-of-use and cost savings we can offer you.

Use is free of charge for WIKUS customers. You don't have access to the system yet? Register now under: www.paramaster.de The benefits ParaMaster® 3.0 offers:

- A database that is up-to-date every day: more than 150 000 materials, 3 000 band saw machines and plenty of additional information
- Easy to use: all of the information at a glance and a self-explanatory interface
- Applications: solid materials (round or square), tubes (round or square), beams, single and layer cuts
- Analysis of cutting costs





You'll find an interactive overview of the most common band saw machines together with the appropriate band saw dimensions for WIKUS band saw blades on our website.

SELECTING THE RIGHT BAND SAW BLADE

Sawing is a science - a variety of factors and their interplay determine what results you will achieve with sawing. Every user places his own individual demands on the tool, for example:

- Tool Life
- · Cutting time
- Tool Cost
- · Surface finish / cut quality

Other factors in the selection process

Besides your specific objectives, the following conditions also influence product selection:

- The band saw machine
- The material
- The dimensions and shape of the workpiece
- · Cutting of individual sheets, layers or bundles

WIKUS constantly gears its product portfolio toward customer needs and offers a wide range of:

- Bandwidths
- Tooth shapes
- Tooth pitches
- Tooth sets
- · Specially designed products

Product classification as a decision aid

To make it easier for you to select the right products, WIKUS groups its band saw blades into three performance classes:

Level 1

Standard band saw blades that can be used universally



• Level 2

Band saw blades that offer high performance



• Level 3

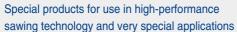
High-tech band saw blades that meet the highest standards



The WIKUS product line also includes **special designs** for use in individual applications. But please note that not all special designs are available for every band saw.

Furthermore, WIKUS also offers special blades:

Special





CHANGES TO THE PRODUCT RANGE

New and further developments:

Besides the new bimetal saw blade "SKALAR®," we are also expanding our carbide product range to include the new band saw blade "TAURUS®." We have also added the two coated band saw blades "DUROSET® PREMIUM" and "PROFLEX® PREMIUM M42" to our catalog.

Name changes:

As part of the systematic standardization of our product names, we have renamed the following blades: "FUTURA® PLUS" is now called "FUTURA® NE.".

Band saw qualities that are being discontinued:

The products "VECTOR®" and "GIGANT®" will no longer be manufactured and are being omitted completely from the product range. They will be replaced by the newly developed band saw blade "SKALAR®".

WIKUS Service

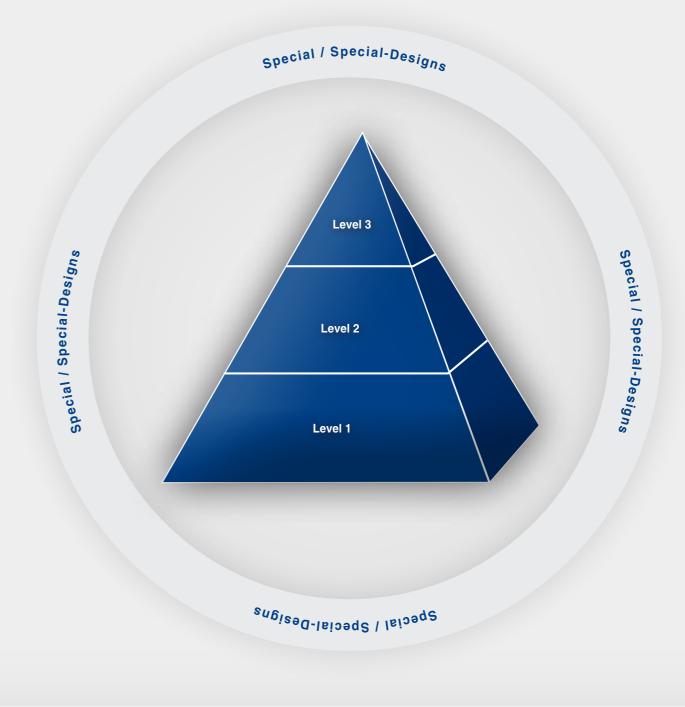
Besides the classification in this catalog, WIKUS also offers the online cutting data program Para Master 3.0 for optimal blade selection. It combines all of the influencing factors with more than 55 years of expertise in sawing applications. Read more about it on page 5.

Finally, the experts on application technology at WIKUS also offer excellent advice on additional technical questions pertaining to blade selection and use, if necessary.

Your optimal WIKUS product

WIKUS provides you with help in the selection process on the next two pages.

Based on the combination of the type, the work piece and the task for the band saw blade, users can select the right WIKUS band saw blade at a quick glance.



BLADE SELECTOR

ASSORTMENT			BIME	TAL						CARI	BIDE			
APPLICATION	.0.	□оН∧		□оН∧	.0.0	□оН∧		□оН∧		□оН∧		□оН∧		□оН∧
Nickel-based alloys									FUTU	IRA® 718				
Duplex and heat-resistant steels										31				
Titanium, titanium alloys	MARATHO	ON® X3000	and GIGAI	eplace R [®] X3000 NT [®] X3000										
Aluminum bronze	2	1	SELEKTA	3 GS X3000										
Hardened and tempered steels (over 1000 N/mm²)			[2	4						JRA® VA 30				
Stainless and acid-resistant steels (austenitic)														
Stainless and acid-resistant steels (ferritic)							DU	ROSET®						
Nitriding and high-speed steels												TAURUS®		
Cast iron														
Tool steels	VARIO® MAS		Will re	ALAR® M42 eplace PR® M42					FUTURA®	PROFIDUR®			AF	RION®
Hardening steels Spring and ball bearing steels	VARIO® M42 12 MARATHON® M42	PROFLEX® M42	and <i>GIGA</i> in the	ANT® M42	I -	EX® M42			27	29				34
Carbon and heat-treated steels	13		SELEKTA	8 GS M42										
Construction, deep-drawing and cutting steels														
Non-ferrous metals							E	CODUR®	FUTU Renamed: p	JRA® NE previously called				
Aluminum / aluminum alloys								32	FUTU	RA® PLUS				
CLASSIFICATION		2						2		3				S
	Lev	rel 2	Lev	rel 3	Lev	vel 1	ì	evel 2	Le	evel 3	Le	evel 1	Sp	pecial

PRODUCT OVERVIEW

BIMETAL BAND SAW BLADES

anne,	VARIO® M42 (528)	2	p. 12
M	MARATHON® M42 (529) / MARATHON® SW M42 (529)	2	p. 13
acces,	PROFLEX® M42 (524) / PROFLEX® PREMIUM M42 (624)	2	p. 14
aasaaa	PROFLEX® SW M42 (524) / PROFLEX® PREMIUM SW M42 (624)		p. 15
m	VECTOR® M42 (534) / GIGANT® M42 (532)	3	p. 16
my	NEW: SKALAR® M42 (634) / NEW: SKALAR® PREMIUM M42 (635)	3	p. 17
	SELEKTA® GS M42 (636)	3	p. 18
anner,	ECOFLEX® M42 (523) / ECOFLEX® NE M42 (523)		p. 19
	MARATHON® X3000 (631)	2	p. 21
M.	VECTOR® X3000 (639) / GIGANT® X3000 (633)	3	p. 22
m	NEW: SKALAR® X3000 (637)	3	p. 23
	SELEKTA® GS X3000 (638)	3	p. 24

CARBIDE TIPPED BAND SAW BLADES

	DUROSET® (541) / DUROSET® PREMIUM (641)		p. 26
1	FUTURA® (545) / FUTURA® PREMIUM (548)	3	p. 27
ware	NEW: TAURUS® (644) / NEW: TAURUS® PREMIUM (655)		p. 28
20000	PROFIDUR® (588)	3	p. 29
	FUTURA® VA (645) / FUTURA® PREMIUM VA (648)	3	p. 30
errer	FUTURA® 718 (718)	3	p. 31
me	ECODUR® (542) / DUROSET® NE (541)	(2)	p. 32
mmm	FUTURA® NE (546) / FUTURA® NE RS (546)	3	p. 33
	ARION® FG (668) / ARION® EG (668) / ARION® PG (668)	S	p. 34
arrara	FUTURA® SN (547)	S	p. 35
un,	TCT® (540)	S	p. 36
assass	TCTYRE® (549)		p. 37

DIAMOND COATED BAND SAW BLADES

NAME OF THE PERSON NAMED OF THE OWNER,	DIAGRIT® K (570) / DIAGRIT® K VA (570)	2	p.	39
	DIAGRIT® S (572) / DIAGRIT® S VA (572)	2	p.	40
DOWN NAME STORE	DIAGRIT® U (574)	2	p.	41

CARBON STEEL BAND SAW BLADES

*****	EXTRA (500)		p. 4	43
******	DIAMANT (510)	2	p. 4	44
******	JET (515)		p. 4	45

BIMETAL BAND SAW BLADES CUTTING MATERIAL M42



- The perfect product portfolio for standard and special applications
- The back of the blade is made of alloyed steel that offers excellent continuous operation properties
- Proven cutting material M42 with superior wear resistance in conventional applications
- Coated versions for maximum cutting performance and longer tool life

Sales units:	 Coils in fixed lengths and manufacturing coils of up to 120 m, depending on the width Welded-to-length band saw blades
Band widths:	6 to 80 mm
Tooth shapes:	S, P, K, HV, VA
	See page 48 for explanations
Tooth pitches:	0.7-1.0 to 12-16 teeth per inch (tpi)
	See page 49 for explanations
Types of tooth set:	SD
	See page 49 for explanations
Qualities:	M42: 68-69 HRC, approx. 980 HV
Special designs:	PW available for article groups: VECTOR® M42, GIGANT® M42, SKALAR® M42, SKALAR® PREMIUM M42,
	SELEKTA® GS M42
	PE available for article groups:
	VARIO® M42, MARATHON® M42

VARIO® M42

- For universal use in single and serial cutting
- For profiles and solid materials
- For layer and bundle cutting



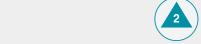
Dime	nsions			Tooth pi	itch in tpi	Tooth pitch in tpi							
Width x	Width x Thickness			·	·								
mm	Inch	10-14	8-12	6-10	5-8	4-6	3-4						
6 x 0.65	1/4 x 0.025	S											
6 x 0.90	1/4 x 0.035	S											
10 x 0.90	3/8 x 0.035	S											
13 x 0.65	1/2 x 0.025	S	S	S									
13 x 0.90	1/2 x 0.035	S	S	S									
20 x 0.90	3/4 x 0.035	S	S	S	S	S							
27 x 0.90	1-1/16 x 0.035	S	S	S	S	S	S						
34 x 1.10	1-3/8 x 0.042		S	S	S	S	S						
41 x 1.30	1-5/8 x 0.050			S	S	S	S						
54 x 1.30	2-1/8 x 0.050			S									
Contact I	ength	< 20 mm	10-30 mm	20-50 mm	30-60 mm	50-90 mm	90-150 mm						

S = Standard tooth

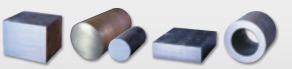


WIKUS BIMETAL BAND SAW BLADES

MARATHON® M42



- For universal use in single and serial cutting
- For profiles and solid materials
- For layer and bundle cutting



	ensions Thickness	Tooth pitch in tpi						
mm	Inch	5-8	4-6	3-4	2-3	1.4-2	1.0-1.4	0.75-1.25
27 x 0.90	1-1/16 x 0.035	K	K	K	K			
34 x 1.10	1-3/8 x 0.042	K	K	K	K	K		
38 x 1.30	1-1/2 x 0.050			K	K			
41 x 1.30	1-5/8 x 0.050	K	K	K	K	K		
54 x 1.30	2-1/8 x 0.050		K	K	K	K		
54 x 1.60	2-1/8 x 0.063		K	K	K	K	K	
67 x 1.60	2-5/8 x 0.063		K	K	K	K	K	K
80 x 1.60	3-1/8 x 0.063			K	K	K	K	K
Conta	ct length	30-60 mm	50-90 mm	90-150 mm	150-290 mm	290-550 mm	540-1020 mm	570-1180 mm

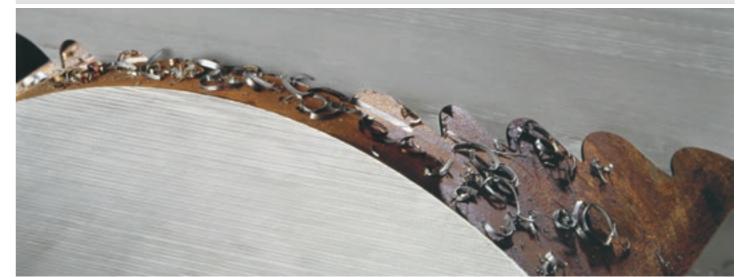
MARATHON® SW M42

- Wide set
- For material with internal stress

	nsions Thickness	Tooth pitch in tpi						
mm	Inch	5-8	4-6	3-4	2-3	1.4-2	1.0-1.4	0.75-1.25
34 x 1.10	1-3/8 x 0.042		K					
41 x 1.30	1-5/8 x 0.050		K	K	K			
54 x 1.60	2-1/8 x 0.063			K	K			
67 x 1.60	2-5/8 x 0.063	K K						
Contac	t length	30-60 mm	50-90 mm	90-150 mm	150-290 mm	290-550 mm	540-1020 mm	570-1180 mm

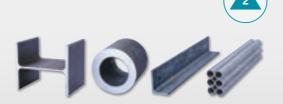
K = Hook tooth

Photo below: MARATHON® M42



PROFLEX® M42

- Extra strong tooth geometry to prevent tooth breakage
- For workshop operation
- For profiles and beams



	Dimensions Width x Thickness		Tooth pitch in tpi					
mm	Inch	12-16	8-11	5-7	4-6	3-4	2-3	
20 x 0.90	3/4 x 0.035	Р	Р	Р				
27 x 0.90	1-1/16 x 0.035	P	Р	Р	Р	Р		
34 x 1.10	1-3/8 x 0.042		Р	Р	Р	Р	P	
41 x 1.30	1-5/8 x 0.050			Р		Р	Р	
54 x 1.30	2-1/8 x 0.050			Р		Р	P	
54 x 1.60	2-1/8 x 0.063			Р		Р	Р	
67 x 1.60	2-5/8 x 0.063					Р	Р	
Contac	t length	< 20 mm	10-40 mm	40-70 mm	50-90 mm	90-160 mm	160-310 mm	

PROFLEX® PREMIUM M42

- Coated version
- For increased cutting performance and longer tool life
- For reduced noise levels

Dimer Width x T	nsions Thickness	Tooth pitch in tpi					
mm	Inch	12-16	8-11	5-7	4-6	3-4	2-3
		12-10	0 11	3-7	_		20
34 x 1.10	1-3/8 x 0.042				Р	Р	
41 x 1.30	1-5/8 x 0.050					P	P
54 x 1.30	2-1/8 x 0.050					P	
54 x 1.60	2-1/8 x 0.063					Р	Р
67 x 1.60	2-5/8 x 0.063					Р	Р
Contac	t length	< 20 mm	10-40 mm	40-70 mm	50-90 mm	90-160 mm	160-310 mm

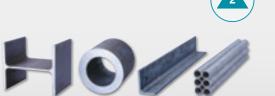
P = Profile tooth
Photo below: PROFLEX® M42



WIKUS BIMETAL BAND SAW BLADES

PROFLEX® SW M42

- Extra wide set
- For girders with internal stress



	ensions Thickness	Tooth pitch in tpi					
mm	Inch	12-16	8-11	5-7	4-6	3-4	2-3
34 x 1.10	1-3/8 x 0.042					Р	
41 x 1.30	1-5/8 x 0.050					Р	Р
54 x 1.30	2-1/8 x 0.050					Р	
54 x 1.60	2-1/8 x 0.063					Р	Р
67 x 1.60	2-5/8 x 0.063					Р	P
Contac	ct length	< 20 mm	10-40 mm	40-70 mm	50-90 mm	90-160 mm	160-310 mm

PROFLEX® PREMIUM SW M42

- Coated version
- For increased cutting performance and longer tool life
- For reduced noise levels

	nsions Thickness	Tooth pitch in tpi					
mm	Inch	12-16	8-11	5-7	4-6	3-4	2-3
41 x 1.30	1-5/8 x 0.050					Р	Р
54 x 1.30	2-1/8 x 0.050					Р	
54 x 1.60	2-1/8 x 0.063					Р	P
67 x 1.60	2-5/8 x 0.063					Р	Р
Contac	t length	< 20 mm	10-40 mm	40-70 mm	50-90 mm	90-160 mm	160-310 mm

P = Profile tooth

Photo below: PROFLEX® PREMIUM SW M42



VECTOR® M42

- For performance-related use
- For rustproof and acid-resistant steels (VA)
- For engineering, heat-treatable and tool steels (HV)



	nsions Thickness			tch in tpi			
mm	Inch	3-4	2-3	1.4-2	1.0-1.4	0.75-1.25	0.7-1.0
27 x 0.90	1-1/16 x 0.035	HV					
34 x 1.10	1-3/8 x 0.042	HV, VA	HV, VA				
41 x 1.30	1-5/8 x 0.050	HV, VA	HV, VA				
54 x 1.30	2-1/8 x 0.050		HV				
54 x 1.60	2-1/8 x 0.063		HV				
Contac	t length	120-200 mm	200-340 mm	300-550 mm	500-1000 mm	700-1500 mm	950-3000 mm

GIGANT® M42

- For performance-related use
- For rustproof and acid-resistant steels (VA)
- For engineering, heat-treatable and tool steels (HV)

	nsions Thickness	Tooth pitch in tpi					
mm	Inch	3-4	2-3	1.4-2	1.0-1.4	0.75-1.25	0.7-1.0
41 x 1.30	1-5/8 x 0.050			HV			
54 x 1.30	2-1/8 x 0.050			VA			
54 x 1.60	2-1/8 x 0.063			HV, VA			
67 x 1.60	2-5/8 x 0.063			HV, VA	HV	HV	
80 x 1.60	3-1/8 x 0.063			HV	HV	HV	HV
Contac	t length	120-200 mm	200-340 mm	300-550 mm	500-1000 mm	700-1500 mm	950-3000 mm

HV = Tooth shape HV, VA = Tooth shape VA Photo below: VECTOR® M42



WIKUS BIMETAL BAND SAW BLADES

NEW: SKALAR® M42



- For performance-related use
- For universal use



	ensions Thickness	Tooth pitch in tpi							
mm	inch	2.5-3.4	1.8-2.5	1.4-1.8	1.2-1.6	1.0-1.4	0.7-1.0		
27 x 0.90	1-1/16 x 0.035	K							
34 x 1.10	1-3/8 x 0.042	K	K						
41 x 1.30	1-5/8 x 0.050	K	K	K					
54 x 1.30	2-1/8 x 0.050		K	K					
54 x 1.60	2-1/8 x 0.063	K	K	K	K	K			
67 x 1.60	2-5/8 x 0.063			K	K	K	K		
80 x 1.60	3-1/8 x 0.063				K	K	K		
Contac	ct length	120-200 mm	200-340 mm	300-550 mm	400-700 mm	500-1000 mm	950-3000 mm		

NEW: SKALAR® PREMIUM M42

- Coated version
- For increased cutting performance
- For a longer tool life

	nsions Thickness	Tooth pitch in tpi					
mm	inch	2.5-3.4	1.8-2.5	1.4-1.8	1.2-1.6	1.0-1.4	0.7-1.0
27 x 0.90	1-1/16 x 0.035	K					
34 x 1.10	1-3/8 x 0.042	K	K				
41 x 1.30	1-5/8 x 0.050	K	K				
54 x 1.60	2-1/8 x 0.063		K	K	K		
67 x 1.60	2-5/8 x 0.063			K	K	K	
Contac	ct length	120-200 mm	200-340 mm	300-550 mm	400-700 mm	500-1000 mm	950-3000 mm

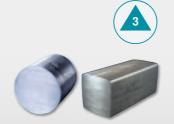
K = Hook tooth

Photo below: SKALAR® PREMIUM M42



SELEKTA® GS M42

- For performance-related use
- For excellent surface quality
- For perfect cutting performance



	nsions Thickness						
mm	inch	4-6	3-4	2-3	1.4-2	1.0-1.4	0.7-1.0
27 x 0.90	1-1/16 x 0.035	K	K	K			
34 x 1.10	1-3/8 x 0.042	K	K	K			
41 x 0.90	1-5/8 x 0.035		K	K			
41 x 1.30	1-5/8 x 0.050	K	K	K	K		
54 x 1.30	2-1/8 x 0.050		K	K	K		
54 x 1.60	2-1/8 x 0.063		K	K	K	K	
67 x 1.60	2-5/8 x 0.063				K	K	K
80 x 1.60	3-1/8 x 0.063				K	K	K
Contac	ct length	50-90 mm	90-150 mm	150-290 mm	290-550 mm	500-1000 mm	950-3000 mm

K = Hook tooth



WIKUS BIMETAL BAND SAW BLADES

ECOFLEX® M42



• For profiles and solid materials



	nsions Thickness	Tooth pitch in tpi								
mm	Inch	10-14	8-12	6-10	5-8	4-6	3-4	2-3	1.4-2	1.0-1.4
13 x 0.65	1/2 x 0.025	S	S	S						
20 x 0.90	3/4 x 0.035	S	S	S	S	K				
27 x 0.90	1-1/16 x 0.035	S	S	S	S	K	K			
34 x 1.10	1-3/8 x 0.042		S	S	S	K	K	K		
41 x 1.30	1-5/8 x 0.050					K	K	K		
54 x 1.60	2-1/8 x 0.063							K	K	
67 x 1.60	2-5/8 x 0.063								K	K
Contac	ct length	< 20 mm	10-30 mm	20-50 mm	30-60 mm	50-90 mm	90-150 mm	150-290 mm	290-550 mm	500-1000 mm

ECOFLEX® NE M42

- For non-ferrous metals
- For manual operation

	nsions Thickness	Tooth pitch in tpi Extra wide set					
mm	Inch	4	3	2			
20 x 0.90	3/4 x 0.035		K				
27 x 0.90	1-1/16 x 0.035	K	K	K			
34 x 1.10	1-3/8 x 0.042		K				
Contac	t length	80-120 mm	120-200 mm	200-400 mm			

S = Standard tooth, K = Hook tooth Photo below: ECOFLEX® M42



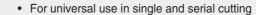
BIMETAL BAND SAW BLADES CUTTING MATERIAL X3000

- The perfect product portfolio for standard and special applications
- The back of the blade is made of alloyed steel that offers excellent continuous operation properties
- Modified cutting material X3000 (exclusive to WIKUS) with high hardness and excellent toughness
- High cutting edge stability
- For materials that are difficult to machine and special alloys

Sales units:	 Coils in fixed lengths and manufacturing coils of up to 120 m, depending on the width Welded-to-length band saw blades
Band widths:	27 to 100 mm
Tooth shapes:	K, HV, VA See page 48 for explanations
Tooth pitches:	0.7-1.0 to 5-8 teeth per inch (tpi) See page 49 for explanations
Types of tooth set:	SD See page 49 for explanations
Qualities:	X3000: approx. 70 HRC, approx. 1000 HV (for steels and non-ferrous metals up to 45 HRC)
Special designs:	PW available for article groups: SKALAR® X3000, SELEKTA® GS X3000

WIKUS BIMETAL BAND SAW BLADES

MARATHON® X3000



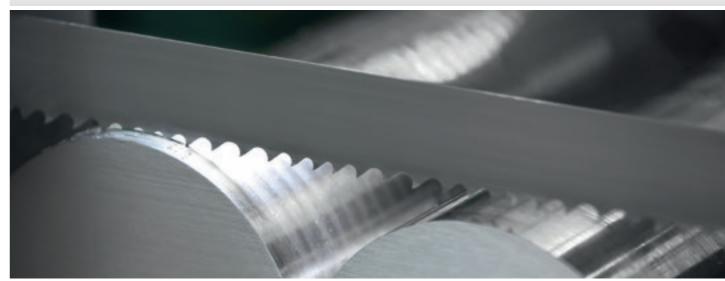
- For profiles and solid materials
- For layer and bundle cutting



	ensions Thickness	Tooth pitch in tpi				
mm	Inch	5-8	4-6	3-4	2-3	1.4-2
27 x 0.90	1-1/16 x 0.035	K	K	K		
34 x 1.10	1-3/8 x 0.042		K	K	K	
41 x 1.30	1-5/8 x 0.050		K	K	K	
54 x 1.60	2-1/8 x 0.063		K	K	K	K
67 x 1.60	2-5/8 x 0.063			K	K	K
Conta	ct length	30-60 mm	50-90 mm	90-150 mm	150-290 mm	290-550 mm

K = Hook tooth





VECTOR® X3000

- For performance-related use
- For rustproof and acid-resistant steels as well as special alloys (VA)
- For quenched and tempered steels (HV)



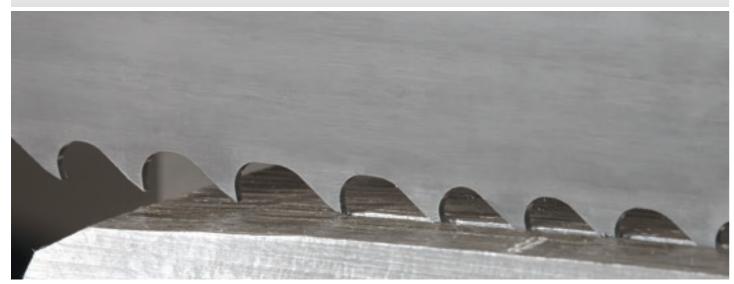
	nsions Thickness			Tooth pitch in tpi	n tpi			
mm	Inch	3-4	2-3	1.4-2	1.0-1.4	0.7-1.0		
27 x 0.90	1-1/16 x 0.035	HV						
34 x 1.10	1-3/8 x 0.042	VA	VA					
41 x 1.30	1-5/8 x 0.050	HV, VA	HV, VA					
54 x 1.60	2-1/8 x 0.063		HV					
Contac	t length	120-200 mm	200-340 mm	300-550 mm	500-1000 mm	950-3000 mm		

GIGANT® X3000

- For performance-related use
- For rustproof and acid-resistant steels as well as special alloys (VA)
- For quenched and tempered steels (HV)

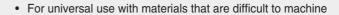
Dime	nsions	Tooth pitch in tpi				
Width x	Thickness					
mm	Inch	3-4	2-3	1.4-2	1.0-1.4	0.7-1.0
41 x 1.30	1-5/8 x 0.050			VA		
54 x 1.60	2-1/8 x 0.063			HV, VA	VA	
67 x 1.60	2-5/8 x 0.063			HV, VA	VA	
80 x 1.60	3-1/8 x 0.063			VA	HV, VA	HV, VA
100 x 1.60	4 x 0.063					HV
Contac	ct length	120-200 mm	200-340 mm	300-550 mm	500-1000 mm	950-3000 mm

HV = Tooth shape HV, VA = Tooth shape VA Photo below: GIGANT® X3000



WIKUS BIMETAL BAND SAW BLADES

NEW: SKALAR® X3000



- Ground tooth geometry
- For performance-related use



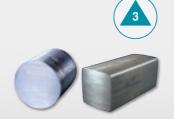
	ensions Thickness		Tooth pitch in tpi				
mm	inch	2.5-3.4	1.8-2.5	1.4-1.8	1.2-1.6	1.0-1.4	0.7-1.0
27 x 0.90	1-1/16 x 0.035	K					
34 x 1.10	1-3/8 x 0.042	K	K				
41 x 1.30	1-5/8 x 0.050	K	K	K			
54 x 1.30	2-1/8 x 0.050		K	K			
54 x 1.60	2-1/8 x 0.063	K	K	K	K	K	
67 x 1.60	2-5/8 x 0.063			K	K	K	K
80 x 1.60	3-1/8 x 0.063			K	K	K	K
100 x 1.60	4 x 0.063						K
Conta	ct length	120-200 mm	200-340 mm	300-550 mm	400-700 mm	500-1000 mm	950-3000 n

K = Hook tooth



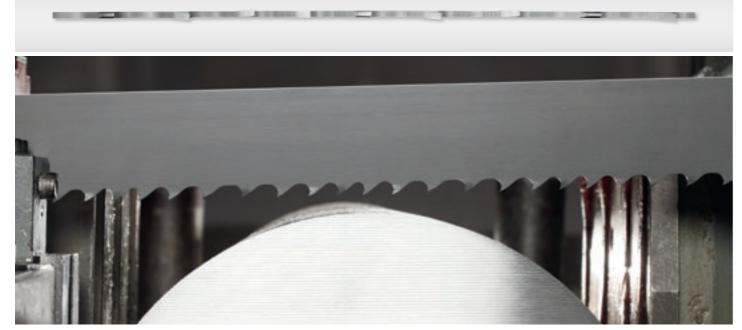
SELEKTA® GS X3000

- For performance-related use
- For excellent surface quality
- For perfect cutting performance



	nsions Thickness	Tooth pitch in tpi					
mm	inch	4-6	3-4	2-3	1.4-2	1.0-1.4	0.7-1.0
27 x 0.90	1-1/16 x 0.035	K	K	K			
34 x 1.10	1-3/8 x 0.042	K	K	K			
41 x 1.30	1-5/8 x 0.050	K	K	K	K		
54 x 1.30	2-1/8 x 0.050			K	K		
54 x 1.60	2-1/8 x 0.063		K	K	K	K	
67 x 1.60	2-5/8 x 0.063			K	K	K	K
80 x 1.60	3-1/8 x 0.063					K	K
Contac	ct length	50-90 mm	90-150 mm	150-290 mm	290-550 mm	500-1000 mm	950-3000 mm

K = Hook tooth



CARBIDE TIPPED BAND SAW BLADES



- Available in specially ground and / or set tooth geometries
- Excellent results in every application thanks to the different degrees of hardness and compositions of the carbides used
- Very high cutting performance for increased machine productivity
- Coated premium blades for maximum cutting performance
- long running times and extremely high performance from our high-tech products by choosing the right substrate

Coils of up to a max. of 50 m
Welded-to-length band saw blades
13 to 100 mm
S, K, T, TSN
See page 48 for explanations
Constant: 1.25 to 4 teeth per inch (tpi)
Variable: 0.7-1.0 to 3-4 tpi
See page 49 for explanations
SD
See page 49 for explanations
PW available for article groups: DUROSET®, FUTURA®, FUTURA® PREMIUM, FUTURA® VA, FUTURA® PREMIUM VA

DUROSET®

- Straight-set version
- Suited for band saw machines without a carbide package
- · For universal use with steels





	nsions Thickness	Tooth pitch in tpi				
mm	Inch	3-4	2-3	1.4-2	1.0-1.4	0.7-1.0
27 x 0.90	1-1/16 x 0.035	K	K			
34 x 1.10	1-3/8 x 0.042	K	K			
41 x 1.30	1-5/8 x 0.050	K	K	K		
54 x 1.30	2-1/8 x 0.050	K	K			
54 x 1.60	2-1/8 x 0.063		K	K		
67 x 1.60	2-5/8 x 0.063			K	K	
80 x 1.60	3-1/8 x 0.063				K	K
Contac	ct length	120-200 mm	200-340 mm	300-550 mm	500-1000 mm	950-3000 mm

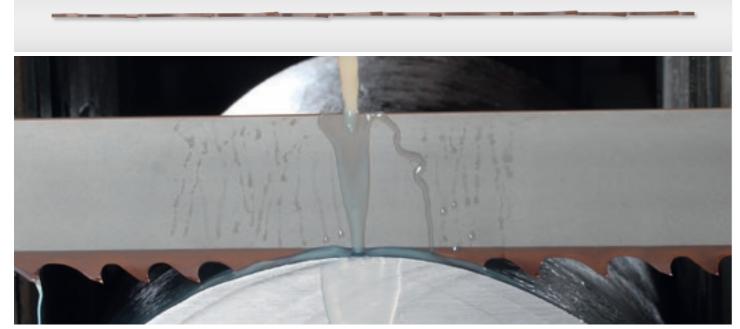
DUROSET® PREMIUM

- Coated version
- For a longer tool life

	nsions Thickness	Tooth pitch in tpi				
mm	Inch	3-4	2-3	1.4-2	1.0-1.4	0.7-1.0
34 x 1.10	1-3/8 x 0.042		K			
41 x 1.30	1-5/8 x 0.050		K	K		
54 x 1.60	2-1/8 x 0.063		K	K		
67 x 1.60	2-5/8 x 0.063			K	K	
80 x 1.60	3-1/8 x 0.063				K	K
Contac	t length	120-200 mm	200-340 mm	300-550 mm	500-1000 mm	950-3000 mm

K = Hook tooth

Photo below: DUROSET® PREMIUM



WIKUS CARBIDE TIPPED BAND SAW BLADES

FUTURA®

- · Ground trapezoid teeth
- For performance-related use
- For universal use with steels



	nsions Thickness	Tooth pitc			ch in tpi		
mm	Inch	3-4	2-3	1.4-2	1.0-1.4	0.85-1.15	
27 x 0.90	1-1/16 x 0.035	T					
34 x 1.10	1-3/8 x 0.042	T	Т				
41 x 1.30	1-5/8 x 0.050	T	Т	Т			
54 x 1.30	2-1/8 x 0.050		Т	Т			
54 x 1.60	2-1/8 x 0.063		T	T	T		
67 x 1.60	2-5/8 x 0.063		Т	Т	Т	Т	
80 x 1.60	3-1/8 x 0.063			T	T	T	
Contac	ct length	90-150 mm	150-270 mm	270-550 mm	500-1000 mm	700-1500 mm	

FUTURA® PREMIUM

- Coated version
- For outstanding cutting performance
- For a longer tool life

	nsions Thickness	Tooth pitch in tpi				
mm	Inch	3-4	2-3	1.4-2	1.0-1.4	0.85-1.15
34 x 1.10	1-3/8 x 0.042	Т	Т			
41 x 1.30	1-5/8 x 0.050	Т	Т	T		
54 x 1.30	2-1/8 x 0.050		Т	T		
54 x 1.60	2-1/8 x 0.063		Т	T	Т	
67 x 1.60	2-5/8 x 0.063		T	T	T	Т
80 x 1.60	3-1/8 x 0.063				T	Т
Contac	ct length	90-150 mm	150-270 mm	270-550 mm	500-1000 mm	700-1500 mm

T = Trapezoid tooth Photo below: FUTURA® PREMIUM





NEW: TAURUS®

• For universal use



	nsions Thickness	Tooth pitch in tpi				
mm	Inch	3-4	2-3	1.4-2	1.0-1.4	0.7-1.0
27 x 0.90	1-1/16 x 0.035	Т				
34 x 1.10	1-3/8 x 0.042	T	Т			
41 x 1.30	1-5/8 x 0.050	Ţ	T	Ţ		
54 x 1.60	2-1/8 x 0.063		T	T		
67 x 1.60	2-5/8 x 0.063			T	T	
80 x 1.60	3-1/8 x 0.063				T	T
Contac	ct length	90-150 mm	150-270 mm	270-550 mm	500-1000 mm	950-3000 mm

NEW: TAURUS® PREMIUM

- Coated version
- For a longer tool life

	nsions Thickness	Tooth pitch in tpi				
mm	Inch	3-4	2-3	1.4-2	1.0-1.4	0.7-1.0
34 x 1.10	1-3/8 x 0.042	T	Т			
41 x 1.30	1-5/8 x 0.050		T	T		
54 x 1.60	2-1/8 x 0.063		T	T		
67 x 1.60	2-5/8 x 0.063			T	T	
Contac	t length	90-150 mm	150-270 mm	270-550 mm	500-1000 mm	950-3000 mm

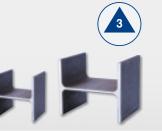
T = Trapezoid tooth
Photo below: TAURUS®



WIKUS CARBIDE TIPPED BAND SAW BLADES

PROFIDUR®

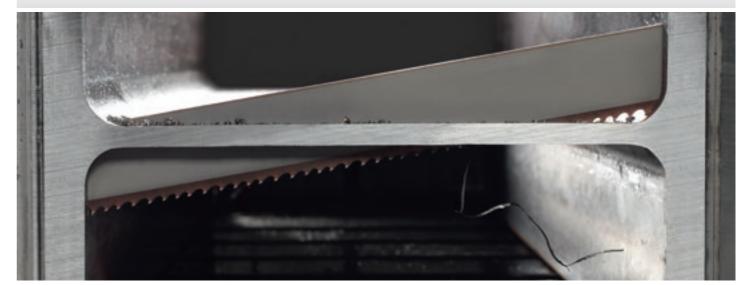
- For high-performance sawing of beams and profiles
- For burr sawing
- For excellent surface quality



Dime	nsions	Tooth pi	tch in tpi		
Width x	Thickness				
mm	Inch	3-4	2-3		
54 x 1.30	2-1/8 x 0.050		T		
54 x 1.60	2-1/8 x 0.063	Т	T		
67 x 1.60	2-5/8 x 0.063		T		
Contac	ct length	90-150 mm	150-270 mm		

T = Trapezoid tooth





FUTURA® VA

- Optimized tooth geometry
- For rust and acid-resistant steels
- For heat-resistant steels and special alloys



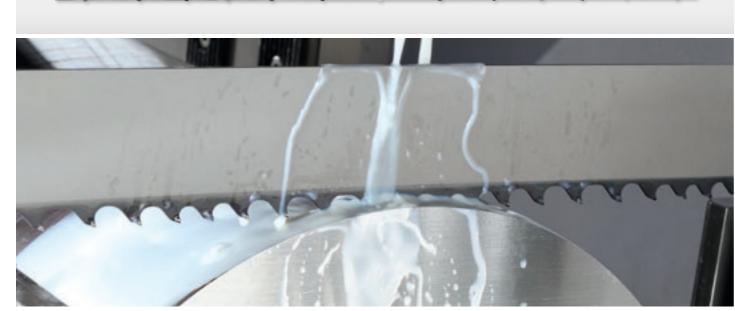
	nsions Fhickness	Tooth pitch in tpi				
mm	Inch	3-4	2-3	1.4-2	1.0-1.4	0.85-1.15
34 x 1.10	1-3/8 x 0.042		Т			
41 x 1.30	1-5/8 x 0.050	T	T	T		
54 x 1.30	2-1/8 x 0.050		T	T		
54 x 1.60	2-1/8 x 0.063		T	T		
67 x 1.60	2-5/8 x 0.063			T	Т	T
80 x 1.60	3-1/8 x 0.063	T				
Contac	t length	90-150 mm	150-270 mm	270-550 mm	500-1000 mm	700-1500 mm

FUTURA® PREMIUM VA

- Coated version
- For a longer tool life

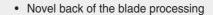
	nsions Thickness			Tooth pitch in tpi		
mm	Inch	3-4	2-3	1.4-2	1.0-1.4	0.85-1.15
41 x 1.30	1-5/8 x 0.050	T	Т	Т		
54 x 1.60	2-1/8 x 0.063		T	T		
67 x 1.60	2-5/8 x 0.063			T	T	
80 x 1.60	3-1/8 x 0.063					T
Contac	t length	90-150 mm	90-150 mm 150-270 mm		500-1000 mm	700-1500 mm

T = Trapezoid tooth Photo below: FUTURA® PREMIUM VA



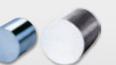
WIKUS CARBIDE TIPPED BAND SAW BLADES

FUTURA® 718



- For high cutting performance
- For nickel-based alloys and duplex steels





	nsions Fhickness	Tooth pitch in tpi		
mm	Inch	2-3	1.4-2	1.0-1.4
41 x 1.30	1-5/8 x 0.050	Т	Т	
54 x 1.30	2-1/8 x 0.050	Т	Т	
54 x 1.60	2-1/8 x 0.063	Т	Т	
67 x 1.60	2-5/8 x 0.063	Т	Т	T
80 x 1.60	3-1/8 x 0.063			Т
Contac	t length	150-270 mm	270-550 mm	500-1000 mm

T = Trapezoid tooth





ECODUR®

• Universal use with steels and non-ferrous metals





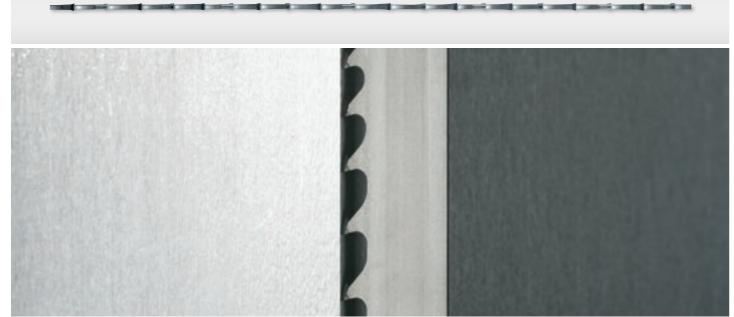
	nsions Thickness	Tooth pitch in tpi			
mm	Inch	3-4	2-3	1.4-2	0.85-1.15
13 x 0.80	1/2 x 0.032	Т			
20 x 0.80	3/4 x 0.032	Т			
27 x 0.90	1-1/16 x 0.035	Т	Т		
34 x 1.10	1-3/8 x 0.042	Т	Т	Т	
41 x 1.30	1-5/8 x 0.050	T	T	T	
54 x 1.30	2-1/8 x 0.050		Т	Т	
54 x 1.60	2-1/8 x 0.063		T	T	T
67 x 1.60	2-5/8 x 0.063			Т	
Contac	ct length	90-150 mm	150-270 mm	270-550 mm	550-1600 mm

DUROSET® NE

- · Extra wide set
- For non-ferrous metals
- For manual sawing applications

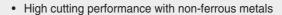
	nsions Thickness	Tooth pitch in tpi Extra wide set		
mm	Inch	3 2		
20 x 0.90	3/4 x 0.035	K		
27 x 0.90	1-1/16 x 0.035	K		
34 x 1.10	1-3/8 x 0.042	K	K	
Contac	Contact length 120-200 mm		200-400 mm	

T = Trapezoid tooth, K = Hook tooth Photo below: ECODUR®



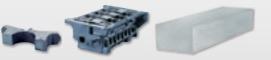
WIKUS CARBIDE TIPPED BAND SAW BLADES

FUTURA® NE



- For excellent surface quality
- For foundry applications and aluminum blocks





	ensions Thickness	Tooth pitch in tpi				
mm	Inch	3-4	2-3	1.4-2	0.85-1.15	0.7-1.0
27 x 0.90	1-1/16 x 0.035	T				
34 x 1.10	1-3/8 x 0.042		Т	Т		
41 x 1.30	1-5/8 x 0.050		T	T		
54 x 1.60	2-1/8 x 0.063			Т	Т	
67 x 1.60	2-5/8 x 0.063			Т		
80 x 1.60	3-1/8 x 0.063				Т	Т
Conta	ct length	90-150 mm	150-270 mm	270-550 mm	550-1600 mm	950-3000 mm

FUTURA® NE RS

- Reduced cutting channel width
- For aluminum blocks

	nsions Thickness	Tooth pitch in tpi				
mm	Inch	3-4	2-3	1.4-2	0.85-1.15	0.7-1.0
41 x 1.30	1-5/8 x 0.050			Т		
54 x 1.30	2-1/8 x 0.050			T		
54 x 1.60	2-1/8 x 0.063				Т	Т
80 x 1.10	3-1/8 x 0.042			Т		T
Contac	t length	90-150 mm	150-270 mm	270-550 mm	550-1600 mm	950-3000 mm

T = Trapezoid tooth Photo below: FUTURA® NE





ARION® FG

- Coated band saw blade for maximum cutting performance on high-performance band saws
- For mass cuts and short product production
- For engineering, heat-treatable and tool steels



Dimensions Width x Thickness		Tooth pitch in tpi				
	Inch	2.4	04 00 440 0740			0710
mm	ITICIT	3-4	2-3	1.4-2	1.0-1.4	0.7-1.0
54 x 1.10	2-1/8 x 0.042		T	T		
67 x 1.10	2-5/8 x 0.042	T	T	T		
80 x 1.10	3-1/8 x 0.042		T	T	T	
100 x 1.10	4 x 0.042		T	T	T	T
Contact le	ength	90-150 mm 150-270 mm		270-550 mm	500-1000 mm	950-3000 mm

ARION® EG

• For optimal surface quality

	nsions Thickness	Tooth pitch in tpi				
mm	Inch	3-4	2-3	1.4-2	1.0-1.4	0.7-1.0
54 x 1.10	2-1/8 x 0.042	Т	Т			
67 x 1.10	2-5/8 x 0.042	T	T	T		
80 x 1.10	3-1/8 x 0.042		T	T	T	
100 x 1.10	4 x 0.042		T	T	T	T
Contact I	length	90-150 mm 150-270 mm 270-550 mm 500-1000 mm 950-30			950-3000 mm	

ARION® PG

• For tubes and profiles

	nsions Thickness	Tooth pitch in tpi				
mm	Inch	3-4	2-3	1.4-2	1.0-1.4	0.7-1.0
54 x 1.10	2-1/8 x 0.042	T	Т			
67 x 1.10	2-5/8 x 0.042	Т	T			
Contact length		90-150 mm	150-270 mm	270-550 mm	500-1000 mm	950-3000 mm

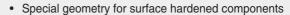
T = Trapezoid tooth
Photo below: ARION® FG





WIKUS CARBIDE TIPPED BAND SAW BLADES

FUTURA® SN



- For steels up to 65 HRC
- For high-performance requirements



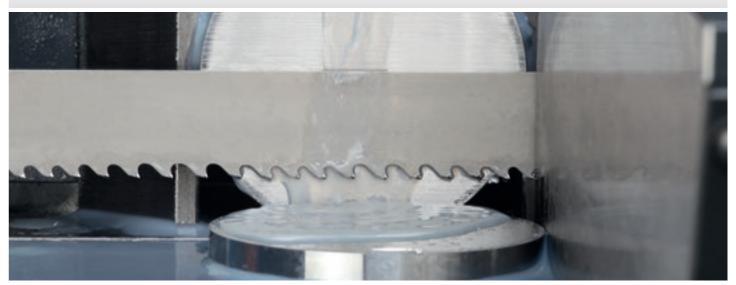




	nsions Thickness	Tooth pi	tch in tpi
mm	Inch	3-4	2-3
27 x 0.90	1-1/16 x 0.035	TSN	
34 x 1.10	1-3/8 x 0.042	TSN	TSN
41 x 1.30	1-5/8 x 0.050	TSN	TSN
54 x 1.60	2-1/8 x 0.063		TSN
Contac	ct length	40-150 mm	150-270 mm

TSN = Tooth shape TSN





WIKUS CARBIDE TIPPED BAND SAW BLADES

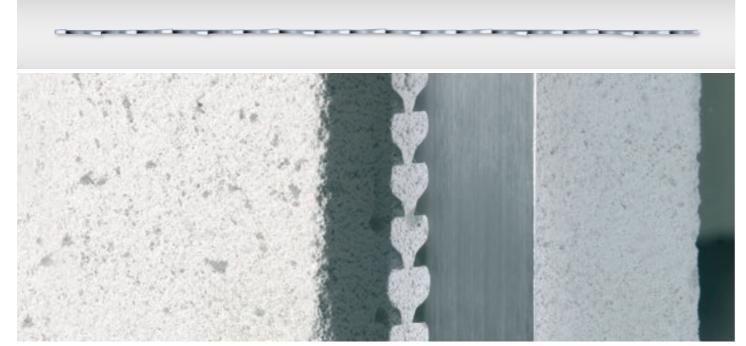
TCT®

- Set carbide band saw blade for cutting building materials
- For abrasive and mineral materials
- For graphite
- For sanded gray iron



	nsions Thickness	Tooth pitch in tpi			
mm	Inch	4	3	2	1.25
13 x 0.80	1/2 x 0.032	S			
20 x 0.80	3/4 x 0.032	S	S		
27 x 0.90	1-1/16 x 0.035	S	S, K	K	
34 x 1.10	1-3/8 x 0.042		S, K	K	
41 x 1.30	1-5/8 x 0.050			K	K
Contac	t length	80-120 mm	120-200 mm	200-400 mm	300-800 mm

S = Standard tooth, K = Hook tooth



WIKUS CARBIDE TIPPED BAND SAW BLADES

TCTYRE®

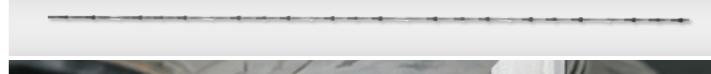
A specially developed band saw blade for cutting tires

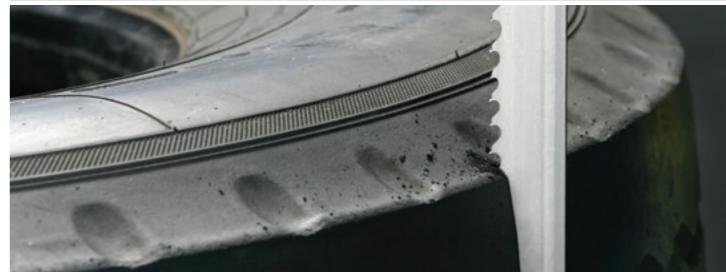




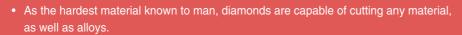
	Dimensions Tooth p Width x Thickness		itch in tpi	
mm	Inch	3-4	2-3	
27 x 0.90	1-1/16 x 0.035	Т	Т	
34 x 1.10	1-3/8 x 0.042	Т	Т	
41 x 1.30	1-5/8 x 0.050	T	Т	
54 x 1.60	2-1/8 x 0.063		Т	
Conta	ct length	90-150 mm	150-270 mm	

T = Trapezoid tooth





DIAMOND COATED BAND SAW BLADES

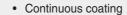


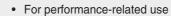
- The unique properties of the backing materials developed for WIKUS are perfectly suited for standing up to the stress these extremely high cutting speeds cause.
- Due to the rather unique applications of DIAGRIT, we generally recommend that you contact us for advice on grain sizes to coordinate combinations of grain size and diameter of the blade to suit your application.

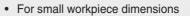
Sales units:	Welded-to-length band saw blades
Band widths:	10 to 100 mm
Diamond coating:	Continuous (K), segmented (S), intermittent (U), with 6 to 30 mm pitch
Grain sizes:	D64, D91, D126, D151, D181, D252, D301, D356, D426, D501, D601
Areas of application:	Silicon, Glass, Fiberglass, Natural stone
Option:	Alternative band dimensions upon request

WIKUS DIAMOND COATED BAND SAW BLADES

DIAGRIT® K











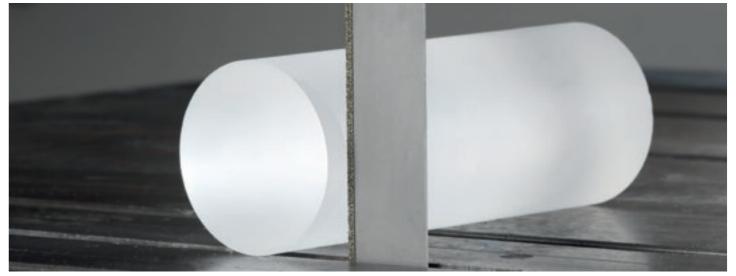
	ensions Thickness	Dimensions Width x Thickness				
mm	Inch	mm	Inch			
10 x 0.50	3/8 x 0.020	27 x 0.90	1-1/16 x 0.035			
13 x 0.50	1/2 x 0.020	34 x 1.10	1-3/8 x 0.042			
13 x 0.65	1/2 x 0.025	41 x 0.50	1-5/8 x 0.020			
16 x 0.50	5/8 x 0.020	41 x 0.80	1-5/8 x 0.032			
20 x 0.50	3/4 x 0.020	41 x 1.30	1-5/8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

DIAGRIT® K VA

· The back of the blade is made of stainless steel

	nsions Thickness	Dimensions Width x Thickness				
mm	Inch	mm	Inch			
13 x 0.50	1/2 x 0.020	41 x 0.50	1-5/8 x 0.020			
20 x 0.50	3/4 x 0.020	54 x 1.10	2-1/8 x 0.042			
27 x 0.50	1-1/16 x 0.020	60 x 0.50	2-1/3 x 0.020			

Grain sizes: D64, D91, D126, D151, D181, D252, D301, D356, D426, D501, D601 Alternative band dimensions upon request



DIAGRIT®S

- Segmented coating in rectangular or semi-circular shape
- For performance-related use
- For average workpiece dimensions





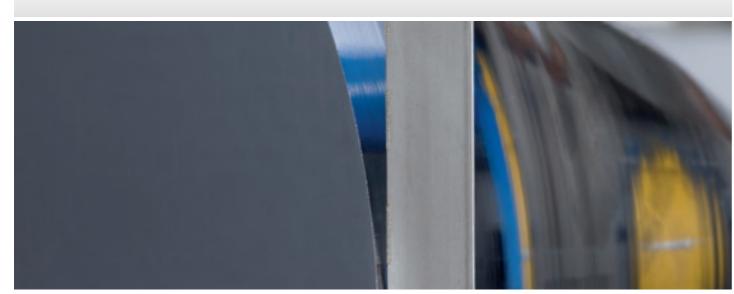
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20 x 0.50	3/4 x 0.020	41 x 1.30	1-5/8 x 0.050			
20 x 0.80	3/4 x 0.032	50 x 0.90	2 x 0.035			
27 x 0.50	1-1/16 x 0.020	54 x 1.10	2-1/8 x 0.042			
27 x 0.70	1-1/16 x 0.028					

DIAGRIT® S VA

• The back of the blade is made of stainless steel

	nsions Thickness	Dimensions Width x Thickness				
mm	Inch	mm	Inch			
13 x 0.50	1/2 x 0.020	41 x 0.50	1-5/8 x 0.020			
20 x 0.50	3/4 x 0.020	54 x 1.10	2-1/8 x 0.042			
27 x 0.50	1-1/16 x 0.020	60 x 0.50	2-1/3 x 0.020			

Grain sizes: D64, D91, D126, D151, D181, D252, D301, D356, D426, D501, D601 Alternative band dimensions upon request

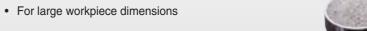


WIKUS DIAMOND COATED BAND SAW BLADES

DIAGRIT® U











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

Grain sizes: D64, D91, D126, D151, D181, D252, D301, D356, D426, D501, D601 Alternative band dimensions upon request





CARBON STEEL BAND SAW BLADES

Tooth shapes:

Tooth pitches:

Types of tooth set:

Well-suited for tasks that include everything from basic workshop operations to machining of composite materials
 Hardened tooth tips and an extremely flexible blade body ensure high reliability
 Sales units:

 Coils in fixed lengths and manufacturing coils of up to 120 m, depending on the width
 Welded-to-length band saw blades

 Band widths:

 5 to 25 mm

L, S, K

SD, WS, GS

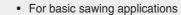
See page 48 for explanations

See page 49 for explanations

3 to 24 teeth per inch (tpi) See page 49 for explanations

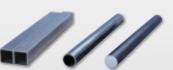
WIKUS CARBON STEEL BAND SAW BLADES

EXTRA



• For unalloyed steels of low strength





Dime	nsions	Tooth pitch in tpi							
Width x	Thickness		SD						
mm	Inch	6	4	3					
8 x 0.65	5/16 x 0.025	S	L						
10 x 0.65	3/8 x 0.025	S	S,L	L					
13 x 0.65	1/2 x 0.025	S	S,L	L					
16 x 0.80	5/8 x 0.032	S	S	L					
20 x 0.80	3/4 x 0.032	S	S,L	L					

L = Skip tooth, S = Standard tooth

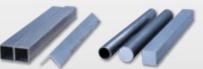




DIAMANT

- For basic workshop operations
- For low alloy, medium strength steels

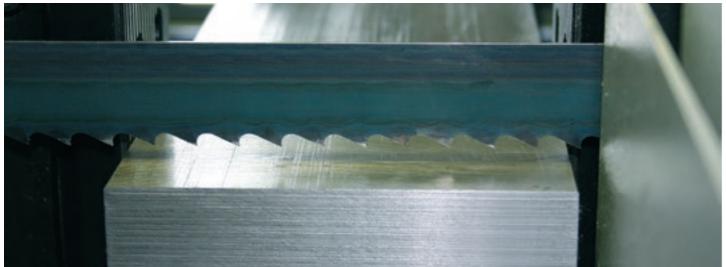




Dimer	nsions					Tooth pi	tch in tpi					
Width x T	hickness				SD				W	WS		
mm	Inch	18	14	10	8	6	4	3	24	14	4	
5 x 0.40	3/16 x 0.016		S						S			
5 x 0.65	3/16 x 0.025		S	S					S			
6 x 0.40	1/4 x 0.016					K						
6 x 0.65	1/4 x 0.025	S	S	S	S	K			S		K	
8 x 0.65	5/16 x 0.025	S	S	S	S	K	K		S		K	
10 x 0.65	3/8 x 0.025		S	S	S	K	K	K	S			
13 x 0.65	1/2 x 0.025		S	S	S	K	K	K	S			
16 x 0.50	5/8 x 0.020	S			S							
16 x 0.65	5/8 x 0.025			S		K	K	K		S		
16 x 0.80	5/8 x 0.032			S		K	K	K		S		
20 x 0.80	3/4 x 0.032			S	S	K	K	K		S		
25 x 0.90	1 x 0.035			S	S	S	К	К				

S = Standard tooth, K = Hook tooth





WIKUS CARBON STEEL BAND SAW BLADES

JET

- For fusion cutting operations
- For steels of up to 30 mm in thickness
- For composite materials



Dime	Dimensions		Tooth pitch in tpi								
Width x	Thickness	SD		GS							
mm	Inch	14	10	8	6	4					
10 x 0.65	3/8 x 0.025	S									
16 x 0.80	5/8 x 0.032		S								
20 x 0.80	3/4 x 0.032	S									
25 x 0.90	1 x 0.035			S	S	S					

S = Standard tooth





SELECTING THE RIGHT BAND SAW BLADE

1. Band length

The dimensions of the band will depend on what band saw machine you are using – you will find an interactive overview of the most popular band saw machines and appropriate dimensions of WIKUS band saw blades on our website: www.wikus.com.

2. Band width

- Horizontal machines: band width specified by the manufacturer
- Vertical band saw machines: higher variations in band width are possible, please see the manufacturer's information
- Band width: the wider the band saw blade, the more stability it will have
- Contour cuts: the smallest radius to be cut is the limiting factor for the band width

3. Cutting edge material

WIKUS offers four main groups of cutting edge materials:

- Bimetal (HSS)
- Carbide
- DiamondCarbon steel

The machinability of the material to be cut determines what cutting material you should choose.

4. Tooth pitch

The length of engagement of the saw blade in the workpiece represents the most important parameter for choosing the tooth pitch.

The material to be sawed and the type of saw blade used also play a role in selecting the right pitch.

You will find the different engagement lengths listed with upper and lower limits in the tables on the individual products that WIKUS offers. We specify our recommended tooth pitch here.

The table to the side is used to determine the appropriate tooth pitch when cutting solid material at a constant pitch.

When cutting pipes, the outside diameter and wall thickness are the defining parameters for choosing the right tooth pitch.

Please refer to our recommendations in the table shown opposite.

Constant tooth pitch	Contact length (mm)					
tpi	from	to				
24		6				
18		10				
14		15				
10	15	30				
8	30	50				
6	50	80				
4	80	120				
3	120	200				
2	200	400				
1.25	300	800				

5. Tooth shape

The combination of our various tooth shapes, cutting-edge materials and band saw dimensions allows for the highest possible cutting performance.

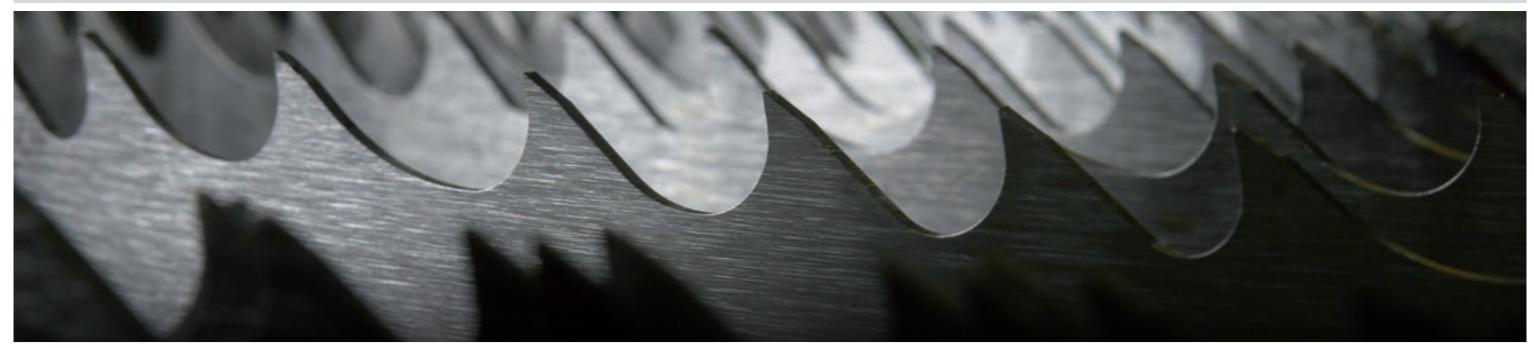
6. Types of tooth set

For a more detailed description, please turn the page.

s	Cutting of tubes Outer diameter of the tube (mm) / Tooth pitch Tz in tpi																
mm	20	40	60	80	100	120	150	200	300	400	500	600	700	800	900	1000	1500
2	14	14	14	14	14	14	10-14	10-14	8-12	8-12	6-10	6-10	5-8	5-8	5-8	5-8	5-8
3	14	14	10-14	10-14	10-14	10-14	8-12	8-12	6-10	6-10	5-8	5-8	5-8	4-6	4-6	4-6	4-6
4	14	14	10-14	10-14	8-12	8-12	8-12	8-12	5-8	5-8	4-6	4-6	4-6	4-6	4-6	4-6	3-4
5	14	10-14	10-14	10-14	8-12	8-12	8-12	6-10	5-8	5-8	4-6	4-6	4-6	4-6	3-4	3-4	3-4
6	14	10-14	10-14	8-12	8-12	8-12	8-12	5-8	5-8	4-6	4-6	4-6	3-4	3-4	3-4	3-4	3-4
8	14	10-14	8-12	8-12	8-12	6-10	6-10	5-8	4-6	4-6	4-6	3-4	3-4	3-4	3-4	2-3	2-3
10		8-12	6-10	6-10	6-10	5-8	5-8	4-6	4-6	4-6	3-4	3-4	3-4	3-4	2-3	2-3	2-3
12		8-12	6-10	6-10	5-8	5-8	4-6	4-6	4-6	3-4	3-4	3-4	3-4	2-3	2-3	2-3	2-3
15		8-12	6-10	5-8	5-8	4-6	4-6	4-6	3-4	3-4	3-4	2-3	2-3	2-3	2-3	2-3	2-3
20			6-10	5-8	4-6	4-6	4-6	3-4	3-4	3-4	2-3	2-3	2-3	2-3	2-3	2-3	2-3
30				4-6	4-6	4-6	3-4	3-4	3-4	2-3	2-3	2-3	2-3	2-3	2-3	2-3	1.4-2
50						3-4	3-4	3-4	2-3	2-3	2-3	2-3	2-3	2-3	1.4-2	1.4-2	1.4-2
75								2-3	2-3	2-3	2-3	2-3	1.4-2	1.4-2	1.4-2	1.4-2	1.4-2
100									2-3	2-3	1.4-2	1.4-2	1.4-2	1.4-2	1.4-2	1.4-2	1.4-2
150										2-3	1.4-2	1.4-2	1.4-2	1.4-2	1.0-1.4	1.0-1.4	1.0-1.4
200											1.4-2	1.4-2	1.4-2	1.0-1.4	1.0-1.4	1.0-1.4	0.75-1.25
250												1.4-2	1.0-1.4	1.0-1.4	1.0-1.4	0.75-1.25	0.75-1.25
300													1.0-1.4	1.0-1.4	0.75-1.25	0.75-1.25	0.75-1.25
350														1.0-1.4	0.75-1.25	0.75-1.25	0.7-1.0
400															0.75-1.25	0.75-1.25	0.7-1.0
450																0.7-1.0	0.7-1.0

s = Wall thicknes





If you need to cut two or more tubes that are lying side by side, please use this table that takes the double wall thickness into consideration (s).

TOOTH SHAPES

Skip tooth (L)



Rake angle: 0°, for:

- flexible materials (aluminum and wood)
- only available from the tool steel assortment

Profile tooth (P)



Rake angle: positive, for:

- hollow and angle profiles
- steel beams
- bundle and layer cuts
- applications that are susceptible to vibrations

Hook tooth (K)

Standard tooth (S)

Rake angle: 0°, for:

· short-chipping materials

· tool steel and cast iron

thin-walled profiles

· steels with a high carbon content

· materials with small cross-sections



Rake angle: positive, for:

- universal use
- · non-ferrous metals and steels
- · profiles and solid materials

Tooth shape (HV)



Rake angle: positive and there is a distinct difference in tooth, for:

- high cutting performance
- solid materials
- short-chipping materials
- · tempered steels

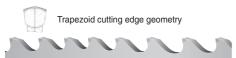
Tooth shape (VA)



Rake angle: extremely positive and there is a distinct difference in tooth, for:

- · high cutting performance
- solid materials
- long-chipping materials
- · rustproof and acid-resistant steels
- superalloys

Trapezoid tooth (T)



Rake angle: positive, for:

- · high cutting performance
- · optimal surface finishes

Tooth shape TSN (Trapezoid tooth)



Rake angle: negative, especially for:

- · surface-hardened shafts
- hardened steels up to 62 HRC, hard manganese steels, hard-chrome plated workpieces
- · diameters of up to 300 mm

TYPES OF TOOTH SET

The free-cutting action of the band saw blade is achieved by means of the tooth set, where the teeth protrude alternately left and right beyond the blade body.

Standard set (SD) Toothing interval

All-purpose set for cutting thicknesses of more than 5 mm with steels, castings and hard non-ferrous metals.

Constant tooth pitch: set sequence is left/right/straight.

Variable tooth pitch: one tooth in each toothing interval is unset, the remaining teeth in the interval are recurrently set left/right or in the reverse order.



For band saw blades in the tooth pitch range of 4-18 tpi, improved surface quality is obtained using the group set.

Wavy set (WS)



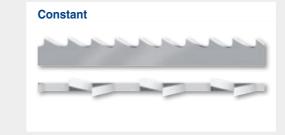
We recommend wavy set for material dimensions of up to 5 mm, like sheets, thin-walled tubes and profiles.

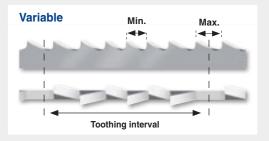
TOOTH PITCH (Tz)

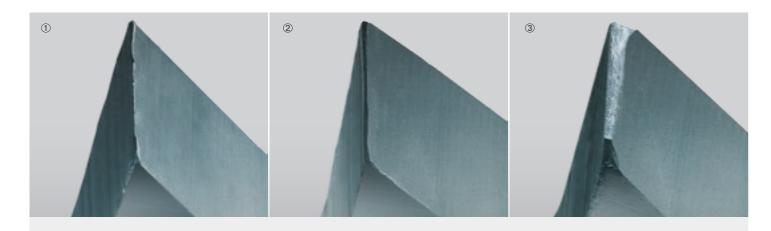
Tooth pitch refers to the number of teeth per inch (tpi). 1 inch equates to 25.4 mm.

A distinction is made between constant tooth pitches with a uniform tooth distance, 2 tpi for example, and variable tooth pitches with different tooth distances within one toothing interval.

Variable tooth pitches, for instance 2-3 tpi, can be characterized by two measures: 2 tpi stands for the maximum tooth distance and 3 tpi stands for the minimum tooth distance in the toothing interval.







BREAKING IN YOUR BAND SAW BLADES

Sharp cutting edges that have extremely small edge radii are the ideal prerequisites for high cutting ability and a long service life. This is ensured by breaking in the blades properly. See pictures above:

- 1. New cutting edge with a very small edge radius
- 2. Proper breaking in of the band saw blade creates a stable cutting edge
- 3. Excessive strain due to improper breaking in leads to micro-breakages of the cutting edge

Before you use them for the first time:

- Band tension should be about 300 N/mm²
- · Check and adjust the oil content of the cooling lubricant by using a hand refractometer
- The recommended oil content of the cooling lubricant can be found in the cutting data slide rule or in ParaMaster® 3.0

BIMETAL BAND SAW BLADES

- Determine the right cutting speed and feed rate (using the WIKUS bimetal cutting data slide rule, for instance) based on the material to be cut and its dimensions.
- Important: Use a new blade with approx. 100% of the cutting speed (m/min) and approx. 50% of the feed rate (mm/min)

CARBIDE BAND SAW BLADES

- Determine the right cutting speed and feed rate (using the WIKUS carbide cutting data slide rule, for instance) based on the material to be cut and its dimensions.
- Important: Use a new blade with approx. 75% of the cutting speed (m/min) and approx. 50% of the feed rate (mm/min)
- Very important: band saw blades can be prone to vibration and vibration noise - Help: To resolve this issue, reduce the cutting speed (m/min) once again
- With small workpiece dimensions, approx. 300 cm² of the material should be cut to break in the blade.
- With large workpiece dimensions, we recommend breaking in over a period of about 15 min.
- After breaking in, slowly increase the cutting speed (m/min) to the determined value and then gradually increase the feed rate (mm/min) to the value that you determined before.

The cutting data slide rule that WIKUS has developed for bimetal and carbide band saw blades can be of practical assistance. Or use ParaMaster® 3.0, the online cutting data program from WIKUS that features a wide variety of different functions. More information can be found on page 5 or register directly under www.paramaster.de





CONTACT

CUSTOMER CENTER

Pre-Sales

- · Price inquiries / quotations
- · Questions concerning your offer
- Entry / change of customer data

Phone: +49 (5663) 500 **222** Fax: +49 (5663) 500 380 E-Mail: presales@wikus.com

Order-Desk

- Placement of an order / taking of orders
- Inquiries on confirmation of an order / orders

Phone: +49 (5663) 500 **100** Fax: +49 (5663) 500 310 E-Mail: orderdesk@wikus.com

After-Sales

- · Inquiries concerning the delivery status of your order
- · Complaints regarding your goods

Phone: +49 (5663) 500 **555**Fax: +49 (5663) 500 390
E-Mail: aftersales@wikus.com

CORPORATE HEADQUARTERS

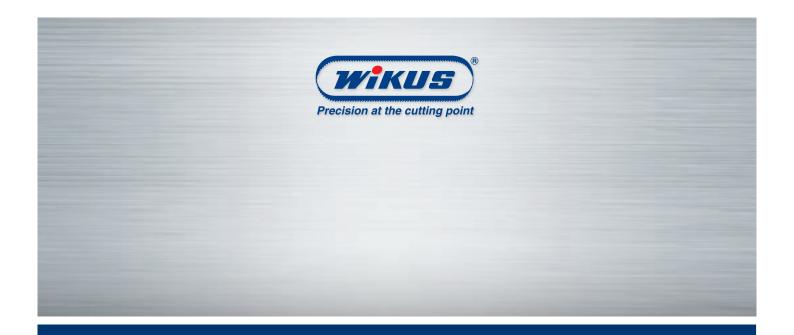
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Innovative precision tools designed and manufactured in Spangenberg, Germany

