

Edition 2022

Fact BAND SAW BLADES

Welcome to ARNTZ

Your cutting expert for the entire world of metals.

More than 225 years of manufacturing, of tools and of passion: We are proudly looking back on a long tradition while facing the future with excitement. Complex materials are opening up new markets and alloys are developing along with higher requirements of their products behind. This requires new and innovative cutting solutions. Our specialists are being challenged with the demands of many different markets – daily. We are familiar with the materials and their cross sections – over all industries and down to the detail.

Our operational structures allow us to quickly address the individual need of our customers and develop optimal solutions close to you. We will assist you from the first question up to the fine-tuning. Even at your site if required.

Saw blades from ARNTZ are high-performance tools – economical, precise and perfectly matched to the relevant application. Our actions are guided by our high quality standards and our passion for what we do. We deliver sawing technology "Made in Germany" that you can depend on worldwide – promised!



Innovative cutting technology...



Optimized operating processes and continuous quality controls are the foundation of ARNTZ's high-end saw blades. Every single step in the production process goes through our multilayered control system to guarantee our quality standards.



Our experienced service technicians provide in-depth expert knowledge that has been adapted to fit your exact requirements. Alongside telephone assistance and on-site support, we also offer training modules targeted to your requirements.

...and competent advice.





We are on your side – worldwide.



Explanation of symbols

	Material	Article group		Material	Article group
	solid material round small	400 420 430	0	round tube heavy walled	401 431 437 537 544
	solid material round medium	402 421 426 436 457 557 622 627 643 650 662		bundle of tubes	400 402 430 457 557
	solid material round large	401 402 431 437 457 537 544 557 622 627		square tube small	420
	solid material square large	401 402 431 437 457 537 544 557 622 627		square tube large	402 457 557
	solid material special alloy	643 650 537 544 557 622 627 650	Ø	aluminium profile	436 662
	solid material rectangular	401 431 437 537 544 622 627 643 650	Н	standard steel beam	402 457 557
	solid material	401 431 437 537 544	н	wide flange	445
	sheet panel	400 430	н	heavy walled	445
0	small round	400 430		steel beam	402 457 557
0	tube standard wall thickness				
0	small round tube thin wall thickness	400 430	\wedge	L angle steel	402 457 557
0	round tube standard wall thickness	400 402 426 430 457 557	0	surface hardened material	651



Now is the time to make the **right cut!**

Category	Article grou	up	Description		Engineered for	Material	Page
	uncoated	coated				cross-section	
Bi-Metal Band Saw	Blades					0 00	10
Standard Universal use at a	430		M42-SPRINT		profile	O õõ	10
good price- performance ratio	431		M42-SPRINT-PL	US	solid material	• •	11
	457		M42-X-FIT		mix	OH	12
Professional	445	845 C-TEC	M42-PROFILER		profile	HH	13
of large steel profiles	557	857 C-TEC	M51-X-PRO		mix	• O H	14
	544		M51-BLIZZARD		solid material		15
Professional Plus	437	837 C-TEC	M42-TAIFUN-SP	RINT	solid material	• •	16
Band Saw Blades	537	867 C-TEC	M51-TAIFUN-MA	AXIMA 🗹	solid material	$\bullet \circ \bullet$	17
Other Applications	420		M42-STAR	constant tooth pitch			18
and aluminium	421		M42-STAR-PLUS	constant tooth pitch	solid material		18
	426		M42-ALUCUT-PL	US constant tooth pitch	aluminium		18
	436		M42-ALUCUT-SP	PRINT	aluminium		18
Basic	400		M42-BASIC		profile	0 88	19
The low-cost alternative to our products <u>"made in</u>	401		M42-BASIC-PLUS	5	solid material	• •	20
Germany"	402		M42-BASIC-PRO		mix	• O H	21
Carbide Tipped Bar	nd Saw B	lades					
Standard The expert for universal	627	827 C-TEC	Q-LINE	multi chip geometry	steel, stainless steel and non-ferrous metals		23
use	662		CAST-LINE	band saw blade with tooth set	castings, non-ferrous metals		24
Professional Professional sawing	622	822 C-TEC	BLACK-LINE-S	band saw blade with tooth set	hard to cut and abrasive materials		25
of difficult to cut materials and non- ferrous metals	643		BLUE-LINE	triple chip geometry	non-ferrous metals and graphites		26
Professional Plus High-performance sawing	650	850 C-TEC	SILVER-LINE	multi chip geometry	high-alloy steels and non- ferrous metals		27
Other Applications	651		SILVER-LINE-N	multi chip geo- metry negative	extremely hard or surface hardened materials		28
construction materials	621		STONE-LINE-RT	carbide tipped for stones and concretes	construction and insulation materials		29
Carbon Steel Band	Saw Bla	des					
	100		CS-1	flexible band back			30
	110		CS-2-PLUS	spring hardened band ba	ck		30
Professional Acces	ssories		Tension measuri	ing device, Refractome	ter, Application toolkit		31

Bi-Metal Why so successful?

M42

Material no. 1.3247 hardness approx. 68-69 HRC

M51

Material no. 1.3207 hardness approx. 69 HRC, with high tungstenand cobalt content.



Flexible:

The blade backer of our Bi-Metal Band Saw Blade consists of a special alloyed spring steel. Highly flexible at a hardness of about 50 HRC. The ideal basis for long fatigue life and excellent cutting performance.

Hard and wear resistant:

Tooth tips made of hardened HSS-Steel in M42 or M51 quality obtained due to well-balanced hardening and fixed structure resulting in high wear resistance.

Perfectly joint:

Both materials are undetachably welded together by a special electron or laser beam.

All advantages:

The high quality Bi-Metal band combines the flexibility of the spring steel backing with the enormous wear resistance of the high speed steel. Each tooth tip of the finished band is made of hardened HSS-steel, extremely durable for best performance.

Band Saw geometry

Terminology





Tooth forms Where performs the right tooth?



Designed for:

- short chipping materials
- light wall thickness

Data:

- rake angle 0°
- constant tooth pitch of 4 to 18 tpi

Article groups:

100, 110, 420



Designed for:

- long chipping materials
- large cross sections

Data:

- positive rake angle
- constant tooth pitch of 3 to 6 tpi

Article groups: 100, 110, 421, 426

Only the correctly selected tooth form allows efficient cutting with low vibration. Four basic types are available:



Designed for:

- low vibration cutting
- structurals

Data:

- rake angle 0°
- variable tooth pitch of 5/8 to 10/14 tpi

Article group: 400, 430 (K-0)

Designed for:

low vibration cutting

positiv

Variable tooth = K

solid materials

Data:

- positive rake angle
- variable tooth pitch of 0,75/1,25 to 12/16 ZpZ

Article groups:

401, 431, 436, 437 (K-POS) 402, 445, 457, 557 (K-P, K-VS, K-X) 537, 544 (K-PLUS)

Tooth pitch



The tooth distance is equally spaced. The number of teeth per inch (25,4 mm) denotes the toothing of the saw blade.

Constant or variable?



The tooth distances vary within a group of teeth. The smallest and the largest tooth pitch denotes the variable toothing of the saw blade.



Correct tooth pitch – optimum performance.

The choice of the right tooth pitch is decisive to achieve the optimum performance. Choose between the standard tooth with constant tooth pitch or the combination tooth with variable tooth pitch. The varibale tooth is recommended for low-vibration sawing in problematic workpieces.

Recommendation to cut solid material

Variable tooth pitch			
Cross section	Teeth per inch		
mm	tpi		
from 550	0,75/1,25		
380 - 750	1/1,3		
250 - 550	1,4/2		
120 - 350	2/3		
80 - 140	3/4		
60 - 110	4/6		
40 - 70	5/7 5/8		
30 - 60	6/10		
20 - 40	8/11 8/12		
to 25	10/14		

Recommendation to cut tubes and structurals

Thin wall struct	Thin wall structurals (0° – 7° rake angle)											
Wall thickness	Diam. of structural (D) in mm											
(S) in mm	20	40	60	80	100	120	150					
2	14	14	14	14	14	14	10/14					
3	14	14	14	14	10/14	10/14	8/11 8/12					
4	14	14	10/14	10/14	8/11 8/12	8/11 8/12	6/10					
5	14	10/14	10/14	8/11 8/12	8/11 8/12	6/10	6/10					
6	14	10/14	8/11 8/12	8/11 8/12	6/10	6/10	5/7 5/8					
8	14	8/11 8/12	6/10	6/10	5/7 5/8	5/7 5/8	5/7 5/8					
10	-	6/10	6/10	5/7 5/8	5/7 5/8	5/7 5/8	-					

The choice of the right tooth has special influence on the cutting result on tubes and structurals. Variable tooth has proven to be the most favourable tooth form. The required tooth pitch is depending on the wall thickness and dimensions of the structurals. The recommendations shown here refer to single cuts. When two or more structurals are cut at the same time, double the wall thickness needs to be considered.

Heavy wall structurals (positive rake angle)											
Wall thickness	Diam. of structural (D) in mm										
(S) in mm	80	100	120	150	200	300	500	750			
10	-	-	-	4/6	4/6	4/6	3/4	2/3			
15	4/6	4/6	4/6	4/6	4/6	3/4	2/3	2/3			
20	4/6	4/6	4/6	4/6	3/4	3/4	2/3	2/3			
30	4/6	4/6	4/6	3/4	3/4	2/3	2/3	2/3			
50	-	-	3/4	3/4	2/3	2/3	2/3	1,4/2			
80	-	-	-	-	2/3	2/3	1,4/2	1,4/2			
100	-	-	-	-	-	2/3	1,4/2	1,4/2			

ARNTZ Bi-Metal Band Saw Blades are supplied as endless welded loops to fit your band saw machines, or in coils: 6-13 mm in length of approx 30,5+76 m 54-67 mm in length of approx 90 m 80 mm in length of approx 40 m



Bi-Metal and Carbide Tipped Band Saw Blades

dn

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For each cutting operation the right choice.

Page of catalogue

hoduct name A42-SPRINT A42-SPRINT-PLUS A42-X-FIT A42-PROFILFR	Art. gro 43(451 451
4 2-PK0FILEK 51-X-PR0	557
51-BLIZZARD 42-TAIFUN-SPRINT 51 TAIELIN MAVIMAA	541 543
42-STAR_DILIS	42(
42-ALUCUT-PLUS	42
42-ALUCUT-SPRINT 42-BASIC	6 6 7 7
42-BASIC-PLUS 42-BASIC-PRO	40;
-LINE AST-LINE	62
ACK-LINE-S LUE-LINE	62 64
LVER-LINE	65
LVER-LINE-N	65:

11 12 13 14 15 16 17 18 18 18 18 19 20 21 23 24 25 26 27 28

Material dimen	ision (mm)								
- Structural steels	< 70								
- Case-hardening steels	80-350								
- Free machining steels	> 350								
- Unalloyed tool steels	< 70								
- Spring steels	80-350								
- Ball bearing steel	> 350								
- High speed steels	< 70								
- Cold-work steels	80-350								
	> 350								
- Nitride steels	< 70								
- Heat treatable steels	80-350								
- Hot working steels	> 350								
- Stainless steels	< 70								
	80-350								
	> 350								
- High temperature steels	< 70								
- Heat resistant steels	80-350								
	> 350								
- High tensile steels	< 70								
- Titanium + titanium alloys	80-350								
- Nickel alloys	> 350								
- Surface hardened steel shafts	< 70								
- Hardened steels up to $\mathrm{HRC62}$	80-350								
- Hardchromed materials	> 350								
- Steel castings	< 70								
- Cast irons	80-350								
	> 350								
- Aluminium	< 70	_							
- Copper	80-350								
	> 350								
- Brass	< 70	_							
- Bronze	80-350								
- Red brass	> 350								
- Aluminium + alloys	< 70								
- Aluminium alloys with silicon	80-350								
	> 350								
			Qualificat	ion	= verv	auuq	= σ	bod	



Standard

M42-SPRINT

The fabrication professional for light and medium wall thicknesses.

- structurals with light or medium walls
- short chipping materials
- sheet metal on vertical band saw machines





Dimensions		Tooth			
mm	inch	5/8	6/10	8/12	10/14
6 x 0,90	1/4 x 0,035				K
10 x 0,90	3/8 x 0,035				K
13 x 0,65	1/2 x 0,025	K	K	K	K
13 x 0,90	1/2 x 0,035		K	K	K
20 x 0,90	3/4 x 0,035	K	К	K	K
27 x 0,90	1 x 0,035	K	К	К	K
34 x 1,10	1 1/4 x 0,042	К	К	K	
41 x 1,30	1 1/2 x 0,050	K	K		
K = Variable tooth					

M42-SPRINT-PLUS

Perfect for materials of medium to large dimensions.

Engineered for:

- production band saw machines
- all-purpose use for steels and non-ferrous metals

Standard

- tensile strengths of up to 1400 N/mm²
 thick walled structurals





Dimensions		Tooth				
mm	inch	0,75/1,25	1,4/2	2/3	3/4	4/6
20 x 0,90	3/4 x 0,035					К
27 x 0,90	1 x 0,035			K	K	K
34 x 1,10	1 1/4 x 0,042		K	K	K	K
41 x 1,30	1 1/2 x 0,050		K	K	K	K
54 x 1,30	2 x 0,050		K	K	K	K
54 x 1,60	2 x 0,063	K	K	K	K	K
67 x 1,60	2 5/8 x 0,063	K	K	K		
80 x 1,60	3 x 0,063	K	K			
K = Variable tooth						





The multi-purpose blade for small and medium cross-sections.

Engineered for:

• steel beams, profiles and tubes

Standard

• mixed materials





Dimensions		Tooth				
mm	inch	2/3	3/4	4/6	5/7	8/11
20 x 0,90	3/4 x 0,035			К	К	K
27 x 0,90	1 x 0,035		K	K	K	K
34 x 1,10	1 1/4 x 0,042	K	K	К	K	
41 x 1,30	1 1/2 x 0,050	K	K	K		
54 x 1,30	2 x 0,050		K	K		
54 x 1,60	2 x 0,063	K	K	К		
67 x 1,60	2 5/8 x 0,063	K	K			
K = Variable tooth						

5°-7



Article group 445 845 C-TEC

Professional

M42-PROFILER

Robust performance for steel construction.

Also coated available **C-TEC** for extremely increased feed rates, significantly reduced cutting times and maximized blade life.



- large cross-section steel beams
- structurals with residual stress



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Article group 557 857 C-TEC



The pro with particularly wear-resistant teeth. For sawing processes using minimal lubrication. Powerful at high cutting speeds and feeds.

Also coated available **C-TEC** for extremely increased feed rates, significantly reduced cutting times and maximized blade life.



Engineered for:

- steel beams, profiles and pipes
- mixed cross-sections







Dimensions		Tooth				
mm	inch	2/3		3,	/4	4/6
27 x 0,90	1 x 0,035					К
34 x 1,10	1 1/4 x 0,042			I	(К
41 x 1,30	1 1/2 x 0,050	K	C-TEC	K	C-TEC	K
54 x 1,30	2 x 0,050			K	C-TEC	
54 x 1,60	2 x 0,063	K	C-TEC	K	C-TEC	
67 x 1,60	2 5/8 x 0,063	K	C-TEC	K	C-TEC	К
K = Variable tooth						

88 🗆 F

Professional

M51-BLIZZARD

Extra wear resistant teeth made of powder metallurgical HSS-steel.

- hard and tough materials up to $1700 \ \text{N/mm}^2$
- stainless steel
- copper and copper based alloys titanium and titanium based alloys
- thick walled structurals





Dimensions		Tooth						
mm	inch	0,75/1,25	1/1,3	1,4/2	2/3	3/4	4/6	5/8
27 x 0,90	1 x 0,035				K	K	K	K
34 x 1,10	1 1/4 x 0,042				K	K	K	
41 x 1,30	1 1/2 x 0,050			K	K	K		
54 x 1,60	2 x 0,063		K	K	K			
67 x 1,60	2 5/8 x 0,063	K	K	K	K			
80 x 1,60	3 x 0,063	K	K	K				
K = Variable tooth wit	h special geometry							



Professional Plus

Article group 437 837 C-TEC

M42-TAIFUN-SPRINT

Excellent for use on high-performance band saw machines.

Also coated available **C-TEC** for extremely increased feed rates, significantly reduced cutting times and maximized blade life.

Engineered for:

- tensile strengths of up to 1400 N/mm²
- stainless steel
- all-purpose use for steels and non-ferrous metals
- thick walled structurals





The borazon-ground tooth tips ensure an excellent cutting surface, perfectly angular cuts and long blade life.

Dimensions		Tooth							
mm	inch	0,75/	/1,25	1,4	1,4/2 2/3		/3	3/4	
27 x 0,90	1 x 0,035				К		K	К	
34 x 1,10	1 1/4 x 0,042				K K		K	K	
41 x 1,30	1 1/2 x 0,050			K	C-TEC	K	C-TEC	K	C-TEC
54 x 1,30	2 x 0,050			K	C-TEC	K	C-TEC	K	C-TEC
54 x 1,60	2 x 0,063	K	C-TEC	K	C-TEC	K	C-TEC	K	C-TEC
67 x 1,60	2 5/8 x 0,063	K	C-TEC	K	C-TEC	K	C-TEC		
80 x 1,60	3 x 0,063	K	C-TEC	K	C-TEC				
K = Variable tooth									



Article group 537 867 C-TEC

Professional Plus

M51-TAIFUN-MAXIMA

Extremely wear-resistant, ground teeth for the most difficult cutting conditions.

Also coated available **C-TEC** for extremely increased feed rates, significantly reduced cutting times and maximized blade life.

Engineered for:

- tensile strengths of up to 1700 N/mm²
- stainless steel
- heat resistant duplex steel
- nickel based alloys
- aluminium alloys
- titanium based alloys





The borazon-ground tooth tips ensure an excellent cutting surface, perfectly angular cuts and long blade life.

Dimensions		Tooth									
mm	inch	0,75	0,75/1,25		1/1,3		1,4/2		2/3		/4
27 x 0,90	1 x 0,035								K		K
34 x 1,10	1 1/4 x 0,042								K		K
41 x 1,30	1 1/2 x 0,050					K	C-TEC	K	C-TEC	K	C-TEC
54 x 1,60	2 x 0,063			K	C-TEC	K	C-TEC	K	C-TEC		
67 x 1,60	2 5/8 x 0,063	K	C-TEC	K	C-TEC	K	C-TEC	K	C-TEC		
80 x 1,60	3 x 0,063	K	C-TEC	K	C-TEC	K	C-TEC				
K = Variable tooth											

BI-METAL

Article group 420

M42-STAR

Allrounder for solid, small-dimensioned materials.

Engineered for:

- common steel qualities and non ferrous metals
- short-chipping materials
- small structurals with thin walls
 narrow cross sections up to approx. 100 mm

Other Applications

aterials • contour cutting operations/y



Dimensior	IS	Tooth				
mm	inch	4	6	10	14	18
6 x 0,90	1/4 x 0,035			Ν	Ν	
10 x 0,90	3/8 x 0,035			Ν	Ν	
13 x 0,65	1/2 x 0,025			Ν	Ν	Ν
13 x 0,90	1/2 x 0,035				Ν	
20 x 0,90	3/4 x 0,035				N-W	N-W
27 x 0,90	1 x 0,035	Ν	Ν		N-W	
N = Standa	rd tooth W =	Wavv se	t			

Article group 426

Other Applications

M42-ALUCUT-PLUS

For cutting aluminium without pinching.

Engineered for:

- pure aluminium and aluminium alloys
- solid material and structurals
- · materials with residual stress and a tendency to pinch



Dimension	15	10001		
mm	inch	3	4	6
10 x 0,90	3/8 x 0,035		H	Н
13 x 0,65	1/2 x 0,025		Н	Н
13 x 0,90	1/2 x 0,035	Н	Н	Н
20 x 0,90	3/4 x 0,035	Н		
27 x 0,90	1 x 0,035	H		
H = Hook t	ooth			

Article group 421

Other Applications

M42-STAR-PLUS

The saw blade for medium sized solid materials.

Engineered for:

- small workshop bandsaws
- · common steel qualities and non ferrous metals
- cross sections over approx. 100 mm



/	1
-	10°

Dimensior	าร	Tooth							
mm	inch	3	4	6					
6 x 0,90	1/4 x 0,035			Н					
10 x 0,90	3/8 x 0,035		Н	Н					
13 x 0,65	1/2 x 0,025		Н	Н					
13 x 0,90	1/2 x 0,035	Н	Н	Н					
20 x 0,90	3/4 x 0,035	Н							
27 x 0,90	1 x 0,035	Н							
H = Hook t	ooth								

Article group 436

Other Applications

M42-ALUCUT-SPRINT

Easy cutting of light-weight metals.

- pure aluminium and aluminium alloys
- solid material and structurals



Arntz.

Article group 400

Basic

M42-BASIC

The profil expert for thin and medium wall thicknesses and small dimensions of working pieces.

- structurals with light or medium walls
- short chipping materials
- sheet metal on vertical band saw machines





Dimensions		Tooth				
mm	inch	4/6	5/8	6/10	8/12	10/14
13 x 0,65	1/2 x 0,025		K	K	К	K
13 x 0,90	1/2 x 0,035		K	K	K	K
20 x 0,90	3/4 x 0,035	K	K	K	K	K
27 x 0,90	1 x 0,035	K	K	К	К	K
34 x 1,10	1 1/4 x 0,042		K	K	K	K
K = Variable tooth						



M42-BASIC-PLUS

Great for material in medium and large dimensions.



- production band saw machines
- all-purpose use for steels and non-ferrous metals
- tensile strengths of up to 1400 N/mm²
- thick walled structurals





Dimensions		Tooth				
mm	inch	1/1,3	1,4/2	2/3	3/4	4/6
20 x 0,90	3/4 x 0,035					K
27 x 0,90	1 x 0,035			K	K	K
34 x 1,10	1 1/4 x 0,042			K	K	K
41 x 1,30	1 1/2 x 0,050		K	К	К	K
54 x 1,60	2 x 0,063		K	К	К	K
67 x 1,60	2 5/8 x 0,063	K	K	K	K	
K = Variable tooth						



Basic

Article group 402

M42-BASIC-PRO

The multi-purpose blade for small and medium profiles and solid material.

Engineered for:

- steel beams, profiles and tubes
- mixed materials





Dimensions		Tooth					
mm	inch	2/3	3/4	4/6	5/7	8/11	12/16
20 x 0,90	3/4 x 0,035				K	K	K
27 x 0,90	1 x 0,035		K*	K	K	K	K
34 x 1,10	1 1/4 x 0,042		K*	K*	K*		
41 x 1,30	1 1/2 x 0,050	K*	K*	K*	K*		
54 x 1,60	2 x 0,063	K*	K*	K*			
67 x 1,60	2 5/8 x 0,063	К*	K*				
K = Variable tooth						* a\	vailable 2022

5°-7

Why so successful?



Flexible:

The blade backer for Carbide Band Saw Blades is made of special alloyed spring steel.

Extremely durable:

The tooth tips consist of wear resistant high-grade carbide.

Perfectly joint:

Carbide tooth tips are welded to the backer in a special procedure.

Band Saw geometry:

Also in the ARNTZ production program: High performance Carbide Tipped Band Saw Blades.

The welded carbide tips are available in different tooth geometries. These geometries grant an optimal formation of chips and best cutting results.

The different tooth geometries provide clean and smooth cuts at minimum vibration.



Correct operation:

Carbide Tipped Band Saw Blades must be used on band saw machines that are particularly suitable for this purpose in order to achieve optimum performance.

Carbide Tipped Band Saw Blades are supplied as endless welded loops or in coils: 27-80 mm in length of approx. 50 m

Arntz.

Article group 627 827 C-TEC

Standard

Q-LINE

The multi-chip geometry ensures optimal chip division in the sawing process. This leads to a long service life and prevents tooth breakages.

Also coated available **C-TEC** for extremely increased feed rates, significantly reduced cutting times and maximized blade life.

- standard steel
- stainless steel
- non-ferrous metals





Dimensions		Tooth									
mm	inch	0,75	0,75/1,25		1/1,5		1,4/2		2/3		/4
27 x 0,90	1 x 0,035										K
34 x 1,10	1 1/4 x 0,042						K		K	K	C-TEC
41 x 1,30	1 1/2 x 0,050					K	C-TEC	K	C-TEC	K	C-TEC
54 x 1,30	2 x 0,050					K	C-TEC	K	C-TEC		
54 x 1,60	2 x 0,063	K	C-TEC	K	C-TEC	K	C-TEC	K	C-TEC	K	C-TEC
67 x 1,60	2 5/8 x 0,063	K	C-TEC	K	C-TEC	K	C-TEC	K	C-TEC		
80 x 1,60	3 x 0,063	K	C-TEC			K	C-TEC				
K = Variable tooth											



Standard

Article group 662



Carbide tipped band saw blade with set tooth. The expert in castings especially for sawing jobs in non-ferrous foundries. Engineered for:

• castings made out of aluminum and bronze





Dimensions		Tooth
mm	inch	3
13 x 0,9	1/2 x 0,035	H*
20 x 0,9	3/4 x 0,035	Н
27 x 0,9	1 x 0,035	Н
H = Hook tooth		*unset

Arntz.

Article group 622 822 C-TEC

Professional

BLACK-LINE-S

Carbide tipped band saw blade with set tooth for abrasive materials, difficult to cut.

Also coated available **C-TEC** for extremely increased feed rates, significantly reduced cutting times and maximized blade life.

- titanium alloys
 - metals with high residual stress
 - stainless steels
- special alloys
- abrasive non-ferrous metals and graphite





Dimensions		Tooth								
mm	inch	0,75	0,75/1,25		1,4/2		/3	3	3	/4
20 x 0,90	3/4 x 0,035							Н		
27 x 0,90	1 x 0,035						K	Н		K
34 x 1,10	1 1/4 x 0,042				K		K			K
41 x 1,30	1 1/2 x 0,050			K	C-TEC	K	C-TEC		K	C-TEC
54 x 1,30	2 x 0,050			K	C-TEC	K	C-TEC			
54 x 1,60	2 x 0,063	K	C-TEC	K	C-TEC	K	C-TEC			
67 x 1,60	2 5/8 x 0,063	K	C-TEC	K	C-TEC					
80 x 1,60	3 x 0,063	K	C-TEC	K	C-TEC					
K = Variable tooth	H = Hook tooth									



Professional

BLUE-LINE

Carbide tipped band saw blades with triple chip geometry for cutting non-ferrous metals and graphite.

- aluminium alloys
- aluminium bronzes
- copper alloys
- sand cast aluminium and cast magnesium
- graphite





Dimensions		Tooth					
mm	inch	0,65/0,95	0,75/1,25	1,4/2	2/3	3	3/4
20 x 0,90	3/4 x 0,035					Н	
27 x 0,90	1 x 0,035				K	Н	K
34 x 1,10	1 1/4 x 0,042			K	K	Н	K
41 x 1,30	1 1/2 x 0,050			K	K		K
54 x 1,30	2 x 0,050			K	K		
54 x 1,60	2 x 0,063		K	K	K		
67 x 1,60	2 5/8 x 0,063			K			
80 x 1,60	3 x 0,063	K*	K				
K = Variable tooth	H = Hook tooth					* Reengineer	ed geometry

Arntz_

Article group 650 850 C-TEC

Professional Plus

SILVER-LINE

Carbide tipped band saw blades with multi chip tooth geometry for cutting high-alloy steels and non-ferrous metals.

Also coated available **C-TEC** for extremely increased feed rates, significantly reduced cutting times and maximized blade life.

- stainless steel
- heat resistant steels
- cold and hot working steels
- hardened steel up to 1900 N/mm²
- nickel based alloys
- aluminium-silicon alloys
- copper-nickel alloys
- titanium and titanium alloys
- exotic, hard to cut alloys





Dimensions		Tooth									
mm	inch	0,75/1,25		1/	1/1,5 1,4/2		4/2	2/3		3/4	
27 x 0,90	1 x 0,035								K		K
34 x 1,10	1 1/4 x 0,042						K	K	C-TEC		K
41 x 1,30	1 1/2 x 0,050					K	C-TEC	K	C-TEC	K	C-TEC
54 x 1,30	2 x 0,050					K	C-TEC	K	C-TEC		
54 x 1,60	2 x 0,063	K	C-TEC	K	C-TEC	K	C-TEC	K	C-TEC	K	C-TEC
67 x 1,60	2 5/8 x 0,063	K	C-TEC	K	C-TEC	K	C-TEC	K	C-TEC		
80 x 1,60	3 x 0,063	K	C-TEC			K	C-TEC				
K = Variable tooth											



Other Applications

SILVER-LINE-N

Carbide tipped band saw blades with multi chip tooth geometry, negative rake angle for cutting extremely hard or surface hardened materials.

- induction hardened piston rods
- steels hardened up to 62 HRC
- hard chromium plated materials
- manganiferrous alloyed steels





Dimensions		Tooth		
mm	inch	1,4/2	2/3	3/4
27 x 0,90	1 x 0,035		К	К
34 x 1,10	1 1/4 x 0,042		К	К
41 x 1,30	1 1/2 x 0,050	K	К	К
54 x 1,60	2 x 0,063	K	K	K
K = Variable tooth				

OTHER APPLICATIONS



Article group 621

Other Applications

STONE-LINE-RT

The universal band saw blade for all construction and insulation materials of small and large dimensions running on brick band saw machines.

The new variable tooth pitch ensures notably lowvibration and quiet sawing processes and assures supreme quietness. The results are clean and smooth cuts of the best quality.

Thanks to its long blade life and increased durability, our further developed, precision-ground tooth geometry is particularly convincing in hard building materials.

- pore or lightweight concrete
- perforated brick
- porous bricks ("Poroton")
- insulation material



Dimensions		Tooth
mm	inch	2/3
27 x 0,90	1 x 0,035	К
K = Variable tooth		



CS-1

Flexible band back in pin-point quality with hardened teeth. Suitable for everyday workshop purposes.

Dimensions		Tooth p	er inch								
mm	inch	3	4	4	6	6	8	10	14	18	24
6 x 0,65	1/4 x 0,025	H*		Н		Н	Ν	Ν	Ν	Ν	Ν
10 x 0,65	3/8 x 0,025	Н		Н	Ν	Н	Ν	Ν	Ν	Ν	Ν
13 x 0,65	1/2 x 0,025	Н		Н	Ν	Н	Ν	Ν	Ν	Ν	Ν
16 x 0,80	5/8 x 0,032	H*		Н	Ν		Ν	Ν	Ν	Ν	N*
20 x 0,80	3/4 x 0,032	Н		Н	Ν	Н	Ν	Ν	Ν	Ν	Ν
25 x 0,90	1 x 0,035	Н	Ν	H*	Ν		Ν	Ν	Ν		
N = Standard tooth 0°	H = Hook tooth 10°								:	* = Spec	ial item

Article group 110

CS-2-PLUS

Spring hardened band back with hardened teeth. For increased wear resistance and long tool life.

Dimensions		Tooth pe	er inch								
mm	inch	3	4	4	6	6	8	10	14	18	24
6 x 0,65	1/4 x 0,025			H*		H*		N*	N*	N*	N*
8 x 0,65	5/16 x 0,025		N*	H*					N*		
10 x 0,65	3/8 x 0,025	H*		H*		H*	N*	N*	N*	N*	
13 x 0,65	1/2 x 0,025	H*		H*	N*	H*	N*	N*	N*	N*	Ν
16 x 0,80	5/8 x 0,032	H*						N*	N*	N*	
20 x 0,80	3/4 x 0,032	Н		H*	Ν		N*	N*	N*	N*	
25 x 0,90	1 x 0,035	Н	N*		N*		N*	N*	N*		
N = Standard tooth 0 ^o	H = Hook tooth 10°								;	* = Speci	al item





PROFESSIONAL ACCESSORIES



Tension measuring device

Wrong tension of band can be the reason for crooked cuts or can cause blade breakage. Therefore, the band tension should be checked frequently. Detailed instructions explain how to select and control the right band saw tension.



The correct concentration of cooling liquid is important for optimum life time of ARNTZ Band Saw Blades. To check the right concentration of liquid while operating it is recommended to use the ARNTZ-Refractometer.

Application toolkit

Making sure your blade runs under perfect conditions. Featuring: Tension measuring device, refractometer, tachometer, accessories and more.

Break-in procedures: For long blade life.

Like all HSS tools, ARNTZ Band Saw Blades should be adhered to a special break-in procedure for extended blade life, less blade changes and best payback of your tool cost.

Overload of the razor-sharp tooth tips should be avoided at the start of the cutting operation. Aggressive cutting with a new blade will lead to premature tooth breakages. Correct break-in will control the gentle rounding of the cutting edges.

Bi-Metal Band Saw Blades

Starting feed should be half of final feed rate at the recommended cutting speed for the first 300 – 500 cm² cutting surface. After that, feed rate should be gradually increased to the maximum cutting rate. In case vibrations or noises should occur at the beginning of the cutting operation, the cutting speed should be slightly adjusted.

Carbide Tipped Band Saw Blades

For break-in procedure during the first 30 minutes we recommend following parameters:

Material diameter up to 600 mm	Cutting speed Feed	=	30 m/min 5 mm/min
Material diameter over 600 mm	Cutting speed Feed	=	25 m/min 3 mm/min

Only when the Band Saw Blades are cutting without any vibrations, cutting speed and feed can be increased step by step to the maximum. The Band Saw Blades are working perfectly when no vibration appears.







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