

Arntz



PRODUCT CATALOG

**BAND SAW
BLADES**

Edition 2025



HIGH PERFORMANCE BAND SAW BLADES

SAWING TECHNOLOGY IS OUR PASSION

We serve the global markets with high performance bandsaw blades from our manufacturing facilities in Germany and the United States. We specialize in offering cutting solutions to suit your application and needs. For 230 years, the ARNTZ family has been investing in supplying the cutting tool market while adapting to the new demands and challenges. Our sales team and engineers have experience in the most diverse and challenging applications and are ready to solve your sawing requirements. Our three production facilities are focused on quality, consistency and service to ensure every Arntz product you buy meets or exceeds expectations. Our customer service and sales team are ready to support.

Your goal is our motivation.



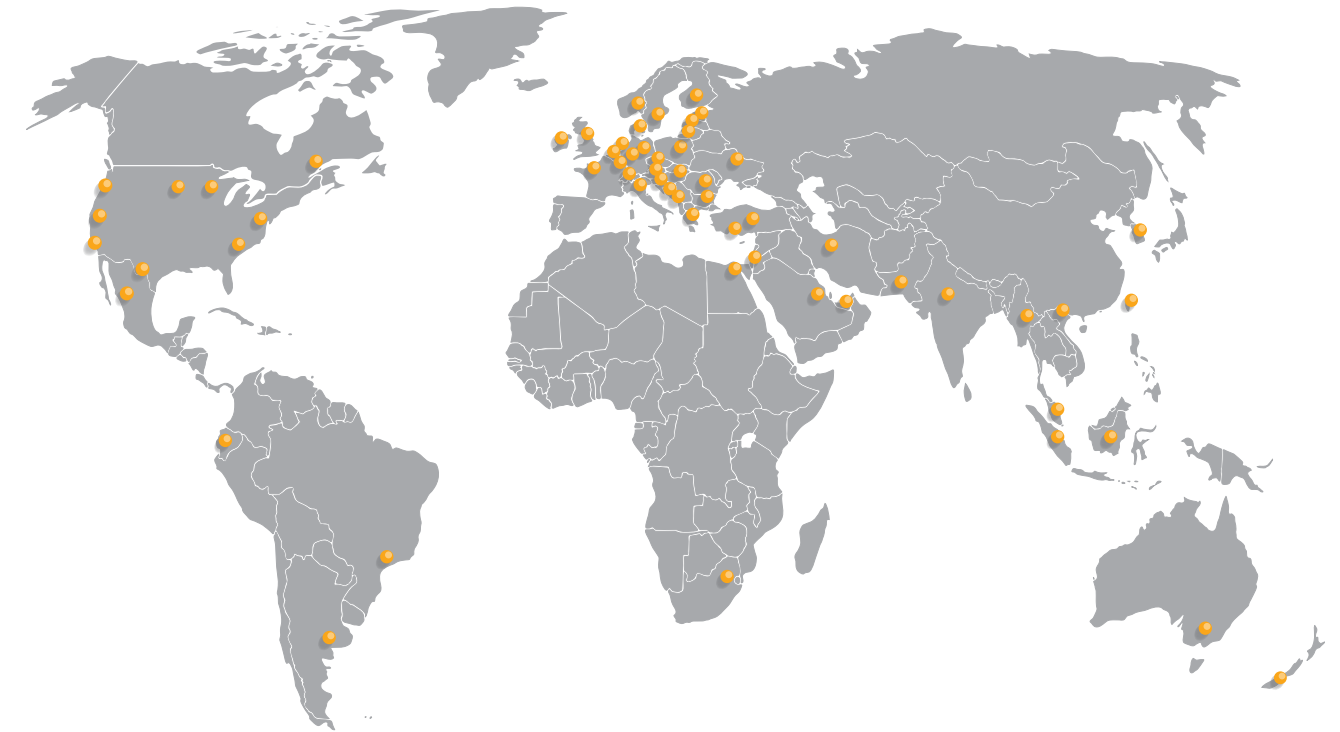
Facts and figures

- › Established in 1793 by Johann Wilhelm Arntz
- › 7th generation ownership
- › Over 230 years of tooling production
- › Manufacturer of high-performance Band Saw Blades
- › Manufacturing locations in Germany and USA
- › Global distribution network covers 80 countries
- › Welding locations in SC, Fort Worth, Indiana, California



JAN WILHELM ARNTZ
CEO

At your side worldwide



Johann Wilhelm Arntz
*1736 + 1834



Johann Ferdinand Arntz
*1806 + 1867



Johann Wilhelm Arntz
*1846 + 1908



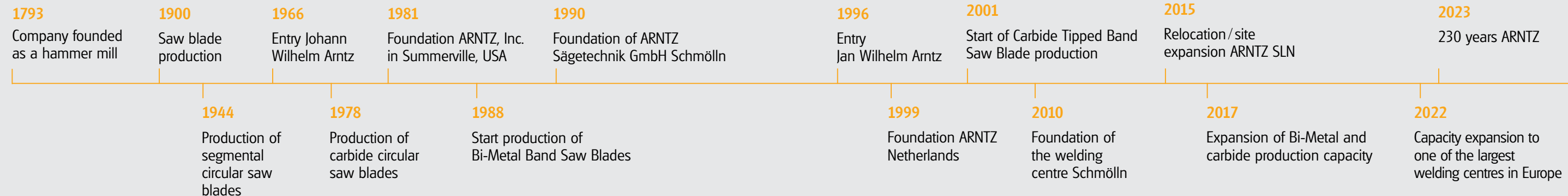
Johann Wilhelm Arntz
*1873 + 1932



Johann Wilhelm Arntz
*1908 + 1957



Johann Wilhelm Arntz
*1939 + 2021



PRODUCTION

Bi-Metal and Carbide Tipped Band Saw Blades

Our state-of-the-art facility is equipped with cutting-edge technology along with innovative design to optimize efficiency and precision while raising production and service standards. This ensures that every product reflects our craftsmanship, consistency as well as reliability to ensure customer satisfaction.



THE RIGHT BREAK-IN

Guarantee for extended blade life

Breaking in a Band Saw Blade is essential to ensure its optimal performance and longevity. This process involves gradually acclimating the blade to tension, temperature, running the machine at slower cutting rates to ensure proper functionality before full operation.

Why is Break-in important?

- › New teeth are very sharp and fragile
- › Prevents premature tooth edge fracturing
- › Break-in improves overall blade life and cut finish

Instructions

- › Reduce band speed by 20% (if you have vibration continue to reduce)
- › Reduce feed rate by 20% to 50% depending on material machinability (Harder material requires a higher feed rate reduction)
- › Small adjustments to blade speed or feed rate may be necessary if noise or vibration occurs
- › Gradually increase feed rate until normal cutting rate are achieved



MISSION STATEMENT – THE ARNTZ 3S



SIMPLIFY

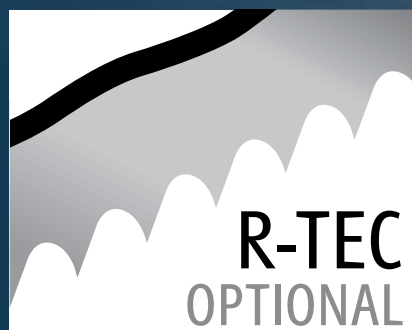
We have a complete product range that offers a competitive and concise solution to the most diverse sector needs on the market

SUPPORT

We have a dedicated, skilled and qualified team to support on-site as well as on the phone

SERVICE

We are dedicated to offer efficient and consistent service solutions to an increasingly demanding market



R-TEC

Faster, Straighter,
Longer!

Second generation ramping technology with improved design capability to give custom made solutions to the most challenging applications.

Benefits

- › Increases tooth penetration without adding more machine feed pressure
- › Allows the blade to cut a wider range of dimensions
- › Precise edge radius control to reduce backer fatigue and improve blade life
- › A fully redesigned machine to support coolant and filtration systems to increase speed, keeping production costs low
- › Newly designed propriety software gives us maximum versatility in ramp design

Available in blades 1 1/2" - 3"



Article group 431

BI-METAL

SPRINT-PLUS

- › Classic tooth geometry to suit all your general-purpose needs
- › Variable tooth design for a wider range of material sizes
- › M42 HSS tooth tip for long and reliable performance



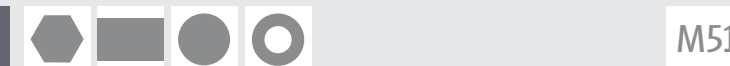
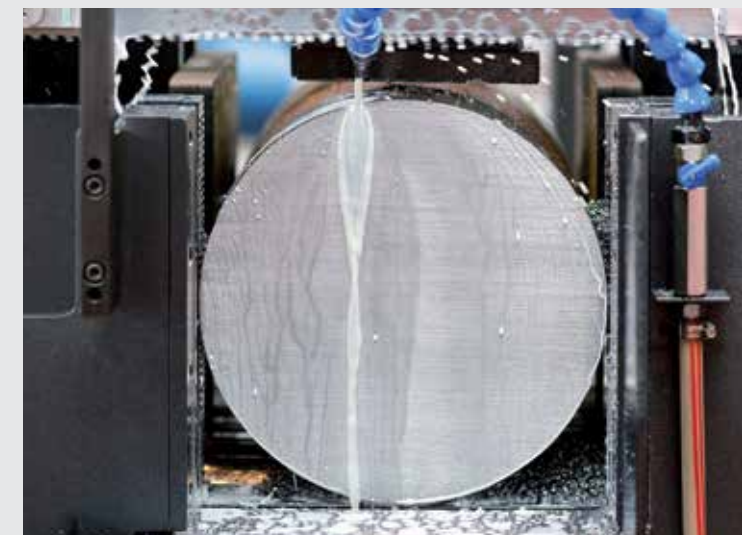
Dimensions		Tooth								
inch	mm	0,75/1,25	1,4/2	2/3	3/4	4/6	5/8	6/10	8/12	10/14
3/4 x 0,035	20 x 0,90					■	■	■	■	■
1 x 0,035	27 x 0,90			■	■	■	■	■	■	■
1 1/4 x 0,042	34 x 1,10			■	■	■	■	■	■	
1 1/2 x 0,050	41 x 1,30		■	■	■	■	■			
2 x 0,050	54 x 1,30			■	■					
2 x 0,063	54 x 1,60	■	■	■	■	■				
2 5/8 x 0,063	67 x 1,60	■	■							
3 x 0,063	80 x 1,60	■	■							

Article group 544

BI-METAL

BLIZZARD-PRO

- › Classic tooth geometry to suit all your general-purpose needs
- › Variable tooth design for a wider range of material sizes
- › M51 HSS tooth tip for improved wear resistance



Dimensions		Tooth		
inch	mm	2/3	3/4	4/6
1 x 0,035	27 x 0,90	■	■	■
1 1/4 x 0,042	34 x 1,10	■	■	■

Article group 457

BI-METAL

X-FIT

- › Robust tooth geometry that provides excellent shock resistance
- › Modified gullet design to reduce vibration
- › Progressive tooth set pattern to avoid material pinching



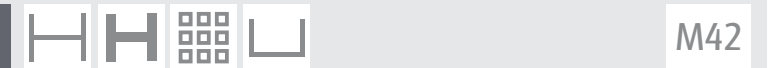
Dimensions		Tooth				
inch	mm	2/3	3/4	4/6	5/7	8/11
3/4 x 0,035	20 x 0,90			■	■	■
1 x 0,035	27 x 0,90		■	■	■	■
1 1/4 x 0,042	34 x 1,10	■	■	■	■	
1 1/2 x 0,050	41 x 1,30	■	■			

Article group 445

BI-METAL

PROFILER

- › The powerhouse for machining large profiles and beams
- › Extended blade life due to robust tooth design even in bundle cutting with chip nests
- › Extra wide set prevents jamming in materials with high residual stress



Dimensions		Tooth	
inch	mm	2/3	3/4
1 1/2 x 0,050	41 x 1,30	■	■
2 x 0,063	54 x 1,60	■	■
2 5/8 x 0,063	67 x 1,60	■	

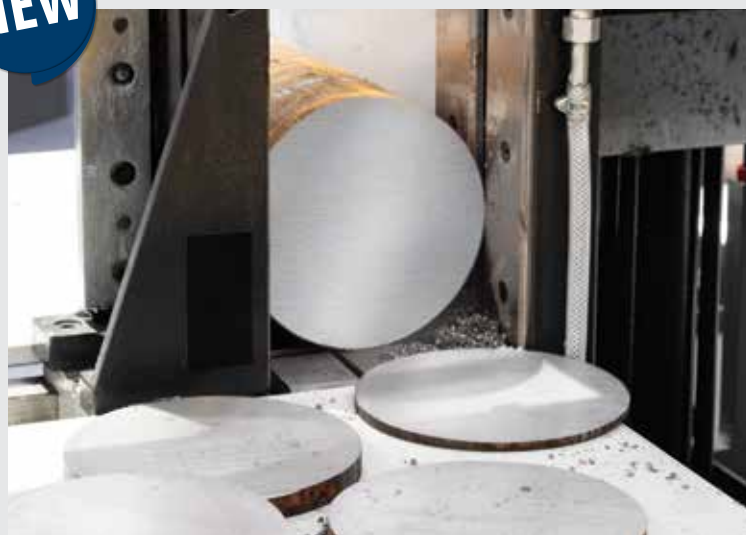
Article group 440

BI-METAL

X-CELL

NEW

- › Aggressive tooth geometry to improve penetration in work-hardening applications
- › Variable set and hi-lo tooth pattern for added penetration while reducing vibration
- › High Chrome premium backer for a long blade life



M42



Dimensions		Tooth			
inch	mm	0,75/1,25	1/1,3	1,4/2	2/3
1 1/2 x 0,050	41 x 1,30			■	■
2 x 0,063	54 x 1,60		■	■	■
2 5/8 x 0,063	67 x 1,60	■	■	■	
3 x 0,063	80 x 1,60	■	■		

Article group 540

BI-METAL

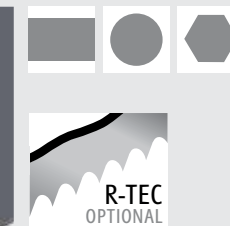
X-CELL PRO

NEW

- › Aggressive tooth geometry to improve penetration in work-hardening applications
- › Variable set and hi-lo tooth pattern for added penetration while reducing vibration
- › M51 HSS tooth tip for improved wear resistance



M51



Dimensions		Tooth			
inch	mm	0,75/1,25	1/1,3	1,4/2	2/3
1 1/4 x 0,042	34 x 1,10				■
1 1/2 x 0,050	41 x 1,30			■	■
2 x 0,063	54 x 1,60		■	■	■
2 5/8 x 0,063	67 x 1,60	■	■	■	
3 x 0,063	80 x 1,60	■	■	■	

Article group 401

BI-METAL

VL-PLUS

- › The budget-friendly choice with a wide range of tooth profiles
- › Versatile application for thin-walled profiles up to large solid material workpieces



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

Article group 402

BI-METAL

VL-GP

- › The budget-friendly multitool with a robust tooth design for varying cutting tasks
- › Saves inventory costs with extended tool life in mixed operations
- › Reduced blade changes



Dimensions		Tooth				
inch	mm	3/4	4/6	5/7	8/11	12/16
3/4 x 0,035	20 x 0,90			■	■	■
1 x 0,035	27 x 0,90	■	■	■	■	■
1 1/4 x 0,042	34 x 1,10	■	■	■		

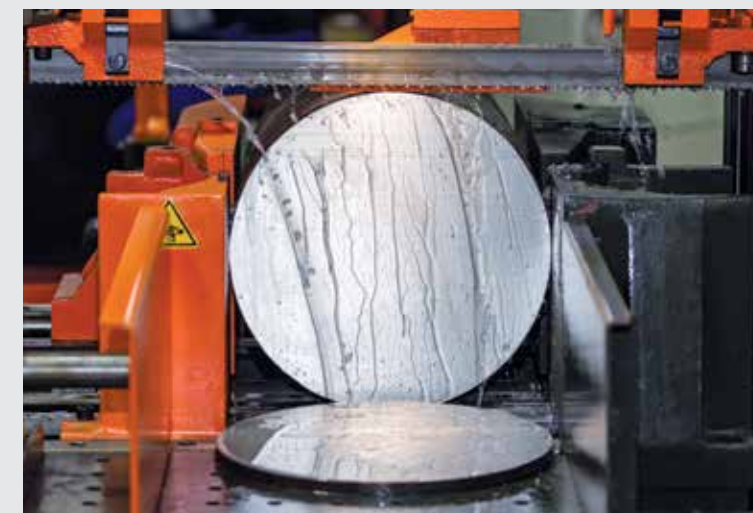


Article group 626

CARBIDE TIPPED

BLACK-LINE TC

- › Robust Triple chip geometry for consistent performance
- › Positive tooth angle with hi-lo tooth design for increased penetration
- › Carbide grade developed for robust performance



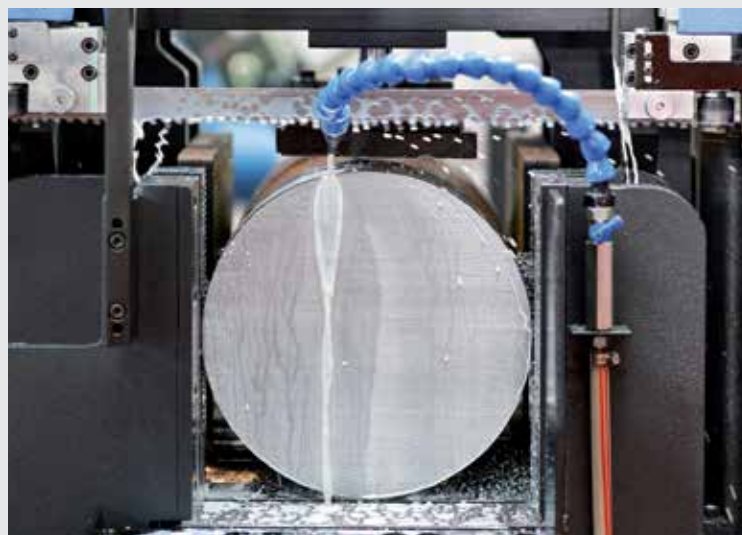
Dimensions		Tooth			
inch	mm	0,75/1,25	1/1,5	1,4/2	2/3
1 1/4 x 0,042	34 x 1,10				■
1 1/2 x 0,050	41 x 1,30			■	■
2 x 0,063	54 x 1,60		■	■	■
2 5/8 x 0,063	67 x 1,60	■	■		
3 x 0,063	80 x 1,60	■			

Article group 622

CARBIDE TIPPED

BLACK-LINE S

- › Modified triple chip geometry combined with set teeth
- › Wide kerf to create excellent cut stability
- › Robust performance in all machine types



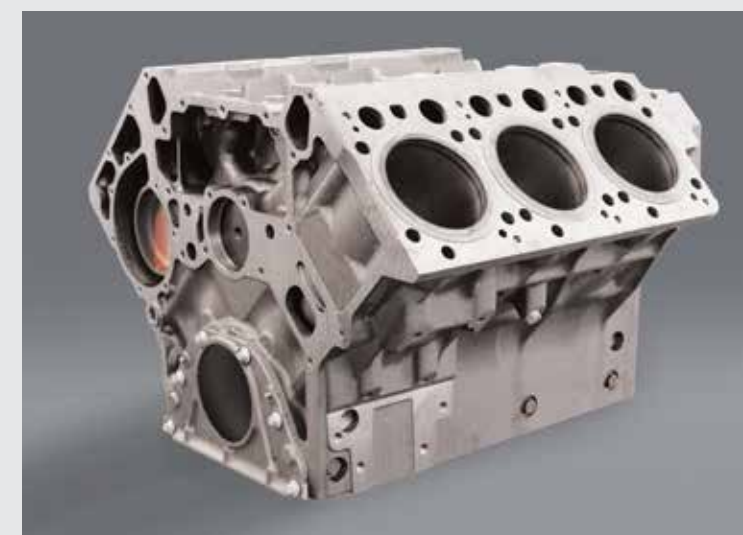
Dimensions		Tooth			
inch	mm	1,4/2	2/3	3/4	3
3/4 x 0,035	20 x 0,90				■
1 x 0,035	27 x 0,90		■	■	■
1 1/4 x 0,042	34 x 1,10		■		
1 1/2 x 0,050	41 x 1,30	■	■		
2 x 0,063	54 x 1,60	■	■		

Article group 643

CARBIDE TIPPED

ALU-LINE

- › Triple chip design
- › Carbide grade designed for high abrasion
- › Developed for high-speed nonferrous applications



Dimensions		Tooth		
inch	mm	1,4/2	2/3	3
3/4 x 0,035	20 x 0,90			■
1 x 0,035	27 x 0,90		■	■
1 1/4 x 0,042	34 x 1,10	■	■	
1 1/2 x 0,050	41 x 1,30	■		

Article group 660

CARBIDE TIPPED

SL-9

NEW

- › High performance chrome backer with enhanced carbide grade for maximum performance
- › Multi-chip geometry to provide faster cutting times
- › High positive rake angle to increase penetration



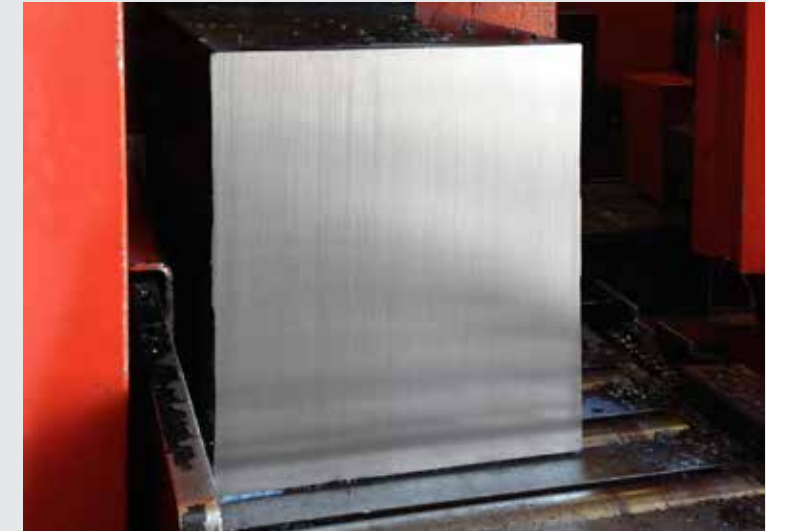
Dimensions		Tooth			
inch	mm	0,75/1,25	1/1,5	1,4/2	2/3
1 1/2 x 0,050	41 x 1,30			■	■
2 x 0,063	54 x 1,60		■	■	■
2 5/8 x 0,063	67 x 1,60	■	■	■	
3 x 0,063	80 x 1,60	■			

Article group 650

CARBIDE TIPPED

SILVER-LINE

- › Multi-chip design
- › Developed for fast band speeds
- › High positive rake angle to increase penetration



Dimensions		Tooth			
inch	mm	0,75/1,25	1/1,5	1,4/2	2/3
2 x 0,063	54 x 1,60		■	■	■
2 5/8 x 0,063	67 x 1,60	■	■	■	
3 x 0,063	80 x 1,60	■		■	

Article group 651

CARBIDE TIPPED

SILVER-LINE N

- › The expert for surface hardened workpieces
- › Special blade with negative rake angle
- › Multi chip geometry for highest cutting performance



Dimensions		Tooth	
inch	mm	2/3	3/4
1 x 0,035	27 x 0,90	■	■
1 1/4 x 0,042	34 x 1,10	■	■
1 1/2 x 0,050	41 x 1,30	■	



Article group 490

BI-METAL

PAL-CUT

- › The rustic for repair and dismantling of wooden pallets
- › Special tooth geometry guarantees constant performance while sawing through nails and staples



Dimensions		Tooth
inch	mm	
1 1/4 x 0,042	34 x 1,10	5/8

GRIT EDGE BAND SAW BLADES

› For cutting special abrasive and hard materials

Continuous Edge

Use Continuous edge for material less than 1/4" thick or for hard materials with a tendency to fracture, crack, or chip easily.



Dimensions		Coarse	Medium Coarse	Medium
inch	mm			
3/8 x 0,025	10 x 0,65			■
1/2 x 0,025	13 x 0,65		■	■
3/4 x 0,035	20 x 0,90			■
1 x 0,035	27 x 0,90	■	■	
1 1/4 x 0,035	34 x 1,10	■		

Gulleted Edge

Gulleted Edge recommended for use in Super Alloys, Fiberglass, Honeycomb, Foamed Glass, Hardened Steel, Graphite Composites, Cast Iron Pipe etc.



Dimensions		Coarse	Medium Coarse	Medium
inch	mm			
1/4 x 0,020	6 x 0,51		■	
3/8 x 0,025	10 x 0,65		■	■
1/2 x 0,025	13 x 0,65		■	■
3/4 x 0,032	20 x 0,80	■	■	
1 x 0,035	25 x 0,90	■	■	
1 1/4 x 0,042	34 x 1,10	■		

Select finer grit for finer finish; Use coarser grit for faster cutting. When the blade slows down in cut, turn blade inside out and continue cutting for up to an additional 25 % life.

Article group 100

CS-1

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

CARBON

Dimensions		Tooth			
inch	mm	3	4	6	10
1/4 x 0,025	6 x 0,65		■	■	■
3/8 x 0,025	10 x 0,65		■	■	
1/2 x 0,025	13 x 0,65		■	■	■
5/8 x 0,032	16 x 0,80	■	■	■	■
3/4 x 0,032	20 x 0,80	■			■
1 x 0,035	25 x 0,90	■			■



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 tension of the band saw blade.



Refractometer

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, tacho-meter, accessories and more.

- › Oil-free cooling lubricants
- › Reduction of disposal costs
- › No fire or explosion hazard
- › No oil mist (reduced health risks)
- › Grease-free surfaces

COMING
SOON



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