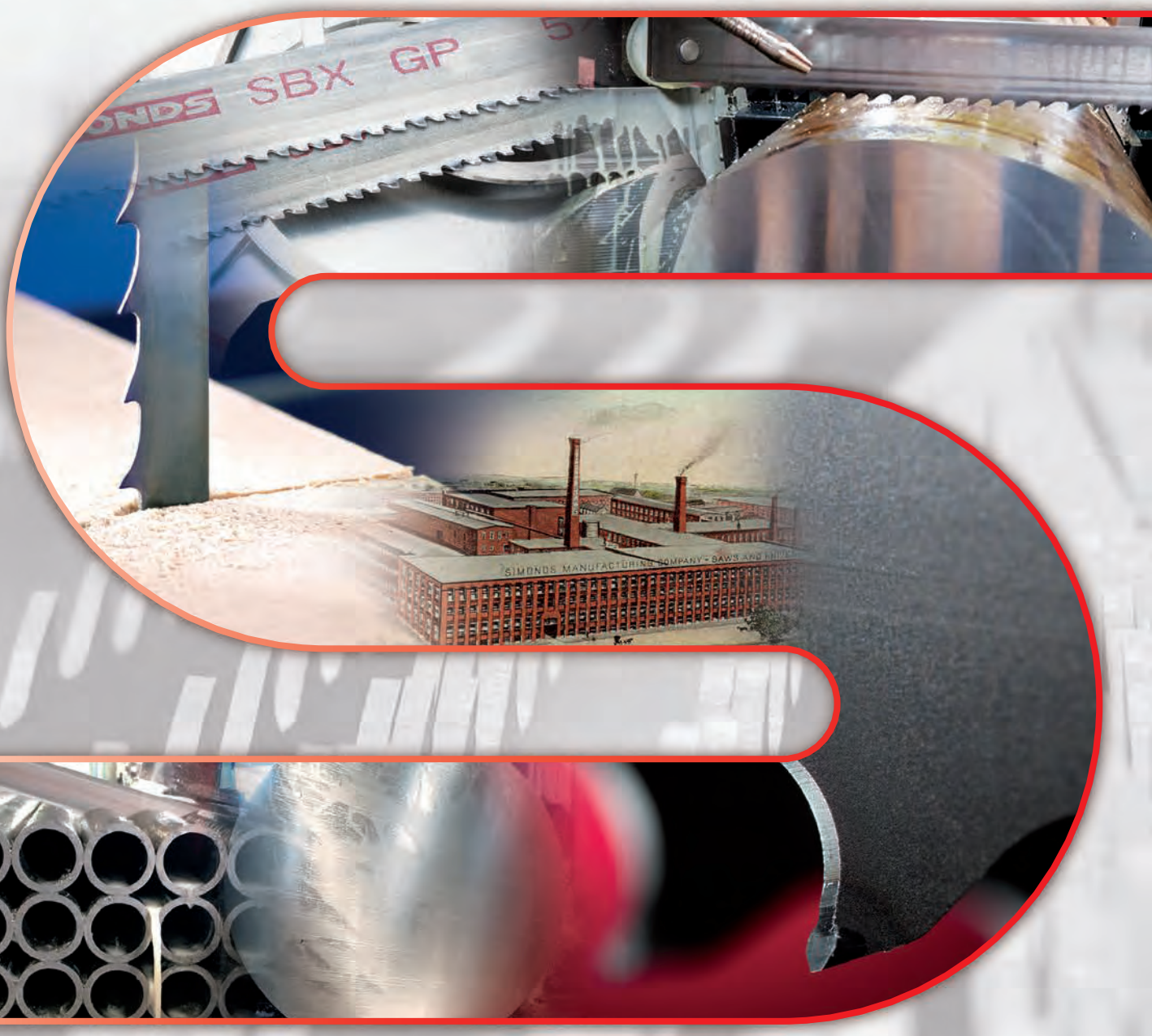
SIMONDS®

THE PROFESSIONALS' EDGE™

www.simondssaw.com



Band Saw Blades 2021

Welcome letter from **Simonds President**

Thank you for choosing Simonds.

It is our Mission to empower the skilled masters of the metal fabricating industry with cutting edge technologies and the science and knowledge of metal cutting so that you can make great products for your customers.

We've been providing industry all over the world with a better way to cut for over 180 years.

We are the teachers of the metal cutting industry and we are ready to help you be the best you can be.

Our blade products are produced to the highest standards by our 2 world class factories in Melsungen Germany and Louisville Kentucky USA.

Thanks again for choosing us.
We are excited to have you as a partner.

David Miles
President

Table of **Contents**

CARBIDE *BANDSAW BLADES*

BI-METAL *BANDSAW BLADES*

CARBON *BANDSAW BLADES*

SIMONDS®

1832

Abel Simonds opens a small scythe-making shop along the banks of the Nashua River in West Fitchburg – the company operates under the name J.T. Farwell & Company.

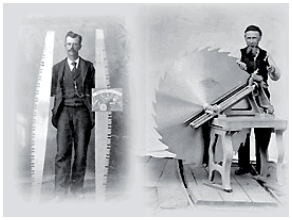
Our original products include cutting tools used around the farm.

1851

Abel Simonds buys out J. T. Farwell and renames the company A. Simonds & Son.


A. SIMONDS & SON,
Manufacturers of Scythes,
OF EVERY PATTERN AND STYLE OF FINISH;
Hay, Straw, Cane and Corn Knives, Corn Cutters,
ENGINE BARS AND PLATES,
BAG CUTTERS AND TRIMMING KNIVES,
Planing Knives, &c.
ALL KINDS OF JOB WORK DONE TO ORDER.
WEST FITCHBURG, MASS.

1878

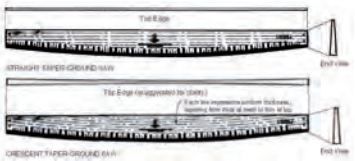


As the agricultural market base moves further west, the mower blade and reaper business is sold off in 1878.

Simonds begins manufacturing circular saw blades and wide bandsaws that same year.

1885

George Simonds is granted two patents for his development of inserted tooth saw teeth (bits & shanks) – the design is so effective that it is still in use today, basically unchanged, 125 years later.



1879

By 1879, Simonds develops an entirely new method of manufacturing saws - the Crescent Ground process - achieving results far superior to any saws made before.

This is the first of many Simonds product innovations.

1841

The young company is awarded its first patent in 1841, #2379, for scythe blades.


UNITED STATES PATENT OFFICE.
ABEL SIMONDS AND A. G. PAGE, OF FITCHBURG, MASSACHUSETTS.
MACHINE FOR TURNING OR BENDING THE HEELS OF SCYTHES.
Specification of Letters Patent No. 2,379, dated December 10, 1841.

1868

Having outgrown the initial premises, in 1868 the company is incorporated as Simonds Mfg. Co., and moves to a new building in downtown Fitchburg.

History of Simonds
1832-2020

1905

In 1905, Simonds enters the file business by purchasing the Fitchburg File Co. - the Red Tang file is born.

1915

By 1915, Simonds is the largest saw manufacturer in the world! Our third site, on North Street in downtown Fitchburg, is a sprawling complex.

During this time, Simonds builds a new steel mill in Lockport, NY, replacing the smaller, earlier mill in Chicago.

1900

To reduce our dependence on foreign steel, a steel mill is added in Chicago in 1900.

1893

Sales into the middle and western parts of the country are so strong, the company decides to build a second factory in Chicago, which opens in 1893.

1923

In 1923, our name is changed to the Simonds Saw & Steel Company, to better reflect our focus.

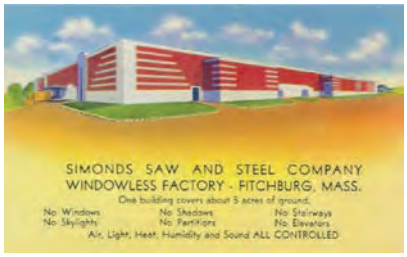
SIMONDS®

1931

A new Fitchburg plant is built in 1931 - it is the world's first windowless plant, featuring straight - line production all on one level.

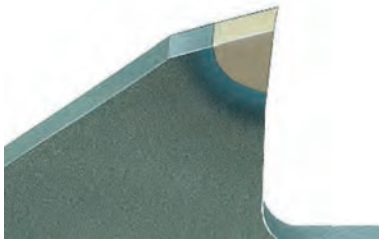
Raw material comes in the back, flows through the plant and leaves the front as finished product.

Even then, we saw the importance of a controlled manufacturing environment.



1963

Simonds develops the first carbide tipped bandsaw blade in 1963, based on our carbide tipped circular saw innovations.



1965

In 1965, after 133 years of family ownership, Simonds is sold to Wallace Murray – an industrial conglomerate based in New York City.

HELLER FILES
TRADE MARK
MADE IN USA
SINCE 1836

1955

In 1955, Simonds purchases Heller Bros. - combining our American Pattern range with Heller's Swiss Precision expertise.

The new, larger file company has stood the test of time, and is still a major player in the world market.

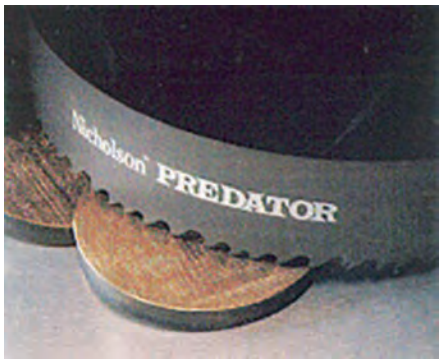
WESPA®
VALUE ADDED CUTTING

1992

In 1992, Simonds acquires Wespa Metallsagenfabrik GmbH, in Spangenberg, Germany, increasing our European market share.

2001

In January of 2001, the Nicholson bandsaw blade division of CooperTools is purchased, bringing together two storied saw- making traditions.



1999

In October of 1999, the hole saw business of Anderson Products is purchased, opening doors in the growing power tool accessory blade market.

2004

Simonds develops Sinewave technology.

SineWaVe
C·O·M·P·A·T·I·B·L·E

2014

Wespa Factory Expansion:
We increased our factory floor space by 70% to increase production capacity.

2019

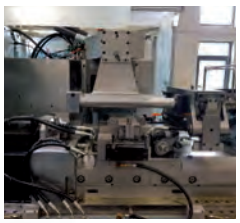
Louisville Kentucky Expansion and Carbide production:
We expanded our Louisville facility by 30% and installed Carbide manufacturing production.

2021

New corporate image.

SIMONDS

SIMONDS



2019

Wespa Grinding Technology:
In 2019 we installed new tooth grinding technology into the Melsungen facility.

History of Simonds

2007 - A Milestone

WARRANTED

The Simonds Saw

WORKS

FITCHBURG, MASSACHUSETTS

U.S.A.

UNEQUALED IN QUALITY AND UNIFORMITY

Since 1832

Simonds celebrates its

175th Anniversary

SIMONDS®

Band Applications Cross **Reference Chart**

Material Group	Materials	CARBIDE		BI-METAL		CARBON
1	Aluminum/Bronze	TCI22	Set Tooth	Eplc GP		CARBON
2	Cast Iron					
3	Carbon Steels			Eplc GP	SBX GP	
4	Structural Steels			SBX GP	SBX ONE™	
5	Low Alloy Steels			Eplc GP	SiClone®	
6	Medium Alloy Steels/ Cr Mo	QG7		Eplc GP	SiClone®	
7	High Alloy Steels	QG7		SiClone®	SiClone XP	
8	Tool and Die Steels	QG7		SiClone®	SiClone XP	
9	Stainless Steel	QG7		SiClone®	SiClone XP	
10	Nickel Based Alloys	Triple Chip		SiClone®	SiClone XP	
11	Titanium & Titanium Alloys	TCI22		SiClone®	SiClone XP	
12	High Nickel Alloys	Triple Chip			SiClone XP	
13	Exotic Metals	Triple Chip				
14	Induction Hardened Steels	CHM				
15	Carbon Fiber/ Graphite	Set Tooth				
16	Wood/Plastic			PalletBuster®	Eplc GP	CARBON

SIMONDS®

Tooth Pitch **Selector**

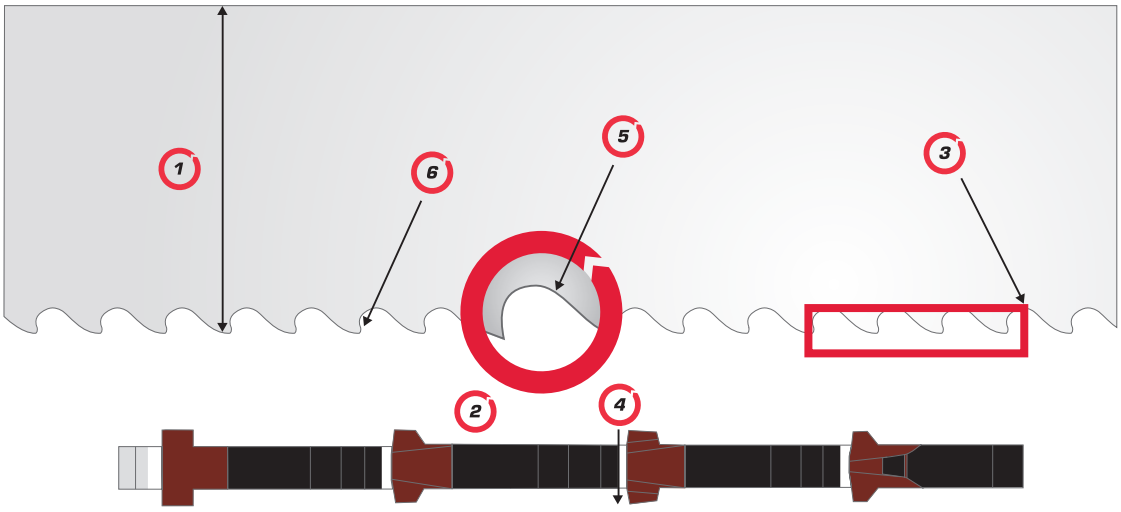
	Epic GP						SBX GP						SBX ONE™		
Tube wall	10 / 14	8 / 12	6 / 10	5 / 8	4 / 6	3 / 4	12 / 16	8 / 11	6 / 9	5 / 7	4 / 6	3 / 4	4 / 6	3 / 4	2 / 3
1 / 16″	*						*								
1 / 8″	*	*					*	*							
1 / 4″		*	*					*	*						
1 / 2″				*	*					*	*				
3 / 4″					*	*					*	*			
1″					*	*					*	*			
Beam width											4 / 6	3 / 4	4 / 6	3 / 4	2 / 3
< 6″											*	*	*		
6″ - 8″												*	*	*	
8″ - 12″														*	*
12″ +															*

Note: if cutting more than one piece, add wall thicknesses.

	Epic GP	SiClone	SiClone XP					CARBIDE					
Solids	5 / 8	4 / 6	3 / 4	2 / 3	1.4 / 2	1.1 / 1.4	0,7 / 0.9	2.5 / 3.5	2 / 3	1.9 / 2.1	1.4 / 1.8	1.0 / 1.2	0.9 / 1.1
1″	*	*						*					
2″		*	*					*					
4″			*	*				*	*				
6″			*	*					*				
8″				*					*				
10″				*	*				*	*			
12″				*	*					*	*		
16″					*					*	*		
20″					*	*					*		
24″					*	*					*	*	
30″						*	*					*	*
36″ +						*	*						*

SIMONDS®

Break-in & Blade Terminology



1 Width
The Dimension Of A Saw Blade As Measured From The Tip Of The Tooth To The Back Of The Band.

3 TPI (Teeth per inch)
The Number Of Teeth Per Inch As Measured From Gullet To Gullet.

5 Gullet
The Curved Area At The Base Of The Tooth.

2 Thickness
Measurement Of Side To Side.

4 Kerf
The Amount Of Material removed By The Cut Of The Blade.

6 Tooth Face
The Surface Of The Tooth On Which The Chip Is Formed.

Breaking In A New Blade

Why Is **Break-in Important?**

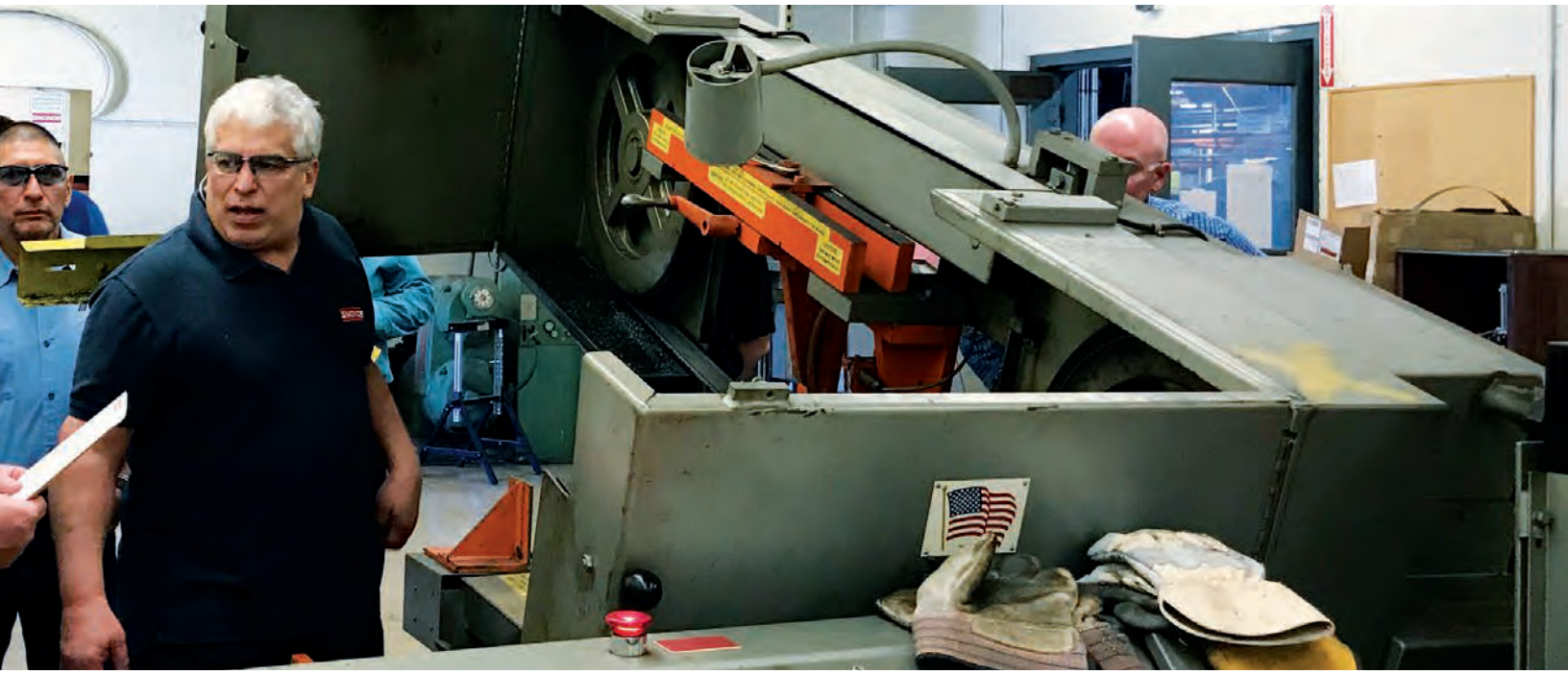
- New teeth are more fragile than honed teeth.
- Eliminates premature tooth edge fracturing.
- Break-in improves overall blade life and cut finish.

Reduce **Feed Rate**

- By 20% to 50% depending on material machinability. (Softer material requires a higher feed rate reduction).
- Small adjustments to blade speed or feed rate may be nessassary if noise or vibration occurs.
- Gradually increase feed rate until normal cutting rate is achieved.

For additional assistance please contact your local Simonds Representative

Sawing **Variables**



Blade **Selection**

- Material Type.
- Material Shape.
- Bi-Metal or Carbide.
- Tooth Pitch.
- Specialty Options.

Machine **Condition**

- **Wheels >**
  Check alignment, bearings, flanges.
- **Guides >**
  Should support the band without excessive pressure being applied.
- **Guide Arms >**
  Should be as close to the work as possible for support.
- **Brushes >**
  Align brush to bottom of Gullet.
- **Cutting Fluid >**
  Check Flow and Ratio.
  Ex. Between 10 - 15%

Machine **Setup**

- **Band Tension >**
  Between 25,000/40,000 psi
  *dependent upon width.
- **Break-In Procedure >**
  See page 12.
- **Cutting Parameters >**
  See App and Page 14-15.

SIMONDS®

Material	Type	Grade	Up to 1"		From 1"- 3"		From 3" - 6"		Over 6"	
			Blade Speed (SFPM)	Cutting Rate (SPIM)	Blade Speed (SFPM)	Cutting Rate (SPIM)	Blade Speed (SFPM)	Cutting Rate (SPIM)	Blade Speed (SFPM)	Cutting Rate (SPIM)
Aluminum Bronze	Aluminum Alloys	2024 - 5052 - 6061 - 7075	300	9-13	300	9-13	300	9-13	300	9-13
	Copper Alloys	Beryllium Copper	190	4-8	180	4-8	170	3-6	200	3-6
		CDA 220	225	7-10	200	6-10	200	6-10	200	5-9
		CDA 360	310	12-14	295	11-14	285	11-14	270	10-13
		Copper Nickle (30%)	215	6-10	215	6-10	200	5-9	190	4-8
	Bronze Alloys	AMPCO 18	210	6-10	190	6-10	180	6-10	170	6-10
		AMPCO 21	180	5-7	170	5-7	170	5-7	160	5-7
		AMPCO 25	130	3-5	120	3-5	110	3-5	100	2-4
		Aluminum Bronze	150	5-9	140	5-9	130	4-8	120	3-7
		Leaded Tin Bronze	330	11-16	310	11-16	295	11-16	275	8-12
		Manganese Bronze	220	8-12	210	8-12	200	7-11	180	9-11
		932	310	9-13	300	9-13	285	11-12	265	7-1
		937	260	9-13	240	9-13	230	6-10	220	7-11
	Brass Alloys	Cartridge/Red Brass (85%)	300	9-13	300	9-13	300	9-13	300	9-13
		Navel Brass	300	9-13	300	9-13	300	9-13	300	9-13
Cast Iron	Grey Cast Iron	A48 (Class 20)	225	4-8	190	4-8	180	4-8	170	4-8
		A48 (Class 40)	160	4-8	150	4-8	135	4-8	120	4-8
		A48 (Class 60)	150	4-8	135	4-8	120	4-8	100	4-8
	Ductile Cast Iron	A536 (60-40-18)	200	4-8	190	4-8	180	4-8	170	4-8
		A536 (120-90-02)	150	4-8	135	4-8	120	4-8	100	4-8
Carbon Steels	Low Carbon Steels	1008-1013	250	8-10	275	9-12	280	12-15	250	9-12
		1015-1018	250	8-10	275	9-12	250	12-15	230	9-12
		1048-1065	200	5-7	200	5-7	175	8-10	150	6-8
		1065-1095	200	4-6	200	5-7	150	6-8	120	6-8
	Free Machining Steels	1108-1111	300	9-11	330	12-14	275	13-15	220	11-14
		1112-1113	300	8-11	330	11-13	275	12-15	220	12-10
		1115-1132	300	7-10	330	10-13	275	13-16	220	11-14
		1137-1151	275	6-8	250	8-10	250	8-11	200	7-10
		1212-1213	300	8-10	320	11-13	300	13-15	255	11-14
Structural Steels	Structural Steels	A-36	275	11-15	250	11-15	250	11-15	225	9-13
Low Alloy Steels	Molybdenum Steels	4017-4024	300	3-5	270	4-7	250	6-8	220	5-8
		4032-4042	300	3-5	270	4-7	250	6-8	230	5-8
		4047-4068	250	3-5	220	4-6	200	5-7	180	3-5
	Nickel Moly Steels	4608-4621	250	3-5	220	5-6	220	6-7	200	5-6
		4640	220	3-5	200	4-6	200	5-7	170	4-6
		4812-4820	200	3-5	180	3-5	180	4-6	160	4-5
Medium Alloy Steels/Cr Mo	Manganese Steels	1320-1330	250	5-7	250	5-8	200	8-11	175	7-10
		1335-1345	250	5-7	225	5-7	200	7-9	175	5-8
	Chrome Moly Steels	4130-4140	280	4-6	250	5-8	250	8-10	220	6-8
		4142-4150	230	3-5	200	4-6	200	5-7	170	4-6
	Nickel Chrome Moly Steels	4317-4320	250	3-5	225	4-6	200	5-7	170	4-6
		4337-4340	230	3-4	200	4-5	200	4-6	170	4-5
		8615-8627	250	4-5	230	6-7	230	6-8	200	6-7
		8630-8645	250	3-5	230	4-6	230	5-7	180	4-6
		8647-8660	220	2-4	200	3-5	200	4-6	150	3-5
		8715-8750	250	3-5	220	4-6	220	5-7	180	4-6
		9310-9317	200	1-3	160	2-3	160	2-4	150	2-3
		9437-9445	250	4-5	230	4-5	230	5-6	180	4-5
		9747-9763	250	2-4	230	3-5	200	4-6	180	3-5
		9840-9850	240	4-5	220	4-6	200	5-7	180	4-6
	Chrome Steels	5045-5046	280	4-6	250	5-7	250	8-10	200	7-8
		5120-5135	280	4-6	250	6-7	240	7-8	180	5-8
		5140-5150	250	3-5	230	4-6	230	5-7	200	4-6
		50100-52100	180	2-4	160	3-5	150	4-6	100	3-5

Speed And Feed **Chart**

Material	Type	Grade	Up to 1"		From 1"- 3"		From 3" - 6"		Over 6"	
			Blade Speed (SFPM)	Cutting Rate (SPIM)	Blade Speed (SFPM)	Cutting Rate (SPIM)	Blade Speed (SFPM)	Cutting Rate (SPIM)	Blade Speed (SFPM)	Cutting Rate (SPIM)
Tool and Die Steels	Die Steels	A-2 D-2 - D-3 D-7 0-1 - 0-2 0-6	210 110 90 240 230	2-3 1-2 1 3-4 3-4	200 100 80 210 200	3-4 1-2 1 4-5 4-6	190 90 70 190 180	3-4 1-2 1 5-6 5-7	180 80 70 170 150	2-3 1-2 1 4-5 4-6
	High Speed Tool Steels	T-1 - T-2 T-4 - T-5 T-6 - T-8 T-15 M-1 M-2 - M3 M-4 - M-10	130 110 110 80 150 120 100	1-2 1-2 1-2 1 2-4 2-3 1-2	110 100 100 80 140 110 90	2-3 1-2 1-2 1 2-4 2-3 1-2	100 90 80 70 130 100 80	2-4 2-3 1-2 1 3-5 3-4 1-3	90 80 70 50 110 80 60	2-3 1-2 1-2 1 2-4 2-3 1-2
	Hot Work Steels	H-12 - H-13 - H-21 H-22 - H-24 - H-25	150 150	2-4 1-3	125 125	3-5 1-3	125 125	2-4 1-3	125 125	2-4 1-3
	Shock Resistant Steels	S-1 S-2 - S-5	220 170	3-5 2-4	180 150	3-5 2-4	165 120	3-5 2-4	150 100	2-4 1-3
Stainless Steel	Austenitic	201 - 202 - 302 - 304 303 - 303F 308 - 309 - 310 - 330 314 - 316 - 317 321 - 347	120 140 90 90 130	2-4 2-4 1 1 1-3	100 120 70 80 110	3-4 2-4 1 1 1-3	100 100 60 70 100	2-4 2-4 1 1 1-3	100 100 60 60 80	1-3 2-4 1 1 1-3
	Ferritic	430 430F	100 200	1-3 3-5	90 180	2-4 4-6	80 170	2-4 5-7	80 150	1-3 4-6
	Martensitic	410 - 420 - 420F 416 440A - 440B - 440C	150 200 120	1-3 3-5 1-3	130 180 100	1-3 4-6 1-3	120 170 90	2-4 5-7 2-4	100 150 70	1-3 4-6 1-3
	Precipitation Hardened	15-5PH - 17-4PH	100	2-3	90	2-4	80	3-4	80	2-3
Nickel Based Alloys	Nickel Alloys	Monel Monel R Monel K Monel KR	100 140 100 100	1-2 2-3 1 1-3	100 140 80 90	1-2 2-4 1 1-3	80 125 60 80	1-2 2-4 1 1-3	60 75 60 60	1 2-3 1 1-2
	Nickel Based Alloys	Inconel Inconel X Hastelloy A Hastelloy B Hastelloy C Rene 41 Waspalloy	110 90 120 110 100 90 90	1-2 1 1-2 0-1 0-1 1 1	100 80 100 100 90 90 90	1-3 1 1-2 1-2 0-1 1 1-2	80 70 85 90 70 90 90	1-3 1 2-3 1-2 0-1 1-2 1-2	80 60 75 75 60 90 90	1-2 1 1-2 0-1 0-1 1-2 1-2
Titanium & Titanium Alloys	Titanium	CP Titanium 6-Al-4V	100 100	0-1 0-1	90 80	0-1 0-1	80 70	0-1 0-1	70 60	0-1 0-1

Bandsaw Blade APP 1.0

- *Calculator* ***for Metric and Imperial.***
- *Calculator* ***for Solid, Tube and Beams.***
- ***International*** *Steel Grade.*
- ***Tooth Pitch*** *Recommendation.*
- ***Sinewave®*** *Calculator.*

Compatibility: iOS, Android

Download on the App Store

ANDROID APP ON Google play

THE PROFESSIONALS' EDGE™

www.simondssaw.com

How does SineWave® Work?

SineWave® technology from Simonds Saw provides an aggressive broaching action in the cut, enhancing cutting ability, reducing work time and increasing blade life. It incorporates a series of ramps on the back edge of bandsaw blades, which allows bandsaw machines to exert more force into a cut without increasing machine pressure.

The rocking motion of SineWave ensures less tooth contact within the work piece, which increases penetration for faster cutting.

Ramp depth and length can be engineered to a customer's specific cutting applications, operating parameters and production requirements to optimize performance across a wide variety of materials.

Special Applications **Technology**

SineWave® technology provides ramp customization capabilities to optimize the cutting performance of specific alloy cross sections.

SineWave® can be supplied on all bi-metal and all carbide tipped bandsaw blades from 1" to 3-1/8".

SineWave® is supplied only in welded-to-length bands.

How Do I Order SineWave?

- *Determine maximum cross-section dimension of all materials cut.*
- *Determine your required aggressiveness of the cutting action - light, moderate or aggressive.*
- *Call your Simonds sales person for applications assistance.*

Application specific, contact your Simonds Representative.

SineWave Advantages

- *Cuts work hardened materials 30-40% faster – keep.*
- *Increased Blade Life.*
- *A more consistent cutting rate.*
- *Ideal for use on difficult to cut alloys.*

SIMONDS®

THE PROFESSIONALS' EDGE™

www.simondssaw.com

CARBIDE
BANDSAW BLADES

SIMONDS®

Triple Chip

ADVANTAGES

- *Triple Chip geometry provides a smooth surface finish.*
- *Positive rake angle allows faster penetration for high production cutting.*

APPLICATIONS GROUPS

- 10 *Nickel Based Alloys.*
- 12 *High Nickel Alloys.*
- 13 *Exotic Metals.*

SineWaVe COMPATIBLE

CARBIDE CUTTING *ITEM CLASS 55*

Width x Thickness		Teeth per inch				
inch	mm	2.5 / 3.5	2 / 3	1.9 / 2.1	1.4 / 1.8	0.9 / 1.1
1" x 035	27 x 0.90	55801105				
1 1/4" x 042	34 x 1.10	55801208		55801508		
1 1/2" x 050	41 x 1.30	55803458	55803700	55803308	55803408	
2" x 063	54 x 1.60	55804808	55804708	55804508	55804008	
2 5/8" x 063	67 x 1.60				55805808	55805308
3 1/8" x 063	80 x 1.60					55808008

Solids	2.5 / 3.5	2 / 3	1.9 / 2.1	1.4 / 1.8	0.9 / 1.1
1"	*				
2"	*				
4"	*	*			
6"		*			
8"		*			
10"		*	*		
12"			*	*	
16"			*	*	
20"				*	
24"				*	*
30"					*
36"+					*

SAFETY **GLASSES/GLOVES**

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QG7

ADVANTAGES

- *Multi-chip design provides higher penetration for faster cutting rates.*
- *New gullet design provides for better chip flow.*

APPLICATIONS GROUPS

6 ***Medium Alloy Steels/Cr Mo.***

7 ***High Alloy Steels.***

8 ***Tool and Die Steels.***

9 ***Stainless Steel.***

SineWaVe COMPATIBLE

CARBIDE CUTTING *ITEM CLASS 55*

Width x Thickness		Teeth per inch			
inch	mm	2 / 3	1.9 / 2.1	1.4 / 1.8	0.9 / 1.1
1 1/2" x 050	41 x 1.30	55741400	55741500		
2" x 063	54 x 1.60	55754400	55754500	55754600	
2 5/8" x 063	67 x 1.60		55767500	55767600	55767800
3 1/8" x 063	80 x 1.60				55780800

Solids	2 / 3	1.9 / 2.1	1.4 / 1.8	1.0 / 1.2	0.9 / 1.1
1"	*				
2"	*				
4"	*				
6"	*				
8"	*				
10"	*	*			
12"		*	*		
16"		*	*		
20"			*		
24"			*	*	
30"				*	*
36"+					*

SAFETY **GLASSES/GLOVES**

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TCi22

ADVANTAGES

- *New carbide technology to resist abrasive wear.*
- *Multi-chip design provides higher penetration for faster cutting rates.*

APPLICATIONS GROUPS

1 ***Aluminum/Bronze.***

11 ***Titanium & Titanium Alloys.***

SineWaVe COMPATIBLE

CARBIDE CUTTING *ITEM CLASS 55*

Width x Thickness		Teeth per inch			
inch	mm	2 / 3	1.9 / 2.1	1.4 / 2.0	1.0 / 1.2
1 1/2" x 050	41 x 1.30	55241400	55241500	55241600	55241700
2" x 063	54 x 1.60	55254400	55254500	55254600	55254700
2 5/8" x 063	67 x 1.60			55267600	55267700
3 1/8" x 063	80 x 1.60				55280700

Solids	2 / 3	1.9 / 2.1	1.4 / 2.0	1.0 / 1.2
1"				
2"				
4"	*			
6"	*			
8"	*			
10"	*	*		
12"		*	*	
16"		*	*	
20"			*	
24"			*	*
30"				*
36"+				

SAFETY **GLASSES/GLOVES**

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CHM

ADVANTAGES

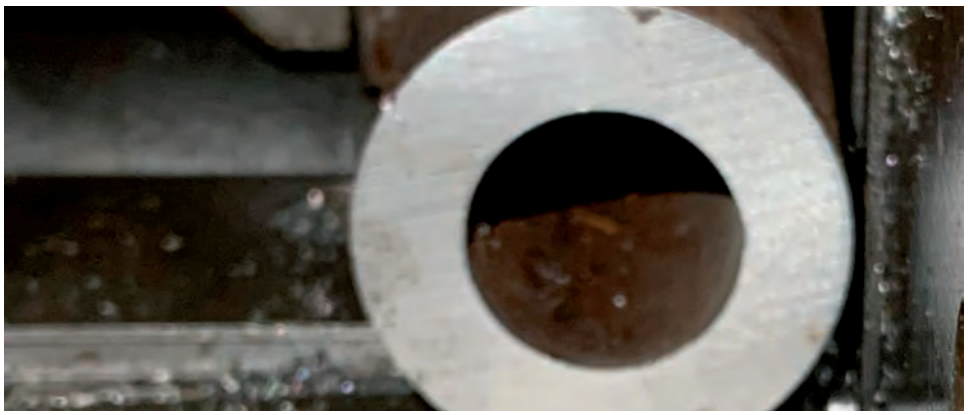
- *Triple Chip geometry provides a smooth surface finish.*
- *Tooth Geometry allows for less vibration on induction hardened materials.*

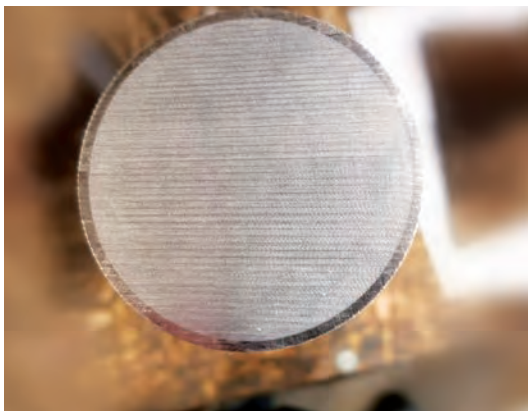
APPLICATIONS GROUPS

14 ***Induction Hardened Steels.***

CARBIDE CUTTING *ITEM CLASS 55*

Width x Thickness		Teeth per inch
inch	mm	2.5 / 3.5
1 1/2" x 050	41 x 1.30	55803608
2" x 063	54 x 1.60	55804908
2 5/8" x 063	67 x 1.60	55805908





SAFETY
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Set Tooth

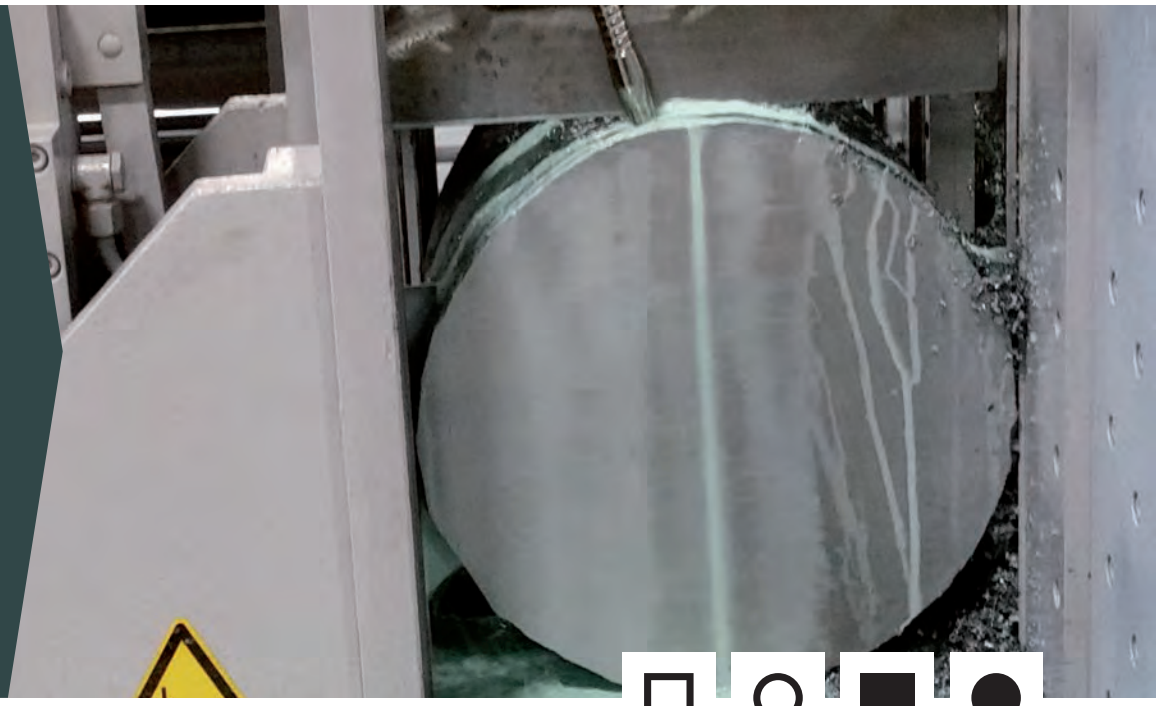
ADVANTAGES

- *Three tooth pattern with raker ensures straighter cuts.*
- *Designed for both manual and automatic bandsaws.*

APPLICATIONS GROUPS

1 ***Aluminum/Bronze.***

15 ***Carbon Fiber/Graphite.***



CARBIDE CUTTING *ITEM CLASS 55*

Width x Thickness		Teeth per inch
inch	mm	3
3/4" x 035	20 x 0.90	55400100
1" x 035	27 x 0.90	55400600
1 1/4" x 042	34 x 1.10	55500600

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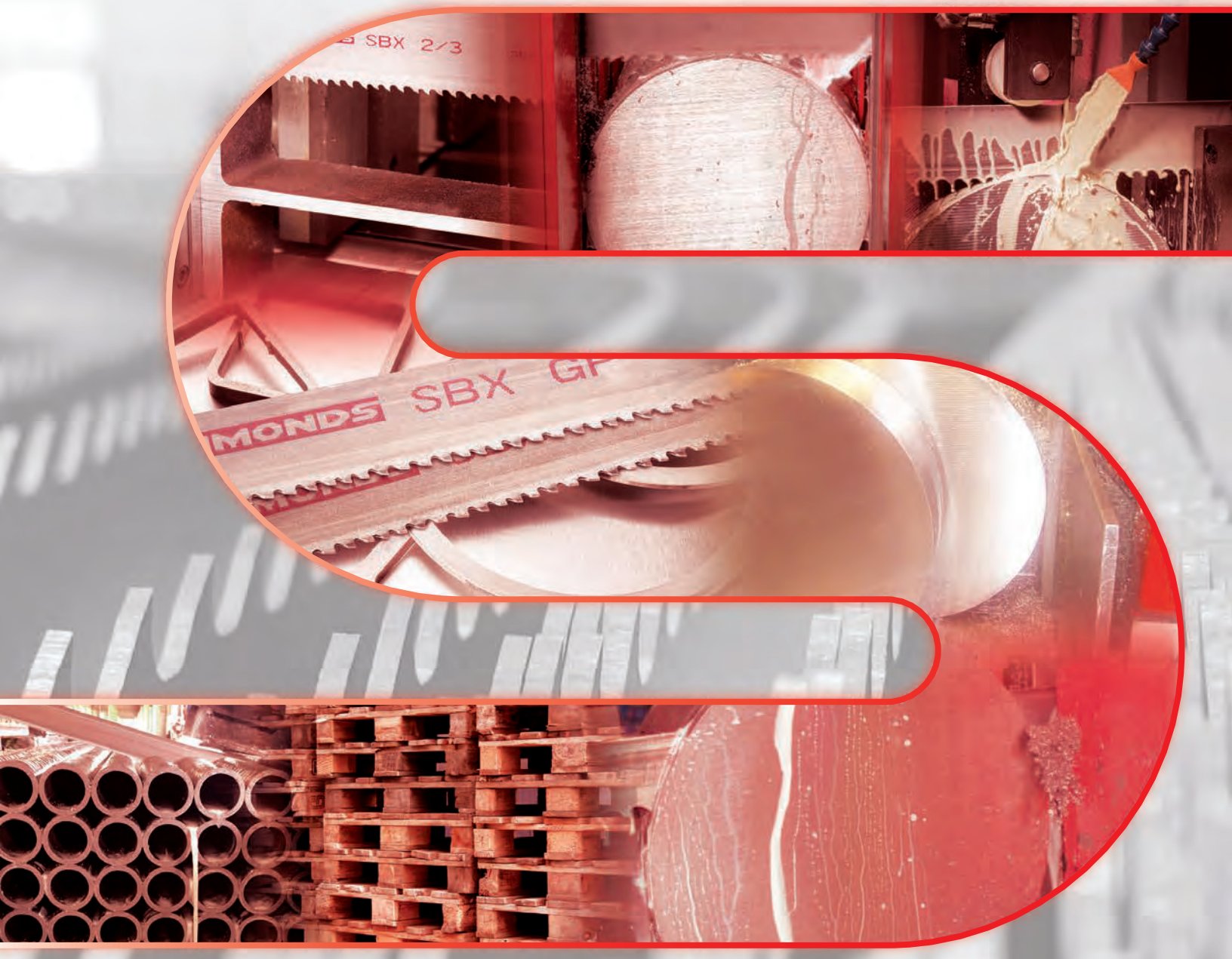


BI-METAL
BANDSAW BLADES

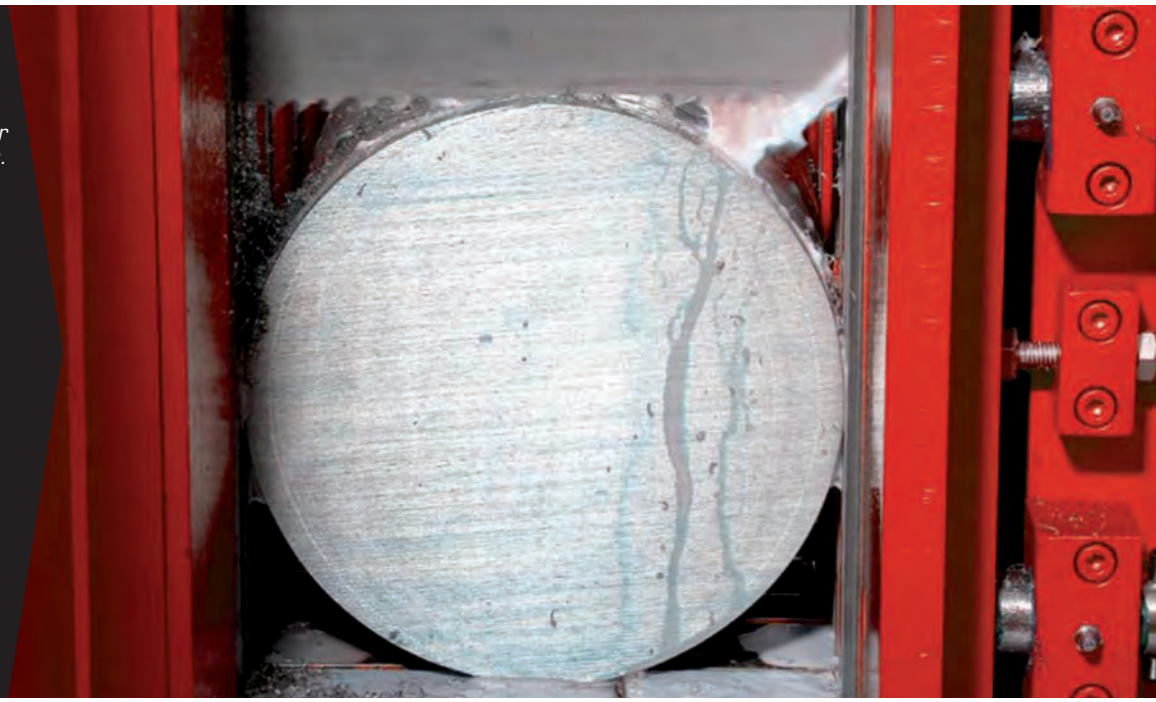
SIMONDS®

ADVANTAGES

- *M42 high speed edge improves wear resistance in all-purpose applications.*
- *Conventional tooth geometry.*

APPLICATIONS GROUPS

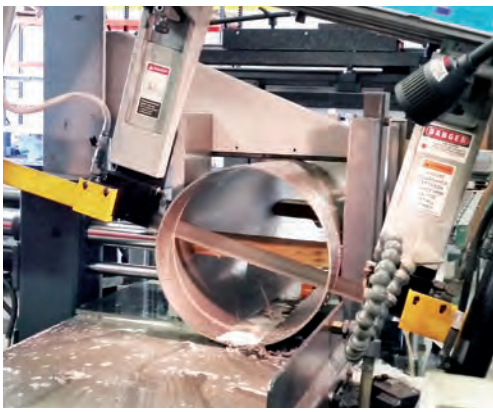
1. ***Aluminum/Bronze.***
3. ***Carbon Steels.***
5. ***Low Alloy Steels.***
6. ***Medium Alloy Steels/Cr Mo.***



SineWaVe COMPATIBLE

Width x Thickness		Teeth per inch							
inch	mm	14	10 / 14	10	8 / 12	6 / 10	6	4	
1/4" x 035	6 x 0.90			64060010			64060006		
3/8" x 035	10 x 0.90			64100010			64100006	64100004	
1/2" x 025	13 x 0.65	62130014	62131014	62130010					
1/2" x 035	13 x 0.90		64131014		64130812	64130610			
3/4" x 035	20 x 0.90		64201014			64200610	64200006		
1" x 035	27 x 0.90		64271014		64270812	64270610		64270004	

Tube wall	10 / 14	8 / 12	6 / 10	5 / 8	4 / 6	3 / 4
1/16"	*					
1/8"	*	*				
1/4"		*	*			
1/2"				*	*	
3/4"					*	*
1"					*	*



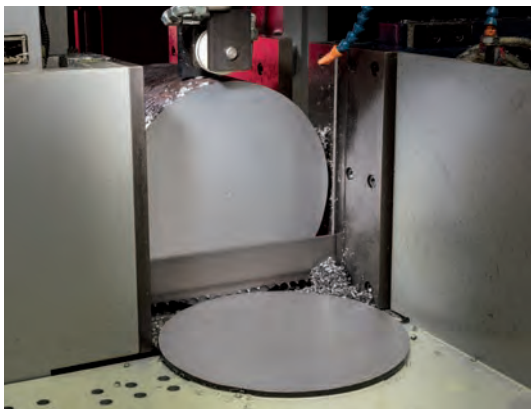
SAFETY
GLASSES/GLOVES

Epic® GP

STANDARD BI-METAL *ITEM CLASS 64*

Width x Thickness		Teeth per inch							
inch	mm	5 / 8	4 / 6	3 / 4	2 / 3	1.4 / 2	1.1 / 1.4	0.75 / 1.25	1.25
1" x 035	27 x 0.90	64270508	64270406	64270304	64270203				
1 1/4" x 042	34 x 1.10	64340508	64340406	64340304	64340203	64341402			64340125
1 1/2" x 050	41 x 1.30	64410508	64410406	64410304	64410203	64411402			64410125
2" x 063	54 x 1.60		64540406	64540304	64540203	64541402	64541114	64547512	64540125
2 5/8" x 063	67 x 1.60		64670406	64670304	64670203	64671402	64671114	64677512	
3 1/8" x 063	80 x 1.60					64801402	64801114	64807512	

Solids	5 / 8	4 / 6	3 / 4	2 / 3	1.4 / 2	1.1 / 1.4	0.75 / 1.25
1"	*	*					
2"		*	*				
4"			*	*			
6"			*	*			
8"				*			
10"				*	*		
12"				*	*		
16"					*		
20"					*	*	
24"					*	*	
30"						*	*
36"+						*	*



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SIMONDS®

SBXGP

ADVANTAGES

- *Robust tooth design improves resistance to shock for all-purpose applications.*
- *Wide range of tooth pitches for multiple applications.*

APPLICATIONS GROUPS

3 ***Carbon Steels.***

4 ***Structural Steels.***

STANDARD BI-METAL *ITEM CLASS 68*

Width x Thickness		Teeth per inch					
inch	mm	12/16	8/11	6/9	5/7	4/6	3/4
3/4" x 035	20 x 0.90	68201216	68200811	68200609	68200507	68200406	
1" x 035	27 x 0.90	68271216	68270811	68270609	68270507	68270406	68270304
1 1/4" x 042	34 x 1.10	68341216	68340811	68340609	68340507	68340406	68340304

Tube wall	8/11	6/9	5/7	4/6	3/4
1/16"					
1/8"	*				
1/4"	*	*			
1/2"			*	*	
3/4"				*	*
1"				*	*

Beam width	8/11	6/9	5/7	4/6	3/4
<6"				*	*
6"- 8"					*
8"- 12"					
12"+					

SAFETY
GLASSES/GLOVES

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SIMONDS®

SBXONE™

ADVANTAGES

- *Robust tooth design improves resistance to shock in beam cutting.*
- *Extra heavy set prevents pinching.*

APPLICATIONS GROUPS

4 ***Structural Steels.***

H I

STANDARD BI-METAL *ITEM CLASS 68*

Width x Thickness		Teeth per inch			
inch	mm	**4/6**	**3/4**	**2/3**	**1.4/2**
1-1/2" x 050	41 x 1.30	68410406	68410304	68410203	
2" x 063	54 x 1.60	68540406	68540304	68540203	
2 5/8" x 063	67 x 1.60		68670304	68670203	
3 1/8" x 063	80 x 1.60		68800304	68800203	68801402

Beam width	**4/6**	**3/4**	**2/3**	**1.4/2**
<6"	*			
6"- 8"	*	*		
8"- 12"		*	*	
12"+			*	*

SAFETY
GLASSES/GLOVES

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SIMONDS®

SiClone®

ADVANTAGES

- *Special tooth geometry to increase penetration and reduce work hardening.*
- *Variable set to increase productivity.*

APPLICATIONS GROUPS

7. ***High Alloy Steels.***
8. ***Tool and Die Steels.***
9. ***Stainless Steel.***
10. ***Nickel Based Alloys.***
11. ***Titanium & Titanium Alloys.***

SineWaVe COMPATIBLE

STANDARD BI-METAL *ITEM CLASS 63*

Width x Thickness		Teeth per inch					
inch	mm	**4/6**	**3/4**	**2/3**	**1.4/2**	**1.1/1.4**	**0.7/9**
1" x 035	27 x 0.90	63544327	63543757	63542007			
1 1/4" x 042	34 x 1.10	63550107	63549607	63549007			
1 1/2" x 050	41 x 1.30		63552607	63552007	63551107		
2" x 063	54 x 1.60		63556507	63556007	63555007	63554107	
2 5/8" x 063	67 x 1.60				63558007	63557107	63568007
3 1/8" x 063	80 x 1.60					63559107	63569007

Solids	**4/6**	**3/4**	**2/3**	**1.4/2**	**1.1/1.4**	**0,7/9**
1"	*					
2"	*	*				
4"		*	*			
6"		*	*			
8"			*			
10"			*	*		
12"			*	*		
16"				*		
20"				*	*	
24"				*	*	
30"					*	*
36"+					*	*

SAFETY **GLASSES/GLOVES**

THE PROFESSIONALS' EDGE™

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SIMONDS®

RS PRO

ADVANTAGES

- *Primary woodcutting applications.*
- *Portable sawmills.*
- *Specialize woodcutting (dimensional wood).*
- *Pallet recycling | wooden boxes and creates.*
- *Wood molding industry.*

APPLICATIONS GROUPS

16 ***Wood/Plastic.***

Thickness	Teeth per inch				
mm	2	1	1.14	1.1 / 1.4	1.25
27 x 0.90	13270002		13270114		
34 x 1.10			13340114		13340125
41 x 1.30					13410125
54 x 1.30		13540001		13541114	13540125

***RS PRO** is engineered to provide faster cutting along with longer blade life.*

Our bi-metal tooth is designed to penetrate even the hardest woods. Our gullets are designed to increase chip clearance.

For better performance and more continuous hours of cutting try our new the new RS PRO from Simonds Saw.

SAFETY
GLASSES/GLOVES

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SIMONDS®

PalletBuster®

ADVANTAGES

- *Robust tooth design for increased shock resistance.*
- *Flexible backer.*

APPLICATIONS GROUPS

16 ***Wood/Plastic.***

STANDARD BI-METAL *ITEM CLASS 64*

Width x Thickness			Teeth per inch
inch	mm		5/8
1 1/4" x 042	34 x 1.10	***Coils***	64371527
1 1/4" x 042	34 x 1.10	***Bulk Packs***	643715N7

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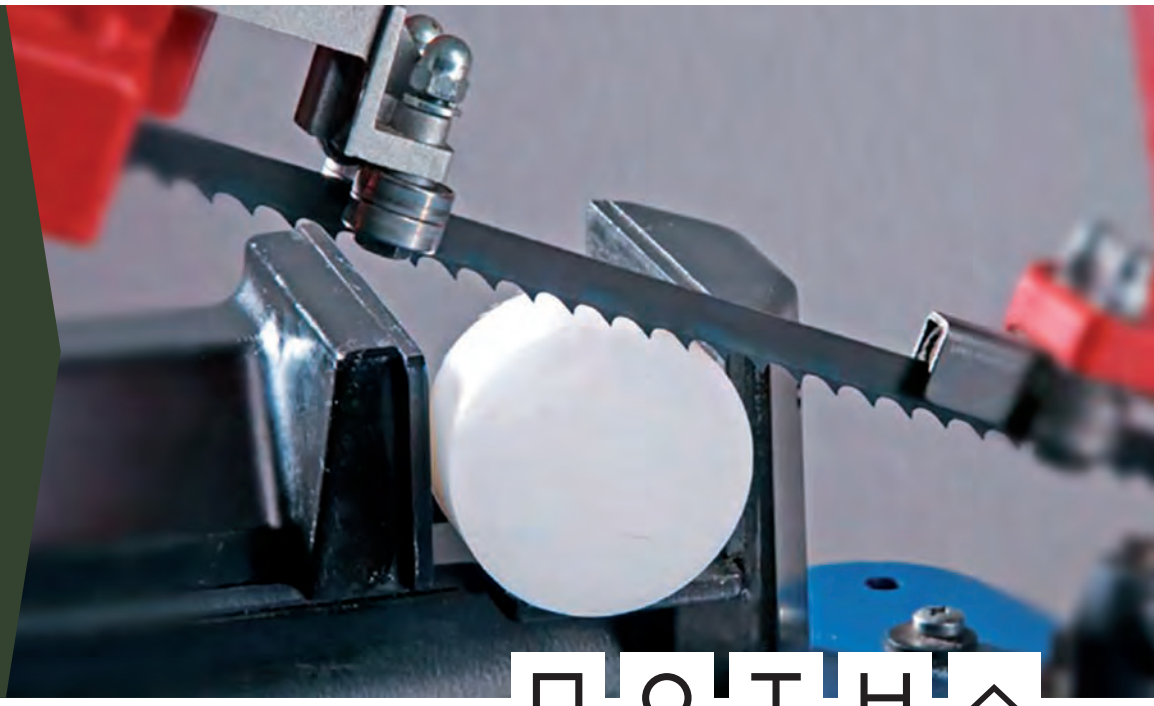
CARBON
BANDSAW BLADES

SIMONDS®

Flex Back



ADVANTAGES

- *Hardened tooth tip prolongs cutting edge life.*
- *Flexible back extends the flex life of the blade.*
- *Raker set provides straighter cuts.*

APPLICATIONS GROUPS

1 ***Aluminum/Bronze.***

16 ***Wood/Plastic.***

CARBON CUTTING *ITEM CLASS 37*

Width x Thickness		Teeth per inch							
inch	mm	24	18	14	10	8	6	6 sab	4 sab
1/4" x 025	6 x 0.60		37390000	37388000	37382000			37379000	37373000
3/8" x 025	10 x 0.60		37425000	37421000	37418000			37412000	37409000
1/2" x 025	13 x 0.60	37469000	37466000	37460000	37454000		37451000	37448000	37445000
3/4" x 032	20 x 0.80			37529000	37517000	37511000	37508000	37505000	
1" x 035	27 x 0.90			37571000	37565000	37562000	37559000		37556000

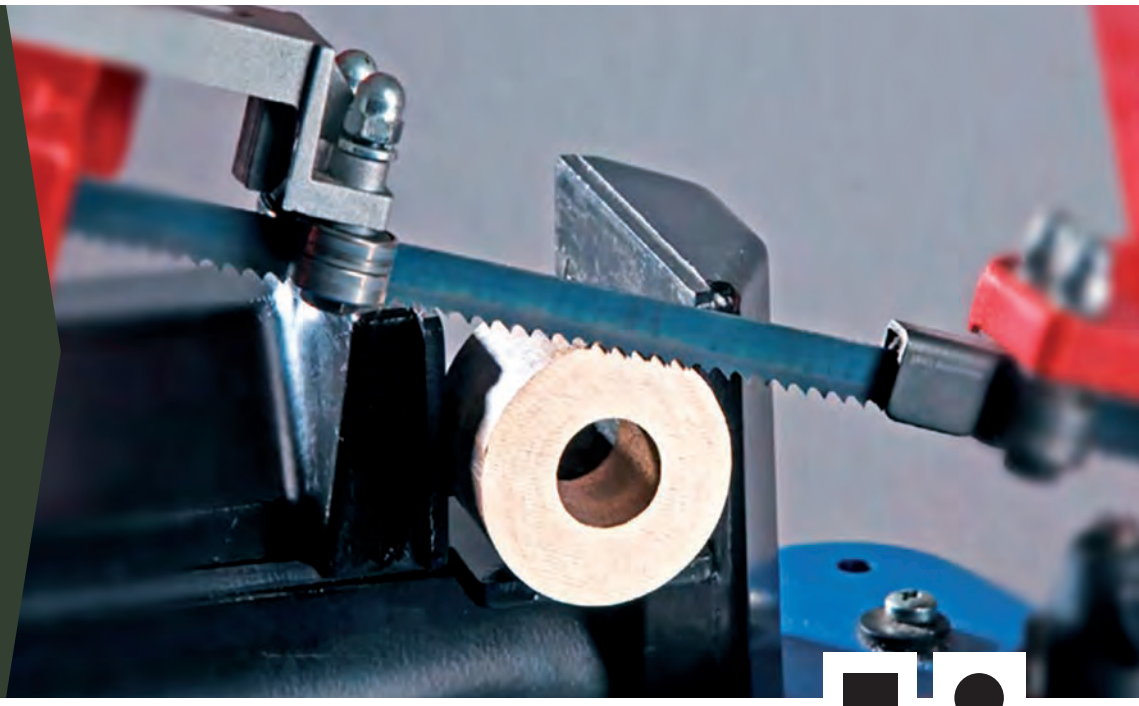
WoodMax

Width x Thickness		Teeth per inch	
inch	mm	4 ETS	3 EHS
3/8" x 032	13 x 0.80	37621600	37621200
1/2" x 032	13 x 0.80	37623500	37622300

SAFETY
GLASSES/GLOVES

SIMONDS®

HardBack



ADVANTAGES

- *Spring-tempered backer increases beam strength for straighter, faster cuts and longer life.*
- *Hardened tooth tip improves wear resistance.*

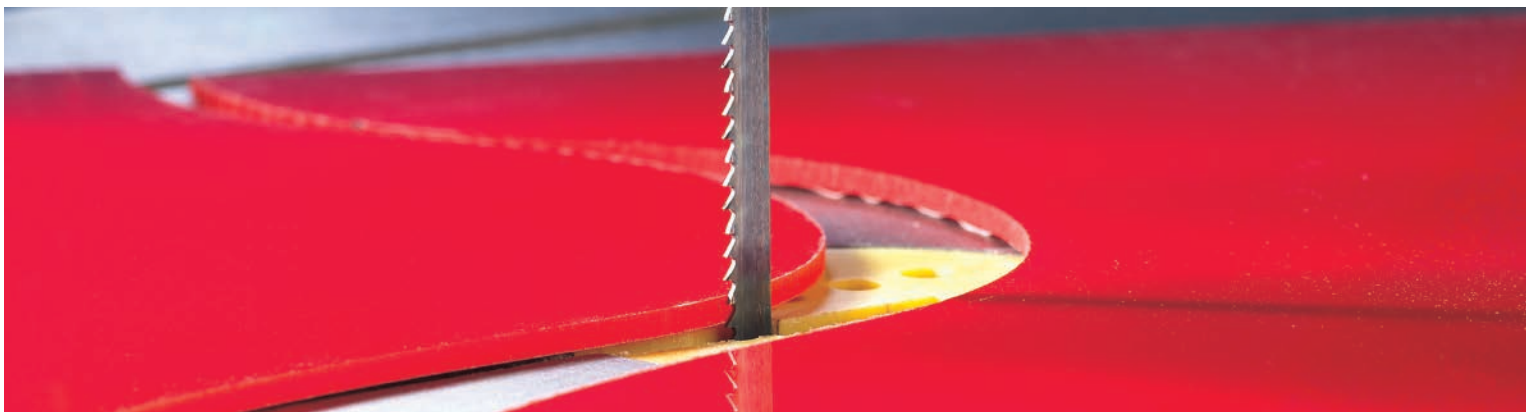
APPLICATIONS GROUPS

1 ***Aluminum/Bronze.***

16 ***Wood/Plastic.***

CARBON CUTTING *ITEM CLASS 40*

Width x Thickness		Teeth per inch			
inch	mm	10	8	4	3
1/2" x 025	13 x 0.65	40818000	40817500		
3/4" x 032	20 x 0.90	40827300			40825800
1" x 035	27 x 0.90	40832400		40831700	40831500



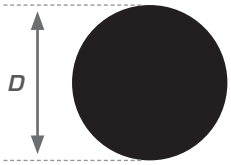
SAFETY
GLASSES/GLOVES

Area **Calculator**

SQUARE

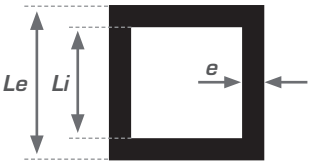
Area = L^2

ROUND



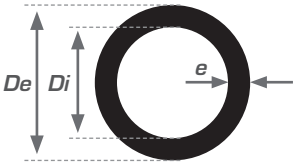
Area = D^2 x 0.7854

SQUARE TUBE



Area == Le^2 - Li^2

ROUND TUBE



Area = (De^2 - Di^2) x 0,7854

Diameter Inches	Area Square Inches
1	0.8
2	3.1
3	7.1
4	12.6
5	19.6
6	28.3
7	38.5
8	50.3
9	63.6
10	78.5

Diameter Inches	Area Square Inches
11	95.0
12	113.1
13	132.7
14	153.9
15	176.7
16	201.1
17	227.0
18	254.5
19	283.5
20	314.2

NOTES

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Other SIMONDS Products

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