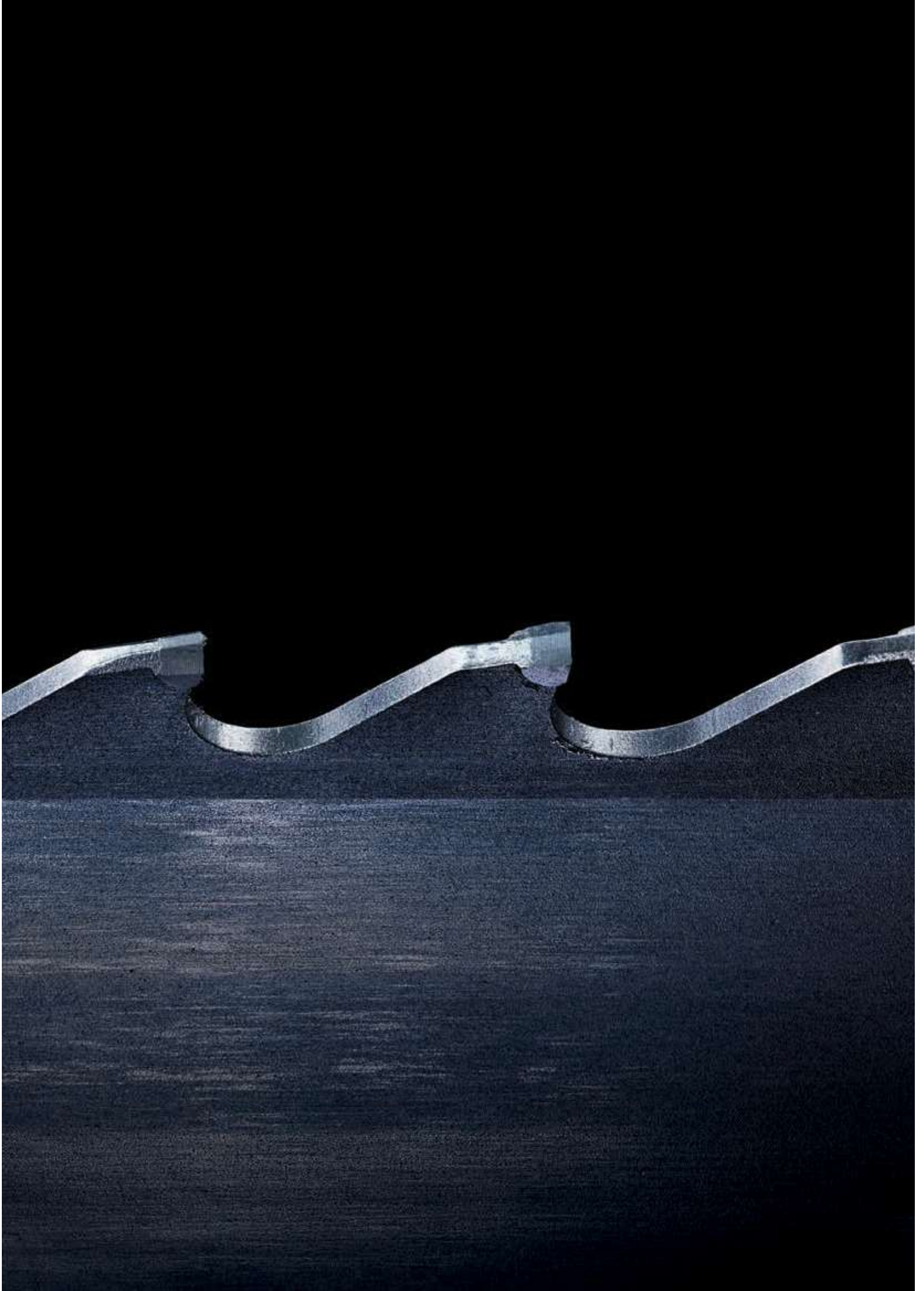




BANDSAW
BLADES





The following information needs to be specified when a band saw blade is ordered:

PRODUCT NAME LENGTH X WIDTH X THICKNESS TEETH PER INCH

For Example: **ARMOR® CT BLACK** 6800mm x 34mm x 1.07mm x 2.5/3.4

STEP #1: ANALYZE THE SAWING APPLICATION

Machine: Determine the band size for the machine
(Length x Width x Thickness).

Material: Determine the following for the material to be cut:

- Material Type/Grade
- Size
- Shape

Operation: Is this a production, or general purpose sawing operation?

STEP #2: DETERMINE HIGH PERFORMANCE VS. SPECIAL APPLICATION

Use the charts below.

- Locate the type of material to be cut in the top row.
- Read down the chart to find which blade is recommended.

STEP #3: DETERMINE THE PROPER NUMBER OF TEETH PER INCH (TPI)

Use the Carbide Tooth Selection chart on page 15.

If having difficulty choosing between two pitches, the coarser of the two will generally give better performance.

When compromise is necessary, choose the correct TPI first. A general rule for bundles: Determine the correct TPI for the largest continuous cross section.

STEP #4: CONFIRM THE DESIRED PRODUCT IS AVAILABLE

- Go to the product page for the product you have selected.
- Confirm that product is available in the correct blade width and TPI.

HIGH PERFORMANCE									
ALUMINUM/ NON-FERROUS	CARBON STEELS	STRUCTURAL STEELS	ALLOY STEELS	BEARING STEELS	MOLD STEELS	STAINLESS STEELS	TOOL STEELS	TITANIUM ALLOYS	NICKEL-BASED ALLOYS (INCONEL®)
EASY ←		MACHINABILITY						→ DIFFICULT	
ARMOR® CT BLACK		ARMOR® CT BLACK Extreme Cutting Rates							
LENOX MAX CT™						LENOX MAX CT Maximum Performance on Aerospace Alloys			
TRI-TECH CT™		TRI-TECH CT Set Style Blade for Difficult to Cut Metals							
VERSA PRO™		VERSA PRO Versatile Carbide Tipped Blade for General Purpose Cutting							
TRI-MASTER®		TRI-MASTER Versatile Carbide Tipped Blade							

SPECIAL APPLICATION				
WOOD	COMPOSITES	ALUMINUM (INCLUDING ALUM. CASTINGS)	CASE HARDENED MATERIALS (INCLUDING IHCP CYLINDER SHAFTS)	OTHER (COMPOSITES, TIRES, ETC.)
EASY ←		MACHINABILITY → DIFFICULT		
		LENOX <i>HRc</i> Carbide Tipped Blade for Case and Through-Hardened Materials		
CAST MASTER™ CAST MASTER™ XL / XLE		Superior Performance When Sawing Castings		
		TRI-MASTER		
MASTER-GRIT®		MASTER-GRIT Carbide Grit Edge Blade for Cutting Abrasive and Hardened Materials		

Note: We can provide solutions for many cutting applications not listed here.
Please contact LENOX Technical Support or go to sawcalc.com for more information.

VISIT SAWCALC.COM
FOR CUSTOMIZED BAND SAW RECOMMENDATIONS

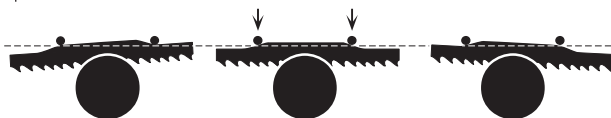
	WIDTH OR DIAMETER OF CUT													
INCHES MM	1 25	2 50	3 75	4 100	5 125	6 150	7 175	8 200	10 250	11 275	14 350	16 400	18 450	20+ 500+
											0.6/0.8			
									0.9/1.1					
									1.0/1.4					
						1.4/2.0								
			2/3											
		3/4												

WIDTH OR DIAMETER OF CUT														
INCHES	1	2	3	4	5	6	7	8	10	11	14	16	18	20+
MM	25	50	75	100	125	150	175	200	250	275	350	400	450	500+
									0.9/1.1					
							1.4/1.6							
2.5/3.4					1.8/2.0									

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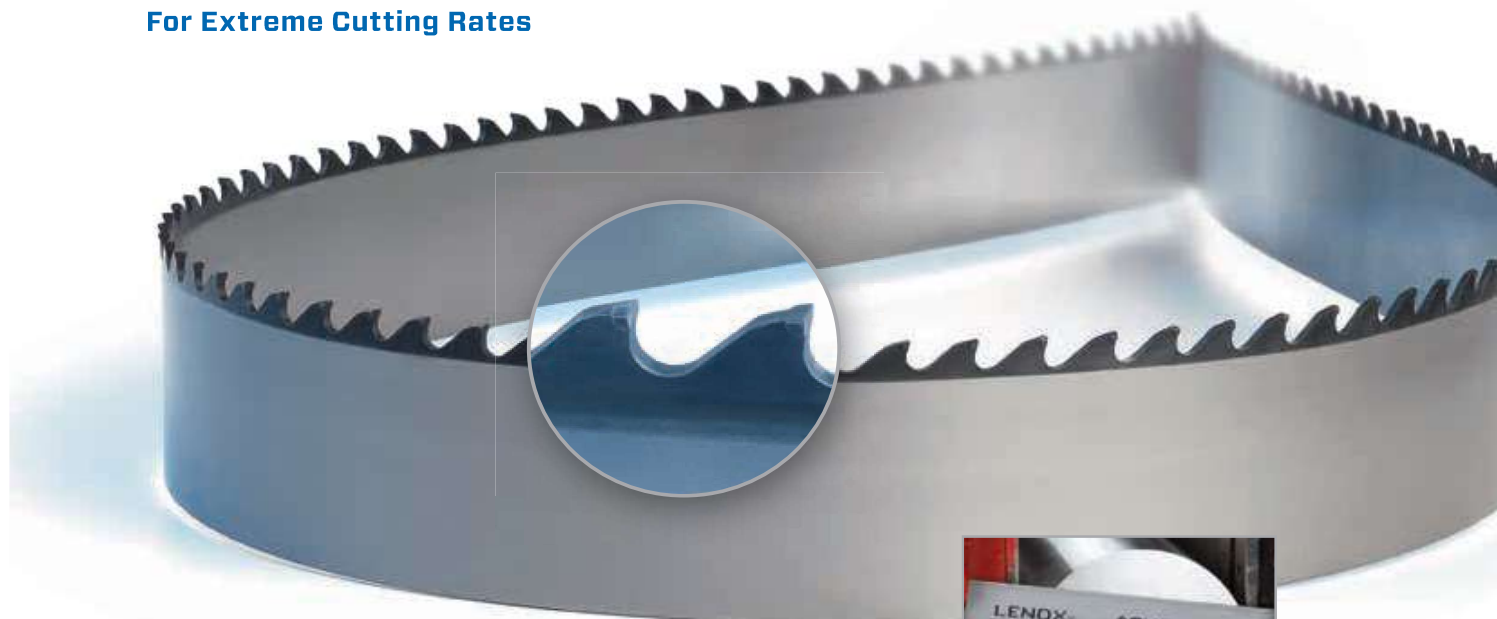
WIDTH OR DIAMETER OF CUT										
INCHES	1	2	3	4	5	6	7	8	10	11
MM	25	50	75	100	125	150	175	200	250	275
			2/3							
	3									
	3/4									

WHAT IS WAVE TECH?



ARMOR® CT BLACK

For Extreme Cutting Rates



ARMOR COATING PROVIDES FASTER CUTTING AND HIGHER PRODUCTIVITY

Aluminum, Titanium and Nitrogen (AlTiN) combine to form a tough coating that protects each tooth from heat and wear with an armorlike barrier

EXTENDS BLADE LIFE BY PREVENTING HEAT BUILD UP

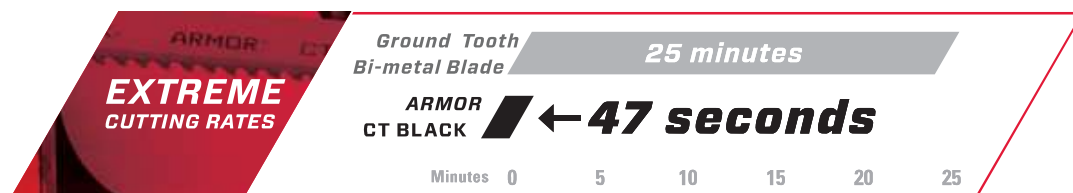
Improved, thicker coating now forces even more heat into the chips, instead of the blade or workpiece

HIGH PERFORMANCE BACKING STEEL WITH EXCELLENT FATIGUE LIFE

Optimized heat treat and backing steel preparation minimizes premature band breaks

TAILORED TO CUT A WIDE RANGE OF METALS

High quality, micro grained carbide



Material: 6-1/2" (165mm) Round 17-4 PH Stainless Steel. Based on internal test results.

WIDTH X THICKNESS		TPI			
IN	MM	0.9/1.1	1.4/1.6	1.8/2.0	2.5/3.4
1-1/4 x .042	34 x 1.07			•	•
1-1/2 x .050	41 x 1.27		•	•	•
2 x .063	54 x 1.60	•	•	•	•
2-5/8 x .063	67 x 1.60	•	•		
3 x .063	80 x 1.60	•			



APPLICATION

Carbon Steels	Mold Steels
Alloy Steels	Tool Steels
Bearing Steels	Titanium Alloys
Stainless Steels	Structural Steels



NEW

LENOX MAX CT™

Maximum Cutting Performance on Aerospace Alloys

EXCEPTIONAL BLADE LIFE

Multi-chip tooth pattern balances the chip load and reduces cutting forces

FASTER, STRAIGHTER CUTS

Optimized gullet geometry increases beam strength for straighter cuts

SUPERIOR PART FINISH

Precision ground carbides create razor sharp teeth for a mirror-like finish on cut parts

WIDTH X THICKNESS		TPI			
IN	MM	0.9/1.1	1.0/1.4	1.4/2.0	2/3
1-1/4 x .042	34 x 1.07				•
1-1/2 x .050	41 x 1.27			•	•
2 x .050	54 x 1.27			•	•
2 x .063	54 x 1.60	•	•	•†	•
2-5/8 x .063	67 x 1.60	•	•	•	
3 x .063	80 x 1.60	•			

†= Extra wide kerf



TRI-TECH CT™

Set Style Carbide Blade for Difficult to Cut Metals

STRAIGHT CUTS. NO PINCHING.

Set style tooth pattern eliminates pinching in high stress metals

Wide kerf clearance enables plunge cutting

PROLONGED BLADE LIFE

High grade carbide tips are precision ground for efficient cutting

High performance backing steel minimizes body breakage

EXTREME VERSATILITY

Cuts a range of materials from high strength steels to Nickel-based alloys

WIDTH X THICKNESS		TPI				
IN	MM	0.6/0.8	0.9/1.1	1.4/2.0	1.8/2.0	2.5/3.4
1-1/4 x .042	34 x 1.07				•	•
1-1/2 x .050	41 x 1.27			•	•	•
2 x .063	54 x 1.60		•	•†	•	•
2-5/8 x .063	67 x 1.60		•†	•†		
3 x .063	80 x 1.60	•	•			

†= Extra heavy set available to prevent blade pinching



APPLICATION

Nickel-Based Alloys (Inconel®)
Stainless Steels
Tool Steels
Titanium Alloys



APPLICATION

Nickel-based Alloys (Inconel®)
Iron Based Super Alloys
Titanium Alloys
High Chrome Alloys
Stainless Steel
Mold and Tool Steels
Aluminum/
Non-Ferrous



NEW

VERSA PRO™

Versatile Carbide Tipped Blade for General Purpose Cutting

LONG BLADE LIFE IN A VARIETY OF METALS

Proprietary grade of tungsten carbide tips with increased toughness retain a sharp cutting edge

EASY TO RUN WITH NO BREAK IN*

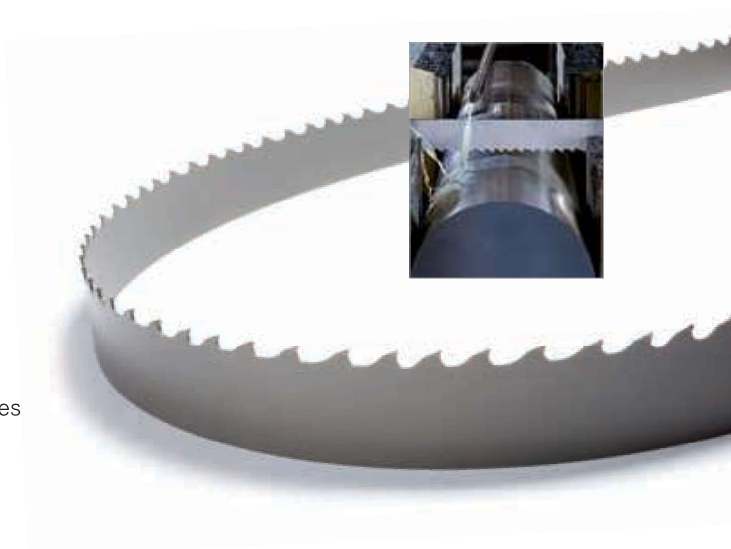
Pre-honed cutting edge minimizes tooth chipping and eliminates the need to break-in the blade

OUTSTANDING PART FINISH

Precision ground carbide tips have clean, sharp edges that deliver smoother parts

* Break-in recommended for pieces larger than 10" (254mm)

WIDTH X THICKNESS		TPI				
IN	MM	0.9/1.1	1.0/1.4	1.4/2.0	2/3	3/4
1-1/4 x .042	34 x 1.07			•	•	•
1-1/2 x .050	41 x 1.27			•	•	
2 x .063	54 x 1.60	•	•	•	•	
2-5/8 x .063	67 x 1.60	•	•	•		
3 x .063	80 x 1.60	•				



APPLICATION

Aluminum / Non-Ferrous
Carbon Steels
Bearing Steels
Mold Steels
Alloy Steels

Tool Steels
Stainless Steels
Titanium Alloys
Nickel-based Alloys



TRI-MASTER®

Versatile Carbide Tipped Blade

PRECISION TRIPLE CHIP GRIND

Smooth cuts, excellent finish

HIGH PERFORMANCE

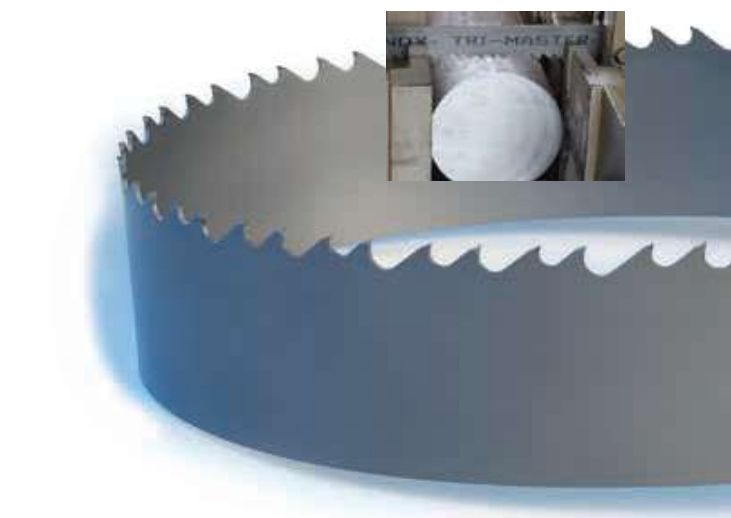
BACKING STEEL

Excellent fatigue life

GENERAL PURPOSE BLADE

Perfect for cutting of a wide variety of materials

WIDTH X THICKNESS		TPI		
IN	MM	2/3	3/4	3
3/8 x .032	9.5 x 0.80			•
1/2 x .025	12.7 x 0.64			•
3/4 x .035	19 x 0.90			•
1 x .035	27 x 0.90	•	•	•
1-1/4 x .042	34 x 1.07	•	•	•
1-1/2 x .050	41 x 1.27	•	•	



APPLICATION

Aluminum/
Non-Ferrous
Carbon Steels
Alloy Steels
Bearing Steels
Stainless Steels

Mold Steels
Tool Steels
Wood
Titanium Alloys
Nickel-Based Alloys
(Inconel®)



CAST MASTER™

Superior Performance When Sawing Castings

EXCEPTIONAL BLADE LIFE IN HAND FED FOUNDRY APPLICATIONS

Sub-micron grade carbide designed for cutting aluminum and non-ferrous parts

Precision grind on the rake face prevents material build up on the tooth edge

CUTS PARTS FREELY WITH LIMITED FEED PRESSURE

Optimized rake angle and narrow kerf enable high speed cutting without pulling the part

Multi-chip tooth design reduces cutting forces and limits vibration

HIGH ALLOY BACKING STEEL INCREASES FATIGUE LIFE

Advanced backing steel preparation minimizes band breaks

WIDTH X THICKNESS		TPI		
IN	MM	2/3	3	3/4
3/4 x .035	19 x 0.90		• *	•
1 x .035	27 x 0.90	•	• *	
1-1/4 x .042	34 x 1.07	•	•	
1-1/2 x .050	41 x 1.27	•		

• Multi-chip Design

* Set Style (Cast Master SST)

APPLICATION

Aluminum/ Non-Ferrous
Castings
Gates & Risers

Wood
Composites



CAST MASTER™ XL

Superior Performance in High Speed Aluminum Cutting Applications

LONG BLADE LIFE AT HIGH BAND SPEEDS

Special grade of carbide is designed to wear slowly when cutting aluminum

Multi-chip tooth pattern balances the chip load and reduces cutting forces

Next generation welding technology reduces premature tooth loss

Exceptional Part Finish at Increased

CUTTING RATES

Precision grind prevents material build up on the tooth edge

Teeth have sharp edges and high rake angles to penetrate easily and leave a smooth finish

STRAIGHT CUTS IN LARGE BLOCK APPLICATIONS

High alloy backing steel and fatigue resistant gullet geometry minimize the impact of wide guide spacing

WIDTH x THICKNESS		TPI			
IN	MM	0.6/0.8	0.9/1.1	1.4/2.0	2/3
1-1/4 x .042	34 x 1.07			•	
1-1/2 x .050	41 x 1.27			• *	• *
2 x .063	54 x 1.60		•	•	
2-5/8 x .063	67 x 1.60		•	•	
3 x .063	80 x 1.60	•	•		

* CAST MASTER XLE - Spec designed for automated cutting of engine blocks

APPLICATION

Aluminum / Non-Ferrous
Castings
Engine Blocks
Gates & Risers



LENOX HRC®

Carbide Tipped Blade for Case and Through-Hardened Materials

HIGH QUALITY, MICRO-GRAINED CARBIDE
Outstanding durability

STRONG TOOTH DESIGN
Superior edge strength and strip resistance

NEW HIGH PERFORMANCE BACKING STEEL
Excellent fatigue life

REPLACES ABRASIVE CUT OFF OPERATIONS

WIDTH X THICKNESS		VARI-TOOTH® TPI		STANDARD TPI
IN	MM	2/3	3/4	3
1 x .035	27 x 0.90			•
1-1/4 x .042	34 x 1.07		•	•
1-1/2 x .050	41 x 1.27		•	
2 x .063	54 x 1.60	•		



APPLICATION

Carbon Steels
Stainless Steels
Case Hardened Materials



MASTER-GRIT®

Carbide Grit Edge Blade for Cutting Abrasive and Hardened Materials

TUNGSTEN CARBIDE PARTICLE GRIT
Metallurgically bonded edge

GULLETED
For applications greater than
1/4" (6.4mm) in cross-section

CONTINUOUS
For applications less than
1/4" (6.4mm) in cross-section

WIDTH X THICKNESS		GRIT EDGE PREPARATION				
		GULLETED			CONTINUOUS	
IN	MM	MED	MED COARSE	COARSE	MED	COARSE
1/4 x .020	6.4 x 0.50				•	
3/8 x .025	9.5 x 0.64	•	•			
1/2 x .025	12.7 x 0.64	•	•		•	
3/4 x .032	19 x 0.80		•	•		
1 x .035	27 x 0.90		•	•	•	•
1-1/4 x .042	34 x 1.07			•		



APPLICATION

Case Hardened
Materials

Other:
Fiberglass,
Steel Belted
Radial Tires,
Composites



CARBIDE SPEED CHART

VISIT SAWCALC.COM
FOR CUSTOMIZED BAND SAW RECOMMENDATIONS

*FPM = Feet Per Minute | MPM = Meters Per Minute *For metal cutting saws run between 275 and 350 FPM. **Typically for hardened and case hardened carbon steels up to 61 Rc.*

MATERIALS		ARMOR CT BLACK		LENOX MAX CT™ and VERSA PRO™		TRI-TECH™		TRI-MASTER™		CAST MASTER™ CAST MASTER XL		LENOX HRC®	
TYPE	GRADE	FPM	MPM	FPM	MPM	FPM	MPM	FPM	MPM	FPM	MPM	FPM	MPM
Aluminum Alloys	2024, 5052, 6061, 7075			3,500–8,500*	1000–2600	3,500 - 8,500	1,000 - 2,600	3,500–8,500*	1000–2600	3,500–8,500*	1000–2600		
Copper Alloys	CDA 220 CDA 360 Cu Ni (30%) Be Cu			240 300 220 180	75 90 65 55	240 300 220 180	73 91 67 55	210 295 200 160	65 90 60 50	210 295 200 160	65 90 60 50	280	85
Bronze Alloys	AMPCO 18 AMPCO 21 AMPCO 25 Leaded Tin Bronze Al Bronze 865 Mn Bronze 932 937			205 180 115 300 200 220 300 300	60 55 35 90 60 65 90 90	205 180 115 300 180 220 300 300	62 55 35 91 55 67 91 91	180 160 110 290 150 215 280 250	55 50 35 90 45 65 85 75	180 160 110 290 150 215 280 250	55 50 35 90 45 65 85 75		
Brass Alloys	Cartridge Brass Red Brass (85%) Naval Brass			260 230	80 70	240 230	73 70	220 200	65 60			220 200	65 60
Leaded, Free Machining Low Carbon Steels	1145 1215 12L14	370 425 450	115 130 135			290 325 350	88 99 107	290 325 350	90 100 105				
Structural Steel	A36	350	105										
Low Carbon Steels	1008, 1018 1030	310 290	95 90			250 240	76 73	250 240	75 75			270** 250**	80 75
Medium Carbon Steels	1035 1045	285 275	85 85			230 220	70 67	230 220	70 65			240** 230**	75 70
High Carbon Steels	1060 1080 1095	260 250 240	80 75 75									200** 195** 185**	60 60 55
Mn Steels	1541 1524	260 240	80 75										
Cr-Mo Steels	4140 41L50 4150H	300 310 290	90 95 90			220 250	67 76						
Cr Alloy Steels	6150 52100 5160	315 300 315	95 90 95			190 190	58 58						
Ni-Cr-Mo Steels	4340 8620 8640 E9310	300 310 305 315	90 95 95 95			190 190	58 58						
Low Alloy Tool Steel	L-6	300	90	240	75	240	73	190	60				
Water-Hardening Tool Steel	W-1	300	90	240	65	220	67	175	55				
Cold-Work Tool Steel	D-2	240	75	210	65	210	64	170	50				
Air-Hardening Tool Steels	A-2 A-6 A-10	270 240 190	80 75 60	230 220 160	70 65 50	230 220 160	70 67 49	185 175 130	55 55 40				
Hot Work Tool Steels	H-13 H-25	240 180	75 55	220 150	55 45	220 150	67 46	175 120	55 35				
Oil-Hardening Tool Steels	O-1 O-2	260 240	80 75	240 220	75 65	240 220	73 67	190 175	60 55				
High Speed Tool Steels	M-2, M-10 M-4, M-42 T-1 T-15	140 130 120 100	45 40 35 30	110 105 100 80	35 30 30 25	110 105 100 80	34 32 30 24	90 85 80 65	25 25 25 20				
Mold Steels	P-3 P-20	300 280	90 85	200 160	60 50	200 160	61 49	160 130	50 40				
Shock Resistant Tool Steels	S-1 S-5, S-7	220 200	65 60										
Stainless Steels	304 316 410, 420 440A 440C	260 240 290 250 240	80 75 90 75 75	220 180 250 200 200	65 55 75 60 60	190 180 250 200 200	58 55 76 61 61	155 125 175 140 140	45 40 55 45 45			220 180 250 200 200	65 55 75 60 60
Precipitation Hardening Stainless Steels	17-4 PH 15-5 PH	300 300	90 90	160 140	50 45	160 160	49 49	110 100	35 30			160 140	50 45
Free Machining Stainless Steels	420F 301	340 320	105 100	270 230	80 70	270 230	82 70	190 160	60 50			270 230	80 70
Nickel Alloys	Monel® K-500 Duranickel® 301			90 80	25 25	90 80	27 24	90 80	25 25				
Iron-Based Super Alloys	A286, Incoloy® 825 Incoloy 600 Pyromet® X-15			80 75 90	25 25 25	105 85 90	32 26 27	80 75 90	25 25 25				
Nickel-Based Alloys	Inconel® 600, Inconel 718 Nimonic® 90 NI-SPAN-C® 902, RENE® 41 Inconel® 625 Hastalloy B, Waspalloy Nimonic® 75, RENE® 88			85 85 115 75 75	25 25 35 25 25	105 100 105 100 105	32 30 32 30 32	85 85 115 75 75	25 25 35 25 25				
Titanium Alloys	CP Titanium Ti-6Al-4V	230 230	70 70	180 180	55 55	180 180	55 55	150 150	45 45				
Cast Irons	A536 (60-40-18) A536 (120-90-02) A48 (Class 20) A48 (Class 40) A48 (Class 60)	360 175 250 160 115	110 55 75 50 35										





BI-METAL ***BAND SAW BLADES***

Selecting Bi-metal Blades	52
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<i>QXP™</i> & <i>CLASSIC PRO™</i>	54
<i>CONTESTOR GT®</i> & <i>CONTESTOR XL®</i>	55
<i>ARMOR RX®+</i> & <i>LENOX RX®+</i>	56
<i>LENOX CLASSIC®</i> & <i>DIEMASTER 2®</i>	57
Bi-metal Speed Chart	58
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SELECTING BI-METAL BAND SAW BLADES

The following information needs to be specified when a band saw blade is ordered:

PRODUCT NAME LENGTH X WIDTH X THICKNESS TEETH PER INCH

For Example: *Contestor GT® 6800mm x 34mm x 1.07mm x 3/4 TPI*

STEP #1: ANALYZE THE SAWING APPLICATION

Machine: Determine the band size for the machine
(Length x Width x Thickness).

Material: Determine the following for the material to be cut:

- Material Type/Grade
- Size
- Shape
- Will material be stacked/bundled, or cut one at a time?

Operation: Is this a production, or general purpose sawing operation?

STEP #2: DETERMINE THE BEST PRODUCT FOR THE APPLICATION

Use the charts below.

- Locate the type of material to be cut in the top row.
- Read down the chart to find which blade is recommended.

STEP #3: DETERMINE THE PROPER NUMBER OF TEETH PER INCH (TPI)

- Use the Bi-metal Tooth Selection chart on page 25.

STEP #4: CONFIRM THE DESIRED PRODUCT IS AVAILABLE

- Go to the product page for the product you have selected.
- Confirm that product is available in the correct blade width and TPI.



PRODUCTION SAWING

ALUMINUM NON-FERROUS	CARBON STEELS	STRUCTURAL STEELS	ALLOY STEELS	BEARING STEELS	MOLD STEELS	TOOL STEELS	STAINLESS STEELS	TITANIUM ALLOYS	NICKEL-BASED ALLOYS (INCONEL®)
EASY ←			MACHINABILITY				→ DIFFICULT		
QXP™			QXP Long Life. Fast Cutting						
					CONTESTOR GT® & CONTESTOR XL™ Long Life. Straight Cuts				
	ARMOR® Rx®+ Long Life. Structurals/Bundles								
	LENOX Rx®+ Structurals/Bundles								
CLASSIC PRO™ Long Life. Extremely Versatile				CLASSIC PRO					

GENERAL PURPOSE

<i>LENOX CLASSIC®</i> 19mm and Wider Blades	<i>LENOX CLASSIC</i>
<i>DIEMASTER 2®</i> 12.7mm and Narrower Blades	<i>DIEMASTER 2</i>

Note: We can provide solutions for many cutting applications not listed here.
Please contact LENOX Technical support or go to sawcalc.com for more information

QXP™

Long Blade Life At High Cutting Rates

LONG LIFE. FAST CUTTING

Solids of mild to moderate machinability

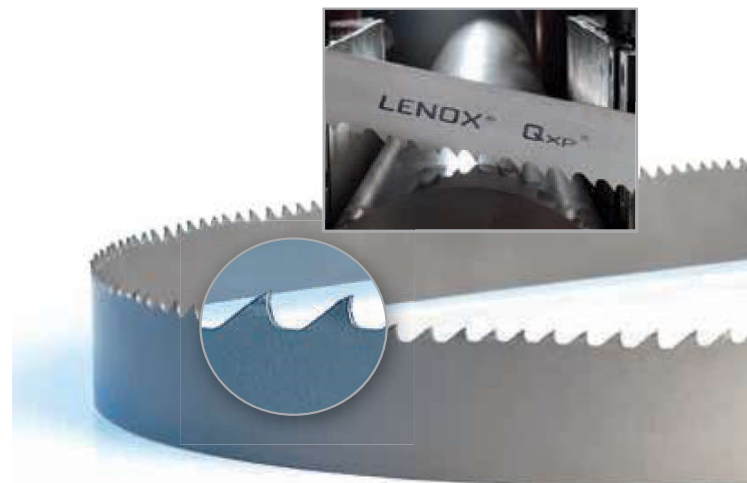
Proprietary backing steel preparation provides increased fatigue life

PENETRATES WITH LESS FEED FORCE

Extreme positive rake tooth form

INCREASED CUTTING RATES

Deep gullet design



WIDTH X THICKNESS		TPI					
IN	MM	1.0/1.3	1.5/2.0	2/3	3/4	4/6	5/8
3/4 x .035	19 x 0.90					♦	
1 x .035	27 x 0.90			♦	♦	♦	♦
1-1/4 x .042	34 x 1.07		♦	♦	♦	♦	♦
1-1/2 x .050	41 x 1.27		♦	♦	♦	♦	
2 x .063	54 x 1.60	♦	♦	♦	♦	♦	
2-5/8 x .063	67 x 1.60	♦	♦	♦			
3 x .063	80 x 1.60	♦					

♦ LENOX LXP® spec



POWER BLAST
TECHNOLOGY™

APPLICATION

Aluminum/
Non-Ferrous
Carbon Steels
Alloy Steels

Bearing Steels
Mold Steels
Stainless Steels
Tool Steels



CLASSIC PRO™

The Ultimate Multi-Purpose Blade for Production Cutting

EXCEPTIONAL BLADE LIFE

Proprietary backing steel preparation increases fatigue life

Robust M42 high speed steel edge provides superior heat and wear resistance

EXTREMELY VERSATILE

Cuts a wide range of metals from low carbon steels to higher strength alloys

Advanced design enables production cutting of solids and structurals

Positive rake angle improves tooth penetration on saws with limited feed force

CONSISTENT PERFORMANCE CUT AFTER CUT

Unique tooth geometry and set minimizes noise and vibration from the first cut

WIDTH X THICKNESS		TPI				
IN	MM	1.4/2.0	2/3	3/4	4/6	5/8
1 x .035	27 x 0.90		♦	♦	♦	♦
1-1/4 x .042	34 x 1.07	♦	♦	♦	♦	♦
1-1/2 x .050	41 x 1.27	♦	♦	♦†	♦	♦
2 x .050	54 x 1.27		♦	♦	♦	
2 x .063	54 x 1.60	♦	♦†	♦†	♦	
2-5/8 x .063	67 x 1.60	♦	♦†	♦†		

† = Extra heavy set available to prevent blade pinching



POWER BLAST
TECHNOLOGY™

APPLICATION

Carbon steels
Light alloy steels
Mold steels
Tool steels
Stainless steels



CONTESTOR GT®

High Performance Sawing

STRAIGHTER CUTS ON LARGER, DIFFICULT TO CUT MATERIALS

Unique gullet design for increased beam strength

OPTIMUM CHIP FORMATION IN WORK HARDENING ALLOYS

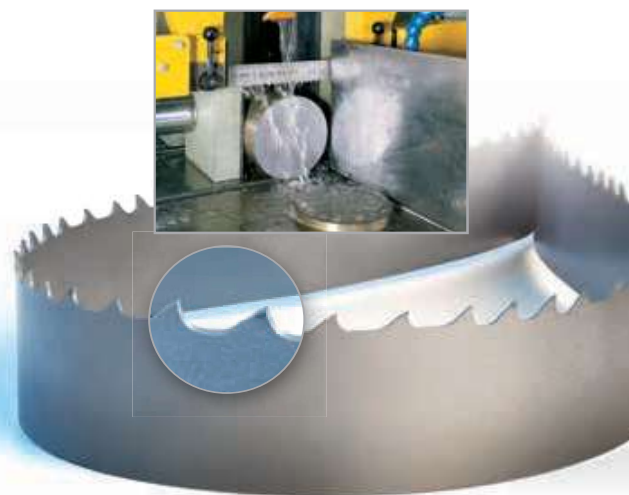
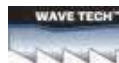
Precision ground teeth—smoother tooth face and gullet surfaces
Patented special set and tooth profile

IMPROVED LIFE WITH OPTIONAL M-51 EDGE MATERIAL

Increased heat and wear resistance
Available as listed below

WIDTH X THICKNESS		TPI					
IN	MM	0.7/1.0	1.0/1.3	1.4/2.0	2/3	3/4	4/6
1 x .035	27 x 0.90				●	●	●
1-1/4 x .042	34 x 1.07			◆	◆	◆	◆
1-1/2 x .050	41 x 1.27			◆	◆	◆	◆
2 x .050	54 x 1.27		◆	◆			
2 x .063	54 x 1.60	◆	◆	◆	◆	◆	
2-5/8 x .063	67 x 1.60	◆	◆	◆	◆		
3 x .063	80 x 1.60	◆	◆	◆			

● = Milled tooth
◆ = Ground tooth



APPLICATION

Mold Steels
Stainless Steels
Tool Steels

Titanium Alloys
Nickel-Based
Alloys (Inconel®)



CONTESTOR XL™

High Performance Sawing of Large, Difficult to Cut Metals

INCREASED WEAR RESISTANCE DELIVERS LONGER BLADE LIFE

New HSS edge wire increases tooth hardness for better abrasive wear resistance

Patent pending chip controlling design reduces heat and wear

IMPROVED CHIP FORMATION HELPS PENETRATE DIFFICULT TO CUT METALS

Variable tooth heights and multi-level set creates deeper, narrower chips
High rake angles reduce cutting forces

OPTIMIZED DESIGN FOR STRAIGHTER CUTS ON LARGE BLOCKS

Shallow gullet construction increases beam strength

WIDTH X THICKNESS		TPI					
IN	MM	0.7/1.0	1.0/1.3	1.4/2.0	2/3	3/4	4/6
1-1/4 x .042	34 x 1.07				◆	◆	◆
1-1/2 x .050	41 x 1.27			◆	◆	◆	
2 x .063	54 x 1.60		◆	◆	◆	◆	
2-5/8 x .063	67 x 1.60	◆	◆	◆			
3 x .063	80 x 1.60	◆	◆				



APPLICATION

Mold Steels
Stainless Steels
Tool Steels

Titanium Alloys
Nickel-Based
Alloys (Inconel®)



ARMOR RX⁺

Engineered for Long Life

ALTiN COATING FOR PRODUCTIVITY AND LONG BLADE LIFE

Aluminum, Titanium, and Nitrogen combine to form a coating that is hard and tough, protecting each tooth from heat and wear with an armor-like barrier

UNIQUE, PATENTED TOOTH PROFILE

Special, reinforced tooth design for reduced tooth strippage at higher feed rates

Minimized harmonics and vibrations

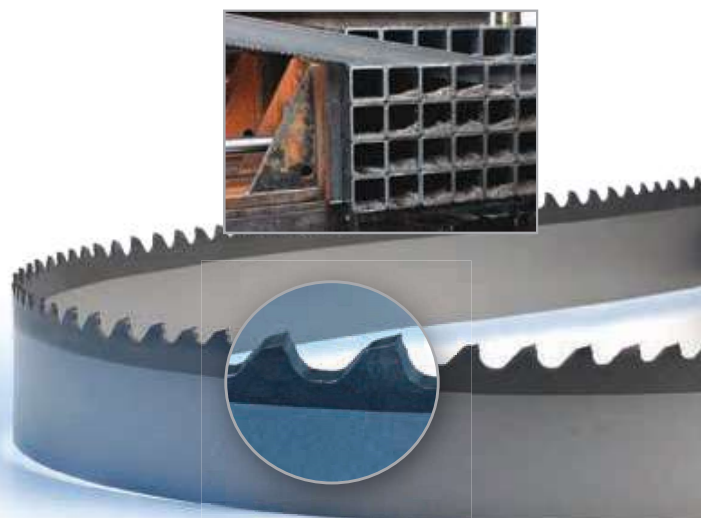
Quiet cutting

HIGH PERFORMANCE BACKING STEEL

For longer fatigue life

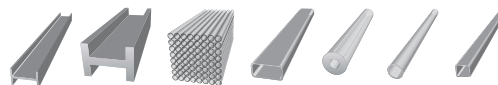
WIDTH X THICKNESS		TPI		
IN	MM	2/3	3/4	4/6
1-1/4 x .042	34 x 1.07	♦†	♦†	♦
1-1/2 x .050	41 x 1.27	♦	♦†	♦†
2 x .063	54 x 1.60	♦	♦†	

† = Extra heavy set available to prevent blade pinching



APPLICATION

Carbon Steels
Structural Steels



LENOX RX⁺

Engineered to Cut structurals, tubing and bundles

LONG BLADE LIFE AND EXTREME DURABILITY

Patented tooth profile resists tooth strippage, even at higher feed rates

QUIET CUTTING, REDUCED VIBRATION

Optimized tooth pitch/set sequence

WIDTH X THICKNESS		TPI							
IN	MM	2/3	3/4	4/6	5/7	5/8	6/10	10/14	
5/8 x .032	16 x 0.80								*
3/4 x .035	19 x 0.90			♦		♦	♦	♦	
1 x .035	27 x 0.90	♦	♦	♦	♦	♦	♦	♦	
1-1/4 x .042	34 x 1.07	♦†	♦†	♦†		♦			
1-1/2 x .050	41 x 1.27	♦†	♦†	♦†		♦			
2 x .050	54 x 1.27	♦	♦†	♦		♦			
2 x .063	54 x 1.60	♦†	♦†	♦					
2-5/8 x .063	67 x 1.60	♦†	♦†	♦					

* = Matrix edge

† = Extra heavy set available to prevent blade pinching

♦ = NEW Specs designed for pull down, semi-automatic and gravity fed sawing applications



APPLICATION

Carbon Steels
Structural Steels



LENOX CLASSIC®

The Ultimate Multi-Purpose Blade

DESIGNED FOR LONG LIFE IN GENERAL PURPOSE CUTTING APPLICATIONS

Patented *TUFF TOOTH™* design reduces tooth strippage



M-42 high speed steel edge for excellent heat and wear resistance



WIDTH X THICKNESS		TOOTH FORM								
		TUFF TOOTH™ TPI		VARI-TOOTH™ TPI				WAVY TPI		HOOK TPI
IN	MM	4/6	6/8	5/8	6/10	8/12	10/14	14	18	3
3/4 x .035	19 x 0.90	◆	◆	◆	◆	◆	◆	◆	◆	◆
1 x .035	27 x 0.90	◆	◆	◆	◆	◆	◆		◆	
1-1/4 x .042	34 x 1.07	◆	◆	◆	◆	◆				

APPLICATION

Aluminum/
Non-Ferrous
Carbon Steels
Structural Steels

Alloy Steels
Stainless Steels
Tool Steels



DIEMASTER 2®

Engineered for Contour Cutting

FASTER CUTTING WITH M-42 HIGH SPEED STEEL TOOTH EDGE

Runs at twice the speed of carbon blades for faster, easier cutting

LONGER BLADE LIFE

Lasts 10 times longer than carbon blades

FOR GENERAL PURPOSE HAND-FED APPLICATIONS

Tool and die shops, machine shops, maintenance facilities



WIDTH X THICKNESS		TOOTH FORM										
		VARI-TOOTH™ TPI				STANDARD TPI				HOOK TPI		
IN	MM	6/10	8/12	10/14	14/18	10	14	18	24	3	4	6
1/4 x .025	6.4 x 0.64			◆	◆							◆
1/4 x .035	6.4 x 0.90			◆								◆
3/8 x .025	9.5 x 0.64			◆	◆							
3/8 x .035	9.5 x 0.90					◆					◆	◆
1/2 x .020	12.7 x 0.50			*	*		*	*	*			
1/2 x .025	12.7 x 0.64	◆	◆	◆	◆		◆	◆			◆	◆
1/2 x .035	12.7 x 0.90					◆	◆			◆	◆	◆

* = Matrix edge

APPLICATION

Aluminum/
Non-Ferrous
Carbon Steels
Structural Steels

Alloy Steels
Stainless Steels
Tool Steels
Wood



BI-METAL SPEED CHART

VISIT SAWCALC.COM
FOR CUSTOMIZED BAND SAW RECOMMENDATIONS

	MATERIALS		BAND SPEED	
	TYPE	GRADE	FEET/ MIN	METER/ MIN
ALUMINUM / NON-FERROUS	Aluminum Alloys	2024, 5052, 6061, 7075	300+	85+
	Copper Alloys	CDA 220 CDA 360 Cu Ni (30%) Be Cu	210 295 200 160	65 90 60 50
	Bronze Alloys	AMPCO 18 AMPCO 21 AMPCO 25 Leaded Tin Bronze Al Bronze 865 Mn Bronze 932 937	180 160 110 290 150 215 280 250	55 50 35 90 45 65 85 75
	Brass Alloys	Cartridge Brass, Red Brass (85%) Naval Brass	220 200	65 60
CARBON STEELS	Leaded, Free Machining Low Carbon Steels	1145 1215 12L14	270 325 350	80 100 105
	Low Carbon Steels	1008, 1018 1030	270 250	80 75
	Medium Carbon Steels	1035 1045	240 230	75 70
	High Carbon Steels	1060 1080 1095	200 195 185	60 60 55
STRUCTURAL STEEL	Structural Steel	A36	250	75
ALLOY STEEL	Mn Steels	1541 1524	200 170	60 50
	Cr-Mo Steels	4140 41L50 4150H	225 235 200	70 70 60
	Cr Alloy Steels	6150 5160	190 195	60 60
	Ni-Cr-Mo Steels	4340 8620 8640 E9310	195 215 185 160	60 65 55 50
BEARING STEEL	Cr Alloy Steels	52100	160	50
MOLD STEEL	Mold Steels	P-3 P-20	180 165	55 50
STAINLESS STEEL	Stainless Steels	304 316 410, 420 440A 440C	115 90 135 80 70	35 25 40 25 20
	Precipitation Hardening Stainless Steels	17-4 PH 15-5 PH	70 70	20 20
	Free Machining Stainless Steels	420F 301	150 125	45 40
TOOL STEEL	Low Alloy Tool Steel	L-6	145	45
	Water-Hardening Tool Steel	W-1	145	45
	Cold-Work Tool Steel	D-2	90	25
	Air-Hardening Tool Steels	A-2 A-6 A-10	150 135 100	45 40 30
	Hot Work Tool Steels	H-13 H-25	140 90	40 25
	Oil-Hardening Tool Steels	O-1 O-2	140 135	40 40
	High Speed Tool Steels	M-2, M-10 M-4, M-42 T-1 T-15	105 95 90 60	30 30 25 20
	Shock Resistant Tool Steels	S-1 S-5, S-7	140 125	40 40
TITANIUM ALLOY	Titanium Alloys	CP Titanium Ti-6Al-4V	85 65	25 20
NICKEL BASED ALLOY	Nickel Alloys	Monel® K-500 Duranickel 301	70 55	20 15
	Iron-Based Super Alloys	A286, Incoloy® 825 Incoloy® 600 Pyromet X-15	80 55 70	25 15 20
	Nickel-Based Alloys	Inconel® 600, Inconel® 718, Nimonic 90, NI-SPAN-C 902, RENE 41 Inconel® 625 Hastalloy B, Waspalloy Nimonic 75, RENE 88	60 60 80 55 50	20 20 25 15 15
OTHER	Cast Irons	A536 (60-40-18) A536 (120-90-02) A48 (Class 20) A48 (Class 40) A48 (Class 60)	225 110 160 115 95	70 35 50 35 30

The Speed Chart recommendations apply when cutting 4" wide (100mm), annealed material with a bi-metal blade and flood sawing fluid:

ADJUST BAND SPEED FOR DIFFERENT SIZED MATERIALS

MATERIAL	BAND SPEED
1/4" (6mm)	Chart Speed + 15%
3/4" (19mm)	Chart Speed + 12%
1-1/4" (32mm)	Chart Speed + 10%
2-1/2" (64mm)	Chart Speed + 5%
4" (100mm)	Chart Speed - 0%
8" (200mm)	Chart Speed - 12%

ADJUST BAND SPEED FOR DIFFERENT FLUID TYPES

FLUID TYPES	BAND SPEED
Spray lube	Chart Speed - 15%
No fluid	Chart Speed - 30-50%

ADJUST BAND SPEED FOR HEAT TREATED MATERIALS

ROCKWELL	BRINELL	DECREASE BAND SPEED
Up to 20	226	-0%
22	237	-5%
24	247	-10%
26	258	-15%
28	271	-20%
30	286	-25%
32	301	-30%
36	336	-35%
38	353	-40%
40	371	-45%

*Reduce band speed 50% when
sawing with carbon blades*

BLADE BREAK-IN

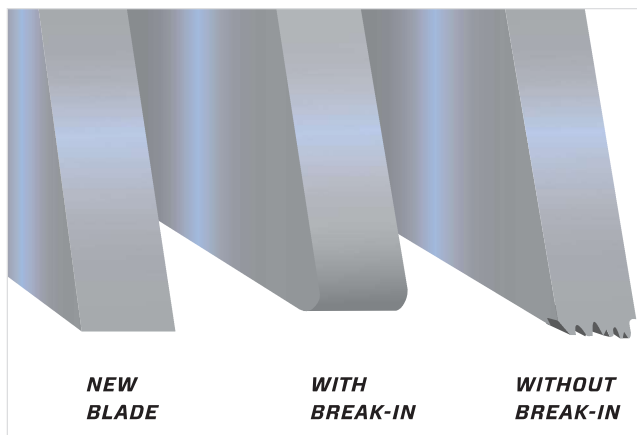
Getting Long Life from a New Band Saw Blade

WHAT IS BLADE BREAK-IN?

A new band saw blade has razor sharp tooth tips. In order to withstand the cutting pressures used in band sawing, tooth tips should be honed to form a micro-fine radius. Failure to perform this honing will cause microscopic damage to the tips of the teeth, resulting in reduced blade life.

Why Break-In a Band Saw Blade?

Completing a proper break-in on a new band saw blade will dramatically increase its life.



HOW TO BREAK IN A BLADE

Select the proper band speed for the material to be cut
(see chart on page 32)

Reduce the feed force/rate to achieve a cutting rate 20% to 50% of normal (soft materials require a larger feed rate reduction than harder materials)

Begin the first cut at the reduced rate. Make sure the teeth are forming a chip. Small adjustments to the band speed may be made in the event of excessive noise/vibration

During the first cut, increase feed rate/force slightly once the blade fully enters the workpiece

With each following cut, gradually increase feed rate/force until normal cutting rate is reached

**FOR FURTHER ASSISTANCE WITH BREAK-IN PROCEDURES,
CONTACT LENOX TECHNICAL SUPPORT**



CARBON ***BAND SAW BLADES***

<i>NEO-TYPE®</i> & Flex Back.....	61
#32 Wood & Friction Band	62

NEO-TYPE®

Hard Back Carbon Steel Blade

STRAIGHTER, EASIER CUT

The body of this blade is heat treated for extra stability while cutting

Recommended for use at band speeds less than 4,000 feet (1,200 meters) per minute

DESIGNED FOR USE ON VERTICAL CONTOUR SAWS AND SMALL CUT-OFF SAWS

Perfect for utility cutting of a wide variety of materials

WIDTH X THICKNESS		TOOTH FORM								
		STANDARD						HOOK		
		RAKER SET TPI			WAVY TPI			RAKER SET TPI		
IN	MM	6	8	10	14	18	24	3	4	6
1/4 x .025	6.4 x 0.64			♦	♦	♦	♦		♦	♦
3/8 x .025	9.5 x 0.64		♦	♦	♦	♦		♦	♦	♦
1/2 x .025	12.7 x 0.64	♦	♦	♦	♦	♦	♦		♦	
5/8 x .032	16 x 0.80			♦	♦					
3/4 x .035	19 x 0.90	♦	♦	♦	♦	♦		♦	♦	
1 x .035	25.4 x 0.90	♦	♦	♦	♦			♦		

APPLICATION

Aluminum	Carbon
Brass	Graphite
Bronze	Plastics
Copper	Mild Steels
Fiberglass	

FLEX BACK

Carbon Steel Blade

EXCELLENT FATIGUE LIFE

Designed to cut a wide variety of materials

Flexible carbon steel is very durable even at high band speeds—up to 15,000 feet (4,500 meters) per minute

DESIGNED FOR USE ON VERTICAL CONTOUR SAWS

Perfect for utility cutting of a wide variety of materials

WIDTH X THICKNESS		TOOTH FORM									
		STANDARD			HOOK					SKIP	
		RAKER SET TPI			RAKER SET TPI			ALT TPI		RAKER SET TPI	
IN	MM	6	10	14	2	3	4	6	2	4	6
1/4 x .025	6.4 x 0.64		♦	♦				♦	♦		♦
3/8 x .025	9.5 x 0.64		♦	♦				♦	♦		
1/2 x .025	12.7 x 0.64	♦	♦	♦		♦	♦	♦			
3/4 x .032	19 x 0.80				♦	♦	♦	♦			
1 x .035	25.4 x 0.90				♦	♦					
2 x .035	50.8 x 0.90									♦	

APPLICATION

Aluminum	Carbon
Brass	Graphite
Bronze	Plastics
Copper	Wood
Fiberglass	

#32 WOOD

Specialized Woodworking Applications

STRAIGHTER, EASIER CUTTING

Manufactured with a heavier gauge (.032") flexible carbon steel material

DESIGNED FOR CONTOUR CUTTING OF WOOD

Perfect for furniture manufacturing operations

*Note: Not recommended for blades shorter than 15' (4500mm) long.
If shorter blade is required, LENOX Flex Back is recommended*

WIDTH X THICKNESS		TOOTH FORM					
		HOOK					
		RAKER SET TPI			ALTERNATE TPI		
IN	MM	2	3	4	2	3	4
1/4 x .032	6.4 x 0.80			◆			◆
3/8 x .032	9.5 x 0.80		◆	◆	◆	◆	◆
1/2 x .032	12.7 x 0.80	◆	◆	◆		◆	

APPLICATION

Wood



FRICTION BAND

Friction Cutting Operations

FAST CUTTING

Special set design for increased frictional heat

LONG LASTING

Special silicon carbon steel provides extended fatigue life

*Note: Operates at band speeds up to 20,000 feet per minute
(6,000 meters per minute)*

WIDTH X THICKNESS		TOOTH FORM
		STANDARD
		LENOX SET TPI
IN	MM	10
1 x .035	25.4 x 0.90	◆

APPLICATION

Ferrous metals



SAWING AND METAL WORKING FLUIDS AND TOOLS

<i>BAND-ADE® & SAW MASTER™</i>	64
Machine Cleaner & LUBE TUBE	65
<i>MICRONIZER® & MICRONIZER, Jr.</i>	66
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BAND-ADE®

Semi-Synthetic Sawing Fluid

General purpose flood coolant designed for light to moderate-duty machining applications involving both ferrous and non-ferrous metals

EXTENDS BLADE LIFE

Increased lubrication aids in chip formation and evacuation

EXCEPTIONAL COOLING

Water-soluble formulation helps to reduce frictional heat and improves cutting performance

INCREASES PRODUCTIVITY

Faster cutting and reduced machine wear increases efficiency

ENVIRONMENTALLY FRIENDLY

Products are biodegradable, safe for the operator to use, and do not contain harmful chemicals like chlorine and sulphur

SURFACES CAN BE WELDED AND PAINTED OVER



PROD NO	CONTAINER SIZE (LITER)	CONTAINERS PER CASE
1988851	5 liter	case of 2
1988852	25 liter	—
1988853	200 liter drum	—

Not recommended for use as a spray lubricant. Mix this product with water as recommended

RATIO	REFRACTOMETER
10:1 (10%)	3.5
15:1 (6.7%)	2.6
20:1 (5%)	1.7

SAW MASTER™

Synthetic Sawing Fluid

Specially formulated flood coolant for light to moderate-duty applications on ferrous metals and alloys

LONGER BLADE LIFE. FASTER CUTTING.

Lubricates and cools to get the most from your blade or tool

REJECTS MOST TRAMP OILS

Unwanted oils can be separated and removed to keep the fluid performing longer

EXCELLENT SUMP LIFE

Advanced anti-microbial agents control bacterial growth and prevent rancidity, which lowers fluid replacement costs

CAN BE USED IN MOST HARD WATER APPLICATIONS

Eliminates filtration problems and residue

SURFACES CAN BE WELDED AND PAINTED OVER

LOW TO NON-FOAMING



PROD NO	CONTAINER SIZE (LITER)	CONTAINERS PER CASE
1988854	5 liter	case of 2
1988855	25 liter	—
1988856	200 liter drum	—

Not recommended for use as a spray lubricant. Mix this product with water as recommended

RATIO	REFRACTOMETER
5:1 (20%)	6.4
10:1 (10%)	3.2
15:1 (6.7%)	2.4
20:1 (5%)	1.6

MACHINE CLEANER

Prepares Your Sump for the use of LENOX Sawing Fluids

CLEANS THE MACHINE BETWEEN CHARGES

Eliminates bacteria and fungi

EXTENDS THE LIFE OF THE SAWING FLUID

Helps loosen dirt and contaminants for easier removal and a cleaner system

PREVENTS CONTAMINATION WHEN CONVERTING FLUIDS

PROD NO	CONTAINER SIZE (LITER)	CONTAINERS PER CASE
1988857	5 litre	case of 2

For industrial use only. Mix this product with water as recommended



LUBE TUBE

Manually Applied Lubricant Stick

EXTREME PRESSURE LUBRICANT

Prevents the build-up of frictional heat

DESIGNED TO BE APPLIED TO BAND SAW BLADES AND OTHER CUTTING TOOLS

Improves overall tool life and productivity when sawing, drilling, milling, grinding, threading and tapping. Works well on abrasives (belts, sanding discs and pads)

CAN BE USED ON FERROUS AND NON-FERROUS METALS, ALUMINUM GATES AND RISERS, PLATES AND EXTRUSIONS

BIODEGRADABLE, NON-TOXIC AND NON-STAINING

PROD NO	CONTAINER SIZE		TUBES PER CASE
	OUNCES	GRAMS	
68020LNx	14.5	411.1	12



MICRONIZER®

Precision Lubricant Applicator

DESIGNED TO DELIVER A SMALL AMOUNT OF LUBRICANT

Aids in tooth penetration and chip formation, reducing heat and improving tool life

PRECISE FLUID PUMP AND AIR PRESSURE CONTROLS

Ensures the correct amount of lubricant is applied to the tool

A VARIETY OF NOZZLES ARE AVAILABLE

The LENOX Saw Nozzle is recommended for most sawing applications, and is standard on the one line unit (product no 68090)

RECOMMENDED FOR PRODUCTION SAWING OPERATIONS

For larger band saw machines using 1-1/4" (34mm) and wider blades



PROD NO	DESCRIPTION
68090	1 Line Unit w/LENOX Saw Nozzle, 32 oz. (.95 liter) reservoir and manual on/off switch
1770277	1 Line Unit w/Copper Nozzle, 32 oz. (.95 liter) reservoir and manual on/off switch

MICRONIZER, JR.

Lubricant Applicator

PORTABLE DESIGN FOR USE ON MANY APPLICATIONS

Strong mounting magnets hold unit in place, but allow it to be moved to different machines

FOR SMALLER BAND SAW MACHINES & OTHER MACHINE TOOLS

A clean, economical method of providing lubrication

CONVENIENT DESIGN

Choice of two reservoir capacities, 7 oz (200ml) or 37 oz (1.1 liter)

SEVERAL NOZZLE STYLES AVAILABLE



PROD NO	DESCRIPTION
68260	7 oz (200ml) Unit with copper nozzle, Shut-off valve and 6' (1.8m) of 1/4" (6mm) tubing
68160	7 oz (200ml) Unit with copper nozzle, Shut-off valve and 6' (1.8m) of 1/8" (3mm) tubing
68158	7 oz (200ml) Unit with flex nozzle, Shut-off valve and 6' (1.8m) of 1/8" (3mm) tubing
68161	37 oz (1.1 liter) Unit with copper nozzle, Shut-off valve and 6' (1.8m) of 1/4" (6mm) tubing
68159	37 oz (1.1 liter) Unit with flex nozzle, Shut-off valve and 6' (1.8m) of 1/4" (6mm) tubing

LENOX LUBE®

Clean, Synthetic Lubricant for Spray Applications

Advanced formula enables superior cutting performance when Minimum Quantity Lubrication (MQL) is required

EXTENDS TOOL LIFE

Extreme pressure lubricant reduces frictional heat, prevents chip welding, and delivers an excellent workpiece finish

CLEAN AND ENVIRONMENTALLY FRIENDLY

Synthetic, water-based formulation is safe for the shop and operator

REDUCES COSTS

No disposal costs and uses only ounces per day

OPTIMUM PERFORMANCE ON FERROUS METALS

Use with our MICRONIZER® systems to lubricate carbon/alloy steels and stainless steels. Works best on pipe and thin-walled tubing

SURFACES CAN BE WELDED AND PAINTED OVER

PROD NO	CONTAINER SIZE (LITER)	CONTAINERS PER CASE
1988858	5 liter	case of 2
1988859	25 liter	—
1988860	200 liter drum	—

Use this product as it comes from the container – do not mix with water.



C/AI LUBE

High Lubricity Formulation for Spray Applications

Synthetic oil formulated for cutting solids and structurals in a Near Dry Machining (NDM) application

WORKS EFFECTIVELY ON ALL TYPES OF MATERIALS

Use on a variety of steels and non-ferrous metals. Works well on large structural beams, small solids, and all shapes of aluminum (billets, plates and castings)

INCREASED PRODUCTIVITY

Enhances lubrication for higher cutting speeds and feed rates

EXTENDS TOOL LIFE

Enables tooth penetration and chip formation which decreases wear on the machine and blade

CONTROL COSTS

Decreases the volume consumed and lowers replacement costs when used with our MICRONIZER systems

PROD NO	CONTAINER SIZE (LITER)	CONTAINERS PER CASE
1988861	5 liter	case of 2
1988862	25 liter	—
1988863	200 liter drum	—

Use this product as it comes from the container – do not mix with water.



LENOX PROTOOL LUBE®

Extends Tool Life

A UNIQUE SYNTHETIC EMULSION DESIGNED TO INCREASE TOOL LIFE

For cutting, milling, reaming, tapping and drilling metal, wood and plastics

SHORTENS CUTTING TIME BY UP TO 50%

Provides smoother, cleaner cutting and dramatically longer blade life

REDUCES HEAT AND FRICTION

Water-soluble so it cleans up with water

BIODEGRADABLE AND NON-TOXIC

EASY TO USE, FLIP-TOP BOTTLE FITS IN YOUR TOOL BOX

PROD NO	CONTAINER SIZE (LITER)	CONTAINERS PER CASE
1988867	200 ml	case of 12
1988868	5 liter	case of 2

Use this product as it comes from the container – do not mix with water.



ANTI-SPATTER

Wipe Away Welding Spatter

REDUCE SECONDARY PROCESSING STEPS

Provides lubrication so spatter easily wipes away

SAFE TO USE

Non-toxic, non-explosive, non-combustible, and non-carcinogenic.

No silicone or chlorine. No CFCs.

PROTECTS JIGS AND FIXTURES

IMPROVES WELD JOINTS

SURFACES CAN BE WELDED AND PAINTED OVER



PROD NO	CONTAINER SIZE (LITER)	CONTAINERS PER CASE
1988864	1 liter	case of 6
1988865	5 liter	case of 2
1988866	25 liter	—

FLUID REFERENCE CHART

Properties and Applications

LENOX® METAL-WORKING FLUID	TYPE			METALS				APPLICATIONS					
	FLOOD COOLANT	SPRAY LUBRICANT	MANUAL APPLICATION	USE WITH SOLID METALS	USE WITH STRUCTURAL METALS	USE WITH FERROUS METALS	USE WITH NON-FERROUS METALS	BAND SAWING	CIRCULAR SAWING	DRILLING	TAPPING	MILLING	GRINDING
BAND-ADE®	•			•	•	•	•	•	•	•		•	
SAW MASTER™	•			•	•	•		•	•	•			•
LENOX LUBE®		•		•	•	•		•	•	•	•	•	•
C/AI LUBE		•		•	•	•	•	•	•	•	•	•	•
LENOX PROTOOL LUBE®			•	•	•	•	•		•	•	•		

LENOX METALWORKING FLUID	CHEMICAL PROPERTIES							
	TYPE	COLOR	BIOCIDES	RUST/ CORROSION INHIBITORS	CONTAINS MINERAL OR PETROLEUM OIL	CONTAINS CHLORINE OR SILICONE	CONTAINS SULFUR/ SULFONATES	CONTAINS CARCINOGENS
BAND-ADE	Semi-Synthetic	Translucent Pink	Yes	Yes	No	No	No	No
SAW MASTER	Synthetic	Translucent Pink	Yes	Yes	No	No	No	No
LENOX LUBE	Synthetic Emulsion	Translucent Green	Yes	Yes	No	No	No	No
C/AI LUBE	Synthetic Oil	Translucent Blue	No	Yes	No	No	No	No
LENOX PROTOOL LUBE®	Synthetic Emulsion	Translucent Yellow	Yes	Yes	No	No	No	No

LENOX METAL REMOVAL FLUID	PHYSICAL PROPERTIES						
	SOLUBILITY IN WATER	SPECIFIC GRAVITY (H ₂ O=1)	pH RANGE	VISCOSITY AT 72°F	FLASH POINT	FREEZING POINT	BOILING POINT
BAND-ADE	100%	1.02	8.8 - 9.2	43 SUS	None	-6°C/21°F	99°C/210°F
SAW MASTER™	100%	1.076	9.7 - 10.0	42.7 SUS	None	-12°C/10°F	99°C/210°F
LENOX LUBE	100%	1.015	7.8 - 8.2	60 SUS	None	-7°C/19°F	99°C/210°F
C/AI LUBE	Insoluble	0.823	N/A	121 SUS	COC 290°F	N/A	N/A
LENOX PROTOOL LUBE	100%	1.03	8.0 - 8.5	500 SUS	None	-25°C/-13°F	99°C/210°F

DILUTION RATIO*	FLUID CONTENT	WATER CONTENT	APPLICATIONS
5:1	20%	80%	Heavy-duty sawing, difficult milling
10:1	10%	90%	Moderate to heavy-duty sawing, drilling, tapping and milling
20:1	5%	95%	Light-duty work
30:1	3%	97%	Grinding, light-duty work

*Dilution ratios are for flood coolants only.
LENOX recommends 5:1 or 10:1, depending on the severity of the operation

TACHOMETER

Accurate Band Speed Measurement

Running at the proper band speed is essential for optimum tool life. Use this precision tool to calibrate band saw machine internal tachometer. Check band speeds on machines that don't have a tachometer



PROD NO	DESCRIPTION
62139	Tachometer

TENSION METER

Measures Band Tension

Properly tensioned band saw blades cut straighter, longer. Durable construction: made with lightweight cast aluminum. Easy to use: attach to blade, apply tension and read the PSI



PROD NO	DESCRIPTION
62126	Tension Meter

BLADE ALIGNMENT GAUGE

For Straight Cutting

Proper alignment is critical for straight cutting. Using this gauge allows for easy measurement of blade alignment, so proper adjustment of band guide assemblies can be made. Easy to use: clip the blade alignment to the back of the blade and use a machinist's square to see if the blade is perpendicular to the bed



PROD NO	DESCRIPTION
62125	Blade Alignment Gauge

TRAVERSE MASTER®

Measures and Reports Feed Rate

Optimize chip loads to achieve fast cutting without detrimental effects on blade life. Accurately achieve cutting rates recommended by LENOX SAWCALC®. Precision meter: provides readout of feed rate in inches (or millimeters) per minute. Powered by a 12v DC power supply or rechargeable battery pack (both included)



PROD NO	DESCRIPTION
62140	Traverse Master
62141*	Traverse Master

*(includes international plug adaptor)

REFRACTOMETER

Measures Sawing Fluid Concentration

IMPROVE FLUID EFFECTIVENESS

Maintaining the proper water to fluid ratio increases tool life and ensures longer fluid performance

EASY TO USE AND CALIBRATE

Calibrate with a drop of water, put a small amount of sawing fluid in the refractometer. A quick look through the lens shows the fluid ratio.

PROD NO	DESCRIPTION
68012	Refractometer



SAWCALC®

Cut Smart with SAWCALC - Web-Enabled Solution for Your Cutting Challenges

CUSTOMISED, ACCURATE RECOMMENDATIONS TO OPTIMISE BLADE LIFE

Identify the right LENOX blade for the job

Determine the correct parameters to satisfy your cutting goals

HIGHLY TECHNICAL, ENGINEERED SOLUTIONS

Built-in intelligence based on years of engineering experience

Over 35,000 metals and 9,000 band saws inside the program

FREE, EASY TO USE AND ALWAYS UPDATED

SAWCALC is updated regularly to include the latest machines, metals, and LENOX products

VISIT SAWCALC.COM
TO GET YOUR RECOMMENDATION TODAY!



THE LENOX GUARANTEE

Our products are backed by the LENOX limited warranty. We warrant that our products are free from defects in materials and workmanship and that these products will perform as described under normal use and service. This warranty of quality is valid for 90 days from confirmed date of purchase. Except as expressly set forth herein, LENOX makes no other warranties, express or implied, with regard to products, and expressly disclaims any warranty of fitness for a particular purpose. This warranty gives you specific legal rights and you may also have other rights which vary from state to state. Use our products only in accordance with LENOX instructions.

GENERAL SAFETY TIPS

LENOX is involved in the Voluntary Protection Program (VPP), designed to recognize and promote effective safety and health management. Our employees agree to participate in the program and work with management to assure a safe and healthful workplace under an established set of criteria. Several benefits to the VPP are the motivation to work safely, reduced workers' compensation costs and fewer lost workdays due to injuries. This all results in better quality and productivity.

We are also very concerned for the safety of the people using our products. Here are a few tips to remind you to use all safety measures to avoid any type of injury:

1. Tools can injure – handle with care.
2. When cutting through walls, be sure you're clear of electrical wires behind the wall.
3. Power tools can bind and kick back. Be sure to hold them firmly and keep yourself out of the recoil path.
4. Wear eye protection and other appropriate safety equipment when using tools.
5. Make sure ladders or staging are stable before using.
6. When using drilling accessories, a power tool with a torque limiting device is recommended.
7. Use power tools in accordance with manufacturers' instructions and recommendations for accessories.

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