

PRODUCT CATALOG

BAND SAW BLADES

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UPBLADE WITH LENOX

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BAND SAW

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asia@lenoxtools.com



manunin

WHAT'S UPBLADE?

If you use a LENOX blade you might already know. But UpBlade is more than just upgrading to the best blades in the market, UpBlade is a continuous commitment to being better. When you switch to LENOX you don't just UpBlade your blade, you UpBlade your tools, your cuts, your capabilities.

minunin



WHEN CUTTING IS WHAT YOU DO, THE BLADE YOU CHOOSE BECOMES EVEN MORE IMPORTANT.

You're only as efficient as your blade allows you to be. That's why we make sure our band saw blades cut faster and last longer, with the lowest cost per cut—making your operations more competitive. And with our tech reps making sure that our blades are always working at their optimal level, you'll spend more time cutting and less time changing blades. If you don't believe us, talk to your LENOX® representative about taking the UpBlade Challenge.

YOUR CAPABILITIES

THERE'S ONLY ONE PART OF YOUR SAW THAT ACTUALLY MAKES THE CUT — THE BLADE.

So you could have the best power tools and machines in the world, but they'll only be as good as the blades you put in them. And even though it might only be part of your job, if your blade isn't making the cut, the whole job pays the price. From our reciprocating saw blades to our carbide band saw blades, our products are always at the forefront of innovation and quality. Our blades are faster and more efficient, allowing you to unlock your full potential.







HAVING THE BEST BLADES IS ONLY PART OF THE EQUATION.

To truly UpBlade, you must also improve yourself. That's why we've developed the LENOX Institute of Technology (LIT).

We provide our Technical Service Reps, distributor partners and consumers with hands-on training by expert instructors who have years of LENOX experience and application knowledge. Because our blades are only as good as the hands that wield them, LIT helps us make sure those hands are amongst the best in the business.

PARTY OF TAXABLE PARTY

OUR UPBLADE HERITAGE.

The word UpBlade represents a mindset that LENOX® has lived by from day one. For nearly 100 years we've led the industry through many changes and innovations, and our blades have consistently remained on top. You saw this reflected in *HACKMAN®* as he toured the world facing bigger challenges at every stop—returning to us with insights that helped improve our blades' designs. And you see it with the challenges we put before our blades in our One Blade campaign. Challenges such as cutting 8 cars with a single blade. As we push our blades to the limit we UpBlade not only their achievements, but your perception of what one blade is capable of. UpBlade is the reason LENOX makes the best blades in the market. Because we're not satisfied with being the best. We're working hard every day to get even better.



COMMITTED TO BEING BETTER FOR NEARLY 100 YEARS











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Carbide Speed Chart



LENOX

SELECTING CARBIDE TIPPED 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: ARMOR® CT BLACK 16' x 1-1/4" x .042" 2.5/3.4 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

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®)	
	MA	CHINABIL	ITY				\longrightarrow	DIFFICULT		
	ARMOR® CT BLACK			ARN	<i>IOR®</i> CT BL	ACK Extreme Cu	utting Rates			
		LENDX MAX CT [™] Maximum Performance on Aerospace Alloys								
TRI-TEC	HCT™		TRI-TECH CT [™] Set Style Blade for Difficult to Cut Metals							
VERSA	VERSA PRO™ Versatile Carbide Tipped Blade for General Purpose Cutting									
TRI-MA		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 <		MACHINAE	BILITY	DIFFICULT
			LENOX HRC [®] Carbide Tipped Blade fo	r Case and Through-Hardened Materials
Cast MAST Cast MAST	ER™ ER™ XL / XLE	Superior Performance When Sawing Castings		
	TRI-M.	ASTER®		
	MASTER-GRIT®		MASTER-GRIT® Carbide Grit Edge Blade	e for Cutting Abrasive and Hardened Materials

Note: We can provide solutions for many cutting applications not listed here. Please contact local Lenox Technical support for customized advice.

MAAAA

CARBIDE TOOTH SELECTION



LENOX MAX CT[™] • LENOX CAST MASTER XL • LENOX CAST MASTER XLE • LENOX VERSA PRO

	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+
												0.6	/0.8	
0.9/1.1														
										1.0,	/1.4			
								1.4/	/2.0					
				2/3										
			3/4											

ARMOR® CT BLACK

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				
	1.8/2.0													
2.5/3.4														

TRI-TECH CT™

	WIDTH OR DIAMETER OF CUT													
INCHES	1	2	3	4	5	6	7	8	10	10	14	16	18	20+
MM	25	50	75	100	125	150	175	200	250	275	350	400	450	500+
0.6/0.8														
											0.9	/1.1		
								1.4/	/2.0					
1.8/2.0														
	2.5/3.4													

TRI-MASTER® • LENOX HRC® • CAST MASTER™

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

Note: Aluminum and other soft materials cut on machines with extremely high band speed may change your tooth selection. Please contact local Lenox Technical support for customized advice.

WHAT IS WAVE TECH[™]?



This enhanced mechanical design promotes more efficient tooth penetration and chip formation, easily cutting through the work hardened zone. The **WAVE TECH™** symbol denotes any product that can be **WAVED**. Consult your LENOX Technical Representative to determine if **WAVE TECH™** will benefit your operation.





ARMOR® CT BLACK

For Extreme Cutting Rates



ALLER DE LE

Lange

ARMOR COATING PROVIDES FASTER CUTTING AND HIGHER PRODUCTIVITY

Aluminum, Titanium and Nitrogen (AITiN) combine to form a tough coating that protects each tooth from heat and wear with an armor-like 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 T	HICKNESS	TPI			I.		
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	•	•				



LENOX *MAX CT™*

Maximum Cutting Performance on Aerospace Alloys

EXCEPTIONAL BLADE LIFE

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

Next generation welding technology prevents premature tooth loss

FASTER, STRAIGHTER CUTS

Aggressive rake angles aid in tooth penetration in difficult to cut metals

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 T	HICKNESS		т	PI	
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 .063	54 x 1.60	•	•	•	•
2-5/8 x .063	67 x 1.60	•	•	•	
3 x .063	80 x 1.60	•			



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

IN	MM	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	•			

трі

+=Extra heavy set available to prevent blade pinching





APPLICATION

Aluminum /Non-Ferrous Stainless Steels Tool Steels Titanium Alloys Nickel-based Alloys





APPLICATION

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





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

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

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 TI	HICKNESS			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	•				



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

тоотн WIDTH X T	FORM HICKNESS	VARI-T T	'OOTH® PI	STANDARD 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	•	•	



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

APPLICATION

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





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

4 4 4 4 4

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 teeth designed for cutting aluminum and non-ferrous parts

Precision grind on the rake face prevents material build up on 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 T	HICKNESS		трі	
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)

CAST MASTER™ XL

Superior Performance in High Speed Aluminum Cutting Application

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 TH	ICKNESS		TPI	
IN	MM	0.6/0.8	0.9/1.1	1.4/2.0
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	•	٠	

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



2110

NO	Aluminum/ Non-Fer
CAT	Castings
APPLIC	Gates & Risers

Wood Composites





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

тоотн WIDTH X TI	FORM HICKNESS	VARI-T	DOTH® Pl	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

GRIT EDGE PF WIDTH X TI	REPARATION		GULLETED	CONTINUOUS				
IN	MM	MED	MED COARSE	COARSE	MED	COARSE		
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		•	•	٠	•		
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

	MATERIALS		ARMC BL/	<i>)R®</i> CT ACK	LENOX /	МАХ СТ™	″ TRI-TECH™ VERSA		A PRO™ TRI-MASTER®			[®] CAST MASTER™		LENOX HRC®		
	ТҮРЕ	GRADE	FPM	МРМ	FPM	МРМ	FPM	MPM	FPM	МРМ	FPM	МРМ	FPM	МРМ	FPM	МРМ
	Aluminum Allovs	2024, 5052, 6061, 7075			3,500- 8,500*	1000-	3,500 - 8,500	1,000 - 2,600	3,500- 8,500*	1000-	3,500- 8,500*	1000-	3,500- 8,500*	1000-		
	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	240 300 220 180	75 90 65 55	210 295 200 160	65 90 60 50	210 295 200 160	65 90 60 50	280	85
eels up to 61 Rc.	Bronze Alloys	AMPC0 18 AMPC0 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 91	205 180 115 300 200 220 300 300	60 55 35 90 60 65 90 90	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		
rbon st	Brass Alloys	Cartridge Brass Red Brass (85%) Naval Brass			260 230	80 70	240 230	73 70	260 230	80 70	220 200	65 60			220 200	65 60
ened cai	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				
arde	Structural Steel	A36	350	105			250	76			250	75			270**	80
se h	Low Carbon Steels	1030	290	90			240	73			240	75			250**	75
d ca	Medium Carbon Steels	1035 1045	285 275	85 85			230 220	70 67			230 220	70 65			240** 230**	75 70
ned an	High Carbon Steels	1060 1080 1095	260 250 240	80 75 75											200** 195** 185**	60 60 55
ardei	Mn Steels	1541 1524	260 240	80 75												
y for he	Cr-Mo Steels	4140 41L50 4150H	300 310 290	90 95 90			220 250	67 76								
Typicali	Cr Alloy Steels	6150 52100 5160	315 300 315	95 90 95			190 190	58 58								
FPM. **	Ni-Cr-Mo Steels	4340 8620 8640 E9310	300 310 305 315	90 95 95 95			190 190	58 58								
350	Low Alloy	L-6	300	90	240	75	240	73	240	75	190	60				
and	Water-Hardening Tool	W-1	300	90	240	65	220	67	240	65	175	55				
en 275	Cold-Work Tool Steel	D-2	240	75	210	65	210	64	210	65	170	50				
betwe	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	230 220 160	70 65 50	185 175 130	55 55 40				
run	Hot Work	H-13 H-25	240	75	220	55	220	67	220	55	175	55				
aws	Oil-Hardening Tool	0-1	260	80	240	75	240	73	240	75	190	60				
l cutting s	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	110 105 100 80	35 30 30 25	90 85 80 65	25 25 25 20				
neta	Mold Steels	P-3	300	90	200	60	200	61	200	60	160	50				
For	Shock Resistant Tool	S-1	220	65	100	30	100	43		50	130	40				
· Minute *	Stainless Steels	304 316 410,420 440A	260 240 290 250	80 75 90 75	220 180 250 200	65 55 75 60	190 180 250 200	58 55 76 61	220 180 250 200	65 55 75 60	155 125 175 140	45 40 55 45			220 180 250 200	65 55 75 60
rs Pei	Precipitation Hardening Stainless Steels	17-4 PH 15-5 PH	300 300	90 90	160 140	50 45	160 160	49 49	160 140	50 45	110 100	35 30			160 140	50 45
Wete	Free Machining Stain- less Steels	420F 301	340 320	105 100	270 230	80 70	270 230	82 70	270 230	80 70	190 160	60 50			270 230	80 70
N=	Nickel Alloys	Monel® K-500 Duranickel® 301			90 80	25 25	90 80	27 24	90 80	25 25	90 80	25 25				
I MPI	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	80 75 90	25 25 25				
Per Minute	Nickel-Based Alloys	Inconel® 600, Inconel718 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 25	105 100 105 105 100 105	32 30 32 32 30 32 30 32	85 85 115 75 75	25 25 35 25 25	85 85 115 75 75	25 25 35 25 25 25				
set l	Titanium Alloys	CP Titanium	230	70	180	55	180	55	180	55	150	45				
$FPM = F_{6}$	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		10	100	33	100	10	130	40				





BI-METAL BAND SAW BLADES

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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® 16' x 1-1/4" x .042" 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.

FOR ASSISTANCE, CONTACT LENOX TECHNICAL SUPPORT 400-820-2740.

PRODUCTION SAWING

ALUMINUM NON-FERROUS	CARBON STEELS	STRUCTURAL STEELS	ALLOY STEELS	BEARING STEELS	MOLD STEELS	TOOL STEELS	STAINLESS STEELS	TITANIUM Alloys	NICI Alloy	KEL-BASED 'S (INCONEL®)			
EASY <			M		ТҮ				\rightarrow	DIFFICULT			
QXP ⁷	М			QXP"	Long Life. Fa	ist Cutting							
				CONTESTOR GT [®] Long Life. Straight Cuts									
				CONTESTOR XL™ High Performance Sawing of Large, Difficult to Cut Metals									
	LENOX R. B	x®+ Structurals/ undles											
	HRX™ Opti Beams and H	mized to Cut Large eavy Walled Tubes					HRX™						
	ARMOR® Structu	Rx®+ Long Life. rals/Bundles											
Q88+™ Next Gen	eration Multi-p	urpose Blade											
CLASSIC® / CL	ASSIC+™ 3/	4" and Wider Blades				т							
DIEMASTER 2®	1/2" and Wide	r Blades		DIEMASTER 2®									

Note: We can provide solutions for many cutting applications not listed here. Please contact local Lenox Technical support for customized advice.



BI-METAL TOOTH SELECTION

- 1. Determine the size and shape of material to be cut.
- 2. Identify the chart to be used (square solids, round solids, or tubing/structurals).
- 3. Read teeth per inch next to material size.

SQUARE	QUARE/RECTANGLE SOLID Locate width of cut (W)														(W)				
	WIDTH OF CUT																		
IN	.1 .2	2.3	.4 .	5.6	.7 .8	3.9	1	2	5	10		15	20	25	30	35	40	45	50
MM	2.5 5	75	10 1	2.5 15	175 2	0 22.5	25	50	125	250		375	500	625	750	875	1000	1125	1250
TPI	14/18	10/14	8/12	6/10	6/8	8 5/8	4/6		3/4 2/	3 1.5/2	.0 1.4/2.	0	1.0	/1.3			0.7/	1.0	



TUBING, STRUCT	/PIPE URAL	/ .s Loca	ate wa	III thick	kness (T)	1			(\bigcirc	Wa	ll thick	T		T
					WAL	L THIC	KNES	S							
IN	.0	5.1	10 .'	15 .	20 .25	.30	.40	.50	.60	.70	.80	.90	1	1.5	2
MM	1.2	25 2	.5 3	.75 5	5 6.2	5 7.5	10	12.5	15	17.5	20	22.5	25	37.5	50
TPI	14/18	10/14	8/12	6/10	6/8 5/8		4/6				3/4			2/3	

BUNDLED/STACKED MATERIALS:

To select the proper number of teeth per inch (TPI) for bundled or stacked materials, find the recommended TPI for a single piece and choose one pitch coarser to cut the bundle

WHAT IS POWER BLAST TECHNOLOGY®?



Peening process commonly used in the aerospace and automotive industries to add a layer of compressive stress to the surface of the metal

This prevents cracks from surfacing, which can cause blade failure

LENOX has been peening Band Saw blades for over 9 year



*QXP***TM**

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 TH	HICKNESS	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		•	•	٠	•						
2 x .063	54 x 1.60	•	•	•	٠	•						
2-5/8 x .063	67 x 1.60	•	•	•								
3 x .063	80 x 1.60	•										

*=without PowerBlast





B s M els S f t

Bearing Steels Mold Steels Stainless Steels Tool Steels

MALLANDIAL AND A

AAAAAA





LONG LIFE. SMOOTH CUTTING. BLADE AFTER BLADE. GUARANTEED.*

*The recommended **POWER BLAST TECHNOLOGY**

Blade will outperform your current product or your money back. Contact your LENOX Technical Sales Representative for more information.

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 longer, narrower chips

High rake angles reduce cutting forces

OPTIMIZED DESIGN FOR STRAIGHTER CUTS ON LARGE BLOCKS Shallow gullet construction increases beam strength

WIDTH X T	HICKNESS	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			•	•	٠					
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®)





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

WIDTH X TH	ICKNESS		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				•	٠	٠					
1-1/4 x .042	34 x 1.07			•		٠						
1-1/2 x .050	41 x 1.27			•			•					
2 x .063	54 x 1.60			٠	•	٠						
2-5/8 x .063	67 x 1.60	•	•	•	•							
3 x .063	80 x 1.60	•	٠	٠								

= Milled tooth
= Ground tooth



APPLICATION

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

asia@lenoxtools.com



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 TH	ICKNESS	ТРІ				
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	•	♦ †			

t = Extra heavy set available to prevent blade pinching

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 TI	HICKNESS	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			٠		٠	•	•				
1 x .035	27 x 0.90				•		•	•				
1-1/4 x .042	34 x 1.07	٠	♦ †	+ †		٠						
1-1/2 x .050	41 x 1.27	♦ †	+ †	+ †		•						
2 x .050	54 x 1.27	٠	♦ †	٠		٠						
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





HRX ™

Optimized to Cut Large Beams and Heavy Walled Tubes





LONG BLADE LIFE WHEN CUTTING LARGE STRUCTURAL BEAMS Designed to resist stripping teeth (Patent Pending) POWER BLAST TECHNOLOGY® strengthens the blade to minimize breaks

STRAIGHT CUTS THROUGH WIDE CROSS SECTIONS

Designed to improve chip flow and reduce blade deflection for cutting efficiency

Tooth geometry designed to minimize edge chipping and crooked cuts

WIDE KERF LIMITS PINCHING IN LARGER BEAMS

Alternating set teeth widen the cutting channel to limit blade pinching



WIDTH X T	HICKNESS		ТРІ								
IN	ММ	1.4/2.0	2/3	3/4	4/6	5/7					
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	•	♦ †	♦ †							

t= Extra Heavy Set available

14 111

Angle Iron Carbon Steel Stainless Steel Structural Steel

APPLICATION



LENOX Q88+™ Next Generation Multi-Purpose Blade



NEXT GENERATION MULTI-PURPOSE BLADE FOR PRODUCTION CUTTING Cuts a wide range of metals from low carbon steels to higher strength alloys

Smooth, straight cuts when cutting multiple pieces or wide cross sections

EXCEPTIONAL BLADE LIFE

Proprietary *POWER BLAST TECHNOLOGY®* increases fatigue life & minimizes band breaks

CONSISTENT PERFORMANCE CUT AFTER CUT

Advanced tooth geometry and set minimizes noise & vibration from the very 1st cut

TOOTH WIDTH X T	FORM HICKNESS		ТРІ									
IN	MM	1.0/1.3	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 .063	54 x 1.60	•	•	♦ †	♦ †							
2-5/8 x .063	67 x 1.60	•	•	♦ †								

t = Extra heavy set available to prevent blade pinching

N		
Ē	Carbon Steels	Stainless Steels
2	Alloy Steels	Tool Steels
d l	Mold Steels	Structural Steels
AP	Aluminum/N	lon Ferrous





LONG LIFE. SMOOTH CUTTING. BLADE AFTER BLADE. GUARANTEED.*

*The recommended **POWER BLAST TECHNOLOGY** [®] Blade will outperform your current product or your money back. Contact your LENOX Technical Sales Representative for more information.

LENOX *CLASSIC*+[™]

Optimized for Multi-Purpose Cutting Applications



LONG BLADE LIFE IN GENERAL PURPOSE CUTTING APPLICATIONS

POWER BLAST TECHNOLOGY® strengthens the blade to increase durability

Enhanced chamfer on the back edge of the blade minimizes band breaks

EFFECTIVELY CUTS A WIDE RANGE OF SOLID AND STRUCTURAL METALS

M42 High Speed Steel tooth edge provides superior heat and wear resistance

Advanced tooth geometry and set pattern reduces stripped teeth

EXCEPTIONAL VALUE AND PERFORMANCE

Made in the USA with high quality components

Extended tooth face makes it easier to sharpen



ТООТН F WIDTH X THI	ORM CKNESS	TUFF TOOTH™ TPI				
IN	MM	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	•	•	•		

Carbon Steels Structural Steels Alloy Steels

APPLICATION

Bearing Steels Mold Steels Aluminum/Non-Ferrous





LENOX CLASSIC®



DESIGNED FOR LONG LIFE IN GENERAL PURPOSE CUTTING APPLICATIONS Patented design reduces tooth strippage

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

ТООТН WIDTH X TH	FORM IICKNESS	ноок трі	POSITIVE RAKE ANGLETPI		WAVY TPI			
IN	MM	3	4/6	5/8	6/10	8/12	10/14	18
3/4 x .035	19 x 0.90	•	•	•	•	•	•	•
1 x .035	27 x 0.90			•	•	•	•	
1-1/4 x .042	34 x 1.07			•	•	٠		

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

тоотн WIDTH X T	I FORM HICKNESS		VARI-	гоотн грі	тм		STAN T	NDARE I PI	נ		HOOK TPI		z		
IN	MM	6/10	8/12	10/14	14/18	10	14	18	24	3	4	6	밑	Aluminum/	Alloy Steels
1/4 x .025	6.4 x 0.64			•	•							•	I	Non-Ferrous	Stainless Steels
1/4 x .035	6.4 x 0.90			٠								٠	2	Carbon Steels	Tool Steels
3/8 x .025	9.5 x 0.64			•	•								6	Structural Steels	Wood
3/8 x .035	9.5 x 0.90					•					•	•	A		
1/2 x .020	12.7 x 0.50			*	*		*	*	*						
1/2 x .025	12.7 x 0.64	•	•	•	•		•	•			٠	•			
1/2 x .035	12.7 x 0.90			•		٠				•	•				

★ = Matrix edge



BI-METAL SPEED CHART

MATERIALS **BAND SPEED** FEET/ **METER**/ ТҮРЕ GRADE MIN MIN Aluminum Alloys 2024, 5052, 6061, 7075 300+ 85+ CDA 220 CDA 360 Cu Ni (30%) Be Cu 210 295 200 160 65 90 60 50 Copper Alloys AMPCO 18 AMPCO 21 AMPCO 25 180 160 110 290 150 215 55 50 35 90 45 65 85 75 ALUMINUM / NON-FERROUS Leaded Tin Bronze Al Bronze 865 Mn Bronze 932 Bronze Alloys 280 937 250 Cartridge Brass, Red Brass (85%) Naval Brass 220 200 65 60 Brass Allovs 1145 1215 12L14 270 325 350 80 100 105 Leaded, Free Machining Low Carbon Steels 1008, 1018 1030 270 250 80 75 Low Carbon Steels CARBON STEELS 1035 240 75 70 Medium Carbon Steels 1045 230 1060 1080 200 195 60 60 High Carbon Steels 1095 185 55 STRUCTURAL STEEL 250 Structural Steel A36 75 1541 1524 200 170 60 50 Mn Steels 70 70 60 4140 225 41L50 4150H 235 200 Cr-Mo Steels ALLOY 190 195 6150 60 60 STEEL Cr Allov Steels 5160 4340 8620 195 215 60 65 55 50 Ni-Cr-Mo Steels 185 160 8640 E9310 **BEARING STEEL** Cr Alloy Steels 52100 160 50 180 165 P-3 P-20 55 50 MOLD STEEL Mold Steels 115 90 135 80 70 304 35 25 40 25 316 410, 420 440A Stainless Steels STAINLESS 440C 20 STEEL 17-4 PH 15-5 PH Precipitation Hardening Stainless 70 70 20 20 150 125 420F 45 40 Free Machining Stainless Steels 301 Low Alloy Tool Steel L-6 145 45 Water-Hardening Tool Steel W-1 145 45 Cold-Work Tool Steel D-2 90 25 A-2 A-6 A-10 150 135 100 45 40 30 Air-Hardening Tool Steels 140 90 H-13 H-25 40 25 Hot Work Tool Steels TOOL STEEL 0-1 0-2 140 135 40 40 Oil-Hardening Tool Steels 105 95 90 60 M-2, M-10 M-4, M-42 30 30 25 20 High Speed Tool Steels T-1 T-15 140 125 S-1 S-5, S-7 40 40 Shock Resistant Tool Steels CP Titanium Ti-6AI-4V 85 65 25 20 TITANIUM ALLOY Titanium Alloys Monel[®] K-500 Duranickel 301 70 55 20 15 Nickel Alloys 25 15 20 A286, Incoloy® 825 80 Iron-Based Super Alloys Incoloy[®] 600 Pyromet X-15 55 70 NICKEL BASED Inconel® 600, Inconel® 718, Nimonic 90, NI-SPAN-C 902, RENE 41 Inconel® 625 Hastalloy B, Waspalloy Nimonic 75, RENE 88 ALLOY 60 60 80 55 50 20 20 25 15 15 Nickel-Based Allovs A536 (60-40-18) A536 (120-90-02) A48 (Class 20) A48 (Class 40) A48 (Class 60) 225 110 160 70 35 50 35 30 OTHER Cast Irons 115

VISIT SAWCALC.COM FOR CUSTOMIZED BAND SAW RECOMMENDATIONS

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

95

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 36)

Reduce the feed force/rate to achieve a cutting rate 50% to 80% 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 400-820-2740

WOODMASTER® BAND SAW BLADES

Woodmaster®B	39
Woodmaster®CT	40

WOODMASTER® B

Precision Engineered Bi-Metal Blades



CUTS FASTER AND LONGER THAN ONE-PIECE CARBON STEEL BLADES

Two-piece steel construction provides excellent blade life

INCREASED HEAT AND WEAR RESISTANCE Cobalt rich, high-speed steel tooth tips

INCREASED BEAM STRENGTH FOR LONGER FATIGUE LIFE

Durable spring steel backing material

DELIVERS CONSISTENT, RELIABLE PERFORMANCE

۱	NIDTH X TH	ICKNESS	KERF	TOOTH SPACING	1/2"	3/4"	7/8"	1"	1-1/4"	VARI- TOOTH®
	IN	ММ	IN	TPI	2	1.3	1.1	1	.78	1.0/1.3
	1 x .035	27 x 0.90	0.072		•	•				
	1-1/4 x .035	34 x 0.90	0.072			•	•	•		
	1-1/4 x .042	34 x 1.07	0.080			•	•	•		
	1-1/2 x .050	41 x 1.27	0.092				٠			
	2 x .042	54 x 1.07	0.085					•		
	2 x .050	54 x 1.27	0.092							•



WOODMASTER® CT

Carbide Tipped Blades For Optimum Performance



SMOOTH, PRECISE FINISH

Precision ground carbide tooth tips deliver the straightest cuts

ENGINEERED FOR EXTENDED LIFE AND OPTIMAL SPEED Effectively cuts exotic or difficult to machine wood

IDEAL FOR SPECIALTY WOOD APPLICATIONS

Designed to cut moulding, hardwood flooring, wood siding, paneling and other millwork applications

EXTREME CUTTING RATES. LONGER BLADE LIFE. MAXIMUM PRODUCTIVITY.

WIDTH X	THICKNESS	KERF	TOOTH SPACING 1/2" 3/4" V			VARI- TOOTH®
IN	MM	IN	TPI 2 1.3 .			.7/1
1 x .035	27 x 0.90	0.051		•	•	
2 x .035	54 x 0.90	0.051			•	
2 x .035	54 x 0.90	0.065				•
2 x .042	54 x 1.07	0.072				•
2 x .042	54 x 1.07	0.085				•

SAWING AND METAL WORKING FLUIDS

BAND-ADE® & SAW MASTER™	42
Aachine Cleaner & LUBE TUBE	43
/ICRONIZER® & MICRONIZER, Jr	44
ENOX LUBE® & C/AI Lube	45
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luids Reference Chart	47
achometer, Blade Alignment Gauge, Tension Met Refractometer & <i>TRAVERSE MASTER®</i> 4	ter, 48
SAWCALC [®]	49



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



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

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



RATIO	REFRACTOMETER
10.1 (10%)	3.5
15.1 (6.7%)	2.6
20:1 (5%)	1.7

NFPA CODE SPECS





RATIO	REFRACTOMETER
5.1 (20%)	6.4
10.1 (10%)	3.2
15:1 (6.7%)	2.4
20:1 (5%)	1.6

	CONTAINER SIZE		CONTAINERS	NEDA CODE EDECE		
PRODINO	GALLON	LITER	PER CASE	NFFA CODE SPECS		
68064	1	3.8	4	HMIS/WHMIS	FIRE	
68061	5	18.9	—	HEALTH INDEX – 1	HEALTH	
68062	55	208.2 drum	—	REACTIVITY – 0		
68063	275	1,040.9 tote	—	PERSONAL PROTECTION – A		

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

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



	CONTAINER SIZE		CONTAINERS			
PROD NO	GALLON	LITER	PER CASE	NFPA CODE SPECS		
68006	1	3.8	4	HMIS/WHMIS	FIRE	
				HEALTH INDEX – 1 FLAMMABILITY – 0	HEALTH	
For industrial use c	only. Mix this produc	t with water as recom	nmended	REACTIVITY – 0 PERSONAL PROTECTION – A	SPECIAL HAZARD	

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







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
1770276	1 Line Unit w/Flex 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
1770278	1 Line Unit w/LENOX Saw Nozzle, 32 oz. (.95 liter) reservoir and 110V solenoid valve
1770279	1 Line Unit w/LENOX Saw Nozzle, 32 oz. (.95 liter) reservoir and 220V solenoid valve
1770280	1 Line Unit w/Flex Nozzle, 32 oz. (.95 liter) reservoir and 110V solenoid valve
1770401	1 Line Unit w/Copper Nozzle, 32 oz. (.95 liter) reservoir and 110V solenoid valve
1770402	2 Line Unit w/LENOX Saw Nozzle, 32 oz. (.95 liter) reservoir and manual on/off switch
1770403	2 Line Unit w/Flex Nozzle, 32 oz. (.95 liter) reservoir and manual on/off switch
1770188	2 Line Unit w/Copper Nozzle, 32 oz. (.95 liter) reservoir and manual on/off switch
1770406	2 Line Unit w/LENOX Saw Nozzle, 32 oz. (.95 liter) reservoir and 110V solenoid valve
1770407	2 Line Unit w/Flex Nozzle, 32 oz. (.95 liter) reservoir and 110V solenoid valve
1770408	2 Line Unit w/Copper Nozzle, 32 oz. (.95 liter) reservoir and 110V solenoid valve

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

PROD NO

68260

68160

68258

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

SEVERAL NOZZLE STYLES AVAILABLE

DESCRIPTION
7 oz (200ml) Unit with copper nozzle, Shut-off valve and 6' (1.8m) of 1/4" (6mm) tub
7 oz (200ml) Unit with copper nozzle, Shut-off valve and 6' (1.8m) of 1/8" (3mm) tub
7 oz (200ml) Unit with flex nozzle, Shut-off valve and 6' (1.8m) of 1/4" (6mm) 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 use 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



	CONTA	INER SIZE	CONTAINERS	NEDA CODE SDECS				
PROD NO	GALLON	LITER	PER CASE	NFFA CODE SPECS				
68014	1	3.8	4	HMIS/WHMIS	FIRE			
68018	5	18.9	-	HEALTH INDEX – 0	HEALTH			
68017	55	208.2 drum	—	REACTIVITY – 0				
68016	275	1,040.9 tote	-	PERSONAL PROTECTION – A				

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



	CONTA	INER SIZE	CONTAINERS	NEDA				
PROD NO	GALLON	LITER	PER CASE	NFPA CODE SPECS				
68024	1	3.8	4	HMIS/WHMIS	FIRE			
68026	5	18.9	-	HEALTH INDEX – 0	HEALTH 1			
68025	55	208.2 drum	—	REACTIVITY – 0	REACTIVITY			
68028	275	1,040.9 tote	_	PERSONAL PROTECTION – A	SPECIAL HAZARD V			

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

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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



	CONTA	INER SIZE	CONTAINERS					
PRODINO	GALLON	LITER	PER CASE	NFFA CODE SPECS				
68064	6 oz	.17	12	HMIS/WHMIS	FIRE			
68061	1	3.8	4	HEALTH INDEX – 1	HEALTH			
68062	5	18.9	—	REACTIVITY – 0				
68063	55	208.2 drum	—	PERSONAL PROTECTION – A				

Use this product as it comes from the container—do not mix with water. MSDS available in hard copy or downloadable from lenoxtools.com

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



		CONTAINER SIZE	CONTAINERS	NED			
PRODINO	GALLON	LITER	PER CASE	NFPA CODE SPECS			
69041	33 fl oz	946 ml trigger spray bottle	12	HMIS/WHMIS	FIRE		
69039	1	3.8	4	HEALTH INDEX – 0	HEALTH		
69038	5	18.9	—	REACTIVITY – 0	REACTIVITY		
69037	55	208.2 drum	—	PERSONAL PROTECTION – A	SPECIAL HAZARD		

FLUID REFERENCE CHART

Properties and Applications

LENOX®	ТҮРЕ			METALS			APPLICATIONS						
WORKING FLUID	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				•		•					-		
LUBE®				•	-	-				-			

LENOY	CHEMICAL PROPERTIES									
METALWORKING FLUID	ТҮРЕ	COLOR	BIOCIDES	RUST/ Corrosion Inhibitors	CONTAINS MINERAL OR PETROLEUM OIL	CONTAINS Chlorine or Silicone	CONTAINS SULFUR/ SULPHONATES	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 0=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



62126	Tension Meter

DESCRIPTION

PROD NO

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 62125

DESCRIPTION **Blade Alignment Guage**

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 guick 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

CUSTOMIZED, ACCURATE RECOMMENDATIONS TO OPTIMIZE 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





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