

**YOU CUT STEEL.
WE CUT COSTS.**



LENOX SITE SURVEY

Identify Facility Goals, Metrics, Challenge and Bottlenecks



COMPREHENSIVE OPERATOR TRAINING

Lenox Team Designed and Led Course



MACHINE DIAGNOSTICS: LENOX 13 POINT INSPECTION

Critical Sawing Parameters Emphasis



PRODUCTIVITY & COST SAVINGS

Detailed Recommendations to Improve Productivity



MACHINE UTILIZATION OPTIMIZATION

Minimize Unplanned Downtime



SOLUTIONS & RESOURCES

Offer Sustainability to Realize Cost Savings and Improved Performance

SAWCALC[®] SOFTWARE

Cut Smarter. Web-Enabled Solution for Your Cutting Challenges

CUSTOMIZED, ACCURATE RECOMMENDATIONS

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[®] Software is updated regularly to include the latest machines, metals, and LENOX products.

VISIT SAWCALC.COM
FOR CUSTOMIZED BAND SAW RECOMMENDATIONS

WE OFFER MORE THAN JUST A BLADE



GUARANTEED TRIAL ORDER

The recommended blade will outperform your present blade or your money back – that's the LENOX Guaranteed Trial Order (GTO).

MACHINE TUNE-UP FOR THE BEST SAWING PERFORMANCE

A Factory Trained LENOX Technical Representative will perform a 13-point tune-up to optimize blade and machine performance.

SEMINARS INCREASE PRODUCTIVITY

Seminars offered at your facility to increase the efficiency of your operators and minimize downtime.

TECHNICAL SUPPORT BY PHONE

Answers to sawing questions are just a toll-free call away. LENOX Technical Service professionals will tell you the most appropriate blade for a job. Get tips on sawing and learn ways to make the job easier. The answers will save money and effort. Call 800-642-0010, E-mail: info@lenoxtools.com

Customer Service: 800-628-8810
Technical Support: 800-642-0010
lenoxtools.com

SAWING FLUIDS & LUBRICANTS

BAND-ADE[®] Semi-Synthetic Sawing Fluid

- Extends Blade Life
- Exceptional Cooling
- Increases Productivity



PROD NO	CONTAINER SIZE		
	GALLON	LITER	CONTAINERS PER CASE
68004	1	3.8	4
68005	2-1/2	9.5	2
68003	5	18.9	-
68001	55	208.2 drum	-
68007	275	1,040.9 tote	-

LENOX 100CF[™] Chlorine Free Water Soluble Oil for Heavy Duty Machine Applications

- Extremely Versatile
- High Lubricity
- Excellent Sump Life
- Chlorine Free



PROD NO	CONTAINER SIZE		
	GALLON	LITER	CONTAINERS PER CASE
1920851	1	3.8	4
1920852	5	18.9	-
1920853	55	208.2 drum	-
1920854	275	1,040 tote	-

LENOX LUBE[™] Synthetic Lubricant for Spray Applications

- Extends Tool Life
- Reduces Cost
- Optimum Performance on Ferrous Metals



PROD NO	CONTAINER SIZE		
	GALLON	LITER	CONTAINERS PER CASE
68014	1	3.8	4
68018	5	18.9	-
68017	55	208.2 drum	-
68016	275	1,040 tote	-

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301 Chestnut Street, East Longmeadow, MA 01028-0504 USA

SAW MASTER[™] Synthetic Sawing Fluid

- Longer Blade Life. Faster Cutting.
- Rejects Most Tramp Oils
- Excellent Sump Life



PROD NO	CONTAINER SIZE		
	GALLON	LITER	CONTAINERS PER CASE
68064	1	3.8	4
68061	5	18.9	-
68062	55	208.2 drum	-
68063	275	1,040.9 tote	-

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 Changes
- Extends the Life of the Sawing Fluid
- Prevents Contamination When Converting Fluids



BAND-ADE[®] and SAW MASTER[™] lubricants not recommended for use as spray lubricants. Mix with water as recommended.

PROD NO	CONTAINER SIZE		
	GALLON	LITER	CONTAINERS PER CASE
68006	1	3.8	4

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

C/AI[™] LUBRICANT High Lubricity Formulation for Spray Applications

- Works Effectively on All Types of Materials
- Increased Productivity
- Extends Tool Life
- Control Costs



PROD NO	CONTAINER SIZE		
	GALLON	LITER	CONTAINERS PER CASE
68024	1	3.8	4
68026	5	18.9	-
68025	55	208.2 drum	-
68028	275	1,040 tote	-

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

BI-METAL BANDSAW BLADES



BI-METAL BAND SAW BLADES

BI-METAL PRODUCT SELECTION

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										
			LENOX CLASSIC [®] 3/4" and Wider Blades					LENOX CLASSIC [®]		
			DIEMASTER 2 [™] 1/2" and Narrower Blades					DIEMASTER 2 [™]		

Note: We can provide solutions for many cutting applications not listed here. Please call LENOX Technical Support at 800-642-0010, or go to sawcalc.com.

BI-METAL TOOTH SELECTION

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

SQUARE/RECTANGLE SOLID Locate width of cut (W)

WIDTH OF CUT																					
IN	.1	.2	.3	.4	.5	.6	.7	.8	.9	1	2	5	10	15	20	25	30	35	40	45	50
MM	2.5	5	7.5	10	12.5	15	17.5	20	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	5/8	4/6	3/4	2/3	1.5/2.0	1.4/2.0	1.0/1.3	0.7/1.0								

ROUND SOLID Locate diameter of cut (D)

DIAMETER OF CUT																					
IN	.1	.2	.3	.4	.5	.6	.7	.8	.9	1	2	5	10	15	20	25	30	35	40	45	50
MM	2.5	5	7.5	10	12.5	15	17.5	20	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	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/PIPE/STRUCTURALS Locate wall thickness (T)

WALL THICKNESS															
IN	.05	.10	.15	.20	.25	.30	.40	.50	.60	.70	.80	.90	1	1.5	2
MM	1.25	2.5	3.75	5	6.25	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



BI-METAL BAND SAW BLADES

VISIT SAWCALC.COM FOR CUSTOMIZED BAND SAW RECOMMENDATIONS

BI-METAL SPEED CHART

Table with columns: MATERIALS (TYPE, GRADE), BAND SPEED (FEET/MIN, METER/MIN). Rows include Aluminum/Non-Ferrous, Carbon Steels, Structural Steel, Alloy Steel, Bearing Steel, Mold Steel, Stainless Steel, Tool Steel, Titanium Alloy, Nickel Based Alloy, and Other.

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

Table with columns: MATERIAL, BAND SPEED. Rows for 1/4" (6mm), 3/4" (19mm), 1-1/4" (32mm), 2-1/2" (64mm), 4" (100mm), 8" (200mm).

ADJUST BAND SPEED FOR DIFFERENT FLUID TYPES

Table with columns: FLUID TYPES, BAND SPEED. Rows for Spray lube, No fluid.

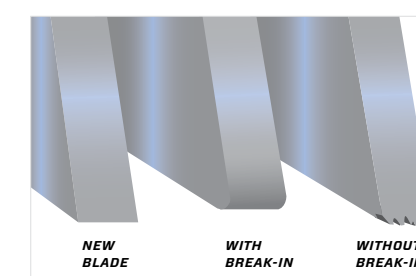
ADJUST BAND SPEED FOR HEAT TREATED MATERIALS

Table with columns: ROCKWELL, BRINELL, DECREASE BAND SPEED. Rows for Up to 20, 22, 24, 26, 28, 30, 32, 36, 38, 40.

Reduce band speed 50% when sawing with carbon blades

BLADE BREAK-IN

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



BI-METAL BAND SAW BLADES

DIEMASTER 2™ & LENOX CLASSIC®

Multi-Purpose Entry Level Blades

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

FOR GENERAL PURPOSE APPLICATIONS Utilize Diemaster 2 for hand-fed applications Utilize Classic for automated saws



Table with columns: WIDTH X THICKNESS, TOOTH FORM, VARI-TOOTH™ TPI, STRAIGHT PITCH TPI. Rows for 1/4", 3/8", 1/2", 1/2", 3/4", 1 x .035, 1-1/4 x .042.

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

Table with columns: WIDTH X THICKNESS, TPI. Rows for 3/4 x .035, 1 x .035, 1-1/4 x .042, 1-1/2 x .050, 2 x .063, 2-5/8 x .063, 3 x .063.

GENERAL PURPOSE

DECISION TREE

Table with columns: CLASSIC PRO™, QXP™. Rows for Higher Production Rates, Structural Sections, Aluminum, Large Tubes / Pipes.

G = GOOD B = BETTER



BI-METAL BAND SAW BLADES

LENOX RX+®

Engineered to Cut Structural, Tubing and Bundles

LONG BLADE LIFE AND EXTREME DURABILITY

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



QUIET CUTTING, REDUCED VIBRATION Optimized tooth pitch/set sequence

Table with columns: WIDTH X THICKNESS, TPI. Rows for 5/8 x .032, 3/4 x .035, 1 x .035, 1-1/4 x .042, 1-1/2 x .050, 2 x .063, 2-5/8 x .063, 2-5/8 x .063, 3 x .063.

≡ Matrix edge

†= Extra heavy set available to prevent blade pinching

ARMOR® RX+™

Engineered for Long Life

AIR IN 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 stripage at higher feed rates

Minimized harmonics and vibrations

Quiet cutting

HIGH PERFORMANCE BACKING STEEL

For longer fatigue life

Table with columns: WIDTH X THICKNESS, TPI. Rows for 1-1/4 x .042, 1-1/2 x .050, 2 x .063, 2 x .063.

†= Extra heavy set available to prevent blade pinching



BI-METAL BAND SAW BLADES

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

Table with columns: WIDTH X THICKNESS, TPI. Rows for 1 x .035, 1-1/4 x .042, 1-1/2 x .050, 2 x .063, 2 x .050, 2 x .063, 2-5/8 x .063, 3 x .063.

≡ Milled tooth

◆ = Ground tooth

WAVE TECH®

Blade Enhancement for Cutting Work Hardening Metals

ENHANCED CUTTING ABILITY

Engineered back edge enhancement creates a unique cutting action that increases tooth penetration without additional machine feed pressure

INCREASED BLADE LIFE®

Proprietary design balances the depth of penetration with cutting force to optimize chip load and reduce frictional wear Precision chamfer on the back edge of the blade reduces stress risers and minimizes band breaks

FASTER CUTTING RATES®

Design-induced rocking motion improves cutting efficiency and speed by breaking through the work hardening layer

*Vs. Standard LENOX band saw blades



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

Table with columns: WIDTH X THICKNESS, TPI. Rows for 1-1/4 x .042, 1-1/2 x .050, 2 x .063, 2-5/8 x .063, 3 x .063.

DIFFICULT TO CUT ALLOYS

DECISION TREE

Table with columns: CONTESTOR GT®, CONTESTOR XL™. Rows for Higher Production Saws, Higher Production Rates, Wider Cross Sections, Small Cross Sections (600mm and Less), Older Saws / Less Maintained, Mild Materials - Carbon Steels to Simple Stainless Steels, Harder Materials (Hot Work Tool Steels, Aerospace Materials), Surface Finish Requirement.

G = GOOD B = BETTER