

# TECHNICAL DATA SHEET

Morgan is closely inspecting the bi-metal blades after the hardening operation.

## BI-METAL BLADES FOR METAL

### M42 BI-METAL

- Standard products
- Special - MOQ may be required

Our M42 Bi-metal blades are made of the highest quality Cobalt M42 steel and are very suitable for sawing most materials.

#### ALLPOWER™



		Teeth/inch										
		3	4	6	2/3	3/4	4/6	5/8	6/10	8/12	10/14	
sizes (mm)	6 x 0.6			○							○	1/4 x .025
	6 x 0.9										○	1/4 x .035
	10 x 0.6			○							●	3/8 x .025
	10 x 0.9		●	○							●	3/8 x .035
	12 x 0.6	○	○	●					●	●	●	1/2 x .025
	12 x 0.9	○	●	●							●	1/2 x .035
	19 x 0.9	●	○				●	●	●	●	●	3/4 x .035
	27 x 0.9				●	●	●	●	●	●	●	1 x .035
	34 x 1.1				●	●	●	●	●	●		1 1/4 x .042
	41 x 1.3				●	●	●	●	●			1 1/2 x .050
	54 x 1.3				○	○						2 x .050
	54 x 1.6				●	●	●	●				2 x .063
	67 x 1.6				●	●	●					2 5/8 x .063

#### POWERMAX™



		Teeth/inch							
		1.3/2	2/3	3/4	4/6	5/7	8/11		
sizes (mm)	27 x 0.9			●	●	●	●	1 x .035	
	34 x 1.1		●	●	●	●	○	1 1/4 x .042	
	41 x 1.3	○	○	●	●	○		1 1/2 x .050	
	54 x 1.6	○	○	●	○			2 x .063	
	67 x 1.6		○	●				2 5/8 x .063	

#### COMMANDER™



		Teeth/inch				
		2/3	3/4	4/6		
sizes (mm)	27 x 0.9	●	●	●	1 x .035	
	34 x 1.1	●	●	●	1 1/4 x .042	
	41 x 1.3	●	●	○	1 1/2 x .050	
	54 x 1.6	●	●	○	2 x .063	

#### OPTIMIZER™



		Teeth/inch				
		1.25	0.8/1.3	1.3/2		
sizes (mm)	34 x 1.1	●			1 1/4 x .042	
	41 x 1.3	○		●	1 1/2 x .050	
	54 x 1.6	○	○	●	2 x .063	
	67 x 1.6		○	○	2 5/8 x .063	

### M51 BI-METAL

Our M51 bi-metal blades are made using a high-alloy backing material and an HSS M51 tooth tip.

#### PERFORMER™



		Teeth/inch					
		0.8/1.3	1.3/2	2/3	3/4	4/6	
sizes (mm)	27 x 0.9			○	●	●	1 x .035
	34 x 1.1			●	●	●	1 1/4 x .042
	41 x 1.3		●	●	●	○	1 1/2 x .050
	54 x 1.6	○	●	●			2 x .063
	67 x 1.6	○	●	○			2 5/8 x .063
	80 x 1.6	●	○				3 1/8 x .063

#### PERFORMER X™



		Teeth/inch				
		0.8/1.3	1.1/1.6	1.3/2		
sizes (mm)	41 x 1.3		○	○	1 1/2 x .050	
	54 x 1.6	○	○	○	2 x .063	
	67 x 1.6	○	○	○	2 5/8 x .063	
	80 x 1.6	○	○	○	3 1/8 x .063	

## CARBIDE BLADES FOR METAL

# CT CARBIDE

- Standard products
- Special - MOQ may be required

Blades tipped with Tungsten Carbide offer many advantages when cutting high hardness materials. They are more durable than conventional blades resulting in longer life and less time spent changing blades. In addition, they retain their sharpness better to give high performance for longer.

### RAPID CT10

		Teeth/inch					
		0.8/1.2	1.1/1.6	1.5/2	2/3	3/4	
sizes (mm)	27 x 0.9					○	1 x .035
	34 x 1.1				○	○	1 1/4 x .042
	41 x 1.3			○	○	○	1 1/2 x .050
	54 x 1.6			○	○		2 x .063
	67 x 1.6		○	○			2 5/8 x .063
	80 x 1.6	○	○				3 1/8 x .063

### RAPID CT20

		Teeth/inch					
		0.8/1.2	1.1/1.6	1.5/2	2/3		
sizes (mm)	34 x 1.1					○	1 1/4 x .042
	41 x 1.3			○	○		1 1/2 x .050
	54 x 1.6			○	○		2 x .063
	67 x 1.6	○	○	○			2 5/8 x .063
	80 x 1.6	○	○				3 1/8 x .063

### RAPID CT30

		Teeth/inch				
		2	3	1.5/2	2/3	
sizes (mm)	19 x 0.9		○			3/4 x .035
	27 x 0.9		○		○	1 x .035
	34 x 1.1	○	○	○		1 1/4 x .042

### RAPID CT40

		Teeth/inch		
		2/3	3/4	
sizes (mm)	27 x 0.9		○	1 x .035
	34 x 1.1		○	1 1/4 x .042
	41 x 1.3	○	○	1 1/2 x .050

# CARBIDE GRIT

Used for extremely hard material that cannot be cut using normal saw blades.











### CARBIDE GRIT - STRAIGHT EDGE

sizes (mm)	12 x 0.60		○	1/2 x .025
	19 x 0.80		○	3/4 x .032

### CARBIDE GRIT - GULLETED EDGE

sizes (mm)	12 x 0.60		○	1/2 x .025
	19 x 0.80		○	3/4 x .035
	25 x 0.90		○	1 x .035
	32 x 1.10		○	1 1/4 x .042

# BLADES BASED ON MATERIAL

Non Ferrous, Aluminum	Carbon steels	Structural steels	Alloy steels	Mold Steels	Stainless Steels	Duplex	Tool Steels	Titanium alloys	High temp steels, Inconel	Surface hardened	Application symbols	
Easy to cut						Difficult to cut						
	ALLPOWER				ALLPOWER							
	POWERMAX				POWERMAX							
	COMMANDER						COMMANDER					
	OPTIMIZER						OPTIMIZER					
					PERFORMER			PERFORMER				
					PERFORMER X			PERFORMER				
					CT-10							
		CT-20			CT-20							
CT-30												
									CT-40			
RECOMMENDED - VERY GOOD			CUTTING POSSIBLE									

## CARBON STEEL BLADES FOR WOOD

# FLEXBACK CARBON STEEL

- Standard products
- Special - MOQ may be required

Suitable for cutting not only wood but also aluminum, brass, bronze, cast iron, copper, lead, zinc, graphite, fiberglass, plastic, cork and other non-ferrous metals.

### SILCO™

		Teeth/inch								
		2	3	4	6	8	10	14	18	
sizes (mm)	4 x 0.63						●			3/16 x .025
	6 x 0.63			●	●	●	●	●	○	1/4 x .025
	10 x 0.63		●	●	●	●	●	●		3/8 x .025
	12 x 0.63		●	●	●	●	●	●	○	1/2 x .025
	12 x 0.81	○	●							1/2 x .032
	16 x 0.63			●						5/8 x .025
	16 x 0.81		●	●			●			5/8 x .032
	19 x 0.63		●							3/4 x .025
	19 x 0.81		●	●	●		●	●		3/4 x .032
	25 x 0.90	●	●	●	●		●			1 x .035
	31 x 1.07		●							1 1/4 x .042

### SILCO LOG™

		Pitch MM			
		19	22	25	
sizes (mm)	25 x 1.07	●			1 x .042
	31 x 1.07	○			1 1/4 x .042
	31 x 1.14	●	●		1 1/4 x .045
	38 x 1.07		●	●	1 1/2 x .042
	38 x 1.32		●	●	1 1/2 x .052
	51 x 1.07			●	2 x .042
	51 x 1.32			●	2 x .052

### HOBBY

		Teeth/inch			
		4	6	14	
sizes (mm)	6 x 0.36	●	●	●	1/4 x .014
	10 x 0.36	●	●		3/8 x .014
	16 x 0.36	●	●		5/8 x .014

### PALLET DISMANTLING BLADES

		Teeth/inch		
		5/8		
sizes (mm)	31 x 1,07	●		1 1/4 x .042

## BI-METAL BLADES FOR WOOD

# M42 BI-METAL

All the performance advantages of a bi-metal blade including long life and high speed cutting in specially manufactured HSS blades for log cutting.

### M42 LOG™ HSS

		Pitch MM			
		12	22	25	
sizes (mm)	27 x 0.9	●		●	1 x .035
	34 x 1.1		●	○	1 1/4 x .042
	41 x 1.3		●		1 1/2 x .050
	54 x 1.6			○	2 x .063

### PALLET DISMANTLING BLADES

		Teeth/inch		
		5/8		
sizes (mm)	34 x 1,07	●		1 1/4 x .042

Products on this page are only available in selected markets. Please contact Håkansson Sågblad for availability.

## CARBON STEEL BLADES FOR WOOD

# HARDBACK CARBON STEEL

Available in a range of TPIs and profiles, you can use these high carbon steel blades in both portable and fixed sawmills for many applications including: resawing, portable sawmills and pallets, wood, non-ferrous metals, mild steel and medium/high-density foams.

- **DR:** Dust Remover®
- 22.225 mm - 7° & 10°
- Standard products
- Special - MOQ may be required

### SILVER

	2 TPI	3/4 Pitch	7/8 Pitch	1 TPI	1-1/4 Pitch	mm
	12.7	19	22	25.4	28.6	
25 x 1.05		●				1 x .041
27 x 0.90	●					1 1/16 x .035
29 x 0.90	●	● ●				1 1/8 x .035
29 x 1.0		●				1 1/8 x .039
32 x 1.05		● ●	● ●	●		1 1/4 x .041
35 x 0.90			●	●		1 3/8 x .035
35 x 1.00			● ●			1 3/8 x .039
38 x 1.10			●			1 1/2 x .039
38 x 1.25			●	●		1 1/2 x .049
38 x 1.40			●	●		1 1/2 x .055
40 x 0.90			●			1 5/8 x .035
40 x 1.00			●			1 5/8 x .039
50 x 1.10			●	●		2 x .043
50 x 1.25			●	●		2 x .049
50 x 1.40			●	●	●	2 x .055

### SILVER CARPENTRY

	Positive			Neutral		
	3 TPI	4 TPI	6 TPI	N 8	N 10	
6 x 0.40		●				1/4 x .015
6 x 0.60		●	●			1/4 x .024
10 x 0.40		●	●			3/8 x .015
10 x 0.50		●				3/8 x .020
10 x 0.60		●				3/8 x .024
12.5 x 0.50		●				1/2 x .020
12.5 x 0.60	●	●				1/2 x .024
16 x 0.40			●			5/8 x .015
16 x 0.50		●				5/8 x .020
16 x 0.60	●	●	●	●		5/8 x .024
20 x 0.60	●	●				3/4 x .024
20 x 0.70				●		3/4 x .027
25 x 0.50		●				1 x .020
25 x 0.80		●				1 x .031
30 x 0.70					●	1 3/16 x .027

## BLADES FOR FOOD

# FOOD CUTTING

### PRIMECUT®

	Teeth/inch				mm
	3	4	6	10neg	
12 x 0.50		●			1/2 x .020
12 x 0.60	●	●		○	1/2 x .025
16 x 0.40		●			5/8 x .016
16 x 0.45		●			5/8 x .018
16 x 0.50	●	●			5/8 x .020
16 x 0.56	●	●			5/8 x .022
16 x 0.60	●	●	●		5/8 x .025
18 x 0.60				○	11/16 x .025
19 x 0.50	○	●			3/4 x .020
19 x 0.56	●	●			3/4 x .022
19 x 0.60	●	●			3/4 x .025
25 x 0.50		●			1 x .018

### SEACUT®

	Teeth/inch		mm
	3	4	
16 x 0.36	●		16 x 0.36
16 x 0.40	●	●	16 x 0.40

## SPECIAL BLADES

# BAND KNIVES

### STRAIGHT, SCALLOP / CONCAVE & WAVY EDGE

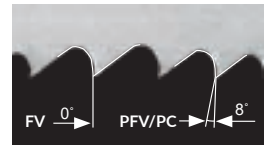
	Width x thickness		mm
	0.50		
10 x 0.45	●		3/8 x .018 - .020
15 x 0.45	●		5/8 x .018 - .020
20 x 0.45	●		3/4 x .018 - .020
25 x 0.45	●		1 x .018 - .020

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# M42 BI-METAL

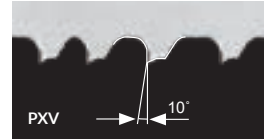
## ALLPOWER™

- Our most popular allround blade from workshops to heavy industrial cutting
- Suitable for production as well as non-production cutting
- Produced from HSS M42 edge and known for its consistency
- Tooth set: AR
- Positive cutting angle (8°) in pitches: Tooth profile: PC (Hook) 3, 4, 6, Tooth profile: PFV/PC 2/3, 3/4, 4/6 and 5/8
- Zero degree cutting angle (0°) in variable tooth pitches 6/10, 8/12 and 10/14. Tooth profile: FV



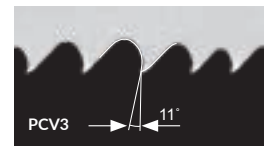
## POWERMAX™

- A completely different type of blade with a unique tooth design and setting pattern
- Results in high performance for interrupted cuts in structural steels like tubes, profiles and beams
- Shock resistant, reduces vibrations, noise level and tooth breakage
- Specially suitable for bundle cutting in one or multiple layers
- Tooth set: AR
- Tooth profile: PXV



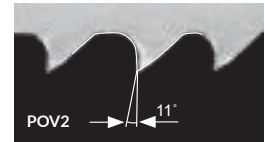
## COMMANDER™

- The suitable choice where high productivity is required
- Specially designed for optimal chip flow and increased cutting rate
- High wear resistance
- Produced from HSS M42 edge suitable for solid and tough materials
- Tooth set: AR
- Tooth profile: PCV III



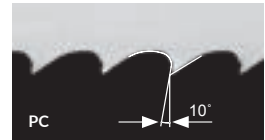
## OPTIMIZER™

- Specially designed tooth for improved chip flow
- For tough and demanding production cutting
- Fast cutting of wide cross sections of ferrous and non-ferrous metals
- High heat and wear resistance
- Increased blade life when sawing in material that can work harden if not consistently penetrated
- Tooth profile: POV II



## M42 LOG™

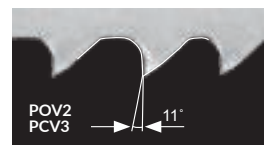
- For portable sawmills
- The suitable choice where high production is required
- Specially designed for optimal chip flow and increased cutting rate
- High wear resistance
- HSS edge for longer run time between regrinding
- Tooth set: RS



# M51 BI-METAL

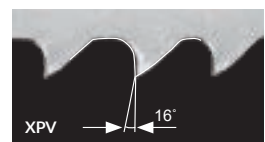
## PERFORMER™

- |                                 |                                  |                                 |
|---------------------------------|----------------------------------|---------------------------------|
| • M51 HSS tooth                 | • Long and reliable tool life    | • Higher cutting rate           |
| • Heavy set                     | • High shock resistance          | • Tooth set: AR                 |
| • High wear and heat resistance | • For difficult to cut materials | • Tooth profiles: POVII, PCVIII |



## PERFORMER X™

- |   |                                     |
|---|-------------------------------------|
| • For higher productivity on harder materials | • High shock resistance             |
| • Special tooth profile - 16°                 | • Suitable for high-alloy materials |
| • M51 HSS tooth                               | • Improved chip flow                |
| • Extra heavy set available                   | • Higher cutting rate               |
| • High wear and heat resistance               | • Tooth set: AR                     |
| • Long and reliable tool life                 | • Tooth profile: XPV                |



## CT CARBIDE

### RAPID CT10

- Carbide tipped band saw blade for cutting tool steels, high speed steels and stainless steels
- The unique tooth geometry results in better chip separation, low noise and high cutting rates
- For faster cutting and excellent finish

### RAPID CT20

- Carbide tipped band saw blade with unique setting
- For cutting materials with residual stress
- Suitable for titanium, titanium alloys, and Ni-Cr based alloys
- Ideal for wider / thicker profiles

### RAPID CT30

- Carbide tipped band saw blade developed for cutting non-ferrous materials and especially aluminum
- The fatigue resistant alloyed steel backing withstands the severe mechanical stress due to the high cutting speeds and feeds
- For high productivity and long blade life

### RAPID CT40

- Carbide tipped band saw blade with special design developed for cutting hardened and tempered or induction hardened materials
- For cutting materials with hardness between 50-60 HRC



## CARBIDE GRIT

### CARBIDE GRIT – STRAIGHT EDGE

- Instead of teeth, this saw blade has carbide grains soldered in place
- Used for extremely hard material that cannot be cut using normal saw blades
- Suitable for glass, fibreglass, titanium and nickel alloys



### CARBIDE GRIT – GULLETED EDGE

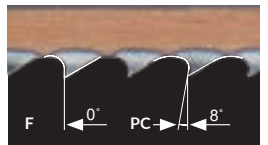
- Instead of teeth, this saw blade has carbide grains soldered in place
- Used for extremely hard material that cannot be cut using normal saw blades
- Suitable for composites, ceramics, wire, tyres and hardened steels



## FLEXBACK CARBON STEEL

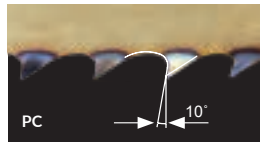
### SILCO™

- Suitable for cutting wood, aluminum, brass, bronze, cast iron, copper, lead, zinc, graphite
- Manufactured from high silicon steel
- High quality, flexibility and performance make the blade ideal for friction cutting
- Hardened tooth tip/flexible back
- Tooth set: AR



### SILCO LOG™

- Our most popular saw blade for portable sawmills
- Carbon steel with hardened teeth
- Produced from the best raw material with high silicon content
- Tooth set: RS



### HOBBY

- Extra flexible blade
- Specially designed for small bandsaw machines with small diameter wheels
- Tooth set: AR

## HARDBACK CARBON STEEL

Heat-treatment on both the hardened saw teeth AND blade back results in the ability to achieve higher levels of tension and superior performance.

- Higher cutting rates
- Higher tensile strength
- Superior fatigue resistance
- Increased feed rates
- Straighter cuts
- Longer life and re-sharpenable

### SILVER

- Ideal for cutting wood for pallets
- Variety of teeth configurations
- Manufactured from best strip steel
- Bi-metal options also available
- Higher portable sawmill performance
- Variety of teeth configurations



### SILVER CARPENTRY

- High performance carpentry blades
- Variety of teeth configurations
- Ideal for cutting different wood qualities and products



## FOOD CUTTING

### PRIMECUT®

- For cutting all types of fresh or frozen meat, including bones
- Manufactured from best strip steel available
- Special sharp tooth that easily cuts through all types of meat and bones
- Minimum of material waste
- Longer blade life



### SEACUT®

- For cutting frozen fish
- Manufactured from best strip steel available
- Special sharp tooth that easily cuts through all types of frozen fish
- Minimum of material waste
- Longer blade life



## BAND KNIVES

### STRAIGHT EDGE

- For cutting soft and fibrous type of material
- It produces a smooth finish without tearing or producing ragged edges



### WAVY EDGE

- For cutting cellulose sponge, bread, cake, rubber, seals, gaskets, leather, soft aluminum, corrugated stock, buffing wheels



### SCALLOP / CONCAVE EDGE

- For cutting same material as wavy edge
- Faster cutting performance, but somewhat rougher finish
- Hardened tooth tip



# ACCESSORIES

## TENSION METER

Correct band tension is essential for straight cut and prolonged blade life.



## REFRACTOMETER

Proper concentration of the cooling lubricants is of utmost importance for the cutting result.



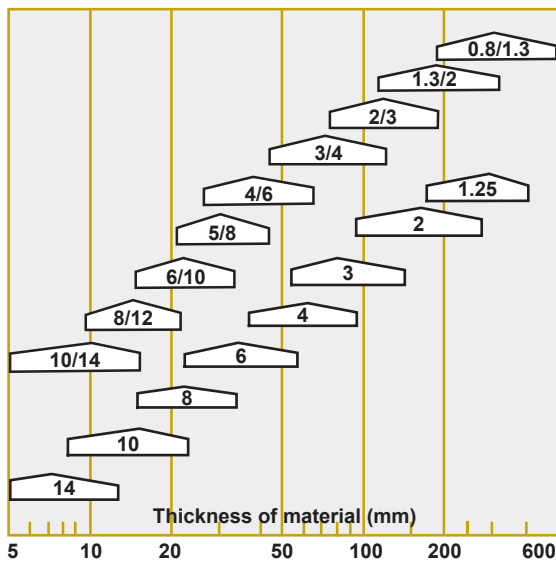
## TACHOMETER

Digital tachometer showing the band speed in feet/min as well as m/min.



# RECOMMENDED TOOTH PITCH.

## Solid work piece

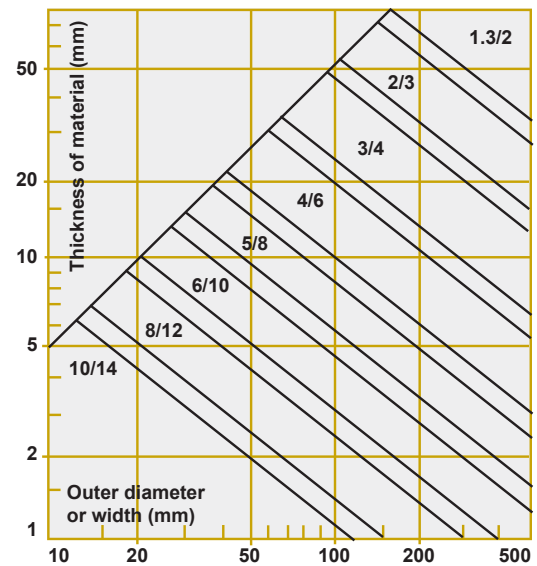


This diagram is a guide to help you chose the correct tooth pitch when cutting solid work pieces.

The very best choice is where the tooth pitch-area is at its widest.

When cutting soft materials such as wood, plastics, aluminum etc. choose a two-step coarser tooth pitch.

## Pipes and profiles



This diagram is a guide to help you chose the correct tooth pitch when cutting pipes and profiles. The very best choice is in the area, where a line from the outer diameter crosses a line from the thickness of the material.

When cutting profiles, choose the tooth pitch, where the line from the width of the profile crosses the line from the material thickness of the profile.

Can't see what you're looking for?

Contact us to find out about other options and customization possibilities to match your application.