

Catalog 2017/2018

BOENTGEN

Over 100 years experience in quality improvement -

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CONTENTS

THE COMPANY

OVER 100 YEARS EXPERIENCE

TECHNIQUE
TOOTH PITCHES 06
SET PATTERNS 07
TOOTH FORMS 07
APPLICATION AREAS
ICON EXPLANATIONS 08

BI-ALFA

BI-ALFA COBALT M42 10 **BI-ALFA PROFILE** 12 **BI-ALFA** PROFILE WS 14 **BI-ALFA** COBALT WS 16 **BI-ALFA** COBALT WS ALU 18 **BI-ALFA** COBALT RP 20 **BI-ALFA** MASTER 22 **BI-ALFA** RP MASTER 24 26 **BI-ALFA** COBALT M51 28 BI-ALFA COBALT M51 SUPREME **BI-ALFA** MASTER SUPREME 30

HM-TITAN

 HM-TITAN MU
 32

 HM-TITAN ALU2
 34

 HM-TITAN ALU3
 36

 HM-TITAN FORTE C
 38

 HM-TITAN B0
 40

 HM-TITAN MUSN
 42

 HM-TITAN SET
 44

RRR

RRR Plus 46

GRIT

Segmented 50
Continuously gritted 52

POWER HACKSAW BLADES

2-IKS | MOLY | MOLY7 | BI-ALFA 54

HAND HACKSAW BLADES

BI-ALFA | DURAX | 2-IKS | MOLY 55

SERVICE

Break-in procedure 56
Safety instructions 57
Accessories 58



BI-ALFA HM-TITAN RRR GRIT HACKSAW SERVICE Band Saw Blade Catalog

Product overview



TECHNIQUE



TOOTH PITCHES

The tooth pitch describes the number of teeth per inch. For combi toothing the first figure represents the largest distance between tooth tips and the second figure the smallest distance between tooth tips within one group.

CONSTANT TOOTH PITCH

This tooth pitch has a constant distance from tooth to tooth. It is very suitable for constant cross sections and non-ferrous materials.



COMBI TOOTH PITCH

The combi tooth pitch has different tooth tip distances within one toothing group. The application area of the band saw blade is increased and vibrations are reduced.



RECOMMENDATIONS FOR TOOTH SELECTION

for solid material

Regular To	ooth Pitch	Combi (Variab	le) Tooth Pitch	Roentgen HM-Titan		
Cross section	Toothing	Cross section	Toothing	Cross section	Toothing	
< 10 mm	14 tpi	< 25 mm	10/14 tpi	50 -120 mm	3/4 tpi	
10 - 30 mm	10 tpi	15 - 40 mm	8/12 tpi	100 - 250 mm	2/3 tpi	
30 - 50 mm	8 tpi	25 - 50 mm	6/10 tpi	150 - 400 mm	1.5/2 tpi	
50 - 80 mm	6 tpi	35 - 70 mm	5/8 tpi	350 - 600 mm	1.1/1.6 tpi	
80 - 120 mm	4 tpi	40 - 90 mm	5/6 tpi	> 500 mm	0.85/1.15 tpi	
120 - 200 mm	3 tpi	50 - 120 mm*	4/6 tpi*			
200 - 400 mm	2 tpi	80 - 180 mm*	3/4 tpi*			
300 - 700 mm	1.25 tpi	130 - 350 mm	2/3 tpi			
> 600 mm	0.75 tpi	150 - 450 mm	1.5/2 tpi			
		200 - 600 mm	1.1/1.6 tpi			
		> 500 mm	0.75/1.25 tpi			
*Please note that it is	is also possible to choo	ose our Combi pitch 4/	/5			

for tubes

Wall thickness S (mm)		Outside diameter D (mm) Toothing Z (tpi)								
	20	40	60	80	100	120	150	200	300	500
2	14	10/14	10/14	10/14	10/14	8/12	8/12	8/12	8/12	5/8
3	14	10/14	10/14	8/12	8/12	8/12	8/12	6/10	6/10	5/8
4	10/14	10/14	8/12	8/12	8/12	6/10	6/10	5/8	5/8	4/6
5	10/14	10/14	8/12	8/12	6/10	6/10	5/8	4/6	4/6	4/6
6	10/14	10/14	8/12	8/12	6/10	5/8	5/8	4/6	4/6	4/6
8	10/14	8/12	8/12	6/10	5/8	5/8	4/6	4/6	4/6	4/6
10	-	8/12	6/10	5/8	4/6	4/6	4/6	4/6	4/6	4/5
12	-	8/12	6/10	4/6	4/6	4/6	4/6	4/6	4/6	4/5
15	-	8/12	6/10	4/6	4/6	4/6	4/6	4/5	4/5	4/5
20	-	-	4/6	4/6	4/6	4/6	4/5	4/5	4/5	3/4
30	-	-	-	4/6	4/6	4/5	4/5	4/5	4/5	2/3
50	-	-	-	-	-	-	4/5	3/4	2/3	2/3
80	-	-	-	-	-	-	-	3/4	2/3	2/3
> 100	-	-	-	-	-	-	-	-	2/3	1.5/2

For thin-walled tubes (up to 8 mm wall thickness) it is advisable to choose a 0° rake angle.

Our application engineers will assist you in selecting the right band saw blades and provide reliable cutting parameters for your specific sawing application.

SET PATTERNS

RAKER SET

This is the most popular set pattern of constant tooth pitches. Teeth are set right-left-straight.



COMBI SET

This set sequence can vary depending on the tooth pitch. After a pattern of left-right set teeth follows always one straight tooth.



GROUP SET

Several consecutive teeth are set to one side, followed by several teeth set to the other side.



WAVY SET

Setting sequence is wavy.



TOOTH FORMS

NORMAL TOOTH (N)

The normal tooth has a cutting angle of 0° . It is suitable for cutting material with a high carbon content (such as cast iron), for material with small cross sections and for thin-wall profiles and tubes.



HOOK TOOTH (H)

The hook tooth has a positive cutting angle of 10°. This tooth form is particularly suitable for cutting solids, thick-walled tubes and all higher alloyed materials.



RP TOOTH (RP)

The RP tooth has a positive cutting angle of 16°. Due to its aggressive cutting characteristics, it is most suitable for cutting exotic alloys and non-ferrous metals.



MASTER TOOTH (M)

Two different cutting angles, 10° and 16°, are available. This special development consists of ground tooth tips and is composed by a chamfered pre-cutter and a pair of lower finishing cutters. The MASTER tooth is especially suitable for cutting stainless steel and other high alloyed materials.



PROFILE TOOTH

The reinforced design of the profile tooth withstands the vibrations that occur when cutting beams and tubes. This effect is supported by the reduced cutting angle of 6°.





APPLICATION AREAS



EXPLANATION OF ICONS

Due to the variety of our band saw blades, we are able to cover a wide range of applications. The following icons indicate which band saw blade fits best to your individual



000 000 000

Square tubes







Bundled angles





Thin-walled tubes

Square tubes in bundles



Profiles



Bundled solids



Thick-walled tubes

Round tubes in bundles



Bundled beams



T-, I- and L-Beams



Bundled channels



Thick-walled tubes and solid bars



Aereated concrete





Small round solids









Graphite/Carbon





Square solids







Foundry cutting



BI-ALFA COBALT M42

The ROENTGEN bi-alfa cobalt band saw blade has HSS-M42 cutting tips. The high wear resistance of the band saw blade results from the very hard and evenly distributed carbides in the tooth tips, formed during the hardening and tempering process. The martensitic structure of the tooth tips and the high cobalt content create excellent heat resistance and toughness reducing wear rates at high sawing speeds. With a high chromium backing, the saw blade can withstand the considerable flexing stresses, tension and blade guide pressure.

ноок тоотн

TOOTH FORM



The hook tooth has a positive cutting angle of 10°. This tooth form is particularly suitable for cutting solid, thick-walled tubes and all higher-grade alloy material.

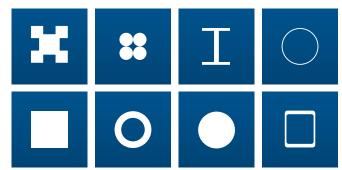
NORMAL TOOTH

TOOTH FORM



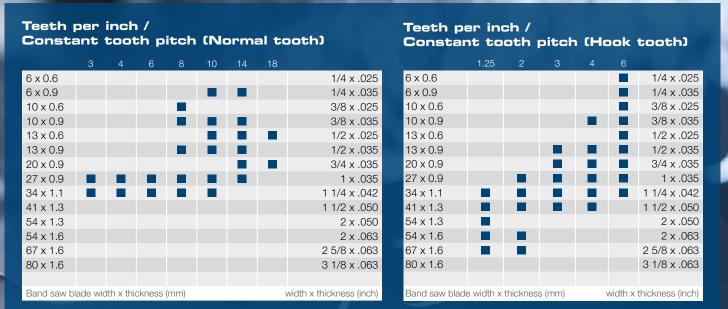
The normal tooth has a cutting angle of 0°. It is suitable for cutting material with a high carbon content (such as cast iron), for material with small cross sections and for thin-walled profiles and tubes.

APPLICATION AREAS









Teeth per inch / Combi tooth pitch (Normal tooth) 0.75/1.25 1.1/1.6 1.5/2 2/3 3/4 4/5 4/6 5/6 5/8 6/10 8/12 10/14 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 13 x 0.6 1/2 x .025 13 x 0.9 1/2 x .035 20 x 0.9 $3/4 \times .035$ 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 Band saw blade width x thickness (mm) width x thickness (inch)

Teeth per	inch /	/ Com	bi to	oth p	itch (Hook	toot	h)					
	0.75/1.25	1.1/1.6	1.5/2	2/3	3/4	4/5	4/6	5/6	5/8	6/10	8/12	10/14	
20 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
80 x 1.6													3 1/8 x .063
Band saw blade wid	dth x thickn	iess (mm)										١	width x thickness (inch)

BI-ALFA PROFILE

The ROENTGEN bi-alfa Profile and Profile WS band saw blades provide outstanding performance on vibration-susceptible cuts. Vibration during cutting of tubes, beams and profiles is often damaging to a conventional band saw blade, which lowers blade life and cut area considerably. For these demanding applications, ROENTGEN offers the perfect solution with Profile and Profile WS!

The reinforced back of the tooth increases the overall strength of the tooth to withstand vibrations during interrupted cutting and protects the band saw blade against tooth strippage. The tooth tip consists of proven HSS M42, which has good mechanical features. Bi-alfa Profile is the band saw blade giving the best results when cutting round and square tubes as well as beams.

PROFILE TOOTH

TOOTH FORM



PROFILE TOOTH - PIPE

TOOTH FORM



The profile tooth withstands due to a reinforced tooth the vibrations during cutting of beams and tubes. This effect is intensified by the reduced cutting angle of 6°.

APPLICATION AREAS























Teeth per inch								
	3/4	4/6	5/7	8/11	12/16			
13 x 0.6								
20 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 1.6						2 x .063		
67 x 1.6						2 5/8 x .063		
Band saw blade widt	th x thickness (mm)			wic	dth x thickness (inch)		
Teeth per i	nch / Pipe	=						

leetn per	leeth per inch / Pipe								
	3/4	4/6	5/7	8/11	12/16				
13 x 0.6									
20 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 1.6						2 x .063			
Band saw blade wid	Band saw blade width x thickness (mm) width x thickness (inch)								





BI-ALFA COBALT WS

The ROENTGEN bi-alfa cobalt WS Profile band saw blade is produced with a HSS-M42 cutting edge. The saw blade benefits from wider set to create a larger kerf. The larger cutting channel helps to prevent blade binding.

ноок тоотн

TOOTH FORM



ws

The Hook tooth has a positive cutting angle of 10°. This tooth form is especially suitable for cutting solid, thick-walled tubes and all higher alloyed materials.

APPLICATION AREAS



 Teeth per inch

 2/3
 3/4
 4/6

 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

Band saw width x thickness (mm)

16

BI-ALFA COBALT WS

width x thickness (inch)



BI-ALFA COBALT WS ALU

The ROENTGEN bi-alfa cobalt WS ALU band saw blade features a wide kerf and an aggressive cutting angle. This facilitates a more efficient chip flow, reduces binding and clogging and promotes longer blade life for all non-ferrous metals.

ноок тоотн

TOOTH FORM





The hook tooth has a positive cutting angle of 10°. This tooth form is particularly suitable for cutting solid, thick-walled tubes and all higher-grade alloy material.

APPLICATION AREAS



BI-ALFACOBALT WS ALU

Teeth per inch										
	1.25			4						
13 x 0.9					1/2 x .035					
20 x 0.9					3/4 x .035					
27 x 0.9					1 x .035					
27 x 1.1					1 x .042					
34 x 1.1					1 1/4 x .042					
41 x 1.3					1 1/2 x .050					
Band saw blade wid	Ith x thickness (mm)				width x thickness (inch)					



BI-ALFA COBALT RP

The ROENTGEN bi-alfa cobalt RP band saw blade is produced with HSS-M42 cutting tips. The cutting angle of 16° offers a more aggressive cutting performance.

RP TOOTH

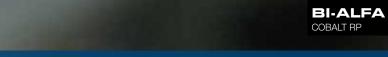
TOOTH FORM





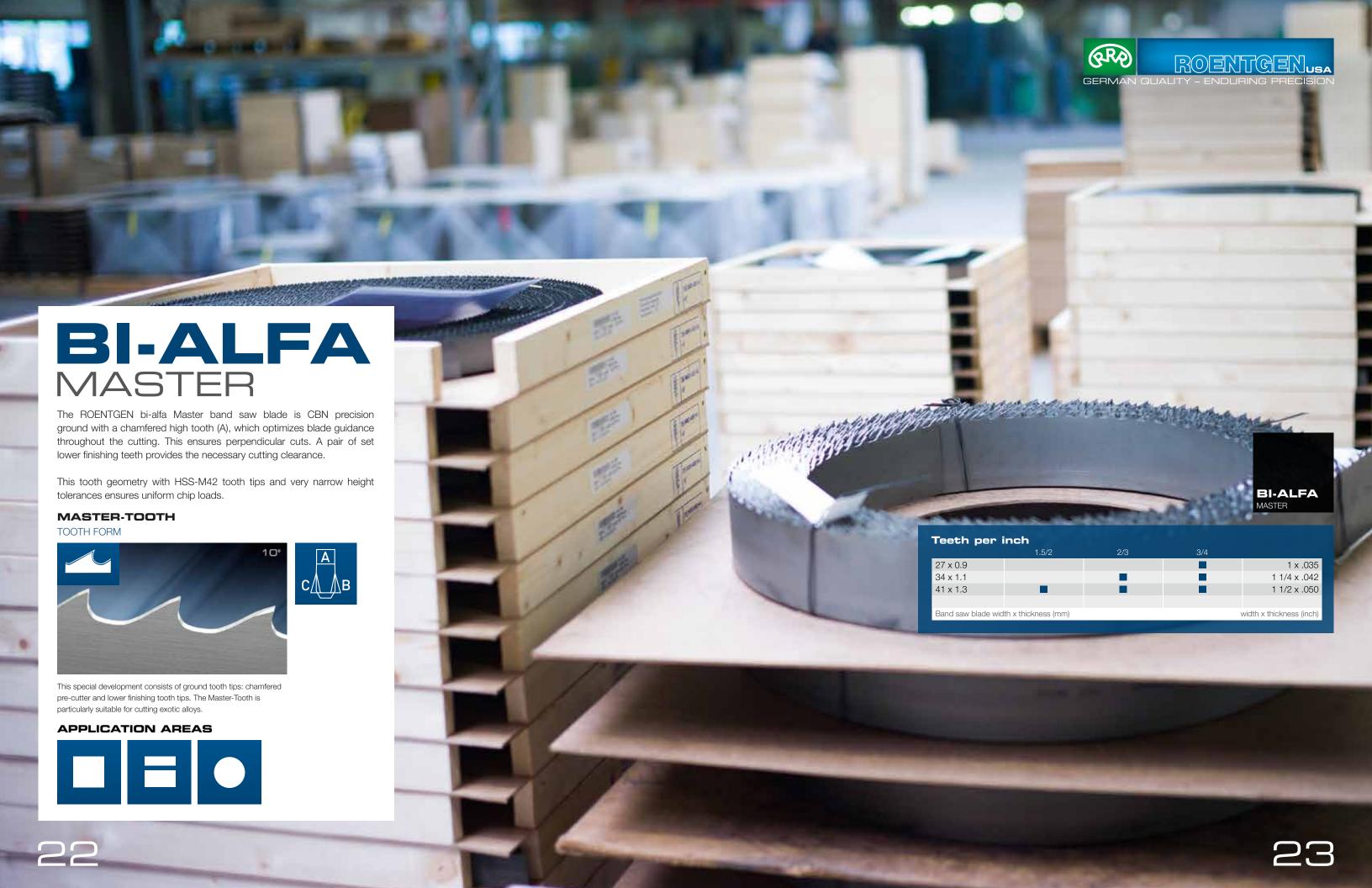
The RP tooth has a positive cutting angle of 16°. Due to its aggressive cutting characteristics, it is most suitable for cutting high-end and exotic alloys and for non-ferrous metals.





ı	Teeth per inch									
		0.75/1.25	1.1/1.6	1.5/2	2/3	3/4				
	27 x 0.9						1 x .035			
8	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			
	80 x 1.6						3 1/8 x .063			
	Band saw blade widt	th x thickness (mm)				wid	th x thickness (inch)			









BI-ALFA COBALT M51

The ROENTGEN bi-alfa cobalt M51 band saw blade has an alloyed steel backing with high chromium content together with a HSS-M51 cutting edge. Due to the cobalt and tungsten content of the cutting tips, the blade has high thermal and mechanical wear resistance.

ноок тоотн

TOOTH FORM



The hook tooth has a positive cutting angle of 10°. This tooth form is particularly suitable for cutting solid, thick-walled tubes and all higher-grade alloy material.





Teeth per	Teeth per inch										
	2/3	3/4	4/5	4/6							
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						
Band saw blade wid	dth x thickness (mm)				width x thickness (inch)						





BI-ALFA COBALT M51 SUPREME

The ROENTGEN bi-alfa cobalt M51 Supreme band saw blade has an alloyed steel backing with high chromium content together with a HSS-M51 cutting edge. The cutting angle of 16° offers a more aggressive cutting performance improving chip flow. Due to the cobalt and tungsten content of the cutting tips, the blade has high thermal and mechanical wear resistance.

RP TOOTH

TOOTH FORM



The RP tooth has a positive cutting angle of 16°. Due to its aggressive cutting characteristics, it is most suitable for cutting high-end and exotic alloys and for non-ferrous metals.

APPLICATION AREAS





Teeth per inch														
	0.6/0.7	0.75/1.25	1.1/1.6	1.5/2	2/3	3/4								
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							
80 x 1.6							3 1/8 x .063							
100 x 1.6							4 x .063							
Band saw blade wid	Ith x thickness (mm)					wid	Band saw blade width x thickness (mm) width x thickness (inch)							



BI-ALFA MASTER SUPREME

High-alloyed materials are extremely demanding on all cutting tools. The Roentgen Master Supreme provides a cost effective solution for these difficult applications. M51 cutting tips together with a special tooth geometry provides the perfect solution for high alloyed and exotic materials.

Master Supreme is especially suited to cut large cross sections, therefore it is the ideal solution for steel service centers and forges.

ROENTGEN MASTER SUPREME

Precise perpendicular cut with excellent surface finish on the most difficult-to-cut-materials.

The doubled-sided chamfered pre-cutter ensures absolute straight cutting, while a pair of higher set finishing teeth keeps the cutting channel open. Resulting in a clean and smooth cutting surface.

HIGH FEFICIENCY

HSS-M51 tooth tips allow to cut materials with a hardness of up to 50 HRc (1600 N/mm²). Together with an aggressive cutting angle of 16°, it is the ideal combination to cut high alloyed and exotic materials on larger cross sections.

LONGER BLADE LIFE

The high heat and mechanical wear resistance of HSS-M51 cutting tips ensure excellent blade life, when cutting high alloyed and exotic materials.

MASTER-TOOTH

TOOTH FORM







This special development consists of ground tooth tips: chamfered pre-cutter and lower finishing tooth tips. The Master-Tooth is particularly suitable for cutting exotic alloys.

APPLICATION AREAS





Teeth per	Teeth per inch									
	0.6/0.7	0.75/1.25	1.1/1.6	1.5/2	2/3	3/4				
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			
80 x 1.6							3 1/8 x .063			
100 x 1.6							4 x .063			
Band saw blade wid	dth x thickness (mr	n)				W	dth x thickness (inch)			



HM-TITAN

The high performance band saw blade Roentgen HM-Titan MU was developed to cut a variety of different materials. The special designed tooth geometry enables a better chip separation with low noise and high cutting rates. Reduced cutting times combined with an excellent finish are ensured.

ноок тоотн

TOOTH FORM

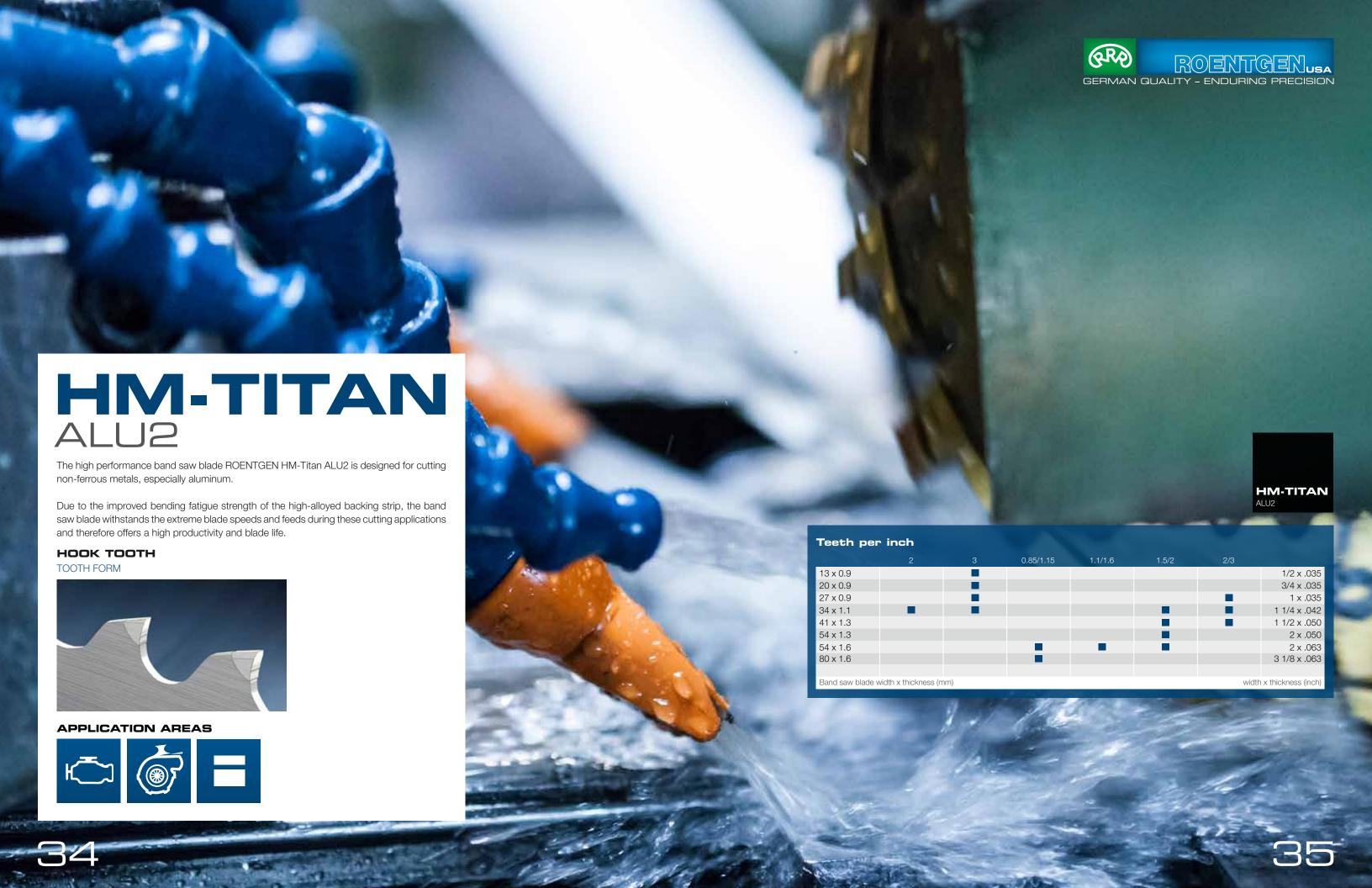






Teeth pe	Teeth per inch								
	0.85/1.15	1.1/1.6	1.5/2	1,8/2,2	2/3	3/4			
27 x 0.9							1 x .035		
34 x 1.1							1 1/4 x .042		
41 x 1.3			•				1 1/2 x .050		
54 x 1.3							2 x .050		
54 x 1.6			_				2 x .063		
67 x 1.6							2 5/8 x .063		
80 x 1.6							3 1/8 x .063		
Band saw blade	width x thickness (n	nm)				width	x thickness (inch)		







HM-TITAN ALU3

Teeth per inch 27 x 0.9 1 x .035 1 1/4 x .042 34 x 1.1 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 80 x 1.6 3 1/8 x .063 Band saw blade width x thickness (mm) width x thickness (inch)

Teeth per inch 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 80 x 1.6 3 1/8 x .063 Band saw blade width x thickness (mm) width x thickness (inch)

HM-TITAN ALU3

The high performance band saw blade ROENTGEN HM-Titan ALU3 is designed for cutting non-ferrous metals, especially aluminum. It is the best blade for cutting slabs and plates.

Due to improved bending fatigue strength of the high-alloyed backing strip, the band saw blade withstands the extreme blade speeds and feeds during these cutting applications and therefore offers a high productivity and blade life.

The unique tooth geometry satisfies even the highest demands with regard to the surface finish.

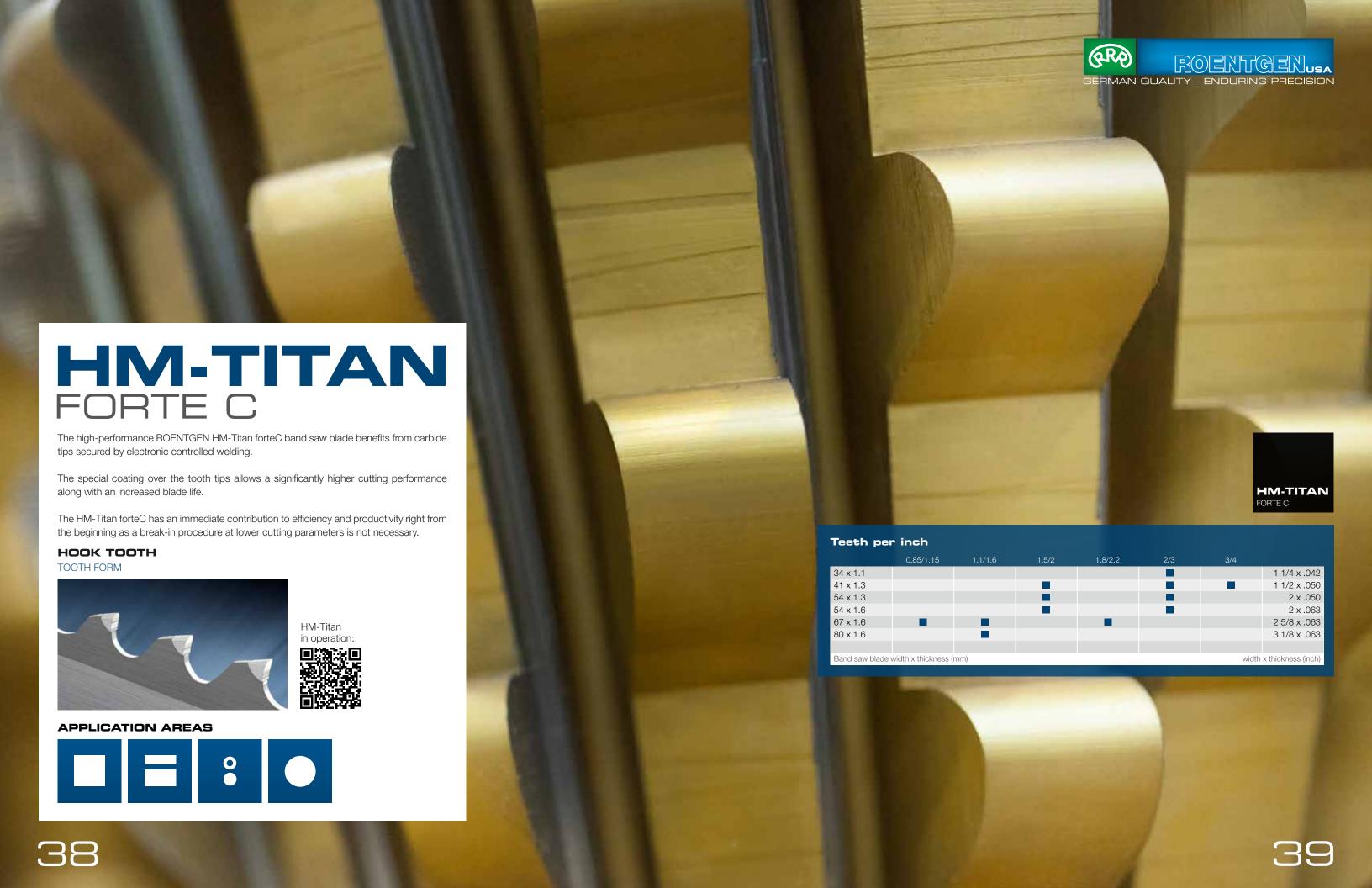
ноок тоотн

TOOTH FORM











HM-TITAN

The high-performance ROENTGEN HM-Titan B0 carbide tipped band saw blade has been designed to cut hardened and tempered or induction-hardened materials with a hardness higher than 50 HRc.

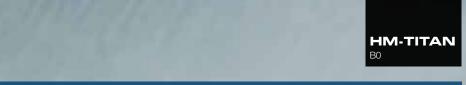
NORMAL TOOTH

TOOTH FORM



APPLICATION AREAS





Teeth per inch									
	2/3	3/4							
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						
Band saw blade width x	thickness (mm)		width x thickness (inch)						

40



HM-TITAN Musn

The Roentgen HM-Titan MUSN carbide tipped band saw blade has been designed to cut hardened and tempered or induction-hardened materials with a hardness higher than 50 HRc.

HM-Titan MUSN is especially suitable on heavy-duty sawing machines and workpieces of high hardness.

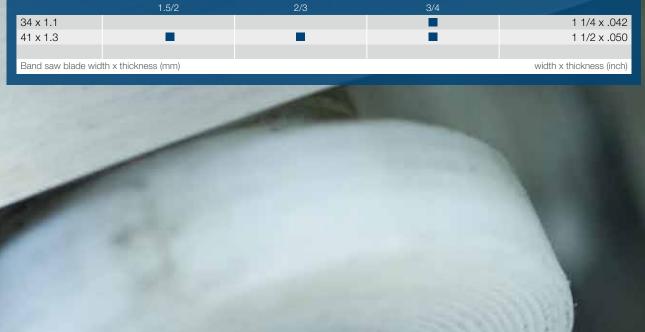
TOOTH FORM NEGATIVE

TOOTH FORM













RRR

The ROENTGEN RRR flexback carbon band saw blade has a pin-point carbide structure of 30 - 50 grains per 100 μ m². The presence of hard iron carbides produces outstanding tooth edge wear resistance, together with high flex strength in the backing steel material.

ноок тоотн

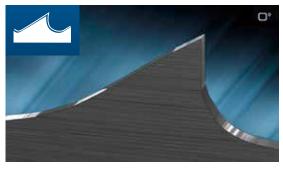
TOOTH FORM



The hook tooth has a positive cutting angle of 10°.

NORMAL TOOTH

TOOTH FORM



The normal tooth has a cutting angle of 0° .





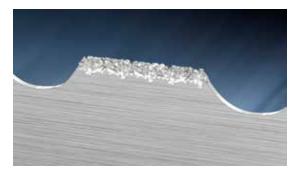




GRIT SEGMENTED

The ROENTGEN Grit band saw blade is coated with a high quantity of multi-faceted carbide grains, galvanized on a highly flexible backing strip. The facets of the grains create an extreme number of cutting edges, giving a smooth surface finish. ROENTGEN offers a variety of different grain sizes and blade dimensions.

TOOTH FORM













	Segmented	Segment distance in mm	
6 x 0.50		8	1/4 x .020
10 x 0.65		12	3/8 x .025
13 x 0.50		12	1/2 x .020
13 x 0.65		12	1/2 x .025
20 x 0.80		12	3/4 x .032
25 x 0.90		12	1 x .035
32 x 0.90		14	1 1/4 x .035
32 x 1.10		14	1 1/4 x .042
38 x 1.10		14	1 1/2 x .042
Band saw blade width x thickness (mm) width x thickness (mm)			width x thickness (inch)



GRIT CONTINUOUSLY

The ROENTGEN Grit band saw blade is coated with a high quantity of multi-faceted carbide grains, galvanized on a highly flexible backing strip. The facets of the grains create an extreme number of cutting edges, giving a smooth surface finish. ROENTGEN offers a variety of different grain sizes and blade dimensions.

TOOTH FORM













ı		Continously gritted	
ı	6 x 0.50		1/4 x .020
ı	10 x 0.65	•	3/8 x .025
ı	13 x 0.50	•	1/2 x .020
ı	13 x 0.65	•	1/2 x .025
ı	20 x 0.80	•	3/4 x .032
ı	25 x 0.90	•	1 x .035
ı	32 x 0.90	-	1 1/4 x .035
ı	32 x 1.10	•	1 1/4 x .042
ı			
	Band saw blade wid	lth x thickness (mm)	width x thickness (inch)

POWER HACKSAW BLADES



The high-performance power hacksaw blades which are available in various qualities such as 2-iks, Moly and Moly7 are suitable for cutting material from simple carbon steel up to chromium nickel steel. In addition the break-proof bimetal blade bi-alfa is available.

For further information concerning dimension and toothing please visit: www.roentgen-saw.com/us/power-hacksaw-blades

2-IKS | MOLY | MOLY7 | BI-ALFA





HAND HACKSAW BLADES



Hand hacksaw blades manufactured of best high-speed steel or as bimetal blade are available for highest requirements.

For further information concerning dimension and toothing please visit: www.roentgen-saw.com/us/hand-hacksaw-blades

BI-ALFA | DURAX | 2-IKS | MOLY



SERVICE BREAK-IN PROCEDURE

The blade life can be increased significantly by following the recommended break-in procedure.

A new saw blade benefits from a short period of cutting at reduced band speed and cutting feed rate. The break-in rates should be set at 70% of band speed and 50% of feed. After approximately 60 - 90 sq. in. cross sectional area has been cut, the band speed should be gradually increased to maximum, followed by the feed rate.

ROENTGEN CUTTING SOLUTION

The optimal cutting speed and the correct feed in combination with the correct choice of band saw blade are preconditions for a long life and cutting quality of our products.

The ROENTGEN Cutting Solution program evaluates the online input data of a determined cutting job and offers immediate recommended cutting parameters, which will result in the economic use of Roentgen band saw blades. Sign up today!



SAFETY INSTRUCTIONS

ROENTGEN band saw blades supplied in welded loops are under tension. Great care is necessary when unpacking and preparing the blade for mounting on the sawing machine.

- wear safety glasses
- wear work gloves
- wear safety boots







For detailed safety instructions, please be referred to the machine manufacturers operating instructions or contact ROENTGEN



SERVICE ACCESSORIES

BAND SAW BLADE TENSION GAUGE

Cutting performance and the straightness of the cut depend on the correct blade tension. The ROENTGEN tension gauge measures the blade tension on the machine.

Tension values are displayed in N/mm² and it enables to make a simple and quick check. A tension of 300 N/mm² (43,000 PSI) is recommended for ROENTGEN band saw blades. Off-square cutting due to low tension or blade breakage due to high tension can be avoided.





Product information

PORTABLE FEED MEASURING DEVICE

A constant feed rate is required to achieve high durability of the band saw blade, and a high cutting performance.

The Roentgen VM – 500 allows a fast and precise measurement of the feed rate during the sawing process. A wrong or incorrect feed rate will be digitally displayed directly and can be adjusted.

The Roentgen VM – 500 is ready to use in a few seconds; is safely stored in a aluminum case.





Product information

REFRACTOMETER

The oil content of the lubricant has an important effect on the life of ROENTGEN band saw blades due to a reduced wear of tooth tips and cutting edges respectively.

The mix ratio of cooling lubricant can be read in % off a scale visible through an eyepiece.





Product information

WEDGE TO PREVENT KERF CLOSING

Steel wedge to prevent blade jamming.





Product information







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