

# BAND SAW BLADES PROGRAM

Product overview



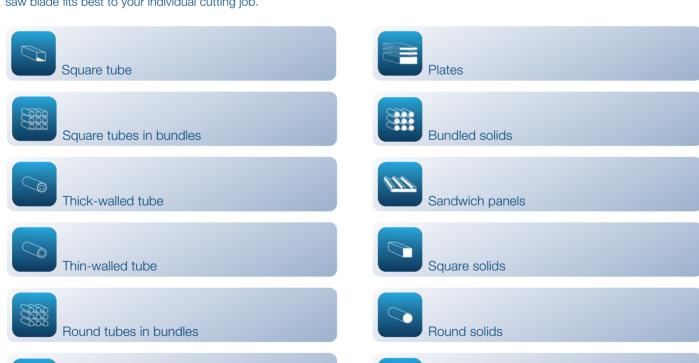
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### **APPLICATION AREAS**

### **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 cutting job.



Thick-walled tubes & solid bar

T-, I- and L-beams

Bundled angles



Profiles

Small round solids

### cobalt M42 cobalt WS

- constant-/combi tooth pitch
- universal use, cutting of all common steel types up to a hardness of < 45 HRC
- tooth tips made of alloyed high-speed steel (HSS) M42
- backing material made of high alloyed spring steel
- the hardness of the wear resisting tooth tips is about 67-69 HRC
- quality WS creates a larger cutting channel, which helps to prevent blade binding, suitable for materials with residual stress

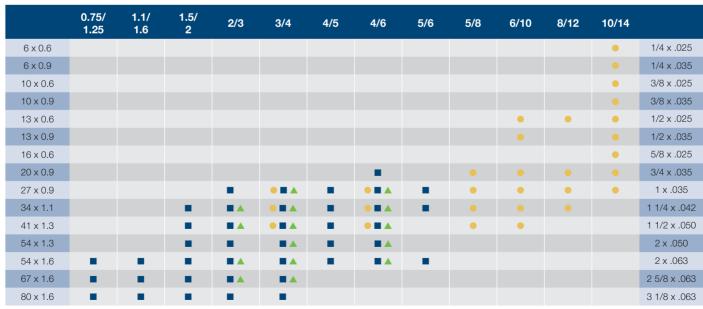
#### **APPLICATION AREAS**



### Teeth per inch/constant tooth pitch

	1.25	2	3	4	6	8	10	14	18	
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
16 x 0.6								•		5/8 x .025
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

### Teeth per inch/combi tooth pitch



Width x thickness (mm) 💮 combi tooth pitch (normal tooth) 📘 combi tooth pitch (Hook tooth) 🛕 combi tooth pitch WS (Hook tooth)

### cobalt forteC

- combi tooth pitch
- pre-honed cutting edges
- corresponds to the specification of bi-alfa cobalt M42 with an additional forteC-coating to increase the cutting performance

#### **APPLICATION AREAS**



### Teeth per inch

	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

Width x thickness (mm) Hook tooth

### bi-alfa®

### Profile Profile WS

- combi tooth pitch
- the reinforced tooth back design increases the wear resistance of the tooth caused by vibration during interrupted cutting applications
- most suitable for tubes, beams and profiles
- backing material made of high alloyed spring steel
- quality WS creates a larger cutting channel, which helps to prevent blade binding, specially for materials with residual stress

### **APPLICATION AREAS**



### Teeth per inch

	2/3	3/4	4/6	5/7	7/9	8/11	12/16	
13 x 0.6						•		1/2 x .025
20 x 0.9								3/4 x .035
27 x 0.9		•						1 x .035
34 x 1.1	<b>A</b>	■ ▲						1 1/4 x .042
41 x 1.3	<b>A</b>	■ ▲						1 1/2 x .050
54 x 1.3	<b>A</b>	■ ▲						2 x .050
54 x 1.6	<b>A</b>	■ ▲						2 x .063
67 x 1.6	<b>A</b>							2 5/8 x .063

Width x thickness (mm) ■ Profile tooth ▲ Profile tooth WS

# Profile forteC Profile WS forteC

- combi tooth pitch
- pre-honed cutting edges
- corresponds to the specification of bi-alfa Profile/Profile WS with an additional forteC-coating to increase the cutting performance

#### **APPLICATION AREAS**



### Teeth per inch

	2/3	3/4	4/6	5/7	
34 x 1.1				•	1 1/4 x .042
41 x 1.3	<b>A</b>	<b>A</b>			1 1/2 x .050
54 x 1.6	<b>A</b>	■▲			2 x .063
67 x 1.6	<b>A</b>	<b>A</b>	<b>A</b>		2 5/8 x .063

Width x thickness (mm) ■ Profile tooth ▲ Profile tooth WS

## bi-alfa®

### cobalt RP

- combi tooth pitch
- especially suitable for solid material of all common steel grades up to a hardness of < 45HRC</li>
- the hardness of the wear resisting tooth tips is about 67-69 HRC
- aggressive cutting characteristics to cut exotic alloys and non-ferrous metals

### **APPLICATION AREAS**



#### 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
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

Width x thickness (mm) RP tooth



### Master

- combi tooth pitch
- especially suitable for solid material of all common steel grades up to a hardness of < 45HRC
- the hardness of the wear resisting tooth tips is about 67-69 HRC
- improved cutting guidance / performance by ground pre-cutter/tooth height difference
- for cutting high and highest alloyed materials

### **APPLICATION AREAS**



### Teeth per inch

	1,5/2	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

Width x thickness (mm) Master tooth

### bi-alfa®

### cobalt M51

- combi tooth pitch
- cutting of all common steel grades up to a hardness of 50 HRC
- tooth tips made of alloyed high-speed steel (HSS) M51 have a high thermal and mechanical wear resistance
- backing material made of high alloyed spring steel
- the hardness of the wear resisting tooth tips is about 69-70 HRC

### **APPLICATION AREAS**



### Teeth per inch

	0.75/1.25	1.1/1.6	1.5/2	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 1.3								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

Width x thickness (mm) Hook tooth

### Master Supreme

- combi tooth pitch
- cutting of all common steel grades up to a hardness of 50 HRC
- tooth tips made of alloyed high-speed steel (HSS) M51 have a high thermal and mechanical wear resistance
- improved cutting guidance / performance by ground pre-cutter/tooth height difference
- aggressive cutting characteristics to cut exotic alloys on larger cross sections
- longer life and improved cutting surfaces with hard to cut materials

#### **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	<b>*</b>	<b>*</b>					4 x .063

Width x thickness (mm) Master tooth \* discontinued

### RECOMMENDATIONS FOR TOOTH SELECTION

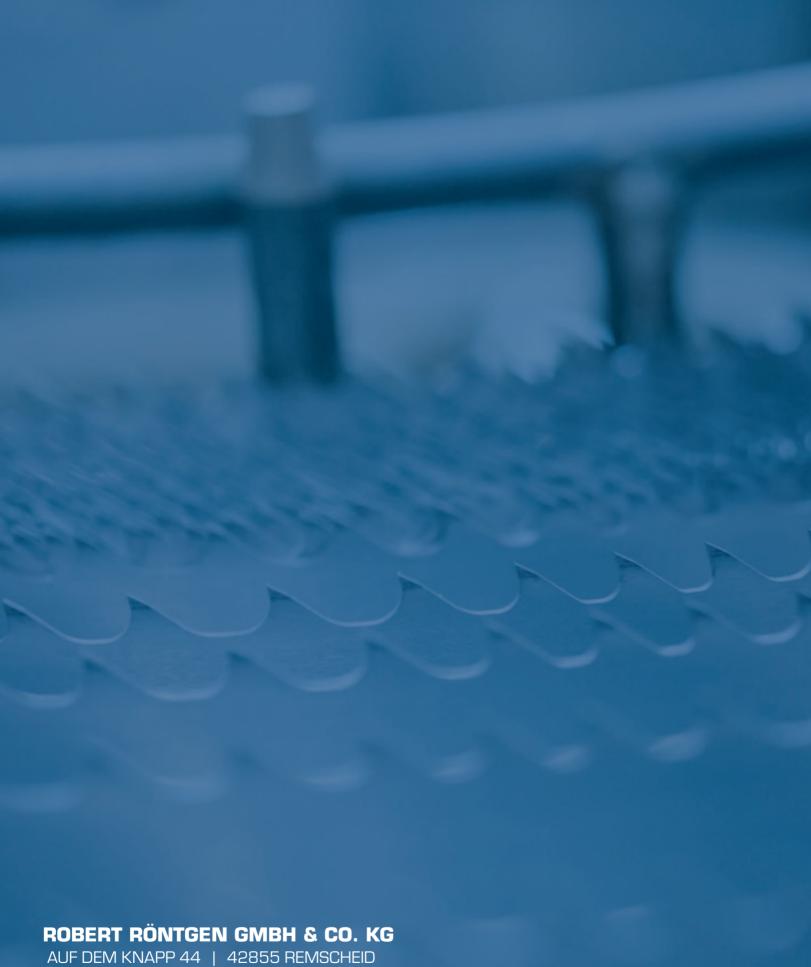
#### for solid material

Constant	tooth pitch	Combi tooth pitch			
Cross section	Tooth pitch	Cross section	Tooth pitch		
< 10 mm	14 ZpZ	<25 mm	10/14 ZpZ		
10 - 30 mm	10 ZpZ	15 - 40 mm	8/12 ZpZ		
30 - 50 mm	8 ZpZ	25 - 50 mm	6/10 ZpZ		
50 - 80 mm	6 ZpZ	35 - 70 mm	5/8 ZpZ		
80 - 120 mm	4 ZpZ	40 - 90 mm	5/6 ZpZ		
120 - 200 mm	3 ZpZ	50 - 120 mm	4/6 ZpZ		
200 - 300 mm	2 ZpZ	80 - 150 mm	3/4 ZpZ		
300 - 700 mm	1,25 ZpZ	130 - 350 mm	2/3 ZpZ		
> 600mm	0,75 ZpZ	150 - 450 mm	1.5/2 ZpZ		
		200 -600 mm	1.1/1.6 ZpZ		
		> 500 mm	0.75/1.25 ZpZ		

#### for tubes

Wall thickness					Outoida	diameter				
vvali u ilcki less					Outside	alameter				
	20	40	60	80	100	120	150	200	300	500
2	14	12/16 P	12/16 P	12/16 P	12/16 P	8/11 P	8/11 P	8/11 P	8/11 P	5/7 P
3	14	12/16 P	12/16 P	8/11 P	8/11 P	8/11 P	8/11 P	5/7 P	5/7 P	5/7 P
4	12/16 P	12/16 P	8/11 P	8/11 P	8/11 P	7/9 P* 5/7 P	7/9 P* 5/7 P	5/7 P	5/7 P	4/6 P
5	12/16 P	12/16 P	8/11 P	7/9 P	7/9 P* 5/7 P	7/9 P* 5/7 P	5/7 P	4/6 P	4/6 P	4/6 P
6	12/16 P	8/11 P	8/11 P	7/9 P	7/9 P* 5/7 P	5/7 P	5/7 P	4/6 P	4/6 P	4/6 P
8	12/16 P	8/11 P	8/11 P	7/9 P* 5/7 P	5/7 P	5/7 P	4/6 P	4/6 P	4/6 P	4/6 P
10		8/11 P	7/9 P* 5/7 P	5/7 P	4/6 P	4/6 P	4/6 P	4/6 P	4/6 P	4/6 P
12		7/9 P* 8/11 P	7/9 P* 5/7 P	4/6 P	4/6 P	4/6 P	4/6 P	4/6 P	4/6 P	4/6 P
15		7/9 P* 8/11 P	7/9 P* 5/7 P	4/6 P	4/6 P	4/6 P	4/6 P	4/6 P	4/6 P	4/6 P
20			4/6 P	4/6 P	4/6 P	3/4 P				
30				4/6 P	4/6 P	4/6 P	4/6 P	4/6 P	4/6 P	3/4 P
50							4/6 P	3/4 P	3/4 P	2/3 P
80								3/4 P	2/3 P	2/3 P
>100									2/3 P	1.5/2

\*Profile 7/9 tpi only available in width 27 mm at the moment of print



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