

BAND SAW BLADES PROGRAM

Product overview



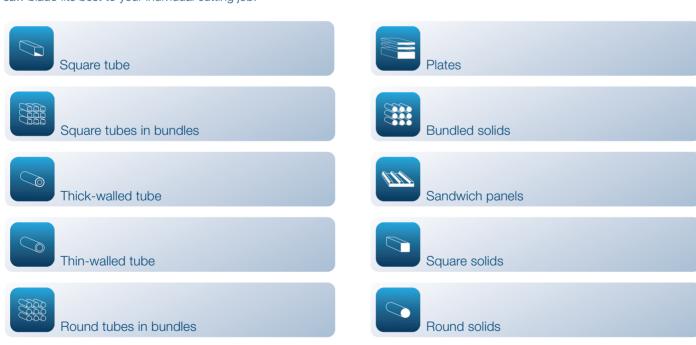
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APPLICATION AREAS

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.



Small round solids

Profiles



T-, I- and L-beams

Bundled angles

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

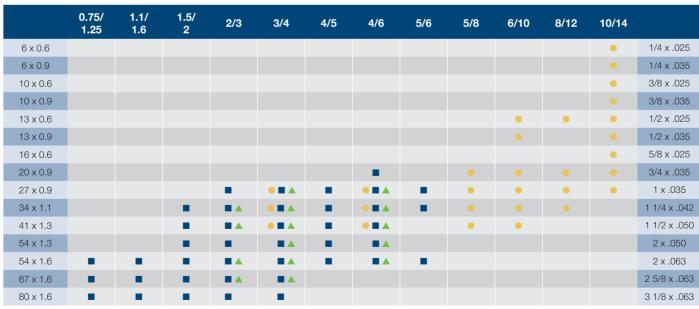
APPLICATION AREAS



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	A	■ ▲						1 1/4 x .042
41 x 1.3	A	■ ▲						1 1/2 x .050
54 x 1.3	A	■ ▲						2 x .050
54 x 1.6	A	■ ▲						2 x .063
67 x 1.6	A							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	A	A			1 1/2 x .050
54 x 1.6	A	■▲			2 x .063
67 x 1.6	A	A	A		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
- 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

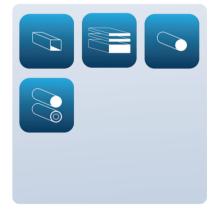
Width x thickness (mm) Master tooth

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	*	*					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					Outside	diameter				
	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

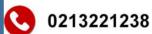


ROBERT RÖNTGEN GMBH & CO. KG AUF DEM KNAPP 44 | 42855 REMSCHEID

TEL.: +49-(0)-2191 373-01 FAX: +49-(0)-2191 373-999

info@roentgen-saw.com www.roentgen-saw.com









CATTED Business Park Chitila -Hala 11 Soseaua Centura Bucuresti, Km 62 Chitila Jud Ilfov Cod Postal 077045

