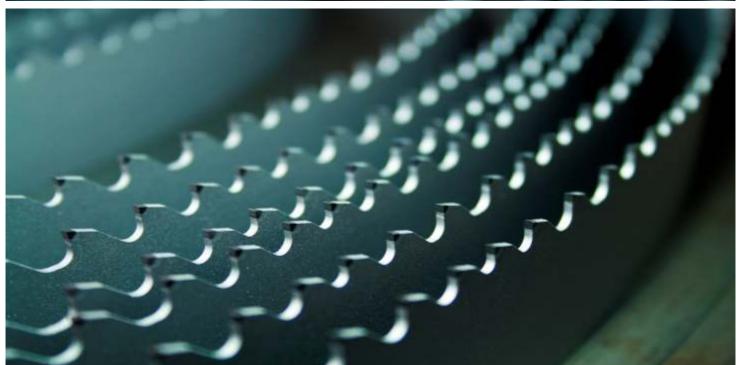


OUTSTANDING PERFORMANCE

Meet a wider range of cutting demand, make the product withstand the greater speed and load pressure.







The Company

Bandsaw cutting has evolved into an integral part of modern production processes. Bichamp Cutting Technology rises to the challenges that these processes bring. Thanks to dedicated R&D, modern and reliable manufacturing facilities and a skilled manufacturing team with many years of experience, Bichamp produces high performance band saw blades, which are perfectly suited to meet global customers' specific requirements.

The responsibility for the quality and performance of the products, drives Bichamp continuously to invest in the facilities, processes and people. This enables its research and development teams to integrate the best manufacturing and product technology, and for its customers to experience the results in products, which outperform conventional band saw blades and bring more value.

All materials and equipment used in manufacturing are imported to the factory. Bichamp started manufacturing in 2003 and Bichamp India started in 2019, now the company has become the leading band saw manufacturer in Asia.

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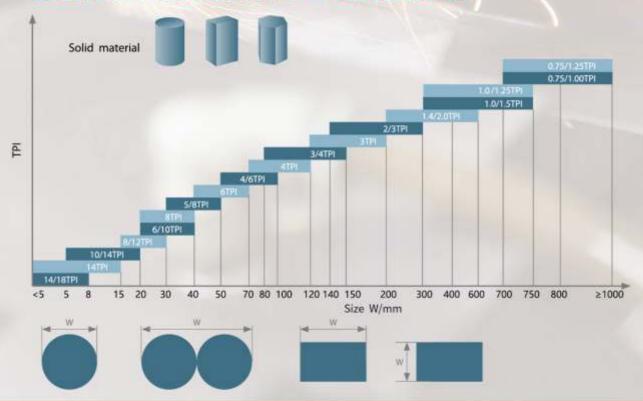
Tooth Pitch Selection Chart for Pipes and Profiles

Tri Talana							Dian	neter D/	mm					
Thickness S/mm	15	20	40	60	80	100	120	150	200	300	400	500	600	>700
2	14/18	14/18	14/18	10/14	10/14	10/14	10/14	10/14	8/12	8/12	8/12	6/10	6/10	5/8
3	14/18	14/18	10/14	10/14	10/14	8/12	8/12	8/12	8/12	6/10	6/10	6/10	5/8	5/8
4	14/18	10/14	10/14	10/14	8/12	8/12	6/10	6/10	6/10	5/8	5/8	4/6	4/6	4/6
5	10/14	10/14	8/12	8/12	8/12	6/10	6/10	5/8	5/8	5/8	4/6	4/6	4/6	4/6
6	10/14	10/14	8/12	8/12	6/10	5/8	5/8	5/8	4/6	4/6	4/6	4/6	4/6	3/4
8		10/14	8/12	6/10	6/10	5/8	5/8	4/6	4/6	4/6	4/6	4/6	4/6	3/4
10			6/10	6/10	5/8	5/8	5/8	4/6	4/6	4/6	4/6	3/4	3/4	3/4
12			6/10	5/8	5/8	4/6	4/6	4/6	4/6	4/6	3/4	3/4	3/4	3/4
15			6/10	4/6	4/6	4/6	4/6	4/6	3/4	3/4	3/4	3/4	3/4	2/3
20				4/6	4/6	3/4	3/4	3/4	2/3	2/3	2/3	2/3	2/3	2/3
30					3/4	3/4	3/4	3/4	2/3	2/3	2/3	2/3	2/3	2/3
50							2/3	2/3	2/3	2/3	2/3	2/3	2/3	1.4/2.0
75									2/3	2/3	2/3	1.4/2.0	1.4/2.0	1.4/2.0
100											1.4/2.0	1.4/2.0	1.0/1.5 1.0/1.25	1.0/1.5
150											1.4/2.0	1.4/2.0	1.0/1.5 1.0/1.25	1.0/1.5
200												1.0/1.5	0.75/1.25 0.75/1.00	0.75/1.2
250													0.75/1.25 0.75/1.00	0.75/1.0
>300														0.75/1.2

For two or more material, add up all wall thickness



Tooth Pitch Selection Chart for Solid Materials



В	ICHAN	AP BII	META	L BAN	ND S	AW BL	ADE	S SELE	CTIC	N			
PRODUCT SERIES		BRONZE/ BERILLIUM COPPER /BRASS	MILD STEELS	STRUCTRURAL STEELS	LOW ALLOY STEELS	BEARING STEELS	DIE STEELS	STAINLESS STEELS	TOOL STEELS	TI AND TI-ALLOYS	INCONEL/ NICKLE BASED ALLOYS	WOOD	PALLET
FICUT®													
AA®													
TANCUT®													
DTCUT													
PROCUT													
REINCUT													
WOODCUT													
PALLETCUT													

Recommend:

Very suitable

Can be used

Not recommend

BICHAMP CARBIDE TIPPED BAND SAW BLADES SELECTION INCONEL ALUMINUM BRONZE AND BERILLIUM ALUMINUM COPPER ALLOYS /BRASS LOW CASE PRODUCT BEARING DIE STAINLESS TOOL TI AND STEELS STEELS STEELS TI-ALLOYS NICKLE BASED HARDENED MATERIAL SERIES WOOD ALLOYS CB-MP" CB-PRO" тсв-мр TCB-PRO AL" TCB-WOOD

All the above products are not suitable for thin wall structural materials and for the solid material of which the diameter is less than 50mm.

Recommend:

Very suitable

Can be used

Not recommend



M42 GENERAL PURPOSE

Benefits:

M42 tooth tips combined with our excellent backing material make this generalpurpose blade the all-around blade for cutting various materials.

Features:

- Engineered for sawing small to medium profiles and solid materials
- · High cutting efficiency and bean strength
- Cost-effective for general purpose applications

Applications:

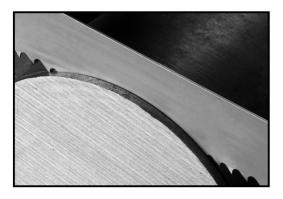
• Carbon Steel • Structural Steel

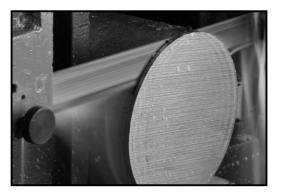
Alloy SteelCast Iron

• Aluminum • Aluminum Alloy

Aluminum Casting

Width x T	hickness						TP	Pl				
MM	Inches	2/3	3	3/4	4	4/6	5/8	6	6/10	8/12	10/14	14/18
19x0.90	3/4x0.035				-		-					
27x0.90	1x0.035											
34x1.10	1-1/4x0.042				•		-	-				
41x1.30	1-1/2x0.050											









M42 GENERAL PURPOSE

Variable pitch

Benefits:

Multi-Purpose blade for basic workshop operations.

Features:

M42 high speed steel edge.

Variable pitch with both positive rake angle and standard tooth.



For profiles and solid materials.





Too	th Form	Pos	itive rake an	gle			Standa	rd tooth		
Width	x Thickness	1.4/2.0	2/3	3/4	4/6	5/8	6/10	8/12	10/14	14/18
MM	Inches	a=10°	a=7*	a=7°	q=0*	a=0"	α=0°	α=0°	a=0°	a=0*
13 x 0.65	1/2 x 0.025				VS-G	VS-G	VS-G	VS-G	VS-G	VS-W
13 x 0.90	1/2 x 0.035						VS-G	VS-G	VS-G	
19 x 0.90	3/4 x 0.035				VS-G	VS-G	VS-G	VS-G	VS-G	VS-W
27 x 0.90	1 x 0.035		VP-G	VP-G	VS-G	VS-G	VS-G	VS-G	VS-G	
34 x 1.10	1-1/4 x 0.042		VP-G	VP-G	VS-G	VS-G		VS-G		1
41 x 1.30	1-1/2 x 0.050	VP-G	VP-G	VP-G	VS-G	VS-G				

Constant pitch

Benefits:

Professional blade for manual operations.

Features:

M42 high speed steel edge.

Constant pitch with both positive rake angle and standard tooth to obtain uniform cutting force.

Applications:

Hand-fed vertical bandsaw machines.

Contour cutting.

Portable bandsaw machines.



Tool	h Form	Po	sitive rake an	igle			Standa	rd tooth		
Width x	Thickness	2	3	4	3	4	6	8	14	18
:MM:	Inches	α=10°	a=10°	a=10*	α=0°	a=0°	α=0°	a=0°	a=0°	α=0°
13 x 0.65	1/2 x 0.025						CS-S		CS-S	CS-S
13 x 0.90	1/2 x 0.035		CP-S	CP-S			CS-S		cs-s	
19 x 0.90	3/4 x 0.035		CP-S		CS-S	CS-S	CS-S		CS-S	CS-W
27 x 0.90	1 x 0.035	CP-S			CS-S	CS-S	CS-S	CS-S	CS-S	
34 x 1.10	1-1/4 x 0.042				CS-S		CS-S			
41 x 1.30	1-1/2 x 0.050				CS-S		CS-S			





Benefits:

The all-purpose blade meets different demands.

The powder HSS teeth offer the best balance of wear resistance and toughness, better hardness than M42.

Features:

Powder metallurgy (PM) high speed steel edge.

Variable pitch with positive rake angle.

Patented heat treatment process and optimized surface treatment.

Applications:

Different solid metals from mild steel to metals with hardness up to 40HRc.





Too	oth Form		Po	sitive rake an	gle			Standard too	th.
Width	x Thickness	1.0/1.5	1.4/2.0	2/3	3/4	4/6	5/8	6/10	8/12
MM	Inches	α=10°	a=7°	q=7°	a=7°	α=7°	α=0°	a=0°	a=0°
27 x 0.90	1 x 0.035			VP-G	VP-G	VS-G	VS-G	VS-G	VS-G
34 x 1.10	1-1/4 x 0.042			VP-G	VP-G	VS-G	VS-G	VS-G	VS-G
41 x 1.30	1-1/2 x 0.050	VP-G	VP-G	VP-G	VP-G	VS-G	VS-G	VS-G	
54 x 1.60	2 x 0.063	VP-G	VP-G	VP-G	VP-G	VS-G			Ī
67 x 1.60	2-5/8 x 0.063	VP-G	VP-G	VP-G	VP-G				





Benefits:

Professional blade for difficult-to-cut materials. Better hardness than M42.



Features:

Powder metallurgy high speed steel edge. Premium backing material for optimum fatigue life.

Applications:

Difficult-to-cut solid materials with hardness up to 45HRc or tensile strength up to 1200MPa.





Too	th Form			Ti	PI		
Width	Thickness	0.75/1.25	1.0/1.5	1.4/2.0	2/3	3/4	4/6
MM	Inches	α=10°	g=7*	α=10°	α=10°	α=10°	α=7°
27 x 0.90	1 x 0.035				VP-G	VP-G	VP-G
34 x 1.10	1-1/4 x 0.042				VP-G	VP-G	VP-G
41 x 1.30	1-1/2 x 0,050			VP-G	VP-G	VP-G	VP-G
54 x 1.60	2 x 0.063	VP-G	VP-G	VP-G	VP-G	VP-G	-
67 x 1.60	2-5/8 x 0,063	VP-G	VP-G	VP-G	VP-G	VP-G	
80 x 1.60	3 x 0.063	VP-G					

DTCUT

EXTREME CUTTING RATE

Benefits:

Special designed high-low tooth profile for easier penetrating the material and reducing cutting forces.



Powder metallurgy high speed steel edge.

Premium backing material for optimum fatigue life.

Tooth height difference and special set design for smoothly cutting.

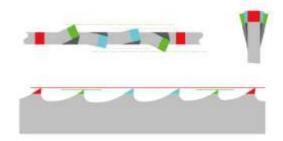
Applications:

Medium-size to large solid materials.

Higher feed rate for difficult-to-cut materials.







Tooth F	Form			TPI		
Width	Thickness	0.75/1.0	1.0/1.5	1.4/2.0	2/3	3/4
MM	Inches	a=10°	α=5°	α=10°	α=10°	a=10°
27 x 0.90	1 x 0.035				VP-V	VP-V
34 x 1.10	1-1/4 x 0.042				VP-V	VP-V
11 x 1,30	1-1/2 x 0.050		VP-V	VP-V	VP-V	VP-V
54 x 1.60	2 x 0.063	VP-V	VP-V	VP-V	VP-V	VP-V
57 x 1.60	2-5/8 x 0.063	VP-V	VP-V	VP-V	VP-V	
80 x 1.60	3 x 0.063	VP-V				



PROCUT

OPTIMIZED FOR CUTTING STRUCTURALS



Benefits:

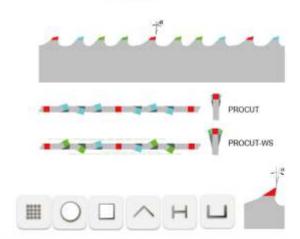
Special tooth design to reduce risk of chipping and improve blade life.

Features:

Impact resistant design for strong teeth.

Applications:

For steel beams and different profiles.



To	oth Form		TPI	
Width	x Thickness	2/3	3/4	4/6
MM	Inches	α=7°	α=7*	q=7*
19 x 0.90	3/4 x 0.035			VP-G
27 x 0.90	1 x 0.035		VP-G	VP-G
34 x 1.10	1-1/4 x 0.042		VP-G	VP-G
41 x 1.30	1-1/2 x 0.050	VP-G	VP-G	VP-G
54 x 1.60	2 x 0.063	VP-G	VP-G	VP-G
67 x 1,60	2-5/8 x 0.063	VP-G	VP-G	

PROCUT-WS

Wide Set (WS) to create wider kerf to prevent blade from pinching. For large cross sections steel beams, structural material with residual stress.



То	oth Form	TI	7
Width	x Thickness	2/3	3/4
MM	Inches	a=7*	a=7*
27 x 0.90	1 x 0.035		VP-V
34 x 1.10	1-1/4 x 0.042		VP-V
41 x 1.30	1-1/2 x 0.050	VP-V	VP-V
64 x 1.60	2 x 0.063	VP-V	VP-V
67 x 1.60	2-5/8 x 0.063	VP-V	VP-V

REINCUT

OPTIMIZED FOR BUNDLE CUTTING



Benefits:

The reinforced tooth design and special set pattern reduce vibrations.

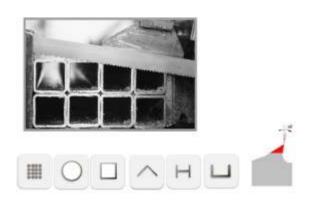
Special tooth design to reduce risk of chipping and improve blade life.

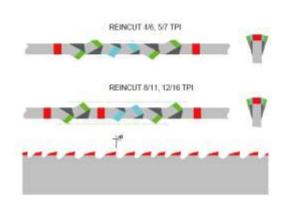
Features:

Impact resistant design for strong teeth. Various set design.

Applications:

Bundle cutting of small solid bars or tubes.





Too	th Form			PI	
Width	Thickness	4/6	5/7	8/11	12/10
MM	Inches	a=7°	a=7*	a=7*	a=7°
13x0.65	1/2 x 0.025		VP-V	VP-V	VP-V
13x0.90	1/2 x 0.035		VP-V	VP-V	VP-V
19x0.90	3/4 x 0.035		VP-V	VP-V	VP-V
27x0.90	1 x 0.035	VP-V	VP-V	VP-V	
34x1.10	11/4 x 0.042	VP-V	VP-V		l)
41x1.30	11/2 x 0.050		VP-V		



WOODCUT

WOOD PERFORMANCE

Specially designed blade for various woodworking materials cutting. High speed steel tooth tips, increased heat and wear resistance.





	lidth x Thickness	TPI
MM	Inches	1.1
34 x 1.10	1-1/4 × 0.042	CP-S

PALLETCUT

PALLET PERFORMANCE

With Vari-tooth design cuts through nails and screws. Improved blade life while reducing vibration. Combines the flexibility of spring steel backer with the wear resistance of high speed steel tooth.





Widt	h x Thickness	TPI			
MM	Inches	5/8			
34 x 1.10	1-1/4 x 0.042	VS-G			



CB-MP™

TRIPLE-CHIP SET

Benefits:

Set style carbide tipped band saw blade, designed for multi-purpose applications cutting a wide variety of materials.

Features:

Set style carbide tipped band saw blades based on triple chip design.

Special selected ultra-fine grain carbide tips for sharp teeth.

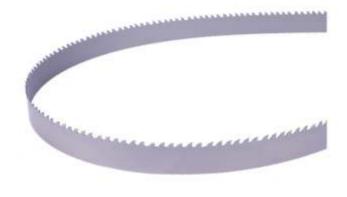
High quality blade due to precision tip welding and grinding.

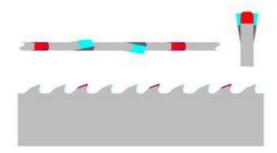
Applications:

All different kinds of materials and applications. Metals with surface hardness up to 60HRc. Contour cutting on vertical machines.









Width	x Thickness			TPI			
ММ	Inches	0.75/1.0	1.0/1.25	1.4/2.0	2/3	3	3/4
19 x 0.90	3/4 x 0.035						
27 x 0.90	1 x 0.035						
34 x 1.10	1-1/4 x 0.042						
41 x 1.30	1-1/2 x 0.050			•	•		
54 x 1.60	2 x 0.063		11.01	1980			
67 x 1.60	2-5/8 x 0.063	•			•		
80 x 1.60	3 x 0.063			0.00			

CB-PRO™

MULTI-CHIP SET

Benefits:

Multi-chamfer ground set style carbide tipped band saw blade for difficult to cut materials providing excellent cutting performance.

ide ...

Features:

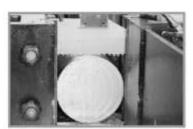
Multi-chip tooth geometry to reduce cutting forces and improve blade life.

High precision multi-setting of teeth improves surface finish.

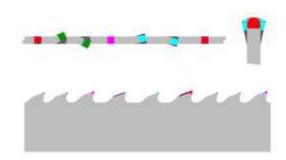
Applications:

Solid materials with long chips.

Ideal for stainless steel, mold steel, superalloy, Ni-base alloy like inconel, Cu-base alloy like copper and bronze, etc.







Width	x Thickness			TPI		
MM	Inches	0.75/1.0	1.0/1.25	1.4/2.0	2/3	3/4
34 x 1.10	1-1/4 x 0.042				•	
41 x 1.30	1-1/2 x 0.050			•	•	
54 x 1.60	2 x 0.063					
67 x 1.60	2-5/8 x 0.063	•	•	•		
80 x 1.60	3 x 0.063					



TCB-MP™

TRIPLE-CHIP NON-SET

Benefits:

Non-set carbide tipped band saw blade designed for general purpose applications at high efficiency.

Features:

Traditional triple chip tooth design.

High precision grinding of teeth to improve surface finish.

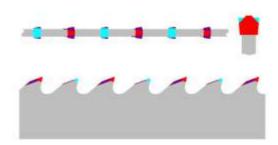
Applications:

The all-round blade for all kind of applications and materials.









Wid	th x Thickness		TPI	
MM	Inches	2/3	3	
13 x 0.90	1/2 x 0.035			
27 x 0.90	1 x 0.035	•	•	
34 x 1.10	1-1/4 x 0.042			
41 x 1.30	1-1/2 x 0.050	•		

TCB-PRO AL™

MULTI-CHIP NON-SET

Benefits:

Special designed multi-chip carbide tipped band saw blade for cutting aluminum and other non-ferrous materials.

Features:

Multi-chip non-set style carbide tipped band saw. Special selected carbide grade for cutting non-ferrous materials.

Premium backing material for optimum fatigue life at high band speeds.

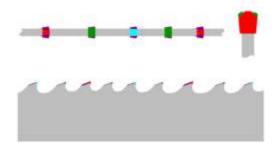
Applications:

Non-ferrous, especially aluminum.









Wid	th x Thickness	TP		
ММ	Inches 1.4/2.0		2/3	
27 x 0.90	1 x 0.035			
34 x 1.10	1-1/4 x 0.042	•	•	
41 x 1.30	1-1/2 x 0.050			
54 x 1.30	2 x 0.050			

TCB-WOOD

TRIPLE-CHIP NON-SET

Benefits:

Special designed tooth shape based on triple-chip carbide tipped band saw blade especially suitable for high-speed wood cutting. Improved manufacturing precision ensures better surface finish.



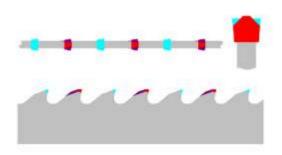
Triple-chip design non-set style carbide.

Special designed tooth shape for high-speed wood cutting.

Applications:

Different hard wood, foam, graphite materials at high-speed cutting.





Width x	Thickness		Т	PI	
MM	Inches	1.3	1.6	2	3
13 x 0.90	1/2 x 0.035				
27 x 0.90	1 x 0.035	•	•	•	

ACCESSORIES



Refractometer

The proper concentration of cooling liquid can reduce tooth wear of band saw blades. By using refractometer, the mix ratio of cooling liquid can be read in percentage and checked easily.



Tension meter

Proper tension is a key parameter for straight cutting and could also keep band saw blades in good fatigue life. The Bichamp tension meter helps you to check the tension simply and quickly.



Tachometer

Cutting speed can effect the life, efficiency and noise rate of the teeth. Tachometer provides you more objectively measure value for adjustment.



Toolkit

Includes: tension gauge, refractometer, tachometer, tape, dial gauge, magnifying glass, wrench and screwdrivers etc., which help you to check and maintain the band saw machine.



Speed Chart

		C	6000	Bi-M	etal	Carbid	e Tipped	
Materials	CHN Grade	German	Japan JIS	Band 9	peed	Band Speed		
				FPM	MPM	FPM	MPM	
Aluminum Alloys	2024, 5052, 6061, 7075	3.1355, 3.3525, 3.3211, 3.4365	2024, 5052, 6061, 7075	275-340	84-104	3,500-8,000*	1000 - 2600	
	CDA 220	2.023	C2200	210	64	210	64	
Copper Alloys	CDA 360	2.0375	C3601	295	89	295	90	
	Cu Ni (30%)	2.0835		200	61	200	61	
	Be Cu			160	49	160	49	
	AMPCO 18	8	350	180	55	180	55	
	AMPCO 21			160	49	160	49	
	AMPCO 25	0	120	110	34	110	34	
Bronze Alloys	Leaded Tin Bronze	2.1177	20	290	88	290	88	
bronze Alloys	Al Bronze 865	2.0976	AlBCIn1	150	46	150	46	
	Mn Bronze	2.0602		215	65	215	66	
	932	*	(40)	280	85	280	85	
	937	¥	(4)	250	76	250	76	
Brass Alloys	Cartridge Brass, Red Brass (85%)	*	BC6	220	67	220	67	
	Naval Brass	*	YCuZnSn	200	61	200	61	
Leaded, Free	1145	-		270	82	290	88	
Machining	1215	1.0736	SUM 25	325	99	325	99	
Low Carbon Steels	12L14	1.0718	SUM 24L	350	107	350	107	
Structural Steels	A36	1.0132	Sav.	250	76			
Low Carbon Steels	1008, 1018	1.0310, 1.0453	S9CK	270	82	250	76	
Low Carbon Steels	1030	1.1178	S 30 C	250	76	240	73	
Medium Carbon Steels	1035	1.0501	S 35 C	240	73	230	70	
nedium Carbon Steels	1045	1.0503, 1.1191	S 45 C	230	70	220	67	
	1060	1.0601	S 58 C , S60 CM	200	61	200 **	61 **	
High Carbon Steels	1080	1.1259	1080	195	59	195 **	59 **	
	1095	1.0618	SUP 4	185	56	185 **	56 **	
Mn Steels	1541	1.1167	SMn 438 (H)	200	61			
Mili Steels	1524	1.0499	SCMn1, SCMn21	170	52			
	4140	1.7225	SCM 440 (H)	225	68			
Cr-Mo Steels	41L50	0	120	235	71			
	4150H			200	61			
	6150	1.8159	SUP 10	190	58			
Cr Alloy Steels	52100	1.3505	SUJ 2	160	49			
	5160	1.7176	SUP 9 (A)5	195	59			
	4340	1.6565	SNCM 439 , SNCM 8	195	59			
Ni-Cr-Mo Steels	8620	1.6523	SNCM 220H, SNCM21	215	65			
	8640	1.6546	SNCM 240	185	56			
	E9310	1.6657	(4)	160	49			
Low Alloy Tool Steels	L-6	1.2714	SKT 4	145	44	192	59	

Speed Chart

Water-Quenched Tool Steels	W-1	1.1673	SK1	148	45	180	55
Cold-Work Tool Steels	D-2	1.2379	SKD 11	98	30	180	55
	A-2	1.2363	SHD 12	164	50	197	60
Air-Quenched Tool Steels	A-6	28		148	45	180	55
	A-10	- 6	146	98	30	131	40
Hot Work	H-13	1.2344	SKD 61	148	45	180	55
Tool Steels	H-25	*	Ü€:	98	30	131	40
Oll Own And Trad Strade	0-1	1.251	SKS 3	148	45	197	60
Qil-Quenched Tool Steels	0-2	1.2842		148	45	180	55
	M-2, M-10	1.3343	SKH9	115	35	98	30
High Speed	M-4	1.3348	SKH 54	98	30	98	30
Tool Steels	T-1	1.3355	SKH 2	98	30	82	25
	T-15	1.3202	SKH 10	66	20	66	20
Mold Steels	P-3	1.5	1323	180	55	164	50
Mold Steels	P-20	1.2328	1(#)	164	50	131	40
Shoot Declar - 1 T- 1 C - 1	S-1	1.2542	SKS 41	148	45	-	52
Shock Resistant Tool Steels	S-5, S-7	1.2823		131	40	53	27
	304	1.4301	SUS 304	82	25	164	50
Ī	316	1.4401	SUS 316	98	30	131	40
Stainless Steels	410	1.4006	SUS 410	148	45	180	55
	440A	1.4109	SUS 440 A	82	25	148	45
	440C	1.4125	SUS 440 C	82	25	148	45
Precipitation Hardening	17-4 PH	1.4542,1.4568	SUS 630, SUS 631	82	25	115	35
Stainless Steels	15-5 PH	1.4545	198	82	25	98	30
Free Machining	420F	- 2	1.5	164	50	197	60
Stainless Steels	301	1.431	-	131	40	164	50
	Monel* K-500	2.4375	18	82	25	98	30
	Duranickel 301	-		66	20	82	25
	Inconel® 600	2.4816,2.4668	NCF-600	66	20	98	30
Nickel-Based Alloys	RENE 41	2.4973		66	20	98	30
	Inconel® 625	2.4831		82	25	115	35
	Hastalloy B	2.4800	Ni-Mo28	66	20	82	25
	RENE 88	2.4951		66	20	82	25
	A286	1.498	SUH 660	82	25	82	25
Iron Based	Incoloy® 600	- 14	720	66	20	82	25
Super Alloys	Pyromet X-15	-	0.50	82	25	98	30
-		3.7025	0.00	82	25	164	50
Titanium Alloys	Ti-6Al-4V	3.7615		66	20	164	50
	A536 (60-40-18)	0.704	FCD 40	230	70	*	-
	A536 (120-90-02)	0.708	19:1	115	35		-
Cast Irons	A48 (L20)	0.601	FC 10	164	50	23	- 1
55000000000	A48 (L40)	0.6025	FC 25	82	25	- 51	-
-	A48 (L60)	0.604		98	30	- 21	9

^{*} For metal cutting saws run between 275 and 350 FPM (88 and 107 MPM)
** Typically for hardened and case hardened carbon steels with hardness up to 61 HRC



Trouble Shooting

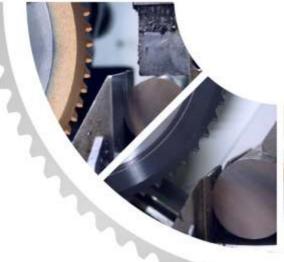
▲ --major causes △ --secondary causes

	Trouble descriptions Check points	Early wear	Early tooth strippage/ chipping	Early breakage	Crooked cut	Rough cut surface	Instability in bandsawing	Loud cutting noise	Blade stoppage	Too low efficiency	Solutions
	Too high band saw blade speed			Δ			Δ				Adjust the speed according to the parameter chart.
	Too low band saw blade speed		Δ				Δ			A	Increase the band saw blade speed.
	Too high feed rate	Δ	A	Δ	A	A	Δ	Δ	A		Lower down the feed rate.
	Too low feed rate	Δ								A	Increase the feed rate.
	Improper feed pressure	A	A	A	A	Δ	A	•	Δ	Δ	Adjust the feed pressure.
	Guides too far apart		A	Δ	A	Δ	A	A	Δ	A	Adjust the guides.
	Too high blade tension			A				Δ			Reduce the band saw blade tension.
	Too low blade tension		A		A	•	Δ		A	A	Increase the band saw blade tension.
	Worn or damaged back-up guide or guide rollers	•	A	A	A	Δ	Δ			A	Change the worn parts.
	Incorrect blade speed		•	Δ	A	•	A	Δ	Δ	A	Check the main drive gears, bearings lifting mechanism of the frame.
	Incorrect installed brush		A		Δ	A	A				Check the brush.
	Inconsistent Saw frame feed	•	•	•		•	A	Δ	Δ	A	Check if there is air in the cylinder, whether the oil is deteriorating and the cylinder is worn or not.
Band	saw blade rubbing against bandsaw machine wheel flange			A			A	•			Check the alignment of the bandsaw machine wheels.
	Poor material clamping		A	Δ	A	\triangle	Δ			A	Check the vise or repair it.
	Wrong traverse path of the bandsaw	Δ			A						Check the perpendicular traverse path of the frame,
	Slippage of the driving belt on the driving wheel		•			\triangle	Δ		•	A	Check the belt tension or check for worn driving wheel.
	Vibration of the entire machine	•	A	Δ		A	A	A		A .	The machine maybe installed improperly or there is some vibration source from other parts.
	Wrong cutting fluid	•	Δ			Δ		A		Δ	Change to correct cutting fluid.
	Insufficient cutting fluid supply	A	Δ	A		Δ		A		Δ	Check the fluid hoses, increase the volume of the fluid, both on the cutting section and the insert section.
	Improper concentration	•				•		Δ			Adjust the concentration according to the brochure of the lubricant.
	Inappropriate blade type or blade pitch	A	A			Δ	A	Δ		Δ	Select the pitch and blade type according to the application.
	Insufficient break-in process	•	•			Δ					Perform sufficient break in process.
	Cut product Jamming, too much edged burrs	A	A			Δ		Δ	Δ	Δ	Proper break-in procedure, proper cutting parameters, proper lubricant application.
	Corroded blade	•		•				Δ			Stored too long, Humidity is too high. Or the lubricant is corrosive.
	Too much wear of the blade		Δ	A	A	Δ		A	Δ	A .	Change the blade .
	Damaged teeth		•				Δ	Δ		Δ	Change the blade
	Bad butt weld	Δ	A	A		Δ	A	Δ		Δ	Re-weld or change the blade.
	Unknown material	•	Δ		Δ			Δ		Δ	Check the details of materials. Set the cutting parameter according to the chart.
	Hard points inside the material or hard surface	A	A		Δ			•		Δ	Adjust the parameters, usually, need to lower down the speed or select a more protective teeth profile.
	Too low rigidity of the material	Δ	•			•	Δ	•		Δ	Proper tooth form and proper parameters. Proper Clamping method.
	Irregular shape		A	A	Δ	Δ	A		Δ	Δ	Find the right clamping method.
	Finished parts interrupt the bandsaw operation		A	A					Δ		Clear the parts and chips in time.

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THIN KERF CERMET CIRCULAR SAW BLADE









The Thin kerf circular saw blade is made of metal and ceramic. The advantages of the metal material are toughness and bending resistance, and high temperature resistance, high strength and oxidation resistance are the advantages of ceramic material. Cold sawing cermet circular saw blades features with low density, high hardness, wears resistance and good thermal conductivity. Moreover, it is anti-fragilefor shock cooling or shock heating.

The saw body is made of high quality steel and processed by laser cutting technology to further ensure the stability and durability during the cutting.

Special designed teeth profile for metal cutting, which guarantees stability and good finishing of the cut surface during the cutting.

The purpose is to achieve high quality sawing effect, providing customers with high cost-effective sawing operations.



ST Series Thin Kerf Cermet Circular Saw Blade





PRODUCT ASSORTMENT

Out Diameter	Plate Thickness	Kerf Thickness	Bore Diamete	Number r of Teeth
160	1.5	1.8	40	49T
180	1.7	1.8	40	54T
200	1.7	2.0	40	54T
230	1.7	2.0	40	60T
250	1.7/1.75	2.0	32	54T/60T/72T/80T/90T/100T/120T
285	1.7/1.75	2.0	32	40T/60T/72T/80T/100T/120T/140T
300	1.75/2.0	2.0	32	S0T/54T/60T/72T/80T
315	2.0	2.25	32	54T/60T/72T/80T/100T/120T/130T
330	2.0	2.25	32	60T/72T/80T/100T/120T
360	2.25	2.6	40	40T/60T/72T/80T/100T/120T
380	2.25	2.6	40	40T/50T/54T/60T/72T/80T/100T/120
400	2.25	2.7	50	50T/60T/72T/80T
425	2.25	2.7	50	60T/72T/80T/100T
460	2.25	2.7	50	40T/50T/54T/60T/72T/80T/100T/120T
485	2.25	2.7	50	40T/60T/72T/80T/100T/120T
520	2.5	2.7	50	48T/60T/80T/100T
530	2.5	2.7	50	72T
560	2.5	3.0	50	60T
630	2.7	3.4	80	60T/72T/80T/100T/120T
650	2.7	3.4	80	100T

FEATURES

- · Designed for cutting sticky materials
- · Keep high precision in normal speed
- · Excelent surface finish on cutting surface
- · Suitable for cutting copper, aluminum, mild steel materials.

SPECIFICATIONS

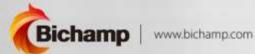
- · Application: low carbon steel (stickler steel) (Mechanical structure carbon steel, Aluminum and copper of carbon contents within 45%)
- Parameter:

Line speed 100~150m/min

Feeding speed: 0.05~0.10mm (Adjustable according to different equipment or cutting material)

- · Cutting fluid: Special cooling lubricants
- · Tooth tip material: Cermet
- Plate material: SKS51





HI Series Thin Kerf Cermet Circular Saw Blade





PRODUCT ASSORTMENT

Out Diameter	Plate Thickness	Kerf Thickness	Bore Diameter	Number of Teeth
160	1.5	1.8	32	487
180	1.5	1.8	32	54T
200	1.7	2.0	32	54T
230	1.7	2.0	32	60T
250	1.7/1.75	2.0	32	60/72/80/90/100T
285	1.7/1.75	2.0	32/40	60/72/80/100/120T
300	1.7/1.75	2.0	32	54/60/72/80/100T
315	2.0	2.25	32	60/72/80/100/120T
330	2.0	2.25	32	60/72/80/100/120T
360	2.25	2.6	40/50	60/72/80/100/120T
380	2.25	2.6	40/50	60/72/80/100/120T
400	2.25	2.7	50	50/60/72/80T
425	2.25	2.7	50	60/72/80/100T
460	2.25	2.7	50	50/60/72/80/100/1201
485	2.25	2.7	50	60/72/80/100/120T
520	2.5	3.0	50	60/72/80/100T
560	2.5	3.0	50	60/72/80/100T
630	2.7	3.4	80	60/72/80/100/120T

FEATURES

- · Qualified for high speed cutting with improved life. To keep longer life for cutting with normal speed
- · Improved life under complex cutting conditions
- · High performance in cutting high carbon steel materials.
- · Avoid blade scuffing during cutting

SPECIFICATIONS

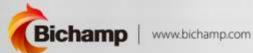
- · Application: medium and high carbon steel (Mechanical structure carbon steel, alloy steel of 0.25%~0.60% carbon contents)
- · Parameter:

Line speed 100-130m/min

Feeding speed: 0.05-0.10mm (Adjustable according to different equipment or cutting material)

- Cutting fluid: Special cooling lubricants
- · Tooth tip material: Cermet
- Plate material: SKS51





C Series Coated Circular Saw Blade





PRODUCT ASSORTMENT

Out Diameter	Plate Thickness	Kerf Thickness	Bore Diamete	Number r of Teeth
160	1.5	1.8	40	.48T
180	1.7	1.8	40	54T
200	3.7	2.0	40	54T
230	1.7	2.0	40	60T
250	1.7/1.75	2.0	32	54T/60T/72T/80T/90T/100T/120T
285	1.7/1.75	2.0	32	40T/60T/72T/80T/100T/120T/140T
300	1.75/2.0	2.0	32	50T/54T/60T/72T/80T
315	2.0	2.25	32	54T/60T/72T/80T/100T/120T/130T
330	2.0	2.25	32	60T/72T/80T/100T/120T
360	2.25	2.6	40	40T/60T/72T/80T/100T/120T
380	2.25	2.6	40	40T/50T/54T/60T/72T/80T/100T/120
400	2.25	2.7	50	50T/60T/72T/80T
425	2.25	2.7	50	601/721/801/1001
460	2.25	2.7	50	40T/50T/54T/60T/72T/80T/100T/120
485	2.25	2.7	50	40T/60T/72T/80T/100T/120T
520	2.5	2.7	50	481/601/801/1001
530	2.5	2.7	50	72T
560	2.5	3.0	50	60T
630	2.7	3.4	80	60T/72T/80T/100T/120T
650	2.7	3.4	80	1007

FEATURES

- · Suitable for high speed cutting
- · High cutting precision with excellent surface finish on cutting surface
- . Improved life and cutting efficiency due to reduced coefficient of friction and the temperature on teeth during cutting.
- · Multi purpose (Such as: low carbon steel, medium carbon steel, high carbon steel application characteristics)
- · 30-50% increased on both service life and cutting efficiency compare with ST series and HIseries

SPECIFICATIONS

- · Application: high carbon and medium carbon steel (Mechanical structure carbon steel, alloy steel of 0.60%-1.7% carbon contents)
- · Parameter:

Line speed 100~130m/min

Feeding speed: 0.05~0.08mm (Adjustable according to different equipment or cutting material)

- · Cutting fluid: Special cooling lubricants
- · Tooth tip material: Cermet
- Plate material: SKS51



S Series Coated Carbide Circular Saw Blade





PRODUCT ASSORTMENT

Out Diameter	Plate Thickness	Kerf Thickness	Bore Diameter	Number of Teeth
250	1.7/1.75	2.0	32	54T/60T/72T/80T/100T/120T
285	1.7/1.75	2.0	32	54T/60T/72T/80T/100T/120T
315	2.0	2.25	32	60T/72T/80T/100T/120T
330	2.0	2.25	32	60T/72T/80T
360	2.25	2.6	40	54T/60T/72T/80T/100T/120T
380	2.25	2.6	40	54T/60T/72T/80T/100T/120T
425	2.25	2.7	50	60T/72T/80T/100T/120T
460	2.25	2.7	50	60T/80T/100T/120T
485	2.25	2.7	50	60T/80T
520	2.5	2.7	50	60T
560	2.5	3.0	50	60T
630	2.7	3.4	80	60T

FEATURES

- · Smooth and burr-free cutting surface
- · Stable cutting life
- High cutting precision
- Maximum cutting 20 square meters

SPECIFICATIONS

- · Application: stainless steel and special stainless steel
- Parameter:

Line speed 50~80m/min

Feeding speed: 0.02~0.05mm (Adjustable according to different equipment or cutting material)

- . Cutting fluid: Special cooling lubricants for cutting stainless steel
- · Tooth tip material: carbide
- Plate material: SKS51





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