

HACKSAW



HOLESAW

BANDSAW

ALFA BIMETAL BANDSAW

BIMETAL

Proven Reliable Efficient

An ISO 9001:2015 Certified Company

Introduction

By the mid 1950's Mr. R. K. Malhotra was considered as one of the top technical management consultant in the Europe & US companies in engineering, manufacturing, operations and commercial field. He was recognised as a specialist on alloy steel & cutting tools, research and development programmes and had distinct contribution to his client in that field. Under growing demand in the Indian subcontinent, he was requested to return to India in order to help the fledging Razor blade industry started by his family. By the end of the fifties, Mr. R. K. Malhotra had built an organization which dominated the Indian Razor blade, saws of all types and Engineer's steel files. In sixties the "Saws and Engineer's steel files" divisions were discontinued as Razor blade which offered the greatest potential were under great threat from power houses like Tata, Hindustan Unilever, Union Carbide, Warner Lambert, Pfizer, Brooke Bond and Gillette. Irrespective of these hurdles, Mr. R. K. Malhotra was by late seventies able to control 100% of the Indian Market and dominant share in more than a hundred countries all over the world. This record has perhaps never been equalled by company anywhere in the world.

By the late seventies, Mr. R. K. Malhotra was obliged to exit the razor blade business and it was not until 1986 that he once again started Super Max group in order to manufacture Razor blades again. By 2011, the Super Max organization was once again became the leading Razor blade manufacturer in India with a dominant share in home market as well as in more than two hundred countries all over the world.

It was dream of Mr. R. K. Malhotra to restart production of bi-metal saws in India and here is the dream come true...."ALFA Bi-metal Bandsaw BladesNothing cuts better." Company incorporated on August 2016 and is successfully delivering products from April 2017.

The increased cost of manufacturing today is forcing manufacturers and machine operators to seek more economical ways to cut metals. In latest demand of sawing business for cutting complex metals, the industries are looking for high tech bandsaw machines and blades having their unique combination for efficient cutting.

The information contained here is not meant to answer all of your band sawing questions. Each job is likely to present its own set of unique circumstances. However, by following the suggestions outlined here, you will be able to find economical and practical solutions more quickly.

Its Swans Management's commitment to provide best quality products with ever best economical cost supporting, best technical and service support to the customer.



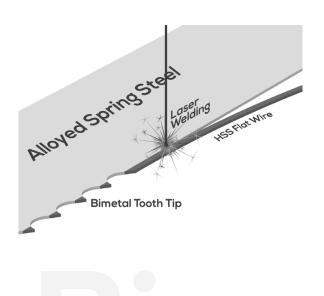
Bi-metal Manufacturing

While manufacturing bi-metal bandsaw blades at Alfa manufacturing facility the core vision lies in design and development from raw material to machine required for manufacturing the blade by using state of art technology.

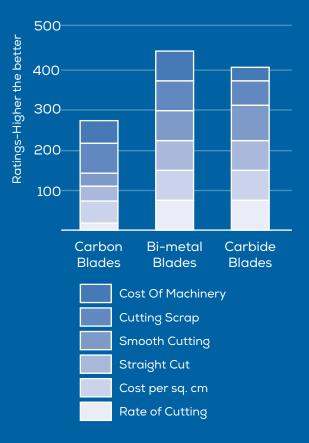
We have started with our own precision cold rolling mill and laser welding process for development of bi-metal strips with the world's best technology and equipment being used for production of quality products. This is the first successful proven research done in India.

Bi-metal Blade:

This blade is made up of two materials and hence termed as Bi-metal. Its back part is of alloyed spring steel and the cutting edge is of high speed steel which are welded together using laser welding technique. High speed steel used are of grade M42 (8% Cobalt) and M51 (10% Cobalt).

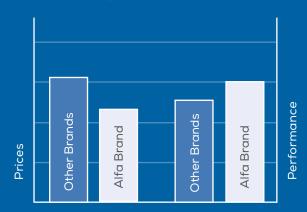


Why choose Bi-metal Blades?



Why choose Alfa?

Our objective is to provide best quality at economical price.



Our Manufacturing Strength

Rolling

Precision rolling without any stress on the tool steel is important to get optimum blade life. We have developed our own rolling mills to develop exclusive backup steel for our saw blades.



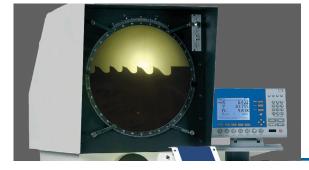
Laser Welding

Most critical process is bonding two dissimilar metal together by using laser source. We already succeeded in developing and operating laser welding process for welding HSS wire to best suitable backing steel.



Tooth Geometry

We have inhouse R&D setup for establishing unique tooth geometry for specific cutting applications. Milling of our saws are basically based on those geometries.



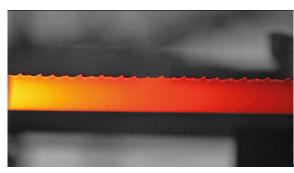
Quality Assurance

Quality is our culture and we have made our quality system in such a way which takes care of all input /output of the process and we assure to deliver best and consistent products to our customer.



Heat Treatments

Getting perfect and consistent martensitic structure to the cutting edge is very essential in any tool. We have high precision and reliable PLC controlled furnace developed for heat treatments which provide us optimum fatigue life to the saws.



ALFA|BLADES

Bi-metal Bandsaw Blade





ALFA BIMETAL BANDSAW

Specially designed skip tooth with large gullet space and standard rake angle

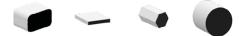
Size (mm)Constant TPIVariable TPI13 x 0.654, 10, 14, 186/10, 8/12, 10/1413 x 0.904, 10, 14, 186/10, 8/12, 10/1420 x 0.904, 8, 10, 14, 184/6, 5/8, 6/10, 8/12, 10/1427 x 0.904, 8, 10, 14, 184/6, 5/8, 6/10, 8/12, 10/1434 x 1.1044/6, 5/8, 6/10, 8/1241 x 1.3044/6, 5/8, 6/10
13 x 0.90 4, 10, 14, 18 6/10, 8/12, 10/14 20 x 0.90 4, 8, 10, 14, 18 4/6, 5/8, 6/10, 8/12, 10/14 27 x 0.90 4, 8, 10, 14, 18 4/6, 5/8, 6/10, 8/12, 10/14 34 x 1.10 4 4/6, 5/8, 6/10, 8/12
20 x 0.90 4, 8, 10, 14, 18 4/6, 5/8, 6/10, 8/12, 10/14 27 x 0.90 4, 8, 10, 14, 18 4/6, 5/8, 6/10, 8/12, 10/14 34 x 1.10 4 4/6, 5/8, 6/10, 8/12
27 x 0.90 4, 8, 10, 14, 18 4/6, 5/8, 6/10, 8/12, 10/14 34 x 1.10 4 4/6, 5/8, 6/10, 8/12
34 x 1.10 4 4/6, 5/8, 6/10, 8/12
41 x 1.30 4 4/6, 5/8, 6/10

Industry segment : General engineering, Infrastructure industries, Complex material cutting for R & D laboratories, Ship building industries, Steel Traders. **Speciality**

: Less aggressive cutting but longer life. Proven generally on Swing type machine.







Specially designed tooth geometry with positive rake angle having additional relief angle and deep gullet space.

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Deep drawing steel Machine steel Spring steel Medium alloy steel Nitriding steel Stainless steel

Size (mm)	Variable
20 x 0.90	3/4, 4/6, 5/8
27 x 0.90	2/3, 3/4, 4/6, 5/8
34 x 1.10	2/3, 3/4, 4/6, 5/8
41 x 1.30	1.4/2, 2/3, 3/4, 4/6, 5/8
54 x 1.60	1.4/2, 2/3, 3/4, 4/6
67 x 1.60	1.4/2, 2/3, 3/4, 4/6
80 x 1.60	3/4

Industry segment : Automobile industry, Steel traders, Steel Manufacturing industries, Complex material cutting for R & D laboratories, Ship building industry.

Speciality

: Aggressive cutting with optimum blade life. Proven for Alloy steel on both Swing & Double column bandsaw machines.

Bi-metal Bandsaw Blade



SW-AL



Specially designed skip tooth with shallow gullet space and positive rake angle.

Applicat		
	Constant TPI	Size (mm)
Aluminium die cas	6	13 x 0.65
Extrus	6	13 x 0.90
Non-ferrous me	3, 6	20 x 0.90
Non-ferrous all	3, 6	27 x 0.90
	3, 6	34 x 1.10
	2	41 × 1.30

Industry segment : Automobile industries, Aluminium forge, Casting industries, Bus body building.

: Very aggressive cutting. Specially designed for vertical bandsaw operation with die casting cutting application. Reduces stress on operator while manual feed cutting.



Specially designed tooth geometry with positive rake angle having additional relief angle and deep gullet space.

Size (mm)	Variable TPI
41 x 1.30	1.4/2
54 x 1.60	1.4/2
67 x 1.60	1/1.3, 1.4/2, 0.75/1.25
80 x 1.60	1/1.3, 1.4/2, 0.75/1.25

Quenched and Tempered steel
Case hardened steel
Nitriding steel
High speed steel
Rust and heat resistant steel

Application

Industry segment : Steel sectors, Steel traders, Automobile industries, Forging industries, Casting industries.

Speciality : Very aggressive cutting with better blade life. Better chip carrying capacity and faster cuts. Suitable for Double column machines.

ALFA|BLADES

Speciality

errupted Cutting SW-IC

ALFA BIMETAL BANDSAW

Specially designed tooth geometry having strong tooth for absorbing shocks due to interrupted cut.

Size (mm)	Variable TPI
20 x 0.90	4/6, 5/7, 5/8
27 x 0.90	2/3, 3/4, 4/6, 5/7, 5/8
34 x 1.10	2/3, 3/4, 4/6, 5/7, 5/8
41 x 1.30	2/3, 3/4, 4/6, 5/8
54 x 1.60	2/3, 3/4, 4/6
67 x 1.60	2/3, 3/4

Industry segment : Infrastructure industry, Railway workshop, Bus body building. Steel traders.

: Aggressive tough tooth, designed to cut bundles, structural steel or solids with longer blades life. Suitable for swing & double column bandsaw machines.

Think smart before you start__

Safety tips for bandsaw blades

- Caution to be maintained while opening welded loops as they are packed under tension. Necessary guidelines are from your nearest Alfa representative or at info@alfablades.com.
- Safety precautions like safety shoes, glass and gloves are recommended for use while unpacking and mounting of blades on machine.
- Remove tooth safety guard while mounting the blade on the machine.
- Close wheel cover of the machine during cutting operation.
- Turn of the main-switch during blade change.
- Follow ddditional safety instructions available in your band saw machine manual.
- Check for brush wheel and use recommended coolants.

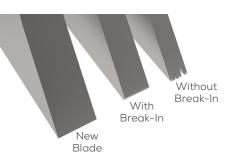
BREAK-IN

Speciality

A new band saw blade has razor sharp tooth tips. In order to withstand the cutting pressures used in band sawing, tooth tips should be honed to form micro-fine radius. Failure to perform this honing will cause microscopic damage to the tip of the teeth, resulting in reduced blade life.

BREAK-IN PROCEDURE

- Select the proper band speed for the material to be cut.
- Reduce the feed rate intially.
- Begin the first cut at the reduced rate. Make sure the teeth are forming a chip.
- Small adjustment to the band speed may be in the event of excessive noise/vibration.
- During the first cut, increase feed rate slightly once the blade fully enters the work piece.



	Stock Dimension	Up to 25mm		From 2	25-75m	nm	From 7	5-150n	nm	Over 150 mm			
	Tooth Pitch		10/14, 8/12, 6/10, 5/8, 24, 18, 14, 10, 6		5/8,6,4	5/8, 6, 4/6, 3/4,4		3/4,	2/3,3		2/3, 1.4/2, 0.75/1.25 1.25, 0.75		
Material (Annealed)	Grade	Band Speed (mtr/min)	Cut Ro	ting ate /min) Max	Band Speed (mtr/min)	Ro	tting ate /min) Max	Band Speed (mtr/min)	R	ting ate /min) Max	Band Speed (mtr/min)	Cut Ro	ting ite /min) Max
Carbon Steels	1008-1030 1015-1018 1048-1065 1065-1095	73 70 62 60	52 58 32 20	65 84 45 38	66 66 58 53	64 84 38 32	96 110 52 45	62 62 55 50	84 96 52 38	110 130 70 52	58 58 50 45	70 70 45 32	103 110 64 52
Free Machining Steels	1008-1111 1112-1113 1115-1132 1137-1151 1212-113	90 90 85 80 90	58 58 58 32 58	71 77 84 52 77	79 79 74 70 79	70 70 70 45 70	90 96 103 64 96	75 75 70 65 75	84 96 90 64 90	97 116 122 84 122	68 68 65 62 68	71 77 77 52 84	90 96 110 77 110
Manganese Steels	1320-1330 1335-1345	75 70	26 26	4 45	66 62	32 38	52 52	62 58	52 52	70 70	58 54	38 38	58 58
Nickel Chrome Steels	3115-3130 3135-3135 3310-3315	78 65 60	26 26 19	39 39 26	70 58 52	32 26 26	45 45 32	65 54 50	32 39 32	45 52 45	60 50 46	32 32 26	45 52 39
Molybdenum Steels	4017-4024 4032-404 4047-468	90 85 75	32 26 12	58 45 38	80 75 66	45 38 32	70 58 52	75 70 6	58 58 38	84 84 64	70 65 58	52 52 32	77 77 52
Chrome Moly Steels	4130-4140 4142-4150 4317-4320	85 70 75	26 12 26	45 38 38	75 62 66	38 32 32	58 52 52	70 58 62	58 38 38	84 64 58	65 54 58	52 32 32	77 52 52
Nickel Chrome Moly Steels	4337-4340 8615-8627 8630-8645 8647-8660 8715-8750	70 75 75 65 75	26 26 20 12 19	38 38 32 26 32	62 66 66 58 66	26 32 26 20 23	45 45 38 32 39	58 62 62 54 62	32 38 32 26 32	52 52 45 38 45	54 58 58 50 58	26 26 26 20 26	45 45 32 39
	9310-9317 9437-9445 9747-9763 9840-9850	60 75 75 72	7 26 20 26	19 32 32 32	54 66 66 64	13 26 26 26	19 32 38 39	50 62 62 60	13 32 26 32	26 36 45 45	46 58 58 56	13 26 20 26	19 32 38 39
Nickel Moly Steels	4608-4621 4640 4812-4820	75 65 60	19 19 19	32 32 32	66 58 54	32 26 19	39 39 32	62 54 50	39 32 26	45 45 39	58 50 46	32 26 26	39 39 32
Chrome Steels	5045-5046 5120-5135 5140-5160 50100-52100	85 85 75 55	26 26 19 13	39 39 32 26	75 75 66 48	32 39 26 19	45 45 39 32	70 70 62 46	52 45 32 26	65 52 45 39	65 65 58 42	45 32 26 19	52 5 39 32
Chrome Vanadium Steels	6117-6210 6145-6152	68 64	26 19	32 26	60 58	32 26	45 32	56 54	39 32	52 39	52 50	32 26	45 32
Silicon Steels	9255-9260 9261-6262 T-1,T-2	60 55 40	13 6 6	26 19 13	54 48 26	19 13 13	32 19 19	50 46 33	19 13 13	32 26 26	46 42 30	19 13 13	3 19 19
High Speed Steels	T-4,T-5 T-6,T-8 T-15 M-1 M-2,M-3 M-4,M-10	33 33 25 45 35 30	6 6 6 6 6	13 13 13 13 13 13 13	30 30 22 40 30 26	6 6 13 13 6	13 13 13 26 19 13	28 28 20 36 28 28 24	13 6 6 19 19 6	19 13 13 32 26 19	24 24 18 34 25 22	4 4 13 13 6	11 11 11 26 19 13
Die Steels	M-4,M-10 A-2 D-2,D-3 D-7 O-1,O-2 O-6	63 33 27 70 68	13 6 6 19 19	13 19 13 11 26 26	26 55 30 24 62 60	6 19 6 26 26	13 26 13 11 32 39	24 52 26 22 58 56	6 19 6 32 32	19 26 13 11 39 45	22 48 24 20 54 52	6 13 6 4 26 26	13 19 13 10 32 39



Recommended Speed/Feed Chart

	Stock Up to 25mm Dimension		From 2	25-75m	nm	From 7	5-150n	nm	Over 150 mm 2/3, 1.4/2, 0.75/1.25, 1.25, 0.75				
Tooth Pitch		10/14, 8/1 24, 18	2, 6/10 , 14, 10,		5/8,6,4	4/6,3/	4, 4	3/4, 2/3, 3					
Material (Annealed)	Grade	Band Speed (mtr/min)	Cut Re	tting ate /min)	Band Speed (mtr/min)	R	tting ate ²/min)	Band Speed (mtr/min)	R	tting ate /min)	Band Speed (mtr/min)	Cut Re	tting ate /min)
			Min	Max		Min	Max		Min	Max		Min	Max
Special Purpose	L-6	59	10	24	52	19	32	47	18	32	44	12	23
Tool Steels	L-7	58	10	24	51	17	32	48	16	31	44	12	23
	201-302	35	3	25	27	13	25	26	10	23	25	5	16
	303-305	42	3	24	36	11	26	36	17	29	29	11	24
	308-310	25	6	13	21	5	20	19	4	13	18	5	9
	314-317	24	6	8	22	3	22	22	3	9	17	3	9
	321-347	40	19	19	34	4	18	31	11	23	30	5	18
Stainless	410,420,420F	44	4	18	37	5	19	34	10	26	33	3	18
Steels	416,430F	58	5	31	52	24	39	48	30	45	45	24	36
	430,446	29	5	16	24	11	25	25	10	26	21	5	18
	440 A,B,C	34	12	17	27	3	17	25	10	26	25	6	16
	440F 443	44	З	19	40	6	19	34	10	23	34	5	19
	17-4PH,17-7PH	27	26	18	25	10	23	22	19	23	20	10	19
	A-7	27	11	11	23	З	12	22	11	18	19	10	18
Demulti	BHN 100-120	105	3	36	91	31	45	85	38	51	77	32	45
Beryllium Copper	BHN 220-250	73	4	25	65	18	32	60	33	37	58	18	31
coppe.	BHN 310-340	58	11	10	50	З	12	49	10	19	43	6	10
	Monel	27	4	13	26	4	12	25	4	11	21	6	13
	R Monel	39	З	16	37	13	25	35	12	24	30	10	17
	K Monel	30	6	13	23	4	9	20	5	10	20	4	10
Nickel Base	KR Monel	27	4	16	26	5	16	21	З	17	20	4	13
	Inconel	31	5	13	26	З	17	23	5	17	25	З	12
	Inconel X	24	5	10	21	4	8	21	4	9	18	З	10
	Hastelloy A	36	4	13	29	З	11	27	10	18	27	З	10
Alloy	Hastelloy B	33	6	8	28	4	З	23	4	10	23	6	11
	Hastelloy C	28	4	10	20	5	8	25	6	8	19	6	8
	Rene 41	25	6	12	24	3	8	19	5	10	19	4	10
	Udimit	29	3	12	25	5	11	25	3	13	20	6	12
	Wasalloy	25	3	10	23	5	10	22	3	9	20	4	9
	Titanium	28	4	10	24	12	17	23	13	17	20	10	17
	TI-140A 2CR-2MO	29	3	8	23	6	11	24	6	10	22	4	10
Titanium	TI-150A	28	5	8	26	4	11	24	3	10	19	6	9
Alloys	MST-6AL-4V	27	6	11	24	6	8	25	6	7	19	3	8
	99% Pure Titanium	29	4	8	24	6	8	24	5	10	21	4	7
	1100,2011,2017,2024	148	48	66	130	67	118	125	118	149	114	122	150
Aluminium	3003,5052,5086,6061	148	48	65	130	67	119	123	119	149	114	124	149
Alloys	6063,6160,6262,7075	149	40	68	129	68	119	124	115	148	114	124	149
	Aluminium Bronze	42	10	23	42	16	25	36	117	29	32	17	23
Bronze	Most others	42 68	36	23 57	42 60	64	25 74	36 58	62	75	53	42	23 58
	356, 360	102	42	60	92	91	123	85	123	136	80	42 134	163
		99	42 38		92 87		123						163
	353			52 48		79 51		81	100	110	75	114	
	1452, 187	100	36		88	51	89	83	99	108	72	110	136
	380, 544	94	34	47	84	50	90	77	83	101	71	105	125
	173, 932	89	30	42	80	43	79	73	70	88	70	87	113
	330, 356	85	25	37	75	38	67	69	69	78	63	79	103
Copper	623, 624	80	22	34	70	33	65	63	62	73	61	74	94
Alloys	230, 260, 272	74	20	31	63	31	60	62	57	67	57	69	87
	280, 464, 632, 655	75	21	32	66	30	58	59	58	70	55	71	90
	101, 102, 110, 122, 172	69	23	30	59	29	53	58	56	67	53	70	84
	1751, 182, 220, 510	67	21	31	60	31	53	56	56	65	51	70	86
	652, 706, 751, 934	70	22	29	61	32	54	58	54	68	52	70	83
	630	64	21	30	57	28	53	53	53	64	49	66	83
	811	59	18	26	53	29	48	50	49	59	45	61	78

Tooth Selection Chart

Diameter (mm)	0-10	10-15	15-20	20-30	30-75	75-150	150-250	250-500	500-900	900-1500
TPI	10/14	8/12	6/10	5/8	4/6	3/4	2/3	1.4/2	1/1.3	0.75/1.25

							Square/	Square/Rectangular Bar				
Diameter (mm)	0-10	10-15	15-20	20-25	25-50	50-100	100-200	200-400	400-800	800-1500		
TPI	10/14	8/12	6/10	5/8	4/6	3/4	2/3	1.4/2	1/1.3	0.75/1.25		

					Structuro	l Steel	TCIL
Diameter (mm)	0-3	3-4	4-5	5-7	7-15	15-30	30-50
TPI	10/14	8/12	6/10	5/8	4/6	3/4	2/3

									Pipes	Pipes / Tubes			0
Diameter (mm)	20	40	60	80	100	120	150	200	300	400	500	600	700
Thickness (mm)							TPI						
2	14	14	14	14	14	14	10/14	10/14	8/12	8/12	6/10	6/10	5/8
3	14	14	10/14	10/14	10/14	10/14	8/12	8/12	6/10	6/10	5/8	5/8	5/8
4	14	14	10/14	10/14	8/12	8/12	8/12	8/12	5/8	5/8	4/6	4/6	4/6
5	14	10/14	10/14	10/14	8/12	8/12	8/12	6/10	5/8	5/8	4/6	4/6	4/6
6	14	10/14	10/14	8/12	8/12	8/12	8/12	5/8	5/8	4/6	4/6	4/6	3/4
8	14	10/14	8/12	8/12	8/12	6/10	6/10	5/8	4/6	4/6	4/6	3/4	3/4
10		8/12	6/10	6/10	6/10	5/8	5/8	4/6	4/6	4/6	3/4	3/4	3/4
12		8/12	6/10	6/10	5/8	5/8	4/6	4/6	4/6	3/4	3/4	3/4	3/4
15		8/12	6/10	5/8	5/8	4/6	4/6	4/6	3/4	3/4	3/4	2/3	2/3
20			6/10	5/8	4/6	4/6	4/6	3/4	3/4	3/4	2/3	2/3	2/3
30				4/6	4/6	4/6	3/4	3/4	3/4	2/3	2/3	2/3	2/3
50						3/4	3/4	3/4	2/3	2/3	2/3	2/3	2/3
75								2/3	2/3	2/3	2/3	2/3	1.4/2
100									2/3	2/3	1.4/2	1.4/2	1.4/2
150										2/3	1.4/2	1.4/2	1.4/2
200											1.4/2	1.4/2	1.4/2

ALFA|BLADES

Bi-metal Holesaw Cutter

Universal Holesaw

Universal Holesaw are all purpose holesaw manufactured with bi-metal bandsaw strip of grade M42 (8% Cobalt). The strip is hardened and tempered in PLC controlled furnace to increase it's toughness and provide a better cutter life. It's tool geometry gives a smooth cut. It is a single piece construction with arbor and drill attached.



Features

Sizes

- Cutting depth is doubled compared to conventional saw.
- Specially design teeth geometry helps cutting variety of materials.
- Hardness & toughness of HSS teeth gives it a longer life.
- Useful in cutting of all different types of soft and hard materials.
- Cuts at higher speed with smooth finish.
- Rigid body construction.

Metric	Imperial
12 mm	1/2″
16 mm	5/8"
19 mm	3/4"
22 mm	7/8"
25 mm	1″
29 mm	1 1/8"
32 mm	1 1/4"
35 mm	1 3/8"
38 mm	1 1/2"

Metric	Imperial
40 mm	19/16"
44 mm	1 3/4"
48 mm	1 7/8"
51 mm	2″
54 mm	2 1/8"
57 mm	2 1/4"
60 mm	2 3/8"
64 mm	2 1/2"
67 mm	2 5/8"

Cutting Depth : 17 mm

	3
Metric	Imperial
70 mm	2 3/4"
76 mm	3″
79 mm	3 1/8"
83 mm	3 1/4"
86 mm	3 3/8"
89 mm	3 1/2"
92 mm	3 5/8"
95 mm	3 3/4"
102mm	4"

Universal

Product Catalogue

Bi-metal Holesaw Cutter

Precision Holesaw

Precision holesaw cutter are manufactured from self-made bi-metal strips of grade M42 (8% Cobalt) and is grounded to precise tolerance. It sustains higher temperature and has greater wear resistance. This provides smoother and faster cuts compared to conventional holesaw. Its improved variable tooth profile gives a precise and greater cutter life.

Features

Reduces cutting vibrations.

ALFA BLADES

- Cutting 30% faster than conventional Hole Saw.
- Provide extra swap clearance when cutting thicker metal section.
- Easier penetration into the material.
- Smooth cut and have less tendency to snag on while in contact with irregular surface.
- Hollow out material from the groove more efficiently.
- It is useful in cutting Cast Iron, Mild Steel, Cast Steels, Stainless Steel, Aluminium, Duralium,
- Inconel, Non Ferrous Alloys, Bakelite, Bronze, Brass, Wood, Hardwood, Metal, and Plaster Of Paris.
 Hole Saw is useful for variety of applications like production, maintenance, electrical panel
- manufacturer, electrical contractor, building contractor and carpenter.

				Curring	Deptil. 00 m
Metric	Imperial	Metric	Imperial	Metric	Imperial
12 mm	1/2"	54 mm	2 1/8"	105 mm	4 1/8"
14 mm	9/16"	57 mm	2 1/4"	108 mm	4 1/4"
16 mm	5/8"	60 mm	2 3/8"	111 mm	4 3/8"
19 mm	3/4"	64 mm	2 1/2"	114 mm	4 1/2"
22 mm	7/8"	67 mm	2 5/8"	121 mm	4 3/4"
25 mm	1 inch	70 mm	2 3/4"	127 mm	5"
29 mm	1 1/8"	76 mm	3 inch	133 mm	5 1/4"
32 mm	1 1/4"	79 mm	3 1/8"	140 mm	5 1/2"
35 mm	1 3/8"	83 mm	3 1/4"	152 mm	6"
38 mm	1 1/2"	86 mm	3 3/8"	160 mm	6 5/16"
40 mm	1 9/16"	89 mm	3 1/2"	183 mm	7 3/16"
44 mm	1 3/4"	92 mm	3 5/8"	210 mm	8 9/32"
48 mm	1 7/8"	95 mm	3 3/4"		
51 mm	2 inch	102mm	4 inch		

Sizes



Cutting Depth : 38 mm

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Holesaw Diameter		Mild Steel	Stainless &	Cast Iron	Brass &	Wood &	
Metric (mm)	Imperial (inch)	Mild Steel	Tool Steel	Cast Iron	Aluminium	Plastic	
14 - 25	9/16 - 1	580-350	300-175	400-235	790-470	800-500	
27 - 51	1 1/16 - 2	325-170	160-85	215-115	435-230	500-200	
52 - 76	2 1/16 - 3	165-115	80-55	110-75	220-150	200-150	
79 - 102	3 1/8 - 4	110-85	55-40	70-55	140-110	150-100	
105 - 210	4 1/8 - 8 9/32	80-40	40-20	55-25	110-60	100-60	

Recommended Speed/Feed Chart

Safety tips for holesaw cutter

- Always wear safety glasses.
- Keep hands, loose hair and clothing away from the rotating saws.
- Use oil or coolant on most metals except cast iron.
- Hold the Impact drill machine firmly and perpendicular to the work surface.
- Use enough pressure to ensure that the hole saw cuts and does not just "rub" the work. Make clear the chips frequently from hole saw.
- Run the hole saw at recommended speeds for the material to be cut and the diameter of the holesaw. Use a variable speed machine, if possible.
- Do not run the Saw too fast (see RPM chart).
- For tough cuts and production work, consider using our "locking arbor" which eliminates chatter and vibrations, extending the hole saw life.
- When sawing tough materials such as ceramics, it is sometimes a good idea to leave the drill in only long enough to allow the hole saw to penetrate the material and establish its position. Then take the drill out of the hole saw. This will lessen pressure, which will allow for a much faster cut.
- Coolant should be used, especially when cutting metals and fired ceramics.
- Always start with low (or recommended) speed (RPM).
 Speed can be increased as ease of cutting is noticed. Avoid extreme heat build-up on the cutting surface.

lf you don't think it's safe.lt probably isn't

Bi-metal Hacksaw Blade

Hand Hacksaw

Bi-Metal hand hacksaw blades have high-speed teeth electron beam-welded to tough, yet flexible die steel backing to produce the best possible performance in a premium quality blade. HSS tooth provides faster cut and a longer blade life.

Product Range

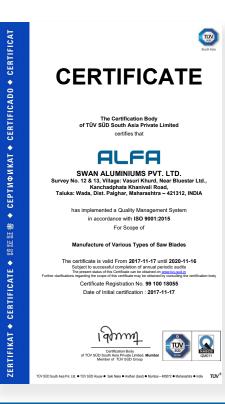
TPI	Size (Metric)	Size (Imperial)	Application
14	300 X 12.75 X 0.63 (mm)	12 X 1/2 X 0.025 (inch)	General Purpose
18	300 X 12.75 X 0.63 (mm)	12 X 1/2 X 0.025 (inch)	Heavy metals
24	300 X 12.75 X 0.63 (mm)	12 X 1/2 X 0.025 (inch)	Medium Metals
32	300 X 12.75 X 0.63 (mm)	12 X 1/2 X 0.025 (inch)	Soft Metals

Quality Standard

Our company is certified by TÜV SÜD quality mangement system which conform the best quality product at every stage of manufacturing process.



Quality management system certified by TÜV SÜD according to ISO 9001:2015

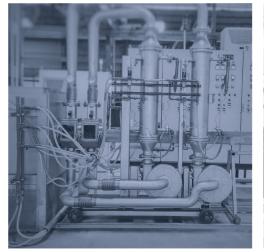




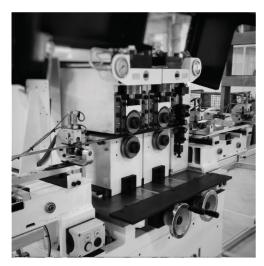
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WOOD SMETAL

BIMETAL M42 HIGH SPEED STEEL

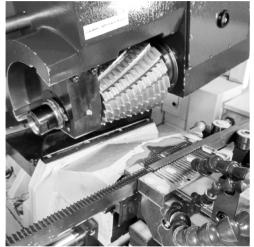


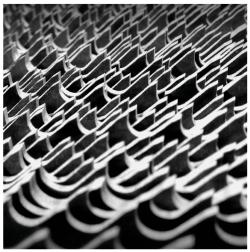




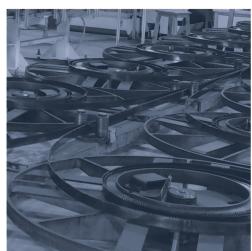




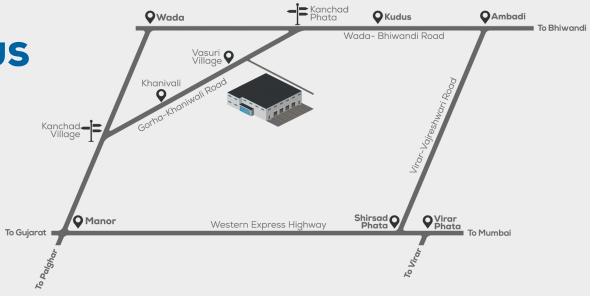








HOW TO REACH US





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