

ALFA PLUS

Bimetal Bandsaw Blade

COMPANY PROFILE

Alfa Precision Technologies has quickly established itself as a world leader in the arena of metal cutting. We are the largest manufacturer of bimetal bandsaw blades in India with a vision for continued improvisation according to the market demand. Our quality is well received in the Indian market as well as overseas. Our products are more cost effective than our competitors based on cost-per-cut yield. We cater to a multitude of industries ranging from aerospace to oil fields and structural engineering to name a few.

MANAGEMENT STATEMENT

DEAR ESTEEMED COLLEAGUES AND VALUED PARTNERS,

Today marks a pivotal moment in the history of our brand, Alfa. We're thrilled to announce our partnership with German steel to introduce a new premium brand "Alfa Plus". This collaboration aligns us with the industry bigwigs like all other world class quality manufacturers and I am beyond proud to share what sets our blades apart.



MISSION & VISSION

Our mission is to manufacture products of the highest quality at the right price whilst servicing all our stakeholders' requirements with the upmost priority. Our manufacturing is done at an optimum precision level with the best-in-class facilities. We are customer-obsessed and are continually committed to exceeding all expectations and shattering all glass ceilings.

WHY CHOOSE ALFA PLUS

1.

The collaboration with German steel ensures that every Alfa Plus blade is crafted using Special steel, which is synonymous with robustness and longevity.

2.

But what truly distinguishes Alfa Plus? It's the promise of delivering the cheapest cost per cut in the industry, coupled with the longest cutting life. While we position ourselves alongside top-tier brands, our primary commitment remains to provide unparalleled value.

3.

In an evolving landscape, Alfa has always endeavored to merge tradition with innovation. Today, with Alfa Plus, we raise the bar, offering solutions that are not only efficient but also remarkably cost-effective. This is not just an upgrade; it's a revolution in the world of bandsaw blades.



ALFA Premium Brand

**ALFA
PLUS**

COMPANY HISTORY

2013

In the nascent stages, we established a best in class automated cold rolling mill for the development of raw material. This included the first step towards the development of indigenous backup steel for the bandsaw.

2016

Establishment of first successful and consistent Laser welding process technology used for the development of bimetal strip as raw material for saws in India.

2017

Systematic manufacturing of a range of bimetal bandsaw blades, covering 70% of the existing global product line.

2018

Capture of the entire range of the bimetal bandsaw market with continuous manufacturing of global range

2019

In-house development of CNC production machines and heat treatment.

2023

Established 2 million mtrs production capacity.

2024

Partnership with steel manufacturing company of Germany to introduce a new premium brand "Alfa Plus".

QUALITY STANDARD

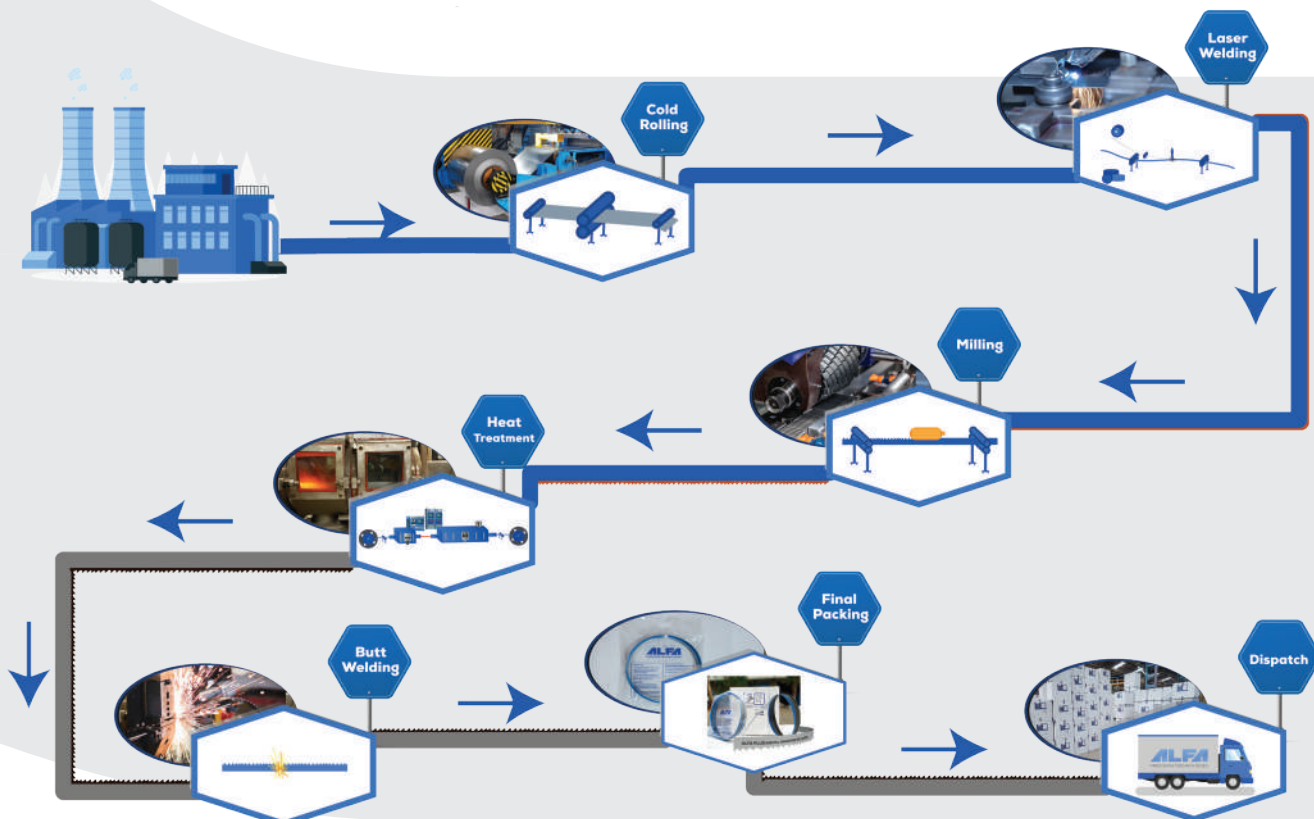
Our company is certified 9001:2015 quality management system by TUV SUD which confirm the best quality product at every stage of manufacturing process.



Quality management system
certified by TUV SUD according
to ISO 9001:2015

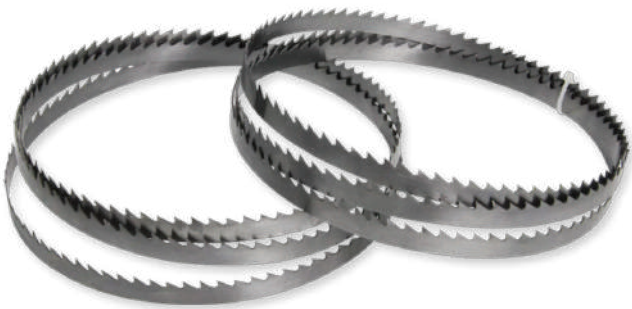
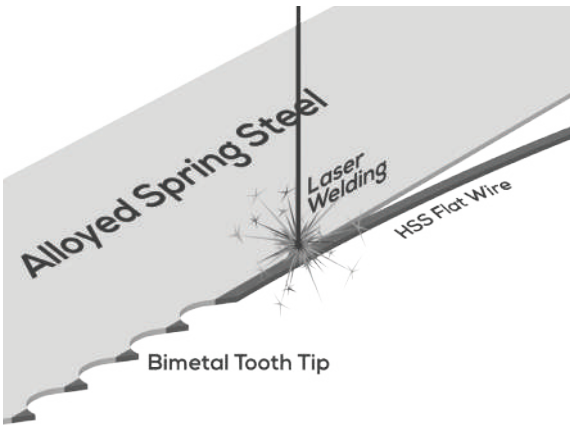


MANUFACTURING PROCESS FLOW



BIMETAL BANDSAW

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).



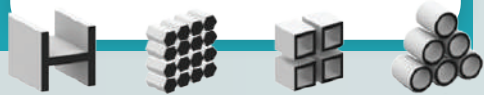
ELITE

FEATURES

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

APPLICATIONS

Bundle cutting
Tubing
Structural steel
Wire
TMT



TPI → Width X Thickness	2/3	3/4	4/6	5/7	5/8	8/11
13 X 0.65 MM						●
20 X 0.90 MM						●
27 X 0.90 MM	● ■	● ■	● ■	●	● ■	●
34 X 1.10 MM	● ■	● ■	● ■	●	●	
41 X 1.30 MM	● ■	● ■	● ■		●	
54 X 1.60 MM	● ■	● ■	●			
67 X 1.60 MM	● ■	● ■				
80 X 1.60 MM						

● M42 ■ M51

● ■ Represents regular stock. other Specs on request

VIRTUE

FEATURES

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

ALFA PLUS BIMETAL BANDSAW

APPLICATIONS

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

TPI → Width X Thickness	2/3	3/4	4/6	5/8
13 X 0.65 MM				
20 X 0.90 MM		●	●	●
27 X 0.90 MM	● ■	● ■	● ■	● ■
34 X 1.10 MM	● ■	● ■	● ■	●
41 X 1.30 MM	● ■	● ■	● ■	●
54 X 1.60 MM	● ■	● ■	●	
67 X 1.60 MM	● ■	● ■		
80 X 1.60 MM				

● M42 ■ M51 ● ■ Represents regular stock. other Specs on request

PRIMO

FEATURES

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

ALFA PLUS BIMETAL BANDSAW

APPLICATIONS

Mild steel
EN series
High carbon steels
Structural steels
Tool steels having large profiles
Solids (Upto 35 HRC)

TPI → Width X Thickness	4	10	14	18	6/10	8/12	10/14
13 X 0.65 MM		●	●	●	●	●	●
13 X 0.90 MM	●						
20 X 0.90 MM	●	●	●	●	●	●	●
27 X 0.90 MM	●	●	●		●	●	●
34 X 1.10 MM					●		

● M42 ■ M51 ● ■ Represents regular stock. other Specs on request

DAVY

FEATURES

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

ALFA PLUS BIMETAL BANDSAW

APPLICATIONS

Aluminium die casting
Extrusion
Non-ferrous material



TPI →	2	3	6
Width X Thickness			
13 X 0.65 MM			●
20 X 0.90 MM		●	●
27 X 0.90 MM		●	●
34 X 1.10 MM		●	●
41 X 1.30 MM	●		
54 X 1.60 MM	●		

● M42 ■ M51 ● ■ Represents regular stock. other Specs on request

WARRIOR

FEATURES

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

ALFA PLUS BIMETAL BANDSAW

APPLICATIONS

Quenched and Tempered steel
Case hardened steel
Nitriding steel
High speed steel



TPI →	1.4/2	0.75/1.25
Width X Thickness		
41 X 1.30 MM	● ■	
54 X 1.60 MM	● ■	
67 X 1.60 MM	● ■	● ■
80 X 1.60 MM	● ■	● ■

● M42 ■ M51 ● ■ Represents regular stock. other Specs on request

Tooth Selection Chart

Round Bar

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/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

Structural Steel

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/Tubes

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 PRECISION TECHNOLOGIES PVT. LTD.

ADDRESS

S.No. 12/13, Village-Vasuri Khurd,
Kanchadphata-Khanivali Road,
Tal-Wada, Dist- Palghar,
Pin-421312, MH, INDIA.

CONTACT

Mobile: +91 7038531681
Email : info@alfaprecision.tech
www.alfaprecision.tech