

ALFA

PRECISION TECHNOLOGIES

BIMETAL BANDSAW BLADE

ALFA BIMETAL BANDSAW

ALFA BIMETAL B

ALFA BIMETAL BANDSAW

Proven
Reliable
Efficient

An ISO 9001:2015 Certified Company

FOR INDUSTRIAL USE ONLY

INTRODUCTION

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.



// FOR THE INDUSTRY,
FROM THE INDUSTRY
BY THE INDUSTRY //

WHY CHOOSE ALFA ?

Our objective is to provide best Cost-Per-Cut.

Reliability

Our quality control systems are avant-garde with no room for quality compromise under any circumstances, thus letting our customers enjoy more productivity in terms of a higher yield. We have implemented the philosophies of ISO, Kaizen and Kanban and our employees are black belts in Six Sigma.

Growth-oriented

We are a holistic one stop shop cutting solutions provider for all your metal cutting needs. We are harboring ambitions to enter the manufacturing of machines and coolants and our state of the art **ALFACALC** enables you to best select a product suited to your needs. Kindly visit our webpage (www.alfaprecision.tech) for more details.

TECHNOLOGY A REVOLUTION

DEVELOPMENT
OF QUALITY RAW
MATERIAL IN
INDIA

LATEST CNC
MACHINE
DEVELOPMENT
IN INDIA FOR
PRODUCTION

QUALITY AN OPPORTUNITY

R & D CENTER IN
METAL SAWING
IN INDIA FOR
BEST QUALITY
DEVELOPMENT

VISION FOR
BUILDING WORLD
CLASS QUALITY
CONSTANTLY

COST THE NECESSITY

REVERSE AND
INTEGRATED
ENGINEERING FOR
REDUCTION IN
COST OF
MANUFACTURING

REDUCTION
IN
COST PER CUT
FOR THE
USER





OUR JOURNEY

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.

2018

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

2017

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

2019

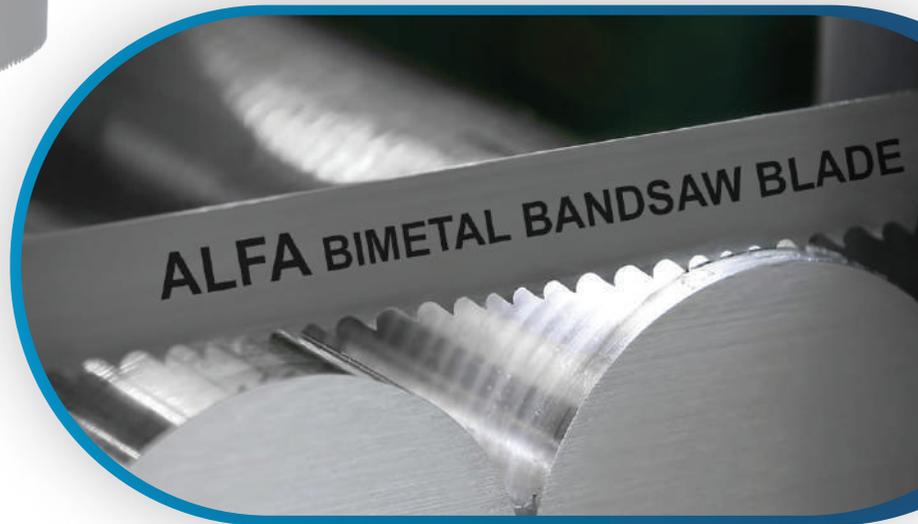
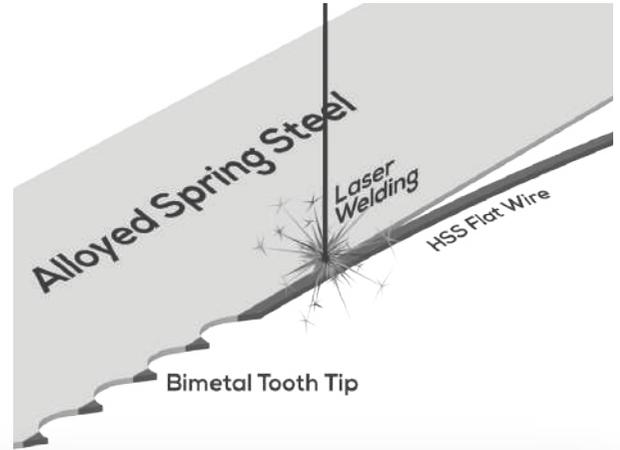
In-house development of CNC production machines and heat treatment.

Our Mission

Our mission is to manufacture products of the highest quality at the most economical price whilst servicing all our stakeholders' requirements with the utmost 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.

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).

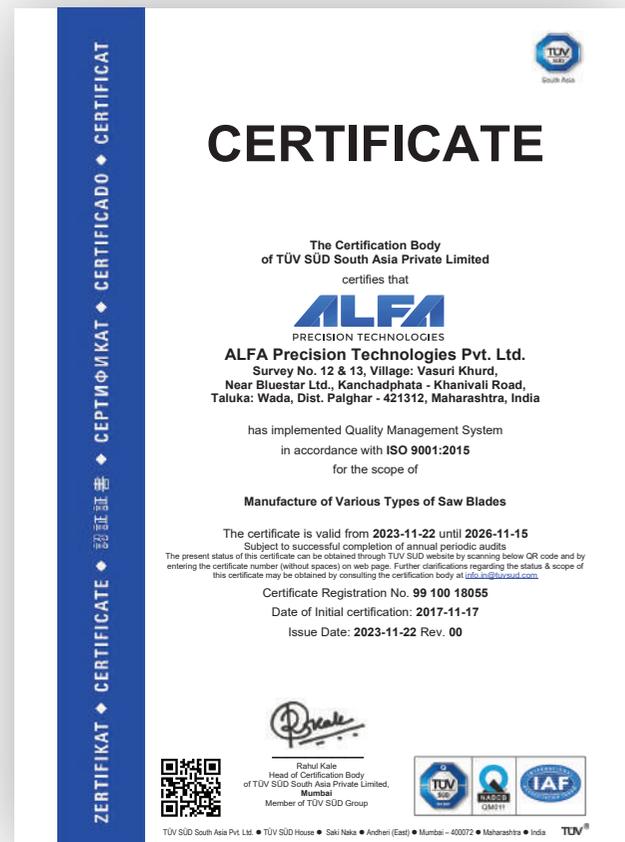


QUALITY STANDARD

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



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



Bimetal Bandsaw Manufacturing Processes



LASER WELDING



MILLING



SETTING



HARDENING



TEMPERING



SURFACE FINISHING



STRAIGHTENING & PRINTING



CUTTING



BUTT WELDING



STRIP COVERING



PRIMARY PACKING



SECONDARY PACKING

Bi-Metal Bandsaw Blade

Tooth Geometry-T1

Interrupted Cutting



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

Application

- Bundle cutting
- Tubing
- Structural steel
- Wire
- TMT

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

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

Bi-metal Bandsaw Blade

Tooth Geometry-T2



SW-MS



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

Application

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

Size (mm)	Constant TPI	Variable TPI
13 x 0.65	4, 10, 14, 18	6/10, 8/12, 10/14
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
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.

Tooth Geometry-T3



SW-SAS



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

Application

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.

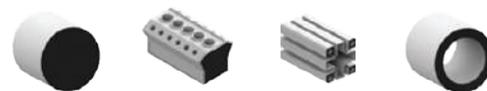
Bi-metal Bandsaw Blade

Tooth Geometry-T4



Aluminium

SW-AL



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

Size (mm)	Constant TPI
13 x 0.65	6
13 x 0.90	6
20 x 0.90	3, 6
27 x 0.90	3, 6
34 x 1.10	3, 6
41 x 1.30	2

Application

Aluminium die casting
Extrusion
Non-ferrous material

Industry segment : Automobile industries, Aluminium forge, Casting industries, Bus body building.
Speciality : Very aggressive cutting. Specially designed for vertical bandsaw operation with die casting cutting application. Reduces stress on operator while manual feed cutting.

Tooth Geometry-T5



Large Cross Sec

SW-LCT



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

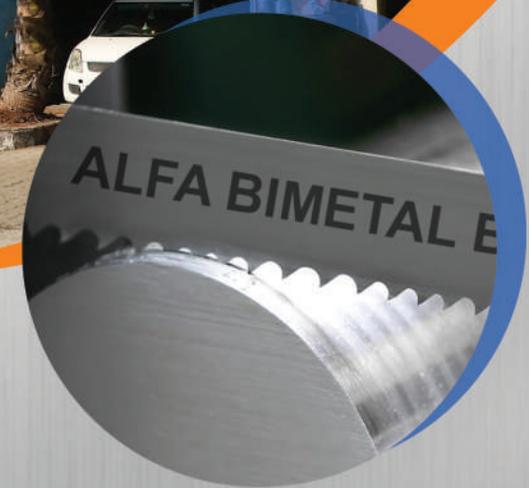
Size (mm)	Variable TPI
41 x 1.30	1.4/2
54 x 1.60	1.4/2
67 x 1.60	1/1.3, 1.4/2, 0.75/1.25
80 x 1.60	1/1.3, 1.4/2, 0.75/1.25

Application

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

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 Precision Technologies Pvt. Ltd.

FACTORY

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