

ATLAS

Engineering

**PRINTING & PACKAGING
INDUSTRY**



**GUILLOTINE &
TRIMMER KNIVES**

ABOUT ATLAS

ATLAS Engineering (ATLAS) is a powerhouse in the manufacture of Industrial Knives, Machinery Blades and Rolls based out of Noida, India. The company is led by a team of experts committed to producing the best quality knives for the most critical size reduction applications. All ATLAS products are designed and created to meet the custom requirements of our clients. We take great pride in our unique ability to deliver high precision tools made from European Steel at very affordable prices.

ATLAS's strength is in the large range of tools in its portfolio with straight knives up-to 4,500 mm in length and circular knives and rolls up-to 1,000 mm in diameter. Further, ATLAS carries a large stock of special steels and is able to cater to a large requirements with short and reliable delivery time. Our expertise lies in identifying the right materials for

the application, and our 65 years long experience in metallurgy and heat treatment allows our customers to extract maximum life from the tools we supply. ATLAS also offers end-to-end services, including but not limited to knife reconditioning, stocking programs and consultancy for users and original equipment manufacturers around the world

The company is committed to customer satisfaction and is represented by a young team of sales specialists well versed in the ways of global business. Another unique aspect of the team is the presence of industry experts from various fields who are able to bridge the gap between knife manufacturers and end users. The ATLAS team is now eight hundred members strong with over 100 graduate engineers and manufacturing units spread across 300,000 square feet and customers in over 75 countries.

QUALITY STEEL

We source our inlay material from the best steel mills in Europe. Each lot is subjected to a rigorous testing procedure in an external laboratory to ensure the micro and macro parameters conform to our internal international quality standards.

The backing material of the knives is made from high tensile low carbon structural grade steel to ensure the knives do not warp during shipment, storage and usage. This allows our customers to use the knives without any straightening requirements and recondition them easily on simple grinding machines.

HEAT TREATMENT

Before processing the raw material to make knives, a small piece of the raw steel is heat treated in the same conditions as the knives would be exposed to, to ensure the desired hardness and microstructure properties are achieved. Each type of special steel has its most suitable hardness range where it exhibits the best cutting results. After years of experience with users, machine manufacturers and specialists from the field we have been able to ascertain the best heat treatment cycles that allow our knives to-

- Hold the cutting edge without premature bending
- Prevent chipping
- Give sharp cuts without any burring of the paper stack

Brazed products are made in state of the art vacuum furnace sourced from Japan. The computer controlled environment of our heat treatment furnaces ensures consistency in quality.

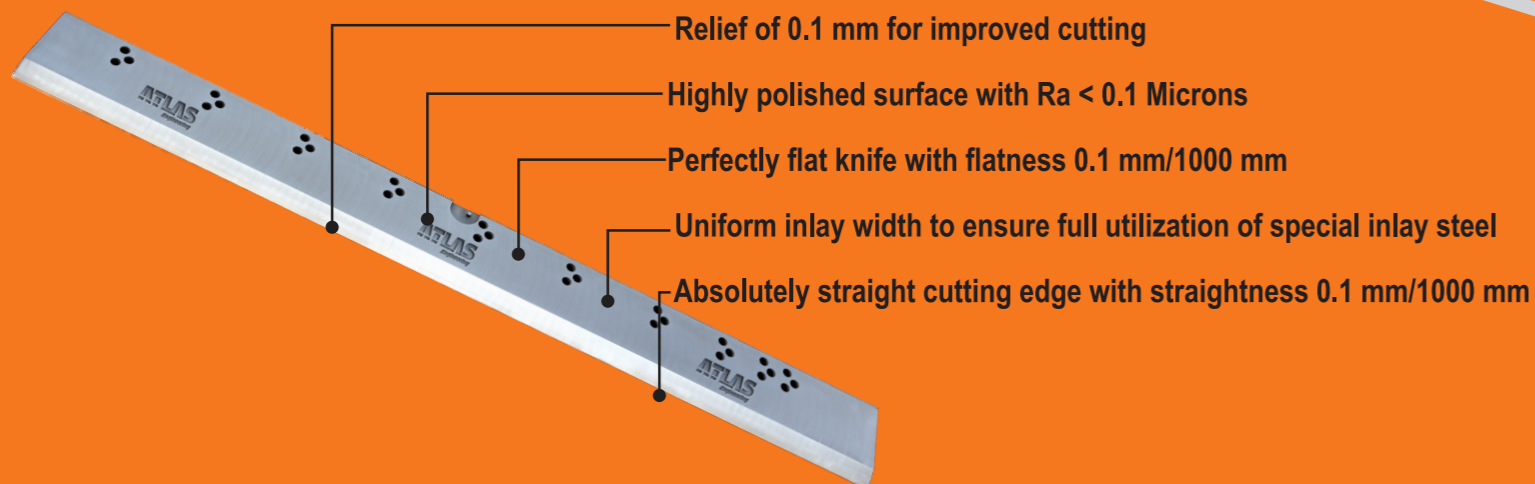


GUILLOTINE & TRIMMER KNIVES

We have over 3,000 knives (pre-machined, packed and ready to be delivered) in stock for all popular machines such as Polar, Perfecta, Itoh, Wohlenberg and more. We also carry a large inventory of heat treated knife blanks that can be converted to your unique designs in a matter of days. Many knives are supplied in "Universal" hole patterns that fit in all historic versions of the machine.

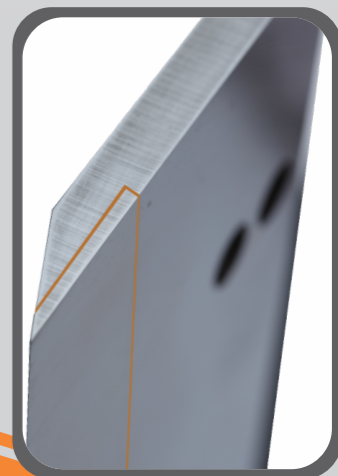
This ensures our knives always fit in your cutting machines and can be put to test right away. Fast and reliable international courier services allow us to get knives to you swiftly and safely.

DIMENSIONAL TOLERANCES



Three main qualities for different life and service expectations

Brand Name	ATLAS Supercut	ATLAS Ultra	ATLAS Futura
Inlay Material	Tungsten Based Tool Steel	18% Tungsten-High Speed Steel	Extra Fine-Tungsten Carbide
Hardness	60-62 HRC	62-64 HRC	75-80 HRC
Life Between Resharpener	3 Shifts	10 Shifts	50 Shifts
Machine Downtime	Medium	Low	Very Low
Paper Stack Height	80%	95%	100%
Suited For	Quality Conscious Medium Volume User	Precision & Quality Conscious High Volume User	Precision & Quality Conscious Extra High Volume User



PRICE AND UTILITY COMPARISON

At ATLAS we offer customer different options of economy and life. We guide them through the purchase process to ensure their requirements are not over-engineered based on the condition of their equipment, grinding facilities and application. In our experience ATLAS Ultra is the best combination of life and long term economy, however we would like to present the below chart for your perusal-

S.No	Brand Name	ATLAS Supercut	ATLAS Ultra	ATLAS Futura
1	Relative Price ¹	100	300	800
2	Inlay Width ²	75 mm	65 mm	25
3	Grinding Width Loss ³	1.50 mm	1.00 mm	0.40 mm
4	Number of Grinds (2/3)	50	65	62.5
5	Life Between Resharpener ⁴	3 Shifts	10 Shifts	50 Shifts
6	Total Life (4x5)	210 Shifts	800 Shifts	3125 Shifts
7	Relative Grind Cost ⁵	1 Per Grind	1 Per Grind	30 Per Grind
8	Life Cycle Cost (1+(7x4))	150	365	2675
9	Relative Per Shift Cost (8/6)	0.70	0.45	0.85
10	Suited For	Low volume price conscious user.	Medium Volume User who is price conscious.	High Volume user who does not want to stop machine routinely.
11	Other Features	Moderate precision & slightly noisy cut	High precision cut Silent Cutting	Very high precision cut Extremely silent cutting

¹ Price is relative and approximate for ease of calculation

² Inlay Width for ATLAS made Polar 115 Knife

³ Width Loss based on most suitable grinding wheel

⁴ Trial done in an 8 hour long shift with moderate workload

⁵ Cost based on Atlas reconditioning charges

ATLAS

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Sister Company : Extra Sharp Tool and Knives

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