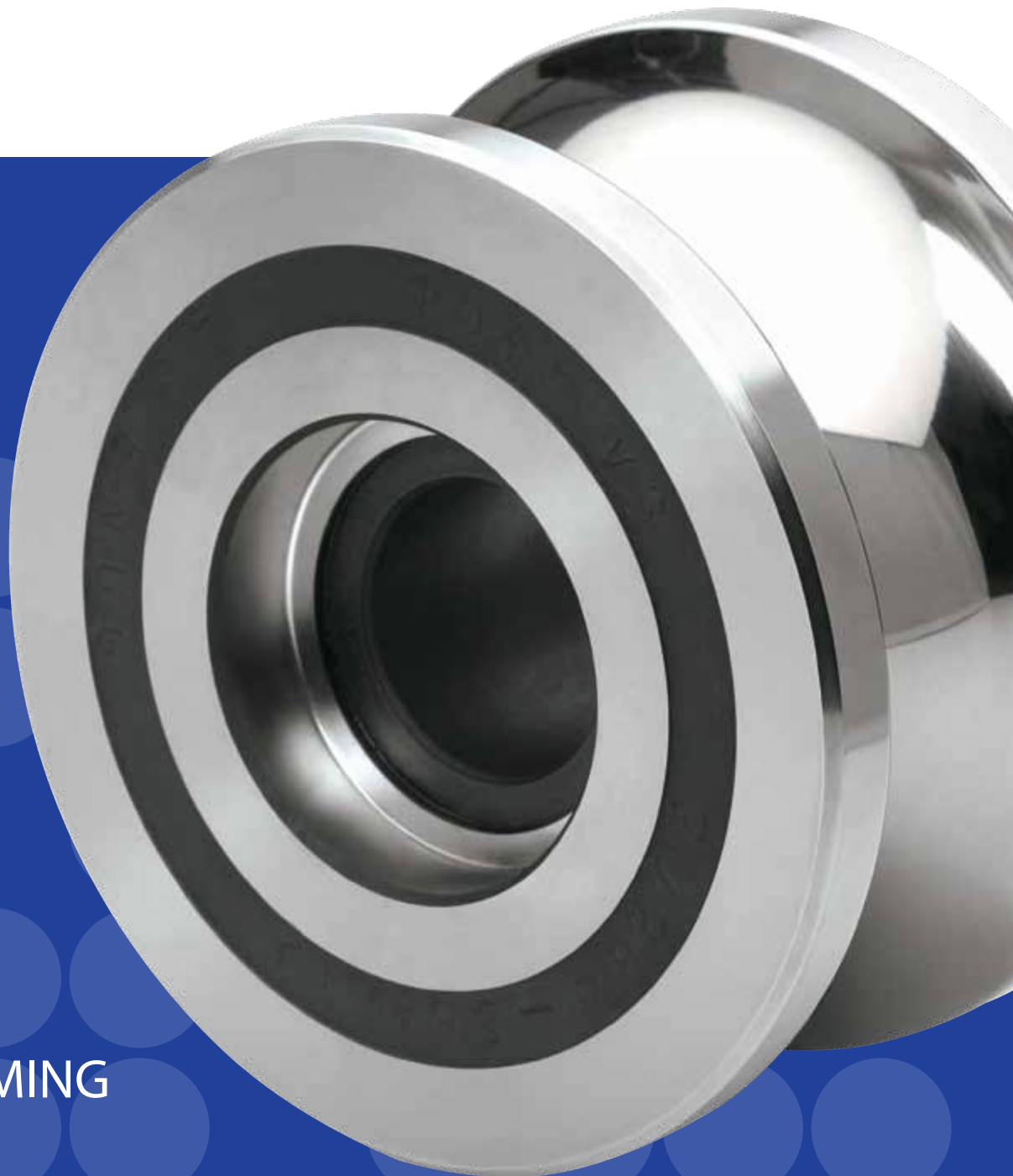


# ATLAS

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giving you the **EDGE**, to stay **AHEAD**.

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TUBE &  
METAL FORMING

# DESIGN & TECHNOLOGY

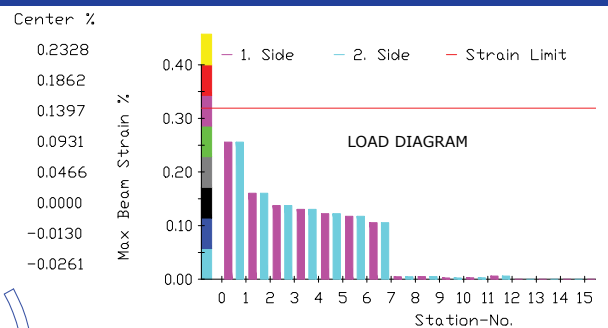
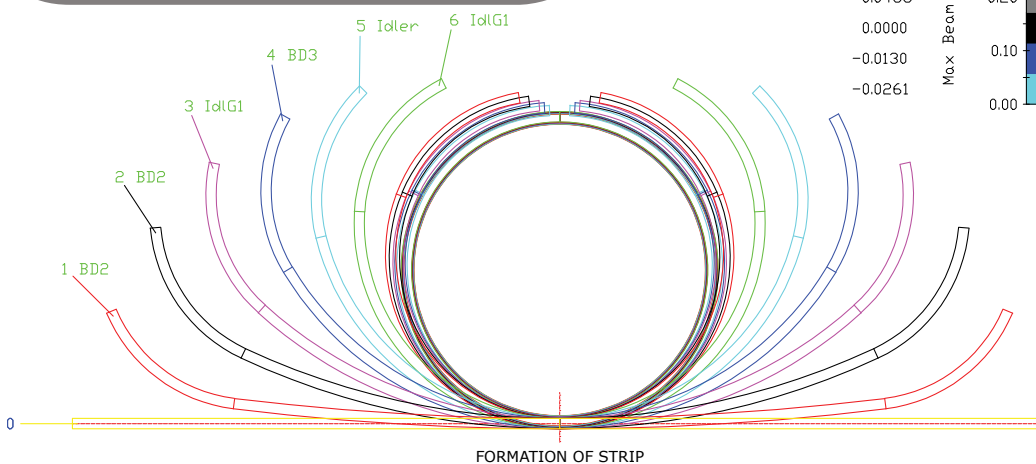
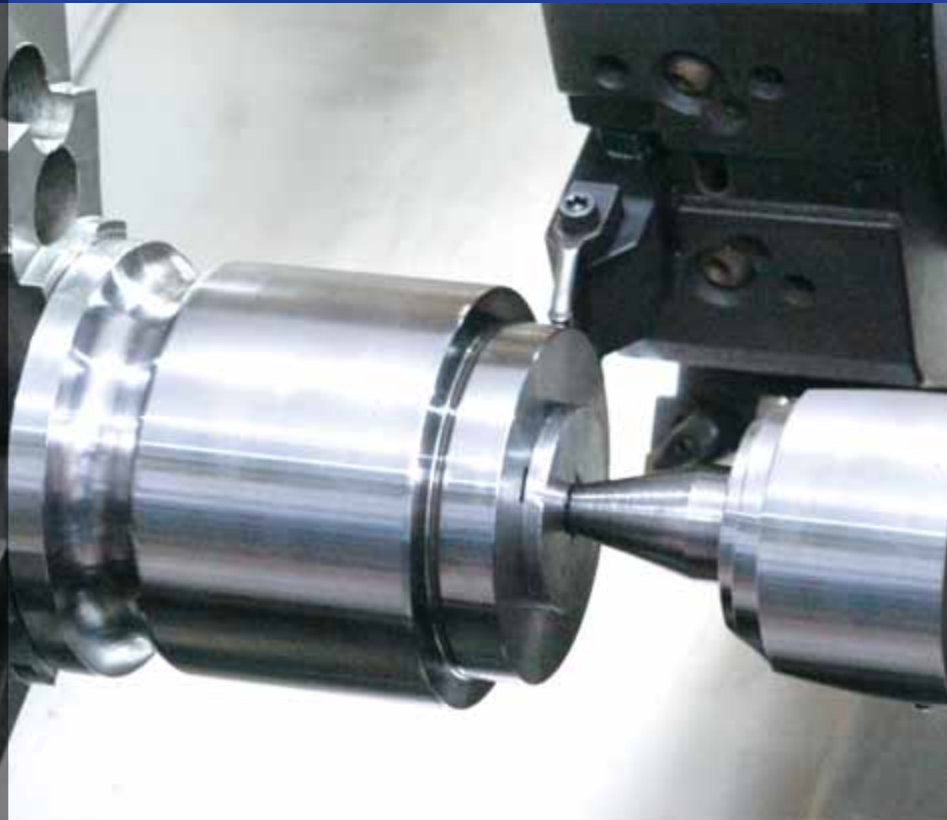
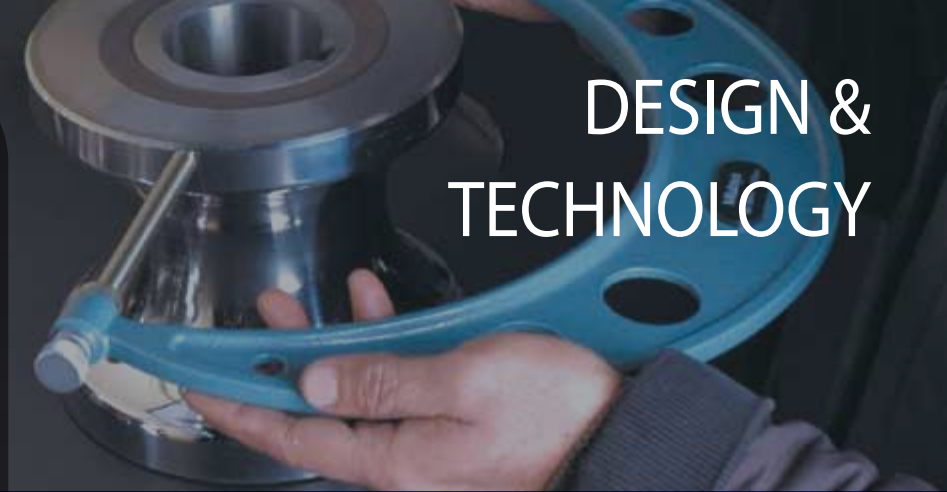
ATLAS has comprehensive in-house designing facility to design new products according to customer's specific requirements with complete satisfaction assured by latest software, experienced team of engineers & designers.

The sophisticated quality control systems followed during the entire in-house production process including Heat Treatment assures accuracy & longer life of our rolls. Each production process is fully documented and final quality acceptance tests are performed at the end of each production process.

Before production, all roll set designed by us undergo a simulation & finite element analysis to achieve a meticulous final product. Roll profiles are produced on high precision CNC controlled work stations using latest Ceramic/Diamond tipped tools.

Our competent team of designers helps to perfect the roll set design & recommend the ideal material of construction bearing in mind the applications requirement.

We boast of an in-house metallurgical lab & an ISO certified heat treatment unit having atmosphere controlled furnaces with complete automatic controls & process recording.



# SLITTING CUTTERS, SPACERS & SEPARATOR DISCS

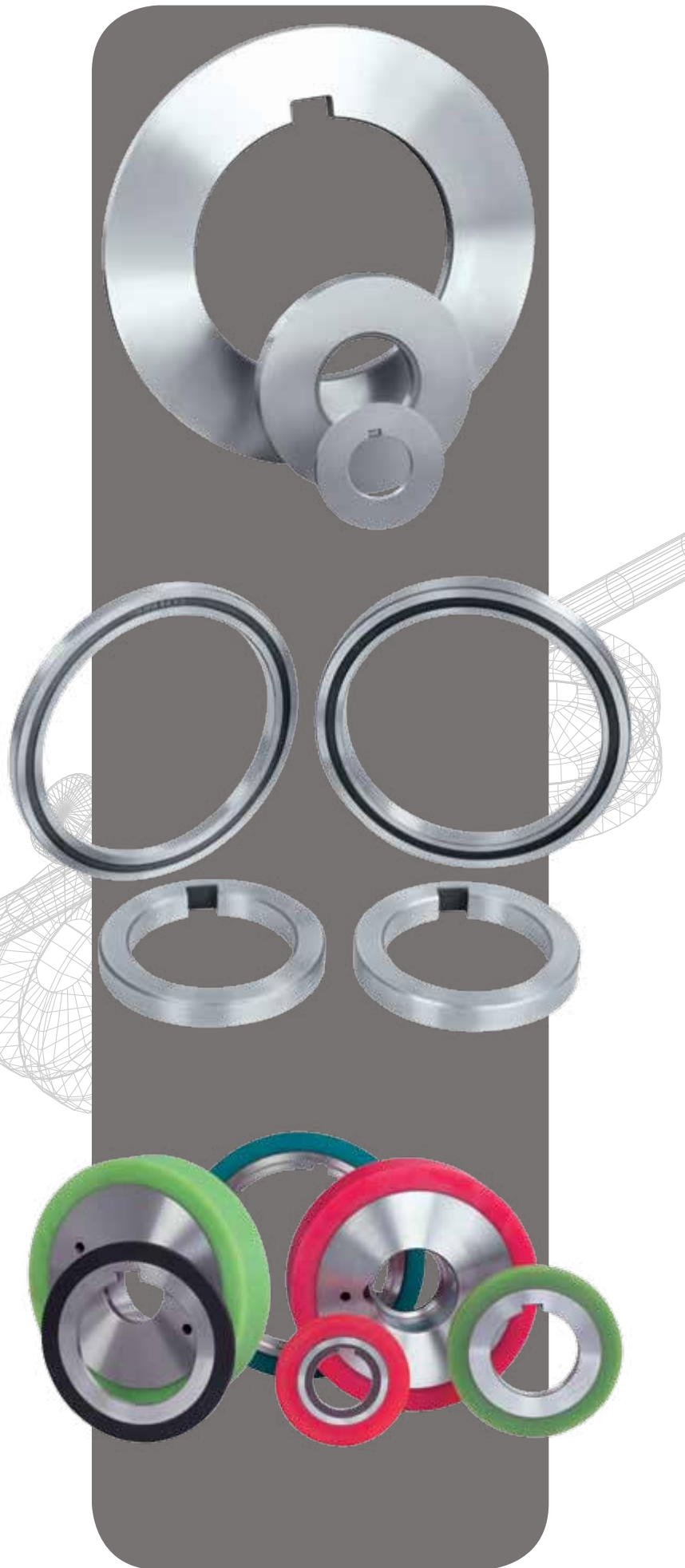
**SLITTING CUTTERS** are manufactured from tool steel and special alloy steel according to the application requirement. We have manufacturing facility to produce sizes up to 600mm in diameter and slit up to 16mm thick coils. We also manufacture precision cutting tools with the thickness tolerance of 0.0015mm and flatness of .0025mm depending on the OD and thickness. This is possible with our precise Lapping Machines. Closer tolerances & special surface finishes are also possible.

An in-house deep cryogenic treatment gives the knife a finer microstructure which enhances life of the tool.

**SPACERS** are manufactured using through hardened tool steel. Atlas offers light weight and also Ultra light weight spacers which are nearly 65-70% lighter than the conventional steel spacer. This makes the job of the operator easier and causes less fatigue. To ease assembly and removal of tools, we offer Split design. The spacers can also be lapped to the highest level of precision.

Bonded stripper rings are made from alloy tool steel bonded with oil and abrasion resistant material such as Nitrile Rubber (Buna N) or Polyurethane. These are available in various shore hardness and colors to match your specific requirement.

**SEPARATOR DISCS** are custom made exactly to user specifications. We offer single/double bevel angle and various thickness. Available to a maximum hardness of 58/60 Rockwell, steel separator discs are made from the finest steel and guarantee a long-lasting, dependable performance at competitive prices. These can also be chrome plated to reduce friction between the plate face and the slit edge.

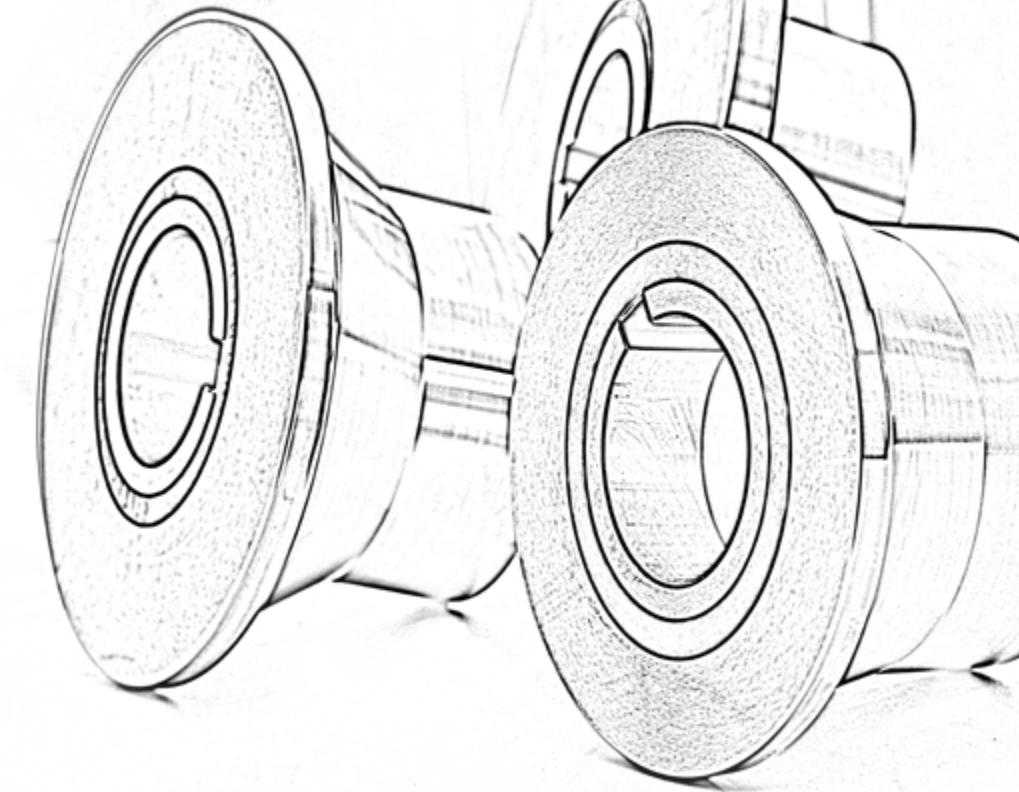


# FORMING ROLLS

Breakdown Rolls | Forming Rolls | Fin pass Rolls | Welding Rolls | Sizing Rolls | Turk's head Rolls

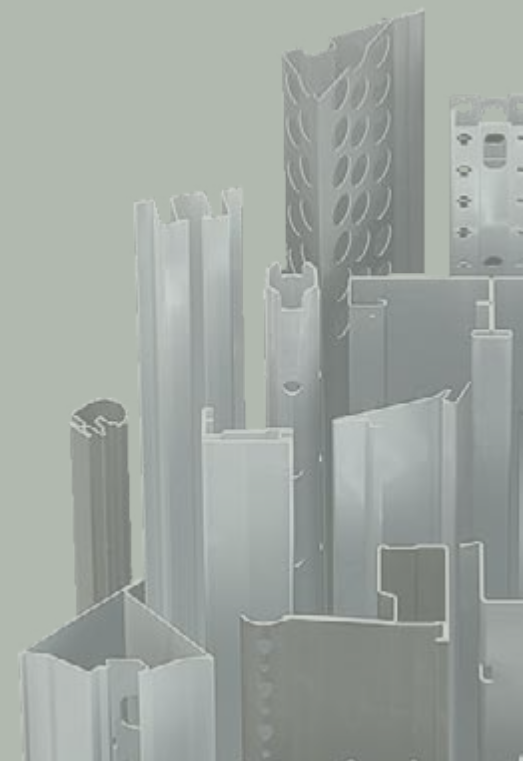


## for Closed & Open Profiles



ATLAS manufactures a variety of rolls for cross-section profiles in addition to regular cylindrical, square and rectangular tubes. Each profile requires a carefully crafted set of rolls. Designing of the rolls start with a flower pattern, this is a sequence of profile cross-sections, one for each stand of rolls. The roll contours are then derived from profile contours. We use the simulation process to validate the designed rolls & optimize the forming process & material stresses in the final product.

Some industries that frequently use our roll sets are Automotive, Construction, Fence Panels, Office furniture, Marine Industry, Medical & White goods Industry.



ATLAS designs & manufactures entire range of forming rolls for the production of tubes with diameters ranging from 0.12" to 14" diameter. In addition to the traditional materials like D3/D2/H13, rolls can also be manufactured in special steel grades & tungsten carbide. Special steel grade rolls are offered where surface finish of parent material is of high quality. These rolls offer better wear quality, longer life and are used in areas where absence of marking is critical. They are also used for welding rolls, due to their non-magnetic properties.

The rolls are manufactured with their working surface ground & polished. We offer super finish & mirror polished surface which ensure that the end product is without any marks. The roll set is designed for minimum set up time, high speed operation, lower down time with minimum wear.



## ROLLS FOR SEAMLESS TUBE PRODUCTION

ATLAS manufactures all type of rolls used in the production of seamless tube manufacturing like Pilger Rolls, Push Bench rolls, Detaching Rolls, Stretch reducing & sizing rolls. For the synchronized sizing rolls in push bench plants, we offer a material with high hot strength, toughness and wear resistance. Stretch reducing rolls are offered in tool steel with special heat treatment for improved wear resistance

## ROLLS FOR STRAIGHTENING PLANTS

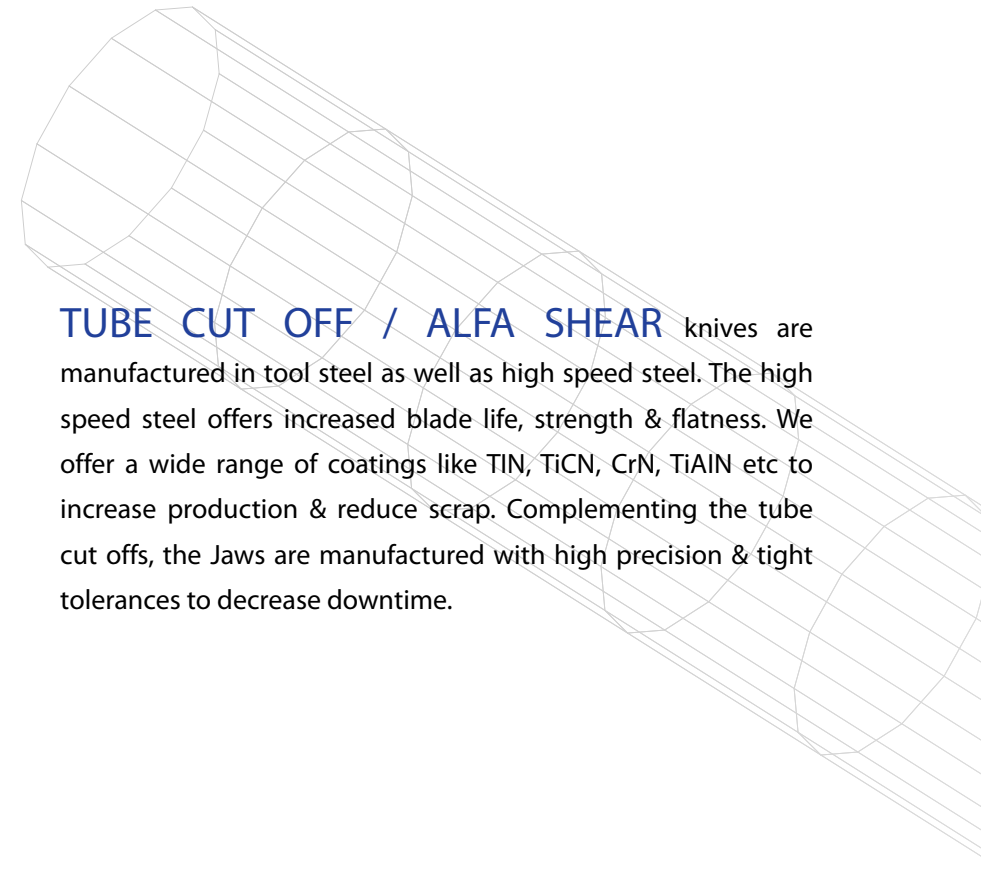
Straightening Rolls/ Hyperbolic Rolls are employed to straighten lengths of metal stock of circular cross-section like steel rods, pipes, sections & rails. The straightening rolls are made from forged steel which have a high hardness & wear resistance with the lowest possible tendency to pick-up. Rolls are designed for extreme conditions such as high speed load & wear.

## ROLLS FOR CONTINOUS CASTING & ROLLING MILL

ATLAS produces the entire range of rolls for production of copper and aluminum industry including wire rods. The quality of working rolls is crucial in the economic viability of the plant. As an experienced manufacturer of hot-working tool steel rolls, ATLAS has the necessary facilities to produce the best quality products.

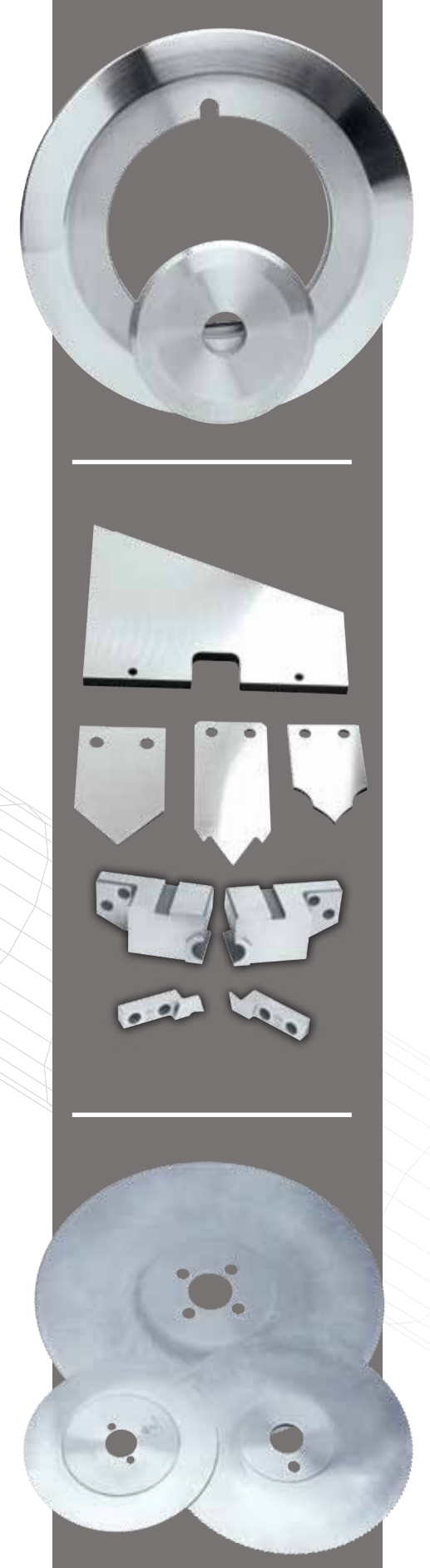


**ROTARY CUT OFF / COC CUTTERS** cut all the way through displacing, not removing material, therefore resulting in a chipless cut with a minimum burr. These cutters are manufactured as per the wall thickness of the tube to be cut. We offer these cutters in various steel grades & bevels. Rotary Cutters are suitable for cutting all types of round metal including copper, brass, steel, aluminium, Stainless and Titanium.



**TUBE CUT OFF / ALFA SHEAR** knives are manufactured in tool steel as well as high speed steel. The high speed steel offers increased blade life, strength & flatness. We offer a wide range of coatings like TIN, TiCN, CrN, TiAlN etc to increase production & reduce scrap. Complementing the tube cut offs, the Jaws are manufactured with high precision & tight tolerances to decrease downtime.

**TUBE CUTTING SAWS** are manufactured with various tooth profiles. In sawing application, the pitch and therefore the number of teeth are critical. Too few or too large teeth may induce vibration resulting in tooth & saw breakage. These are offered in various coatings and with special heat treatment to give better life cycle.



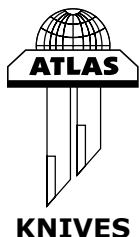
D.B Engineering Pvt. Ltd. is in its golden decade having completed 60 years in Knife manufacturing. Starting in the year 1951 it has made huge strides in the field and has customers in about 60 countries today. Our manufacturing spreads over an area of 300,000 square feet. Our biggest strength today is our dedicated and sincere work force of over 600 people manning our six manufacturing facilities. To help us reach the pinnacle of success in Knife manufacturing are the latest and state of art equipment. D.B. Engineering Pvt. Ltd. is a true amalgamation of people from the field of Metallurgy, Engineering and Management.

## PRODUCT PORTFOLIO

### Machine Knives & Blades for

- Tube Industry
- Pulp & Paper Industry
- Printing & Graphic Industry
- Metal Engineering & Fabricating Industry
- Cold Rolling & Steel Processing
- Wood Industry
- Packaging Industry
- Plastic, Rubber & Recycling Industry

### Knife Grinding Machines



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