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IIIIPLANES

Planes is a company with over 30 years' experience in the tube sector. Founded in 1985, the company was initially geared towards marketing steel products. Little by little it began refining its activity to encompass a comprehensive service ranging from the supply of coils for tube manufacture to the delivery of the cut and machined part. Our main service is laser tube cutting and machining, followed by circular saw cutting.

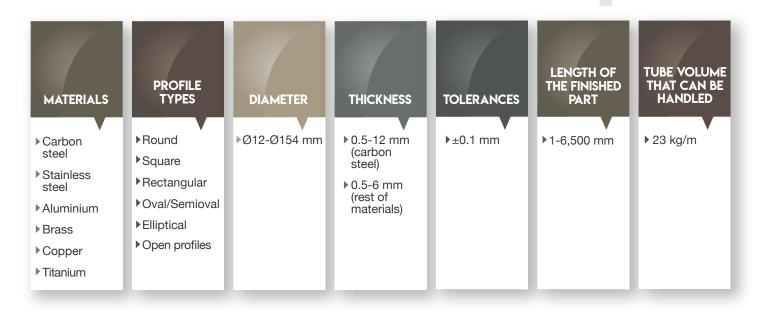


A pioneer in custom tube cutting, Planes has always opted for the latest technologies in machinery and software and the most qualified personnel, as well as fostering synergies with partner companies. These factors have allowed the company to set lower costs and integrate processes for a competitive advantage while working on increasingly demanding projects.

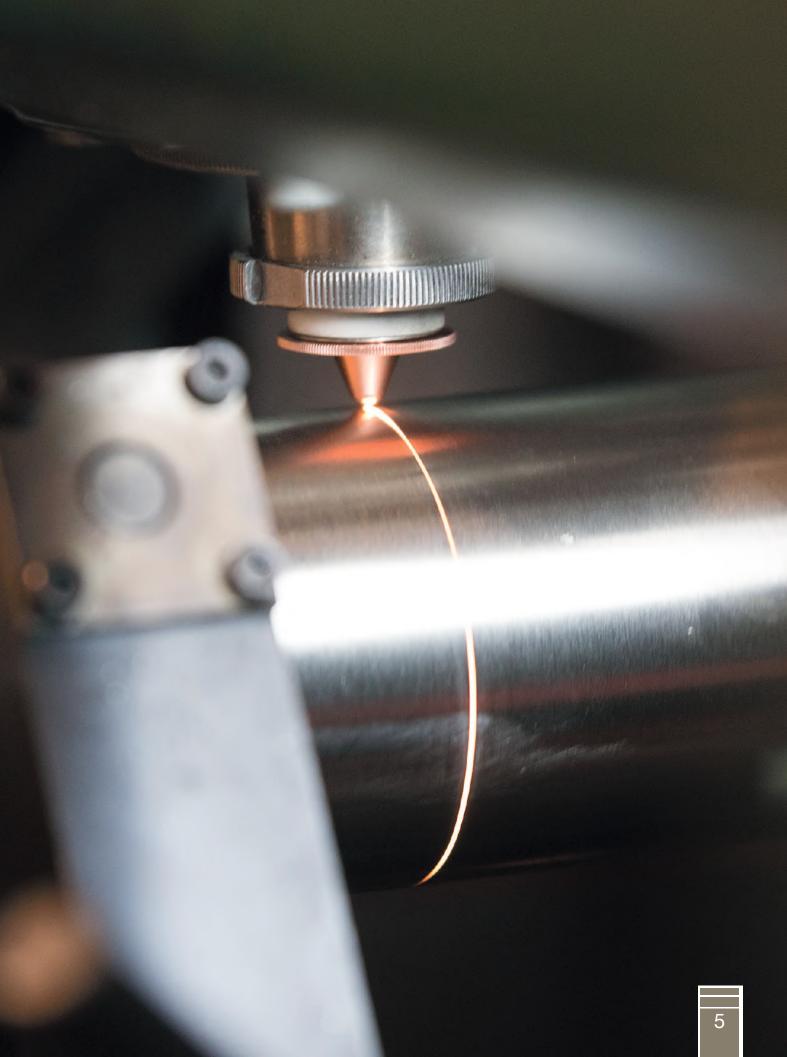




At Planes we offer all types of services related to tube cutting and industrial machining, with laser cutting being our main service. We have state-of-the-art machinery characterised by high output, reliability and precision (\pm 0.1 mm). The processes and parameters of our machinery have a high degree of automation to reduce waiting times and offer a significant reduction in energy consumption, making us much more efficient.









COLD SAW TUBE CUTTING THE BEST QUALITY-TO-PRICE RATIO

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At Planes we offer cold saw tube cutting with highly-advanced machinery. This process allows us to work with high production volumes at an affordable price when cutting tubes to size—whether straight, angled, in short segments, in long segments, etc. It provides a clean cut with a narrow range of cut tolerance (\pm 0.3 mm), producing a minimum burr (which can be eliminated through deburring). It is especially suitable for small diameter tubes (Ø6-Ø12 mm) with reduced thickness (0.5-1.5 mm), since we have manufacturing equipment capable of multi-bar cutting (up to four tubes at a time). In addition, we have a cut-to-length line that incorporates an artificial vision verification machine to inspect 100% of the parts, eliminating those that may have a defect on the surface or at the ends and verifying that the dimensions remain within the specified range of tolerances. This equipment has very high output and covers a range from Ø6 to Ø25 mm and up to 1,000 mm in length.



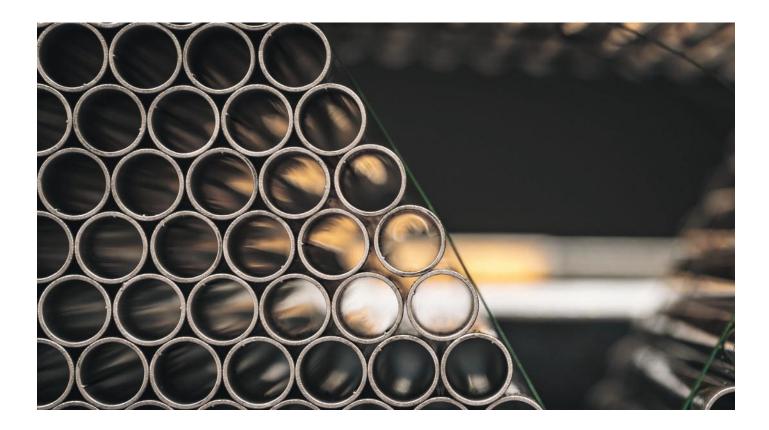




To complement the cold saw cutting service, we offer deburring in the same production line to provide a clean and burr-free finish and maintain a high level of quality.

BRUSH DEBURRING

This procedure is suitable for tube parts measuring from 250 mm to 3,000 mm in length. It is performed with two rollers that brush the two ends of the tube while it rotates around itself to eliminate the burr completely.



VIBRATORY DEBURRING

This procedure is appropriate for small parts no longer than 250 mm in length. The parts move through tubs with abrasive elements that eliminate the burr by vibration. After the deburring, the parts go through a linear tub with products that clean them both internally and externally and leave a semi-polished finish. Lastly, the parts go through a vibratory dryer.

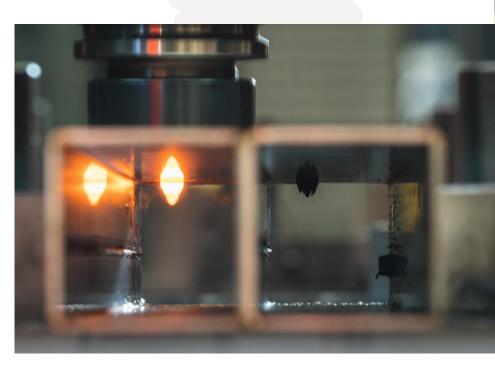


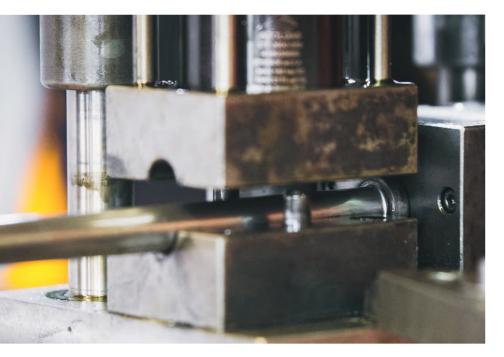
OTHER SERVICES

At Planes we have other services to complement tube cutting, adapting completely to the specifications and needs of our customers.

CNC MACHINING

The machining process offers the possibility of drilling the parts previously cut to complement the options offered by laser machining equipment. One of the most useful machining processes is friction drilling, which consists of melting the material to create a hole and increase the wall thickness and forgo the need for inserted bushings or welded nuts.







We have press equipment for carrying out different kinds of machining and shaping of previously cut tubes. This is a suitable option for large volumes of work repeated over time.



Certain applications for tubes benefit from having the parts marked with a reference number so that they can be tracked. It is widely used in the automotive sector. At Planes, apart from laser marking, we have the proper machinery for performing this process through micro-percussion. This system allows for a subsequent layer of paint or galvanizing process without covering the parts' marking.

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ARTIFICIAL VISION VERIFICATION

We have high-output artificial vision verification equipment that we use to verify the ends, the surface and the length of round tubes ranging from Ø6 to Ø25 mm.

SOURCING OF RAW MATERIALS

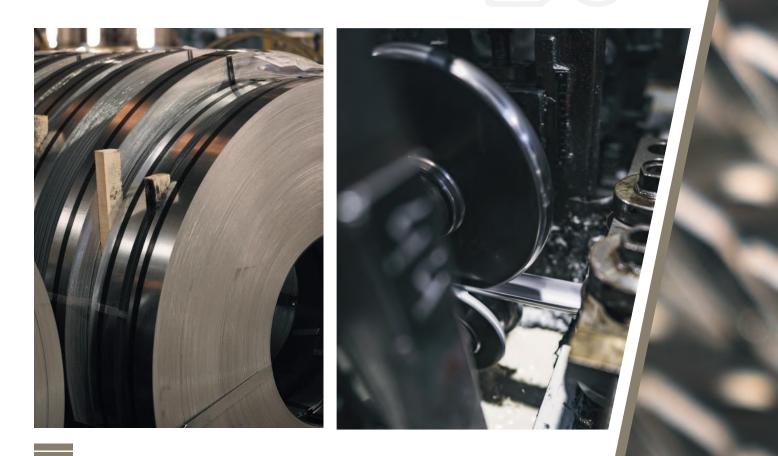
Thanks to collaborations with steel companies, we can provide raw materials for tube manufacturing services, allowing us to reduce sourcing costs and be more competitive. These factors also mean we can meet delivery times that fulfil the needs of our customers.



We perform custom cutting of steel coils into strips for subsequent tube manufacturing.



We work with a main partner where we can produce cold rolled, pickled or galvanised tubes in different shapes; square, round, rectangular or oval, from Ø10 to Ø65 and ranging from 0.7 to 2.5 mm in thicknesses. For the rest of the range, we work with other partners and leading European factories.



ISO 9001 BUREAU VERITAS Certification



OUR QUALITY COMMITMENT

Planes understands the importance of attaining the most stringent quality standards in our services as a guarantee of excellence to our customers. For this reason, we apply a strict quality control at each stage of our processes, from the arrival of the raw material and its storage and handling to the design of the machining process, the manufacturing, the subsequent storage and the delivery of the material. All controls are accredited by our compliance with the requirements of ISO 9001: 2015.





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