Manufacturer of Cutting Systems
Machines & Spare Parts

PHENIX TECHNOLOGIE, is an actor of the French Industrial fabric, its historical know-how and its experience extend, from design to manufacture and up to the S.A.V. of cutting machines.

At each cut its system!

www.phenixtechnologie.com
For several years, Jean-Paul GOUZENNES and Mathieu PRIAT, co-managers of the company PHENIX TECHNOLOGIE:

- Adapts the most complex cutting technologies available to each according to their needs and budget.
- Provide efficient cutting centers for manufacturers.
- Guarantee quality service.

These are their priorities!

PHENIX TECHNOLOGIE has many references throughout France and DOM-TOM. We are also present in several countries of the European Union (Romania, Spain, Switzerland, Belgium, Luxembourg, ...) and on different continents.

Water Jet or Plasma Technology, One Goal: Meet all your needs and specificities.
The waterjet cutting technology allows cutting of materials and thicknesses that no other technology can cut or hard to cut.

The principle is to cause the material to rupture at the point of impact of a very fine jet of water under very high pressure.

This production tool is particularly well adapted to small and large series as well as to the realization of ever-different models with materials of any nature up to large thicknesses.

- Pure water jet allows the cutting of low strength materials (foodstuffs, rubber, plastics, composites, foams and wood).
- Water jet with abrasive allows the cutting of hard materials (titanium, steel, stainless steel, aluminum, copper, stone, marble, ceramic, shielding).

### Water jet cutting offers significant advantages:

- The ability to cut parts from the smallest to the largest, from the finest to the largest thickness
- A very good quality of cut with a slight draft
- A result without deformation because the part is not affected thermally
- The cutting of almost all materials
- An economical and inexpensive cutting method compared to the laser
Plasma cutting technology

The plasma principle

The basic plasma cutting process consists of a current source, an arc starting circuit and a torch.

These system components provide electrical power, ionization capacity and process control to make highly efficient and high quality cuts.

Plasma cutting is mainly used by companies in the metallurgical sector. Cutting thicknesses: up to 80 mm for steel and up to 160 mm for stainless steel.

It allows cutting: metal, rusty metal, painted metal, alloyed or non-alloy steels, nickel, copper, brass, bronze, aluminum.

This process offers significant advantages due to the high cutting speeds and the cutting capacities on large thicknesses.

<table>
<thead>
<tr>
<th>Oxygaz</th>
<th>Plasma</th>
<th>Laser</th>
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</thead>
<tbody>
<tr>
<td>Quality</td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Low draft</td>
<td>- Low draft</td>
<td>- Very low draft</td>
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<tr>
<td>- Large area affected by heat</td>
<td>- Small area affected by heat</td>
<td>- Small area affected by heat</td>
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<tr>
<td>- Slags requiring recoveries</td>
<td>- Very little slag</td>
<td>- Very little slag</td>
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<tr>
<td>- Ineffectiveness on stainless steel and aluminum</td>
<td>- Good precision cut (Even excellent)</td>
<td>- Good precision cut (Even excellent)</td>
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<tr>
<td>Yield</td>
<td></td>
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<tr>
<td>- Low cutting speeds</td>
<td>- Fast cutting speeds (All thicknesses)</td>
<td>- Very fast on fine metals, slower on thick materials</td>
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<td>- Preheating time which increases the drilling times</td>
<td>- Very fast drilling times</td>
<td>- Long drilling times on the thick materials</td>
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<td>- Poor productivity and repeats necessary to generate a piece cost greater than plasma</td>
<td>- Long service life of consumables, good productivity and excellent cutting quality generating a lower cost / room other technologies.</td>
<td>- High cost / room due to electric power required, of gas consumption, high maintenance costs and low cutting speeds on thick materials.</td>
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<tr>
<td>Maintenance</td>
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<tr>
<td>- High gas consumption</td>
<td>- Low gas consumption</td>
<td>- Very high gas consumption</td>
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<td>- Simple maintenance that can be done in-house</td>
<td>- Simple and moderate maintenance can often be done internally</td>
<td>- Complex and costly maintenance requiring the intervention of technicians.</td>
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Proven results for various applications

Plasma Cutting Machine

Scalable range

HYPERTHERM®
HyPerformance range

THERMAL DYNAMICS®
UltraCut & AutoCut range
Services - Support au client

- Provides you with quality service, and offers troubleshooting assistance both remotely and on site.

- Performs maintenance on all types of cutting systems, centers and tables and this on all brands.

- Provides comprehensive training during the installation of your cutting systems, generators and high pressure pumps (approved training center).

- Delivers your consumables / spare parts in just 24h ...