

LARTEC

MADE FOR PRECISION

FLEXIBLE DIES · SPECIAL TREATMENTS · CYLINDERS

LASER Hardened



www.lartec.com.es



FLEXIBLE DIES



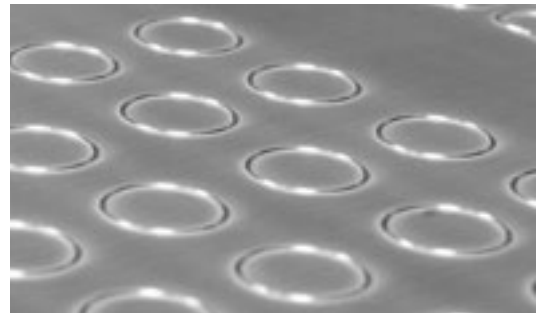
STANDARD

A Standard plate is a cutting die manufactured with the best raw materials and able to offer great levels of precision (± 0.002 mm max. tolerance), flexibility and resistance to abrasion. This kind of plate covers all those dies with heights between 0.250mm and 0.500.

As you will understand, 0.440mm and 0.480mm are our usual standard heights for the adhesive label industry.

All these plates have received a treatment against corrosion to avoid fast oxidation, and are able to ensure the maximum precision and duration when processing all kind of materials, such as paper, PP, PE, PET, Tyvek... even combined with exigent liners, such as PET with 30 and 23 microns thickness.

Setting the right angle on the cutting blade with help the cutting and the stripping process, reducing at the same time the pressure needed to apply on the magnetic cylinder. All this helps in making our dies last longer. The most usual angles vary from 50° to 90° , and we can combine different blade angles in the same die, both symmetrical and asymmetrical.



ALTIUS series

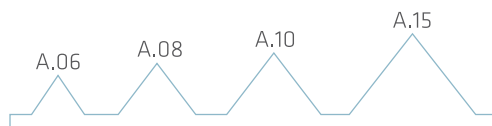
These series are specially aimed to process thicker materials, such as RFID labels, booklets, cardboard, adhesive foams or technical materials with many layers, used in electronics or automotive industry. ALTIUS dies are divided in 4 categories depending on the blade height required:

A.06 (0.5 mm – 0.6 mm)

A.08 (0.6 mm – 0.8 mm)

A.10 (0.8 mm – 1 mm)

A.15 (1 mm – 1.5 mm)



VAC-EDGE series

VAC-EDGE dies include holes distributed in the plate surface, to allow the suction or the expulsion by air of the waste parts during the cutting process. They require the use of a special magnetic cylinder with these ability to allow air to flow from within.

These holes are also used to create surface effects on serigraphy labels, and also to create pin holes for those cylinders that require them to place the dies correctly on them.





STEPPED _____ Special shaped Dies

A stepped configuration of the plate edges can be a real advantage, most especially when we find many transversal lines in the web direction of the blade design. In these cases we usually need to apply a higher pressure on the cylinder to obtain a satisfactory performance but this affects the working life of the die and creates more mistakes during production. That's why we recommend these special shaped dies, because they require a much lower pressure to work.



OCS series

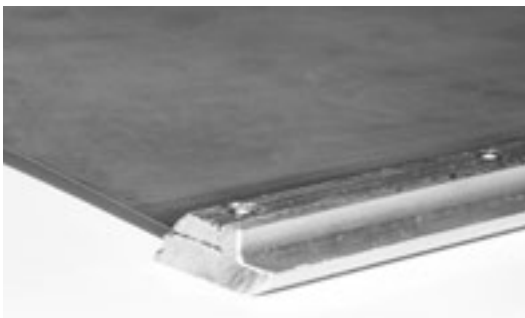
OCS series have been developed to perform die-cutting on sheet printing offset machines. The obvious advantage of these dies is the reduction in production processes performing the cut during the same printing process, at printing speeds.



ART & CUT series

These plates are specially created to allow our customers to introduce personalised textures and marks on the self-adhesive materials and cardboards. The plates are placed in the magnetic cylinders and perform a debossing process on the material surface with the texture applied on the metal plate. The different possibilities for personalisation are almost endless, allowing narrow details, down to 0.1mm marks on the material surface.

We can additionally coat the plate surface with our "Anti-Slip" treatment, which reduces the displacement of the die, due to the high pressures applied during the texturing processes.



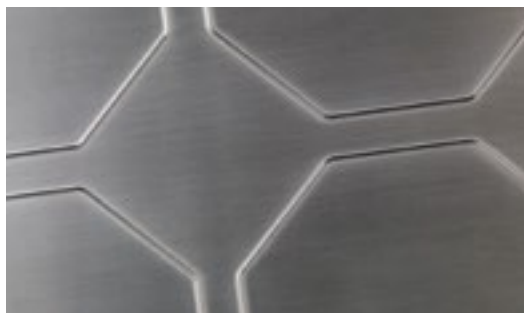


SPECIAL SURFACE TREATMENTS



HARD Chemical Hardening

The HARD Series for flexible dies has suffered different processes of chemical hardening to obtain an improved duration on standard plates. It also avoids rusting after use. It's a proper treatment for repetitive works on abrasive materials.



ENDURO Extreme Lasting

ENDURO dies are coated with plasma all over the surface of the die, increasing dramatically the working life of the whole tool, with hardness levels beyond 85HRC. It also reduces the friction between blade and material, increasing the blade resistance to abrasion spectacularly.

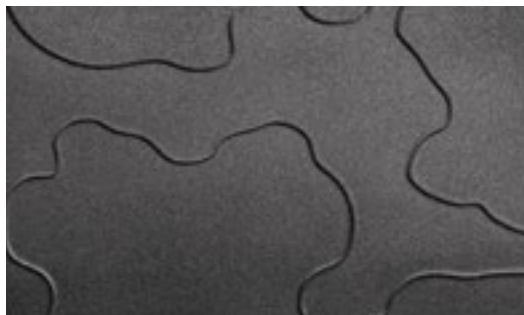
It's the perfect choice for very long lasting batches, hard materials with White or metallic ink, on thermal or synthetic surfaces. It has also proved to perform optimally avoiding the sticky effects of adhesives and inks.



ANTI-TACK Anti-adherent Coating

We apply an anti-adherent coating on the plate surface, able to repel every kind of residue provoked by dirtiness, glue or ink. This process allows our dies to perform faster and increase the final quality of the cutting and stripping, while reducing the time dedicated to clean the plates between orders.

This treatment can also be combined with laser hardening to increase the final duration of the plate.





LASER HARDENED

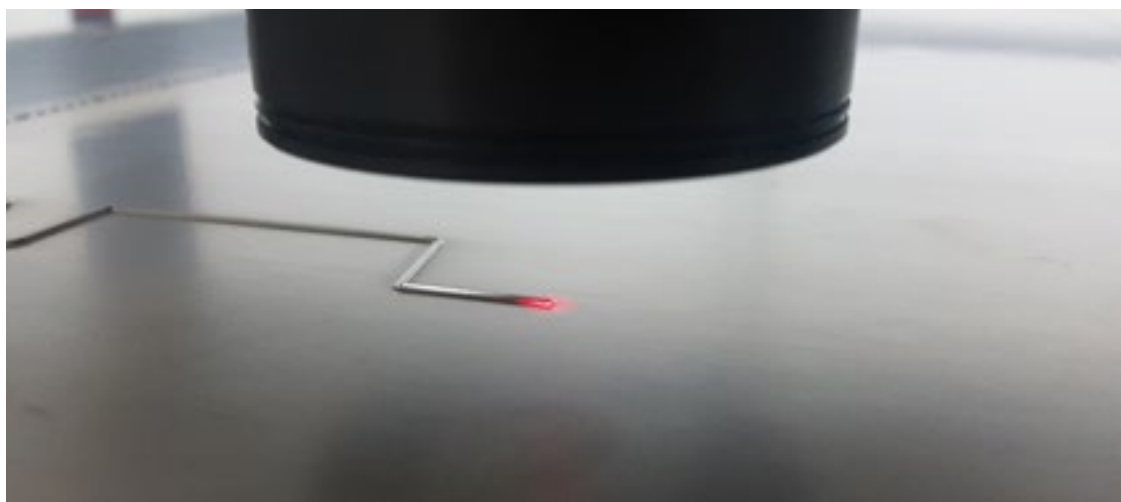
LASER Fast Thermal Hardening

Applying the latest developments in laser technology, we can increase the hardness of the cutting blade up to 66-68 HRC.

This process consists in a controlled process of sudden heating and cooling of the blade down to an exact depth, obtaining automatically the perfect result to obtain a long lasting hardness estimated to reach 200% and even 300% of that of a standard plate.

This treatment is particularly recommended for:

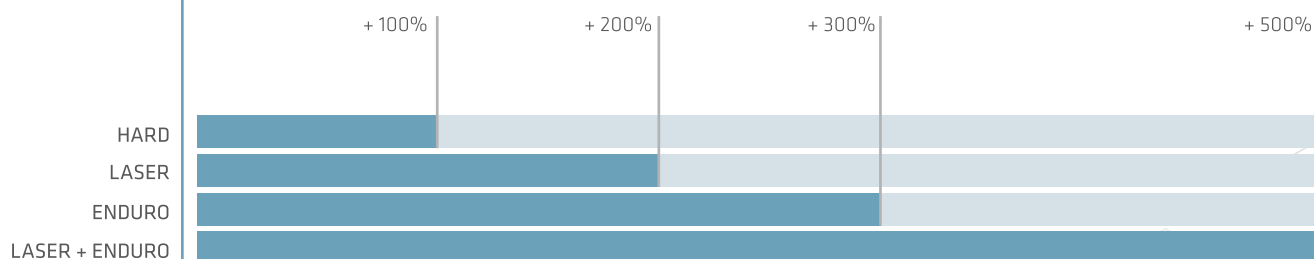
- Full cut through (metal to metal)
- Die cutting of abrasive materials, both thermal and/or synthetic
- Cutting metallic and White ink
- Repetitive works and long running batches



LASER + ENDURO

LARTEC has combined both hardening processes to achieve the highest levels in the market for die duration. We can offer dies with a surface layer of 2-3 microns with hardness above 85HRC and holding inside a laser hardened blade above 68HRC.

It's above everything else you will find, and ready to work with all materials.





CYLINDERS

LARTEC also offers different kinds of cylinders to the market. They are manufactured with different kinds of steel or aluminium, and different hardening and surface treatments, and we are able to offer a level of precision around ± 2 microns.



MAGNETIC

PRINTING

SOLID

SHEETERS

COUNTER-CYLINDERS

PRESSURE CONTROLLERS

EASY GAP

Counter-cylinder that allows micro-metrical regulation.



MAGNETIC FLAT BASE

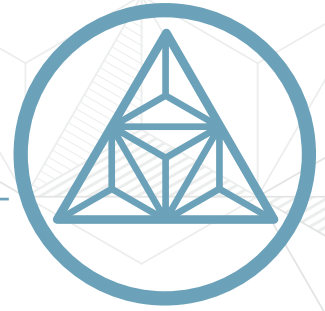


Magnetic flat bases offer all the advantages of using flexible dies to the precision cutting on flat surfaces. Due to their cost-efficiency rates, and the fast process to change works on the machine, they are the perfect alternative to traditional flat dies.

Due to the versatility of flexible dies, the extreme precision in the manufacturing, the amount of different configurations and treatments applied to the plates, the multilevel cutting heights, the complex designs and even the creation of debossed effects, magnetic flat bases and flexible dies are an unbeatable combination that will satisfy your needs and fix many other troubles attached to old-fashioned technologies.

They can also be adapted to different equipments, thicknesses and shapes, offering you the best solution for flat-die cutting.

MADE FOR PRECISION



LARTEC is focused in manufacturing flexible dies under the highest standards for quality and precision, and our effort in improving our products has deserved global acknowledgement after 25 years.

Only using the best materials and the most advanced technology guarantees the most precise cutting tools, adapted to your specific design requirements and used both on rotary and semi-rotary machines, but also on flat bases.

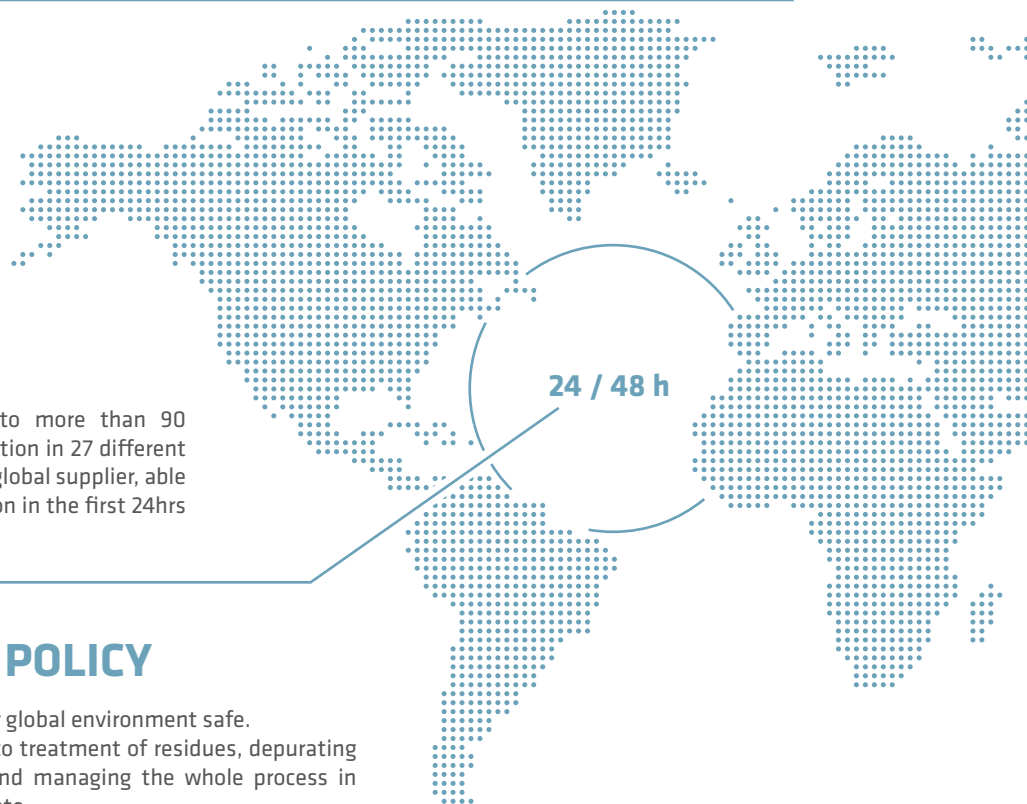
We are certain to state that we are offering one of the best cutting plates in the market, if we consider precision, quality and durability. This continuous improvement, combined with an exceptional care to serve our customers, has provoked a continuous increase in our production rates.

Our future aims are set in improving our interaction with customers, making it more agile and personalised. We are willing to impose a 24hr. production standard in all our lines and develop new solutions to offer added value to fulfil our customers' needs.



GLOBAL SERVICE

Lartec is actually exporting its products to more than 90 countries in the world, with direct representation in 27 different locations. All this made us become a leading global supplier, able to produce and send a 98.4% of our production in the first 24hrs since the orders are confirmed.



ENVIRONMENTAL POLICY

Lartec is concerned about keeping our global environment safe.

Hence, we have dedicated resources to treatment of residues, depurating waters, recycling waste materials, and managing the whole process in order to achieve a "Zero Emissions" rate.

On the same way, we decided to avoid the use of highly contaminant products (such as chrome), applying hardening processes that are completely eco-friendly.



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