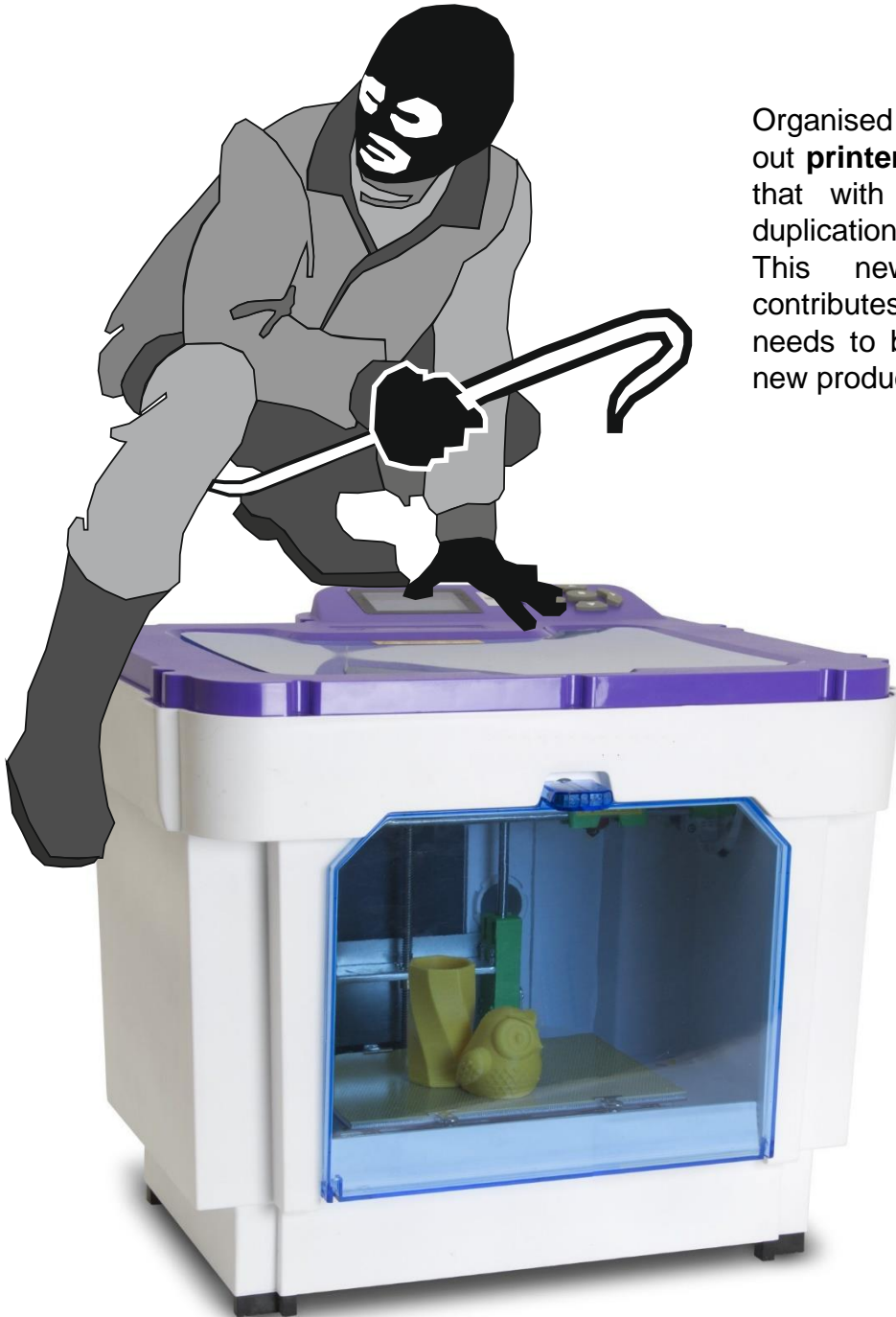


# 3D PRINTED CLONED SEALS



## 3D PRINTED CLONED SEALS



Organised crime has already found out **printers 3D**. In practice, it means that with a help of **printers 3D** duplication of any thing is possible. This new kind of technology contributes to the business, which needs to be eliminated by means of new products.

Thieves have also realised benefits of **printers 3D**.



Figure 1

Figure 2

Thieves are able to duplicate a seal exactly in the same way as an original, with the same numbering and personalisation.

The problem of printers 3D was publicized by the company SPEDLOGSWISS.

It is one of the European pharmaceutical companies, which has fallen victim to the abovementioned kind of fraud. Consequently, it decided to publish material about this to warn other companies and seal producers.

The pharmaceutical company upon loading its cargo sealed a container with a seal of Chinese production (see image 1). What is more, a transport company also put another seal of Chinese production on the container (see image 2)

Upon arrival to its destination it turned out that a part of loaded cargo was stolen. After closer look it was noticed that original seals had been replaced by fake ones realised with **3D printer** (see image 3).



Figure 3

With regard to what has happened to SPEDLOGSWISS, the general manager and CEO of LEGHORNGROUP, Mr. Luciano Grapsa, confirms that:



This type of cloning is easy and it imitates an original seal, because a seal is made out of plastic entirely.

However, if a seal is metal, as in the case of a bolt seal, then duplication is not so easy anymore and it renders difficult imitating an original.

The problem of cloning seals can be resolved immediately by using high-security seals, such as NEPTUNSEAL RFID ANTI-MANIPULATION. It has been designed, created and patented by LEGHORNGROUP.

The seal above is impossible to duplicate, because it has a unique number inside, which cannot be repeated.

Moreover, in case of manipulation the seal registers an event inside its memory.

**3D printers** are a great invention, but so far a machine able to duplicate RFID seals has not been created.



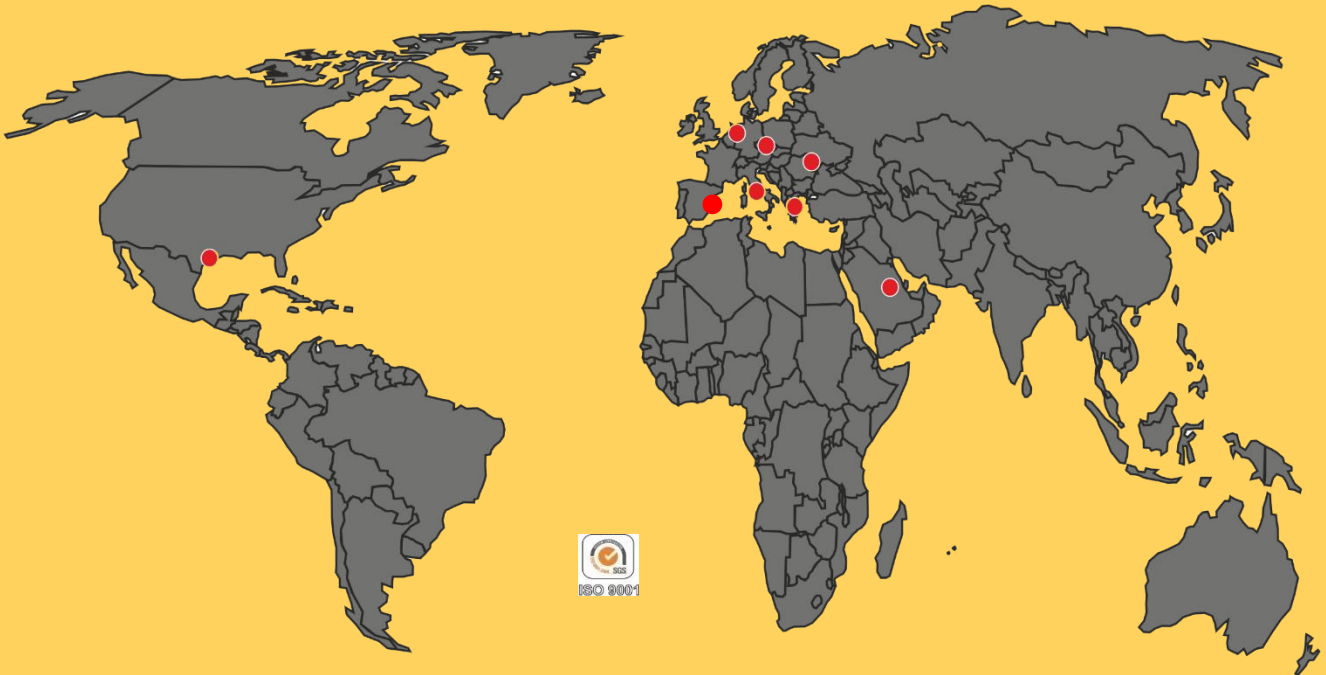
Additionally, all information about transported goods, means of transport and companies participating in the transportation can be stored in memory of the tamper evidence RFID seal, which, in turn, can be connected to a software.

LeghornGroup ([www.leghorngroup.com](http://www.leghorngroup.com)) is a leading producer of cutting-edge seals, which guarantee safety in transport and logistics.



# WORLD CONTACTS

General e-mail: [info@leghorngroup.com](mailto:info@leghorngroup.com)



**LeghornGroup ITALY**  
[www.leghorngroup.it](http://www.leghorngroup.it)

**LeghornGroup USA**  
[www.leghorngroup.com](http://www.leghorngroup.com)

**LeghornGroup BELGIUM**  
[www.leghorngroup.be](http://www.leghorngroup.be)  
[www.leghorngroup.nl](http://www.leghorngroup.nl)

**LeghornGroup SAUDI ARABIA**  
[www.leghorngroup.sa](http://www.leghorngroup.sa)

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[www.leghorngroup.cz](http://www.leghorngroup.cz)  
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**LeghornGroup SPAIN**  
[www.leghorngroup.es](http://www.leghorngroup.es)



## LeghornGroup

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**LeghornGroup srl**

34/36, Via degli Arrotini - 57121 Livorno, Tuscany, Italy

Ph: +39 0586 406376 - Fax: +39 0586 407621 - [www.leghorngroup.com](http://www.leghorngroup.com) - [info@leghorngroup.com](mailto:info@leghorngroup.com)

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