

# SERIALIZATION & TAMPER EVIDENCE

## PHARMACEUTICAL PACKAGING

The continuous increase of drug counterfeits and the hereby resulting threat to the drug market makes it indispensable to implement a complete retraceability of medicines. In the EU guideline 2011/62/EU, which was published in June 2011, security features for the examination of the authenticity and for the identification of each single package of ethical drugs in the EU were defined in order to protect the legal supply chain of the intrusion of counterfeit drugs. The guidelines and technical requirements were defined in the delegated provision (EU) 2016/161 to transform them into national law. With the beginning of the compulsory implementation on February 9th, 2019, only prescription drugs which are marked with an individual serial number and whose intactness is visible via a security closure are allowed to be marketed.

At Klocke Pharma-Service GmbH and Klocke Verpackungs-Service GmbH we are well prepared:

All packaging lines are equipped with serialization stations. Therefore we use integrated solutions of our partners OCS, which completely fulfill the legal and technical requirements. There are TQS-SP (for serialization) as well as TQS-HCA stations (serialization and weighing) in use. In addition, one line for serialization and aggregation of multiple packaging levels (e.g. for the Chinese market) was implemented.

Furthermore, the existing lines are prepared for the installation of several technologies in order to apply safety closures on folding boxes (safety labels, glued folding boxes, design-engineered original closure of the folding box, etc.). Thus, we can offer different solutions for the implementation of the legal guidelines to our clients.



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## PHARMACEUTICAL PACKAGING



### Packaging & encoding

To protect your products and comply to all standards, use our full service programme of serialization, aggregation and tamper evidence.



### Encoding

Various data can be encoded to your products:

- data matrix code
- expiry date
- batch number
- serial number
- GTIN



### Full aggregation

of multiple packaging levels, coding of folding boxes and aggregation of

- folding boxes to bundles
- bundles in shipper boxes
- shipper boxes to pallets



### Tamper Evidence

- application of safety labels
- glueing of folding boxes
- design-engineered closure of boxes

