

## **Tagging gems with <gemID>**

### **First software specifically for the gem industry**

#### **by eXtra4 Labelling Systems**

Birkenfeld, December 23, 2015. Ferdinand Eisele as identification technology specialist of the jewellery and watchmaking industry has developed a completely new software specifically for the needs of gem-cutters and traders. Under its eXtra4 Labelling Systems brand umbrella the company from the Pforzheim region introduces the software <gemID> to trade visitors on the Inhorgenta in Munich.

#### **Stone classification as a software core**

The central element of eXtra 4 <gemID> is the classification of gemstones according to types of stone (raw stones) and their processing. This is the basis for pricing and the generation of the 24-digit stone codes for rapid identification.

For each stone type multiple, typical quality characteristics can be defined, such as country of origin, colour, purity, treatment types. For the characteristics, in turn, an unlimited number of specifications can be created occurring in the respective stone type, for example for the characteristic "colour" variants like "red", "dark red", "red-orange", etc. In order to more easily assign a stone in its class, a picture as a guideline can be inserted in the program. Once stone types and

qualities are generated, the stone classes as a basis for pricing can be created from their combination.

Additional quality features result from the processing of raw stones. These include cut style and cut shapes. You can also define an unlimited number in the software.

### **New ID codes based on the stone classification**

The qualities stored in the classes and the individual carat weight give each stone an identity. It is printed on a label as a 24-digit stone code. The code contains all important data for the sales of gemstones as a speaking key.

Prevalent 1-dimensional barcodes are not yet able to reflect keys of such a length. Only with the new 2-dimensional matrix codes it is possible to accommodate these on labels with the usual dimensions.

### **Rationalization by coded labels**

Encryption in a matrix code is not only small and saves space on the label. With a matrix code, all relevant sales data are permanently accessible that way - without direct connection to the database. Via a scanner they can be read and processed anywhere, anytime, for example to take orders in the field or at trade fairs and when billing.

Interested parties from the gemstone industry can get to know eXtra4 <gemID> personally during the Inhorgenta, Munich, hall A2,booth

511. More information can also be found on the web at  
[www.extra4.com](http://www.extra4.com).

## Images with subtitles



Fig.1: Labelling of stone boxes with eXtra4 <gemID>



**Fig.2: eXtra 4 <gem ID>, Software for labelling and administration of gemstones**



**Fig.3: Logo eXtra4 <gemID>**