

# MARKING ON TEMPERED GLASS AND CARDBOARD

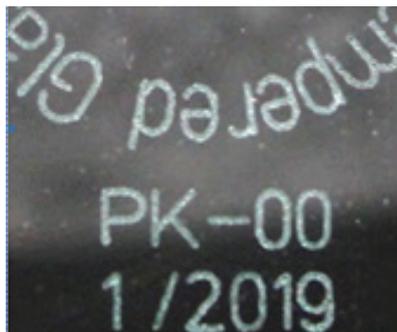
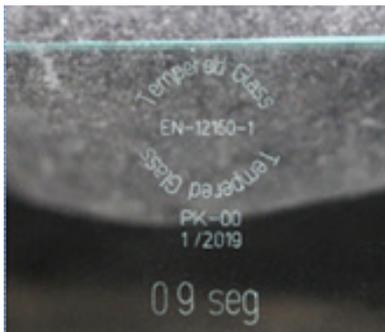
Bradma Laser systems are used to code and mark a wide range of materials including paper, cardboard, plastic (PET, PVC, HDPE), glass, metals and wood. We are able to produce high quality text, barcodes and graphics with very low operating costs and often at high speeds. Application news regularly provides examples of products that Bradma lasers are marking worldwide every day.

## LASER CODIFICATION ON TEMPERED GLASS

Tempered glass is a safety glass that, through thermal and chemical processes, increases its resistance up to 4 to 5 times more than normal glass. The tempering process puts the exterior surfaces into compression and the inner ones into tension. This way, if the glass breaks, it crumbles into small pieces instead of sharp splinters to prevent possible injuries.

This type of glass is often used in the construction industry, as well as in oven doors and windows that are out in the open, applications that experience large contrasts in temperature without breaking. Marking and coding on tempered glass must be equally resistant and readable due to the severe conditions it undergoes, to guarantee the traceability of the product in the event of an incident and comply with regulations in place.

With the SPA CB10 by Bradma, we achieve a resistant marking, with high contrast and definition, making any data matrix or barcodes easy to read with any code reader. The CO2 laser makes a shallow and fast marking that does not damage or crack the material, but instead provides a clean and frost-free marking.



|                         |                        |
|-------------------------|------------------------|
| <b>LASER</b>            | Bradma SPA CB 30 PLUS  |
| <b>LENS</b>             | 100 x 100              |
| <b>INDUSTRY</b>         | Building Materials     |
| <b>APPLICATION TYPE</b> | Marking                |
| <b>PRODUCT</b>          | Various glass finishes |
| <b>MATERIAL</b>         | Tempered Glass         |
| <b>MARKING TYPE</b>     | Static                 |
| <b>MARKING TIME</b>     | 9 sec.                 |

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## LASER MARKING ON CARDBOARD

Secondary packaging must also be coded correctly so as not to lose the traceability of the products inside, in this case, cardboard boxes that contain cleaning sprays. Cardboard is one of the most used materials thanks to it being sustainable, economical and easy to mark with a CO2 laser.

With the Bradma SPA K1030 laser, we get the right contrast so that codes, in this case a data matrix, can be read correctly. Using the standard 10.6 microns and regulating the power and speed of the scanners, we achieve a black marking on white cardboard that is clear and readable, key elements for good quality coding.

**Applying the right amount of power when marking cardboard is essential to ensure the substrate does not burn.**



|                         |                  |
|-------------------------|------------------|
| <b>LASER</b>            | Bradma SPA CB 30 |
| <b>LENS</b>             | 100 x 100        |
| <b>INDUSTRY</b>         | Home care        |
| <b>APPLICATION TYPE</b> | Marking          |
| <b>PRODUCT</b>          | Cardboard box    |
| <b>MATERIAL</b>         | Cardboard        |
| <b>MARKING TYPE</b>     | Static           |
| <b>MARKING TIME</b>     | 0.9 sec.         |