

MARKING ON WOOD AND ON BLACK POLYETHYLENE

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.

MARKING ON OAKWOOD WINE BARRELS

Marking in the beverage market is very diverse due to the multiple materials to be encoded, the type of beverage inside the package, and the speed of the production line. In this case, we will focus on the laser marking of oak wood wine barrels, a static marking that requires a powerful laser due to the wood's density.

Woods such as oak require a higher-powered laser to achieve a higher contrast engraving as well as a high-quality focal point, which is made possible with the HPD head. The quality of logo marking on wood depends on the quality of the logo itself. The more defined the greyscale is, the better definition achieved on the wood.

With the Bradma K-1030 HPD laser we get a high definition marking along with good readability, while obtaining uniform strokes of varying thicknesses. Taking into account that the life of a barrel storing wine is approximately 10 years, **laser is the best technology to achieve permanent, durable and ideal marking to ensure traceability during the product's shelf life and the wine reserved in it.**



LASER	Bradma K-1030 HPD
LENS	500 x 500
INDUSTRY	Beverage
APPLICATION TYPE	Marking
PRODUCT	Wine barrel
MATERIAL	Oak wood
MARKING TYPE	Static
MARKING TIME	19,94 seconds

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Polyethylene is a material with excellent thermal and chemical resistance used in multiple everyday applications. In this Application News, we will focus on high density polyethylene marking, used in tube manufacturing.

In rigid and dark materials, such as this application, a high visibility marking is required. With the Bradma S-3100 HPD laser, we managed to record the message scoring into the material. **This is thanks to the use of a** high-power density (HPD) head that, by increasing the focus point quality and energy density, allows the depth of the engraving to be increased and therefore achieve a perfectly legible marking on resistant materials.

With the lens used, 100 x 100, we achieve a suitable balance between the marking field and the appropriate energy density to obtain the optimal reaction.



LASER	Bradma S-3100 HPD
LENS	100 x 100
INDUSTRY	Construction materials
APPLICATION TYPE	Codification
PRODUCT	Tube
MATERIAL	Polyethylene (PE)
MARKING TYPE	Dynamic
LINE SPEED	40m/min