Cutting

Pewter Cutting, Engraving and Marking

To commemorate our participation in the 2013 Munich Laser World of Photonics we produced a special pewter ‘tankard’ pendent.

Pewter is a malleable metal alloy primarily made of tin with low levels of alloying elements. It has a very low melting point of circa 200°C which makes it challenging to process.

The 25mm pendent took 28sec to produce including the cutting out of all the apertures and external profile, all of the texturing and engraving and marking. A range of different parameters and WF settings were required to achieve this result. The fine character marking was especially challenging as control of heat input was critical to achieving legible text.

Application Parameters

Type	G4 30W HS-S
Power	30W
M^2	<1.3
Beam Ø	8mm
Scanner/Lens	10mm/164mm F - theta
Energy	Various waveforms up to 0.7mJ