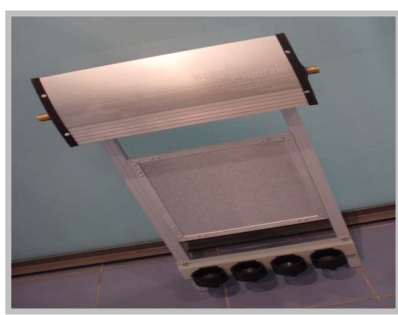


# Application news



**Marking Electrical Boxes**



**Marking Solar Heaters**



**Marking Make-up Cases**

MACSA™ lasers are used for coding and marking products made from a range of materials including paper, cardboard, plastics (including PET and PVC), glass, many metals and wood. High quality messages and graphics are produced at minimal production costs, often at high speed. Applications News provides a regular summary of the products which are coded and marked by Macsa lasers: every day and world-wide.

## Marking Electrical Boxes

On this application, we have marked a logo with a 0.07 and 45° filling directly on PC plastic material.

**With a CO2 laser, we are able to get a uniform raising, with no need of over heating or deforming the material.**

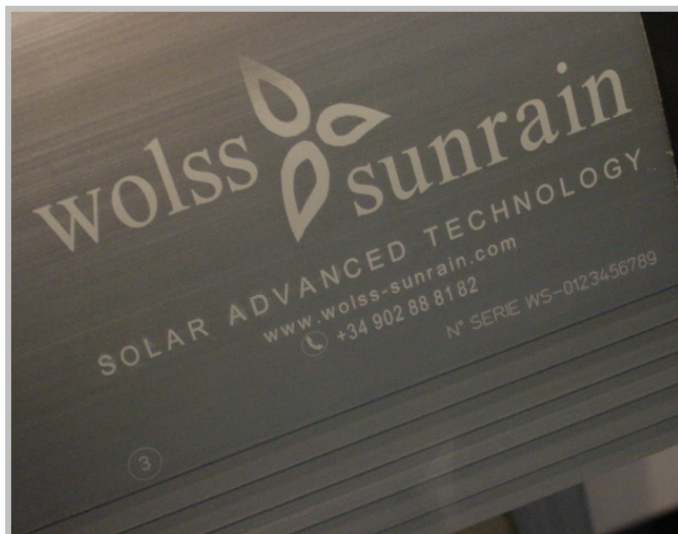


MATERIAL	LASER	LENS	SCANNERS	MODE	POWER	TIME
Plastic PC	<b>K-1010 PLUS</b>	60x60	5.000 mm/sc	Static	100%	<b>3,1 sec.</b>
Plastic PC	<b>K-1010 PLUS</b>	60x60	3.000 mm/sc	Static	100%	<b>3,3 sec.</b>

**Marking Solar Heaters**

With a YAG laser, we have marked a 150 mm long logotype on anodised aluminium.

By marking with a long focal distance lens, the laser beam expands, so that the efficiency of deep marking is reduced and a superficial contrast on the anodised aluminium is perfectly achieved.



MATERIAL	LASER	LENS	SCANNERS	MODE	POWER	LINE SPEED
Aluminium	<b>D-5020</b>	170x170	1.500 mm/sec.	Static	100%	<b>15 sec.</b>
Aluminium	<b>D-5020</b>	170x170	1.900 mm/sec.	Static	100%	<b>14 sec.</b>

**Marking Make-Up Cases**

On this application, we have dynamically marked 3 text lines at a speed of 35m/min.

We have used our K-1030 CO2 laser and a short focal distance lens in order to get deeper marking for better reading contrast.



MATERIAL	LASER	LENS	SCANNERS	MODE	POWER	TIME
Plastic	<b>K-1030 PLUS</b>	60x60	11.000 mm/sc	Dynamic	100%	<b>0,12 sec.</b>
Plastic	<b>K-1030 PLUS</b>	60x60	10.000 mm/sc	Dynamic	100%	<b>0,13 sec.</b>

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