



**BESHIELDING**  
BUSBAR | ENGINEERING | SHIELDING



## INDUSTRIAL FLAT SHIELDING

### Description of the problem

The protection of workers who are professionally exposed to electromagnetic fields has been the subject of European directives as of 2004 (2004/40/EC) and after further postponements, next July 2016 said directives will be implemented in all European countries, with the limits set forth in directive 2013/35/EU.

In November 2015, the guide lines for the directive were published and numerous professions and appliances have been affected by the problem of electromagnetic field emissions.

Sati Shielding is able to develop ad hoc shielding solutions for these devices. The case of a "demagnetiser" is provided by way of example: a device used to demagnetise ferromagnetic objects of their residual magnetism.



### Solution

The shielding solution proposed in this case is comprised of a wheeled structure, that can be moved to perform maintenance on the demagnetising equipment.



### Results

The reduced magnetic impact generated by the demagnetiser is significant. As you can see from the figure which illustrates the magnetic induction trend along the line shown in blue, magnetic induction is reduced by about 4-5 times in relation to the situation without shielding.

The magnetic induction levels are below the limit of 500 and 1000 microT which represent the limits of the current directive 2004/40/EC and the following 2013/35/UE.

