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Stand 22

**Kelvin Nanotechnology Ltd.**

At Kelvin Nanotechnology Ltd (KNT) we provide nanofabrication solutions to industry and academia delivered through the state of the art James Watt Nanofabrication Centre. We specialise in high resolution, large area, multilevel electron beam lithography for applications such as transistor gate writing, imprint masks, optical elements, photonic crystals, nanotextured surfaces and many more.

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M

Stand 101

**MBN Nanomaterialia S.p.A.**

MBN Nanomaterialia S.p.A. is a company dedicated to the production and development of innovative materials. Founded in 1994 with the mission to reach the production of new nanophased materials on industrial scale, today MBN Nanomaterialia S.p.A. owns a high-tech manufacturing process of nano-materials with a production capacity of more than 200 tons per year.

MBN Nanomaterialia S.p.A. developed a proprietary process for producing Mechanomade® powders by HIGH ENERGY MILLING. This process is highly flexible and allows the production of nanophased materials by combination of different mechano-chemical phenomena of: reaction milling, mechanical alloying and high energy mixing.

The main topics of the company in the field of nanotechnology are:

- Production of nanostructured powders (Mechanomade®): Fe-Cu and Fe-P based alloys for PM metallurgy, WC based cermets and Ti pure for thermal spray technology.
- Production of semi-finished consolidated products by powder extrusion technology (MechanoXT®) or direct powder forging (Mechanoforge®): nanostructured magnesium based alloys and aluminum based nanocomposites (in form of bars and rods) titanium based alloys for biomedical applications, and copper-alumina based nanocomposites.
- Production of nanofluids: polymer alloys, nano-dispersions, nano-charging.

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