

New generation of metal bonds for the stone working field



After the great success at the MARMOMACC 2009 trade fair, MBN is pleased to show you the new **“cobalt free”** product range for the diamond tools sector.

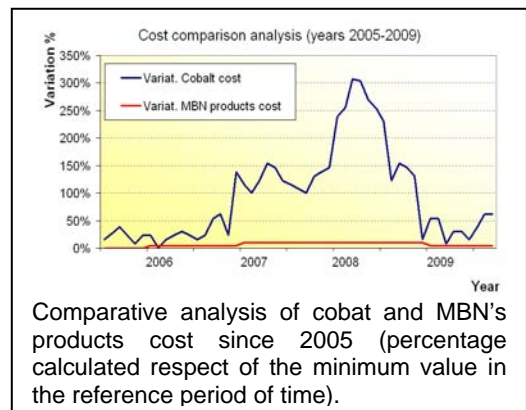
Our new products (Metal Bonds) allow to achieve remarkable benefits as:

- **economical:** good prices and price stability along time;
- **eco-logical:** replacement of cobalt with iron-based systems;
- **performance:** high mechanical properties and flexibility of use.

The key factors of our success are the technological background content (coming from advanced scientific research in the material field) and the employment of an exclusive technology: MBN Nanomaterialia manufactures on patented plants which were developed and manufactured by itself.

Thanks to the exploitation of nanotechnologies, MBN was able to increase the physical-mechanical properties of Iron-based systems up to the Cobalt-based ones.

Nowadays MBN can offer two main product series covering almost all tools types.



* **“Mechanomade® series”** – iron/copper- based systems: they are the result of about 10 years of optimizing experiences. These materials are synonym of the reliability of a product which has already been tested and used in various sectors.

* **“Nanoplus series”** – Iron/phosphorus systems: they represent the latest evolution of these materials family. They offer at the same time excellent performance, good prices and ecological aspects exceptional for this sector.

Our metal matrixes can be used with common hot-pressing and free-sintering technologies, using the usual range of process parameters. This characteristic is well in line with the company mission: we aim at bringing nanotechnology from the research field to everyday life products, offering a special range of materials (including *nano-features inside*), that can be sintered/treated through traditional manufacturing processes.