

Quality Times



with Meister Abrasives

Spring 2008

Presented By

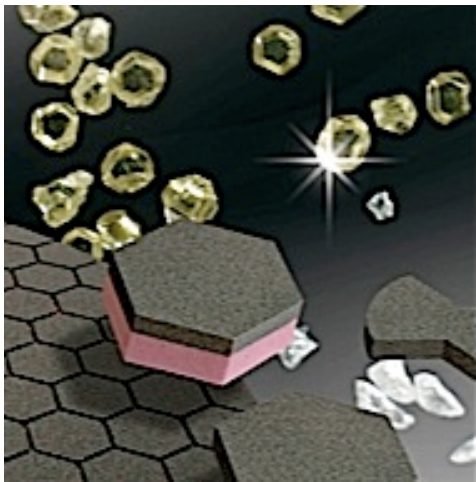


Meister Abrasives USA, Inc.
201 Circuit Drive
North Kingstown, RI 02852

Phone: 401-294-2530
Toll- Free: 1-888-Meister
Fax: 401-294-7326

On the web:
www.meister-abrasives-usa.com

E-Mail:
sales@meister-abrasives-usa.com



In This Issue:

Welcome to Quality Times: Why we are sending you this newsletter and how we intend to make this news you can use.

Meister Abrasives USA Celebrates 20 Years: Twenty years old and going strong, Meister Abrasives USA remains committed to delivering the consistent quality you need to lower costs and keep your manufacturing process on target.

New hDD Diamond Dressing Technology: With our revolutionary new dressing tools grinding wheels perform better and the dressing tools never need reconditioning.

Meister USA Milestones: Highlights of our first 20 years.

Welcome To Quality Times

You have received this newsletter because you are a Meister Abrasives customer or have expressed an interest in becoming one. In each issue we intend to provide you with news and information on products and applications that are giving our customers a competitive advantage by making their grinding operations more consistent and productive.

We want to make QUALITY TIMES as useful to you as it possibly can be. So please contact us:

- To let us know about subjects you would like covered in future issues [click here.](#)
- To add other individuals at your company to our mailing list [click here.](#)
- To suggest that we write a case history about your company for a manufacturing trade publication [click here.](#)
- Or to ask us to unsubscribe you from this newsletter [click here.](#)

Warmest Regards,

Bruce Northrup
General Manager
Meister Abrasives USA



Good To Go: Meister USA principals about to embark on an all hands, 20th Anniversary Celebration on Martha's Vineyard. Shown Here (L to R): Rudy Arn, President, Northeast Technical Sales, LLC; Andy Miller, Vice President, Meister Abrasives USA, Inc.; Bruce Northrup, General Manager, Meister Abrasives USA, Inc.; and Thomas Meister, President, Meister Abrasives USA, Inc.

Meister Abrasives USA Celebrates 20 Years

It has taken a great deal of effort to build a totally American operation for our Swiss custom engineered superabrasive products company. So one Saturday, early in June we took off to the nearby island of Martha's Vineyard to celebrate the first 20 years of Meister Abrasives USA. It was just a little token of appreciation for everyone who has worked so hard to build the business and keep our customers satisfied.

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Meister USA Staff, June 2008



Meister Unveils New hDD Hybrid Diamond Dressing Technology

Revolutionary Dressing Technology:
With our new hDD dressing tools, grinding wheels perform better and the dressing tools never need conditioning.

Meister Abrasives has introduced a remarkable new hybrid bonding technology for rotary diamond products used to dress CBN grinding wheels. The company's new hDD (hybrid diamond dressing) tools combine the toughness of metal bonding with the natural porosity of a vitrified bond structure, comparable to porosity found in vit CBN grinding wheels.

The many advantages of this new combination include more efficient dressing cycles that lead to more consistent CBN grinding wheel performance, increased intervals between dresses resulting in longer grinding wheel life, improved longevity of the dressing tool itself, and total elimination of the need to change out the dressing tool for re-conditioning.

One of the secrets of this new technology is a proprietary manufacturing process that both mechanically and chemically bonds the diamond particles within the tool to insure that they will be held securely. As a result, metal posts or "bridges" that attach to the diamond crystals in the bonding matrix can be slender, allowing for large pores to be naturally distributed between the crystals.



The improved porosity means that hDD rotary dressing tools are freer cutting, carrying more material and heat away from the CBN wheel with every revolution. This creates a better surface condition on the CBN wheel and does it faster. More efficient dressing means that CBN grinding wheels last longer, because less superabrasive needs to be removed, less often, to return the wheel to optimal condition.

The porosity and thin metal bond-posts also allow each crystal to stand out proudly for exceptional sharpness. When the diamond ultimately wears to the level of the metal matrix, the thin posts fracture, allowing the crystals to readily break away from the bond, thus revealing new layers of thoroughly exposed diamond.

Since the dressing tool remains consistently sharp without ever needing to be removed for conditioning, the surface of the CBN wheel is restored to the same condition after every dressing cycle. This gives the manufacturer a more consistent grinding process from beginning to end.

[Click Here](#) to get more information about Meister Abrasives' new hDD Dressing Tools and other new products.

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Meister USA Milestones

The history of Meister Abrasives' growth in the North American marketplace has been one of careful and methodical development of engineering expertise, applications experience and manufacturing excellence in concert with the world-wide corporation's exceptional product R&D capabilities. Significant US milestones include:

70's and 80's: Meister known for its ID superabrasive grinding wheels handles sales on an itinerant basis by President Konrad Meister (Founder of Meister International) and later with Andy Miller (UK).

1988: Pratt & Whitney asks Meister to develop a 12" superabrasive grinding wheel. Meister USA formed to expedite government approval process. Five year task force established to study US business potential, with a sales office opened in Shrewsbury, MA.

1994: Task force determines there is a substantial opportunity for US manufacturing of Meister products. Small scale production facility is established in Worcester, MA.

2000: Meister purchases land and builds full scale manufacturing plant in North Kingstown, RI. Location chosen because of availability of skilled labor capable of performing high precision superabrasives manufacturing.

2001-06: Mirror image of Swiss manufacturing processes established in the US for Meister's complete product line.

2006-08: Phased US introduction of patented HPB Bonding technology for CBN wheels. This product gives manufacturers more options for improving part quality and manufacturing productivity.

2008: hDD Hybrid Diamond Dressing Technology introduced in US market.

The Future: Meister will continue to work with our customers to develop custom engineered superabrasives solutions that satisfy the requirements of the most difficult grinding applications.

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Konrad Meister and Andy Miller circa 1988.

Made In USA

To insure timely deliveries, nearly all Meister USA products are made to exacting international corporate standards at our state-of-the-art plant in North Kingstown, RI.



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