Intelligence inside
Hermes CBN® bonded abrasives with an RFID chip for wireless data transfer
Benefits, you will appreciate with digital interfaces...

The core body of Hermes CBNi bonded abrasives is equipped with an RFID chip (Radio Frequency Identification). These chips enable the machine and the tool to communicate with one another and transmit important data wirelessly to make your grinding process more reliable and more efficient. Chip storage capacities currently range from 752 - 2000 bytes at a reading speed of 0.02 - 0.03 seconds per 16 bytes.

Prior to delivery, Hermes agrees with tool users the data to be stored, which may be test data (including actual diameter), process identification no., max. circumferential speed or dressing parameters, for example — and on request, this includes setting up password protection.

**PROCESS AUTOMATION**

High-quality superabrasives in particular, such as CBN grinding wheels, have to be used carefully because of their high purchase cost. Therefore, optimum process parameters are indispensable.

A long tool life is guaranteed only if the grinding wheels are dressed to suit the specific application. A basic requirement for this is a trackable process history which can provide complete information about the current status of the abrasive at any time. Validated information about how many grinding processes and dressing cycles the abrasive in question has already completed must be available in addition to current tool dimensions.

**HERMES SOLUTION**

Hermes CBNi grinding wheels would allow this data to be read out directly. At the same time, manufacturer recommendations regarding optimum setting variables could also be stored reliably.

**TOOL MANAGEMENT**

Digital interfaces simplify tool management significantly. Digital assignment of setting variables would make it possible to dispense completely with printouts which accompany the products.

In addition to geometric tool data, digital documentation of the tool life cycle would also save individual information such as the number of components already ground or the number of dressing cycles, for example.

**HERMES SOLUTION**

With Hermes CBNi grinding wheels, continuous comparison with the manufacturer's defined wear limit would put tool management in a position to trigger a new order automatically if required.
Digital interfaces simplify tool management significantly. Digital assignment of setting variables would make it possible to dispense completely with the printouts which accompany the products. In addition to geometric tool data, digital documentation of the tool life cycle would also save individual information such as the number of components already ground or the number of dressing cycles, for example.

**SAFETY**

The use of digital abrasives also promises numerous benefits for process reliability. The automatic transfer of setting variables to the control unit of the machine tool could eliminate individual intervention and thus the risk of faulty use. Information about tool dimensions already stored would be matched directly to safety-related process data, thus preventing potential collisions.

**HERMES SOLUTION**

With Hermes CBN grinding wheels, the tool is clearly assigned to the respective grinding option and ensures trouble-free and safe processes.
At Hermes, Tradition has a future.

Hermes Schleifmittel is a Hamburg company in the true tradition, with roots going back to 1927. The company is not only one of the world’s key manufacturers of coated abrasives – since 1993, it has also occupied a leading market position in the production of precision bonded abrasives.

Hermes owes this market position to its insistence on unsurpassed quality. We feel an obligation to this tradition and it is our main priority for the future. This obligation is the greatest incentive there is, and we devote all our energy and commitment to it – tradition shaping the future.

Hermes maintains numerous production sites and sales offices in all the main industrial and emerging nations of the world, underlining its international commitment and its efforts to provide its customers with a competent local consulting service.

Come and see our page.

The Hermes websites are continuously updated and form an important information platform for customers and interested parties. Here you will find virtually all the information which is useful when planning and purchasing Hermes abrasives.

Hermes websites use databases to inform you about new products and application solutions and to provide you with facts and figures about the Hermes Group. Numerous useful functions help you find out quickly and easily everything you need to know about Hermes abrasives. In the “Product Finder” for example, enter simple search queries to find the correct Hermes type and have its key product information (such as product structure and benefits) and primary applications displayed. Alternatively, use the interactive “Contact Finder” for a list of Hermes experts (both office-based and sales) – all over the world, of course.

Regardless of where you are on our websites, whether in the “Product Finder” or in the application solutions or in the “Download-Center” area – you always have the option of downloading information about our products and application solutions for immediate use on your PC, tablet or smartphone.

Try us out. We look forward to your visit.