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## **Ligna 2009: Vollmer's Seven Golden Rules For Resource Efficiency**

**Vollmer, a specialist manufacturer of grinding and eroding machines for tool production and servicing, presents at the Ligna 2009 trade fair in Hannover its seven golden rules for efficient resource utilization. These range from system adaption and intelligent motor control over dimensioning to optimized component selection and efficient maintenance. High quality, accountable utilization of resources such as energy, material, people, and cost efficiency are the main themes that Vollmer has this year bundled under its Ligna motto “Precision With Efficiency”.**

”It has been our tradition for over 100 years to save resources. When developing and designing our machines, it has always been our approach to use material and energy as economically as possible,” says Dr.-Ing. Stefan Brand, Managing Director of Vollmer Werke Maschinenfabrik GmbH. “We have now bundled our extensive experience with resource efficiency in the seven golden rules we present.”

### **Use resources efficiently**

Vollmer is committed to saving resources while at the same time maintaining top quality in grinding, and this commitment is clearly presented at Ligna 2009 in Hannover under the motto “Precision With Efficiency”. Vollmer's aim is to guarantee supply, save resources and reduce CO<sub>2</sub> emissions when developing, operating and maintaining its grinding machines. In order to make this commitment more visible, Vollmer has formulated seven golden rules of resource efficiency that must be observed within its corporate processes:

#### **1. Adapt systems**

Vollmer adapts and customizes its grinding machines for specific applications in order to optimally utilize energy consumption, material usage and system design. The various requirements placed on our grinding machines, which are used in servicing and production operations in the wood and

metalworking industries, have made it necessary to use resources flexibly. Therefore, we fine-tune the energy consumption and performance parameters of every system.

## **2. Integrate control**

It costs almost nothing to switch off unneeded components of a grinding machine and to save energy in this manner. Moreover, torque-controlled drives can be used to adjust the grinding spindle drive output efficiently to the particular sharpening procedure.

## **3. Plan system design and layout**

Over-dimensioning a sharpening machine has nothing to do with a better quality, it just costs money and wastes resources. With every component, such as the motor or handling arms, Vollmer makes sure that their weight and volume are dimensioned so as to minimize the floor space and power required by the machine.

## **4. Select components**

By selecting materials and/or components, such as cooling units or motors, it is possible to directly influence the resulting resource efficiency and energy consumption. For instance, for many sharpening procedures it is sufficient to use a simple ball screw drive instead of a costly linear motor that shows a high power consumption when running idle, thus wasting energy unnecessarily.

## **5. Optimize production procedures**

Vollmer does not only optimize finishing procedures of its grinding machines but also the way the machines are used by customers. While the company makes sure that resources, such as floor space, energy and material, are used efficiently, it is the grinding machine's system design and layout that are of particular importance for customers. Thus, various procedure steps, such as measuring, eroding and polishing, can be performed within a single set-up of an eroding machine, which saves time and energy at reduced costs.

## **6. Increase operating performance**

Long service life and low emissions represent important factors for the overall operating performance of a grinding machine. When developing and designing our products, Vollmer makes sure that resource efficiency is reflected in the minimized use of consumable materials and energy. Moreover, by carefully selecting the materials and technologies used, Vollmer ensures that its grinding machines deliver a long service life and durability.

## **7. Keep maintenance simple**

With simple maintenance supported by fast diagnostic systems, resources can be employed efficiently to keep the machine running. Thus, a worn-out belt or a non-adjusted tool does not just waste energy, it can even impair process quality. A comprehensive system of diagnostic and auxiliary devices enables the operator to keep the machines in a condition ensuring their energy-efficient operation. In the design and development phase Vollmer makes sure that its products require no or just minor maintenance.

### **Precision With Efficiency**

Vollmer's seven golden rules form a solid foundation for a true precision on the cutting edge. It is the alpha and omega for every tool that is supposed to cut wood, metal or light construction materials. In order to meet the various requirements of tool manufacturers, sharpening service shops, sawmills as well as of businesses in the automotive and construction industries, the customized adjustment of a grinding or eroding machine is of key importance. It is the ultimate objective of Vollmer's design and development activities to achieve the desired precision while using all necessary resources efficiently.

“We constantly strive to ensure an optimum combination of quality, resource utilization and costs – that is what every grinding machine leaving our factory must deliver,” says Dr. Stefan Brand.

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### About Vollmer Of America

The VOLLMER Group has evolved as the specialist in re-sharpening and production of PCD tooling, Carbide-tipped circular saws, HSS circular saws, and Band saws. VOLLMER Technology & service offers the latest in grinding, erosion and conditioning machines for tooling and circular saw and band saw blades used in woodworking, metal-cutting, and the processing of composite materials.