

**Taking the initiative  
on energy and environment**



**BLUECOMPETENCE**

## **Companies supporting the Blue Competence Initiative at EMO Milano 2009**

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## Cutting-edge technology from Germany

- 1 applying latest scientific results, with proven methods and support from simulation**
- 2 designing machine tools with a positive environmental profile, making use of energy-saving subsystems**
- 3 setting standards for future manufacturing meeting ecological criteria**
- 4 providing guidance for energy-saving operation of machine tools**
- 5 affirming the continuous desire to combine optimal technological performance with ecological excellence**

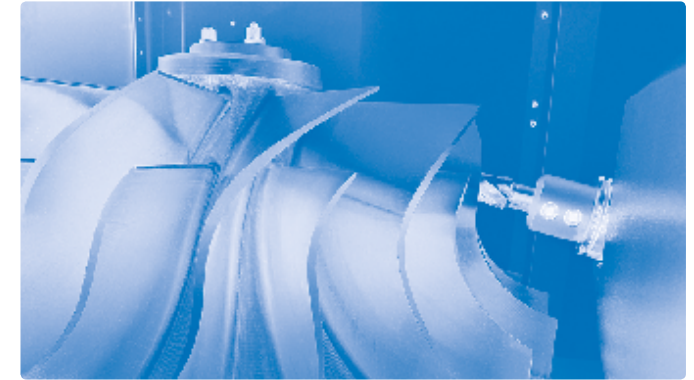
## Blue Competence – sustainable technologies

German machine tool manufacturers in the VDW are preparing the best possible technological solutions for the challenges ahead in climate change and energy consumption.

Blue Competence, an energy and environment initiative taken by VDW and its member companies, spells out German machine tool manufacturers' sense of responsibility regarding raw material use and the avoidance of negative environmental impact from industrial production. Allied to this is a commitment to realise this not only for operating machines, but also by exclusively employing energy-saving technologies, environmentally sustainable materials and resource-sparing processes in manufacturing products.

The measures to be employed are as different and varied as the machines themselves to make products as environmentally-friendly and energy-efficient as possible, VDW has developed a catalogue of measures for environmentally sustainable and resource-saving machine tool manufacturing.

The goal is to define standards for the machine tool industry, thereby aligning with the political determination to define energy-saving measures within a self-regulation approach in accordance with the new European legislation for Energy-Using Products (EuP) 2005/32/EG.



The necessary activities have been launched together with all European machine tool builders' associations under the umbrella of CECIMO to achieve responsible utilisation of natural resources and for setting ecological standards for machine tools.

Proposed measures include weight optimisation, friction minimisation, the selection of environmentally friendly materials using latest scientific know-how, methodical support and simulation processes, as well as the selection and adoption of energy-saving technologies with a proven positive eco-balance. Other proposals concern energy-recovering power technologies, storage and use of waste heat, need-related and environmentally correct media provision, energy-minimising operation and complementary operational guidance, intelligent stand-by concepts, targeted information about energy consumption for operators and experience-based, energy-related process optimisation.

German machine tool builders are incorporating these measures in the design and manufacturing of their products accompanied by the continuous desire to provide optimal technological performance as well as ecological excellence.

**For more information about this initiative ask your machine tool builder or contact VDW: [bluecompetence@vdw.de](mailto:bluecompetence@vdw.de).**