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Increasing the efficiency of metal-cutting machining centres

50% reduction in the energy consumption possible

Modern machine tools offer a diverse range of possibilities: they drill, mill, saw, turn and grind fully automatically. These production steps, which comprise the different metal-cutting processes, often only make up around 20% of the machine's energy consumption. Most of the energy is consumed by peripheral systems such as the hydraulics, cooling and lubrication. The BINE-Projektinfo brochure "Making machine tools work more efficiently" (03/2014) presents a research project that analysed the energy consumption of the individual machine components and developed optimisation concepts. Energy savings of up to 50% are possible. In some cases the additional measures pay for themselves after just a few months.

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The research project is being led by the Institute for Production Management, Technology and Machine Tools (PTW) at TU Darmstadt. Partner companies are also involved from the mechanical engineering, component manufacturing and automotive production fields.

The BINE Projektinfo brochure, which can be obtained free of charge from the BINE Information Service at FIZ Karlsruhe, is available online at www.bine.info or by calling +49 (0)228 92379-0. The brochure cover and an additional image can also be downloaded from the press section in this web portal.

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