# Press release August 08, 2024

Magnetic clamping technology

**Greater safety during magnetic clamping – due to ePaper status display and calculation app**

**With the revision of its MAGNOS magnetic chucks for deformation-free 5-sided machining, SCHUNK offers additional process reliability and user-friendliness. The new ePaper status display clearly shows the machine operator whether the magnetic chucks are activated or deactivated. In conjunction with a specially developed MAGNOS app, users can simulate their clamping situations in advance of machining.**

For years, MAGNOS magnetic chucks from SCHUNK have stood for energy-efficient and reliable clamping of ferromagnetic workpieces. Workpiece clamping with magnetic clamping technology not only has impressive and high holding forces, it is also the ideal clamping solution for milling applications with 5-sided workpiece machining in a single set-up. Electropermanent technology ensures a uniform magnetic clamping force over the entire workpiece, making even complex machining tasks possible. Here, the plates only require a short electrical pulse for magnetization or demagnetization, which contributes to energy-saving machining processes.

SCHUNK was the first supplier to equip its magnetic chucks with a visual status display in the connection housing. The green/red colors provided the machine operator with information about the magnetization status. With the revision, the clamping technology experts have now replaced this safety feature with an ePaper display that is unique on the market, even more clearly displaying the clamping statuses "MAG ON" and "MAG OFF".

**Intelligently combined**

In conjunction with the SCHUNK MAGNOS app, the status display makes handling of MAGNOS magnetic chucks much easier, thereby ensuring maximum process reliability. The app can be used to quickly and easily calculate holding forces in advance based on the size and material of the workpiece. As the process data is also fully included in the calculation, production processes can be optimized. The app uses a simulation to show whether all parameters have been correctly selected for safe machining and therefore eliminates any uncertainties.

MAGNOS MFRS magnetic chucks with the new ePaper status display will be available from the first quarter of 2025 on. The equipment for series MFPS and MFRS-DM is currently in planning.

**schunk.com**

**Captions:**

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| Ein Bild, das Elektronisches Gerät, Elektronik, Metallwaren, Computerkomponenten enthält.  Automatisch generierte Beschreibung | SCHUNK has equipped the proven MAGNOS MFRS magnetic chucks with a new  ePaper status display, which clearly indicates the clamping statuses.  Image: SCHUNK |
| *MFRS2 Produktbild Stellvertreter.jpg* | |
| Ein Bild, das Elektronisches Gerät, Elektronik, Computer, Tastatur enthält.  Automatisch generierte Beschreibung | The patented status display: "MAG ON" indicates magnetization status. Now the workpiece is firmly clamped to this magnetic clamping module.  Image: SCHUNK |
| *MFRS2 Highlight MAG ON.jpg* | |
| Ein Bild, das Maschine, Forschungsinstrument, Im Haus, Silber enthält.  Automatisch generierte Beschreibung | Workpiece clamping with magnetic clamping technology not only has impressive and high holding forces, it is also the ideal clamping solution for milling applications with 5-sided workpiece machining in a single set-up.  Image: SCHUNK |
| *MAGNOS\_Anwendungsbild\_MAG\_ON.jpg* | |

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