

**Advantages of the linear motor and long-time design experience  
perfectly combined in profiled guide slides PFL / PCL**

- *Integrated linear motor core of the very compact and highly-precise machine building component*
- *Complete integration of the direct drive into the machine ensures highest reliability and an optimization of the machine design*

**Löffingen-Unadingen, July 10, 2007** – The company Föhrenbach GmbH, one of the important developers and producers in the automation and handling technology for the precision machinery industry, offers with its market-proved and many times implemented profiled guide slide **PFL / PCL** a very compact and reliable linear drive component. The linear components **PCL** (version with cover) and **PFL** (with bellows) – both developed and produced by Föhrenbach – guarantee high accuracy in a super compact package due to the high integration of all components.

By the utilization of the linear drive in combination with the sophisticated design the **profiled guide slide** becomes a drive component that allows an optimized machine design because component parts such as gearboxes, pinions, racks or spindels are not needed. Furthermore the linear drive features excellent synchronisation characteristics. These can be reached also at low speeds in connection with a highly soluble measuring system. Also under adverse or difficult operating conditions the direct driven **profiled guide slide PFL / PCL** operates due to the complete integration into the machine as long-lasting and reliable component. Therefore it makes a large contribution to the overall high reliability of the entire



system. The high rigidity allows a higher stiffness of the automatic control loops. On top of that the linear drive of the **profiled guide slide** features best efficiency and highest positioning accuracy. “The advantages when utilizing a linear motor had been our design guidelines: We avoid inaccuracies caused by transmission play, resonance or hysteresis”, says Manfred Föhrenbach, founder and managing director of Föhrenbach GmbH. “With the standardized and integrated measuring systems, available in the versions magnetic, optical or opto-isolated, with the option of integrated centralized lubricating or, depending on the implementation, with or without cooling, the linear unit can be used in applications with extreme high dynamics, positioning accuracy (smaller 1µ) and stroke (up to 3600 N max). At the same time the **PCL / PFL** are wearless and reliable units due to their contactless architecture: Even under adverse operating conditions with dust, water or oil involved, the linear unit features excellent synchronisation characteristics and a continuous highly efficiency at rated power. Therefore with the **profiled guide slides** the customer uses not only an innovative high-tech product that is predestinated for size-critical and at the same time challenging applications. Its compact size is realized through its high integration of all components. Due to the fact that the direct drive unit can be equipped with a pre-parameterized servo drive or the customer can provide a servo drive and Föhrenbach will programm it, the customer saves time, manpower and most of all costs. He has the full flexibility with his axis control.“, says Manfred Föhrenbach, founder and managing director of Föhrenbach GmbH. „On top of that due to the integrated architecture the decreased EMV values and less cabeling are additional advantages of our system.“

**Additional information on the products or the company Föhrenbach GmbH at [www.foehrenbach.com](http://www.foehrenbach.com).**



## PRESS RELEASE



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***The Föhrenbach Group is developer and producer of high-precision components, units and systems for linear and rotary movements of the automation technology and precision machinery industry. Products of Föhrenbach are solutions for guided slide, drive, movement, control and positioning requirements. Additionally Föhrenbach offers products to complete the portfolio for customized complete solutions up to special machines. Founded in 1975 the company is today one of the leading suppliers and serves with about 100 employees well-known customers of the general machinery industry but also of specific branches such as laser technology, grinding, measuring- and checking, palletising/packaging machine industry, CNC machines or medical technology. Additional production plants in Switzerland (Weinfelden) and Ireland (Sligo), all state-of-the-art production facilities with a large manufacturing range for highest quality standards, ensure short delivery times and just-in-time service for the international customer base.***

