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## Long life cycle reduces operating costs

Vacuum cups for sheet metal handling

**Customer expectations of high quality, stylish design, functionality and long life cycle have risen significantly in the metalworking and sheet metal processing industries. This calls for a strong partner that tailors flexible and innovative solutions to customer needs. FIPA GmbH ([www.fipa.com](http://www.fipa.com)) has an extensive sheet metal handling range. “Whether you want to move sheet metal automatically or manually, we have exactly the right products to meet your needs,” says Thomas Trefzer, Director Business Unit Sheet Metal.**

A very long service life thanks to high wear-resistance combined with a high holding force, plus slip-resistance and the absence of paint-wetting impairment substances (PWIS) are essential for reliable sheet metal handling. All FIPA vacuum cups for sheet metal handling meet these requirements and boast unbeatable quality at fair prices. FIPA offers a complete range of vacuum cups in various designs as well as an extensive selection of accessories for the automated production and handling of sheet metal parts in the automotive, machinery and plant engineering sectors as well as the metalworking and sheet metal processing industry.

SM-F and SM-B series flat and bellows vacuum cups are perfectly designed for dynamically handling sheet metal. Metal sheets with more curved surfaces can be handled using bellows vacuum cups with 1.5 folds, which have a geometry that facilitates the handling of three-dimensionally formed sheet metal and ensures good buffering for the positioning of the vacuum cup. Both types of vacuum cup are optionally available with five different connection threads or with a rectangular quick-change adaptor.

SM-O series oval vacuum cups allow long or cylindrical workpieces to be handled in tight spaces. They generate significantly more suction power than round vacuum cups of the same width. Thanks to their shape, oval vacuum cups with bellows facilitate the handling of narrow, three-dimensionally formed metal sheets and also guarantee good buffering as the vacuum cup is applied.

# FIPA Press Release

A very long life cycle is achieved through the use of a highly wear- and oil-resistant NBR material. In practice, this allows the number of vacuum cup replacements to be reduced and operating costs to be lowered in comparison with other NBR vacuum cups available on the market. Anti-slip cleats ensure excellent slip-resistance and good absorption of lateral forces even with oily metal sheets. The cleats prevent thin sheet metal from becoming deformed. Vacuum cups for sheet metal handling also work on curved surfaces without leakage thanks to an adaptable sealing lip.

## **FIPA vacuum cups for sheet metal handling at a glance:**

- **Slip-resistant even with oily metal sheets:** Flat, bellows and oval vacuum cups for high accelerations
- **Very long service life:** Optimum materials ensure a high degree of wear-resistance
- **Reliable:** Flexible sealing lips for high holding forces even on curved sheets
- **Free of paint-wetting impairment substances (PWIS):** Paint-wetting impairment substances are not permitted with products that need to be painted or coated

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FIPA specializes in vacuum, gripper, and lifting technology. The international company develops and sells high-quality products and innovative system solutions for the material flow sector. FIPA GmbH was founded in 1985, and employs around 70 members of staff at its headquarters in Ismaning, near Munich. FIPA also has an international presence, with its own subsidiaries in the USA and Thailand, and representative offices in Hungary and China. For further information on FIPA, see <http://www.fipa.com>.