

## Press Release

### **Maag's S Series pumps for most demanding applications**

**Oberglatt, Switzerland, July 15, 2015** – Maag presents a new S Series of screw pumps that offer the process industries a variety of options for conveying challenging fluids. These rotary positive-displacement pumps provide numerous advantages over conventional technologies including

- ATEX-certified for use in explosive or dangerous environments.
- Self priming capability, good suction performance
- Excellent speed/output linearity
- Low pulsation
- Constant flow even at considerably different pressures and volumes
- Compact footprint and ease of maintenance.

The basic design of the pump entails two screws, a drive screw and an idler screw. During pump operation, these integral shaft screws are engaged and form a sealed cavity with the surrounding pump housing. The pumped liquid is transported axially as the screw shafts turn and is conveyed in a consistent and pulseless flow to the pump discharge port. Since hydraulic forces on the two screws are balanced, there is little or no hydraulic stress on the screws, promoting maximum life of the internal pump parts.

Twin-screw pumps can be a good option for conveying challenging multiple-phase fluids containing oil, gas, and water in the oil and gas production sector.

In a variant of the S Series, the twin screw pumps employ timing gears to transmit the power from the power screw shaft to the idler screw shaft to reduce the possibility of wear when pumping abrasive materials, or where special materials of construction dictate non contacting operation.

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Maag also offers a multiphase-fluid option designed for medium- to low-pressure applications. These are robust, reliable, and built for long service life, and commonly used in oil and gas production fields and with collection systems that have untreated streams. These pumps can handle multiple phases containing oil, gas, and water, primarily because they have a large chamber to separate the gas from the liquid.

The S Series Triple Screw pump is designed for handling clear, lubricating liquids without solid content. The internal structure of the Triple Screw includes a male drive spindle, two female secondary spindles and a housing containing the three screws.

Within the sealed chamber, the three rotating screws move the material along in the axial direction and toward the discharge port in a linear and surge-free manner.

The S Series Screw Pumps are now part of Maag's well known Industrial Pumps platform.

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Photo: Maag Screw Pumps



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### **About Maag and Automatik:**

*Maag is the worldwide leading manufacturer of gear pumps, pelletizing systems, and filtration systems for demanding applications in the plastics, chemical, petrochemical, and food industries. Maag develops, manufactures, and distributes innovative, customized solutions for complete pump and pelletizing systems – with the expertise based on its long-term industrial tradition since 1910.*

*Maag Automatik has been manufacturing innovative pelletizing systems, screen changers and melt filtrations of the highest quality for several decades. It is the world leader in underwater strand pelletizing systems. That leadership position is founded on state-of-the-art technology and on comprehensive know-how in all pelletizing techniques and pellet forms. The company's longstanding tradition in development, production and global sales and distribution is complemented by comprehensive advice and service backup.*

*The whole company employs more than 500 staff at its headquarters in Switzerland and its production sites and sales offices in Germany, France, Italy, Singapore, Taiwan, Malaysia, China, Brazil, and the USA and is represented in the markets with its brands "Maag Pump Systems" and "Automatik Pelletizing Systems". Maag, a Dover Corporation Company (NYSE:DOV), is a business unit of Dover Fluids.*