

LOHSE sand separators in use worldwide

For the Heidenheim-based LOHSE Group it is an important contract – and proof that the company is continuing its dynamic development of the past years: LOHSE is an important supplier for Dieffenbacher, a global player in mechanical engineering with headquarters in Eppingen, Germany. The company, with about 1600 employees worldwide, has an international reputation primarily for its machining presses, but has also been developing and producing recycling machines for several years. For this division LOHSE now supplies not only an extensive line of valves – Dieffenbacher also uses the LOHSE sand separator system in a project for delivery of an end-to-end system for processing of organic waste.

„For us the contract is an important signal that LOHSE is on the

right path”, explains Managing Director Ulrich Sekinger. Dieffenbacher will deliver the system to Sweden. “We are pleased that a well-known international mechanical engineering corporation has confidence in our products and our expertise”, Sekinger adds. According to Sekinger, the decisive factors for choosing the system manufactured in Heidenheim were the high level of automation, efficient waste processing and a high degree of separation. Because the sand separators filter out tiny inorganic particles from fluids. That is more important than ever, due to increasingly stringent legal requirements for the recycling process and the recycled materials.

The main advantage of hydrocyclones manufactured in Heidenheim: They filter out not only small matter, but also larger ele-



Use for the hydrocyclone: mixed organic household waste.

ments such as stones from the liquid suspension. That is why LOHSE systems are used in diverse applications: separation of sediment in sewage plants, separation of sand from waste water in chemical parks, treatment of leftover food, organic waste, grass silage and pre-processed household waste – and for the separation of sand particles from dried chicken manure.

Several years ago LOHSE built a sand separator for a major poultry company in the Philippines that filters about 100,000 tons of suspension with dried chicken manure per year. The hydrocyclone 200K, together with the dirt trap RSL 125/250, is designed for a capacity of about 60 cubic metres of material per hour. The project not only demonstrates the diversity of LOHSE technology, but also its global utilization. “Our portfolio is in demand in numerous countries around the world”, explains Managing Director Dietmar Warnke. This is because the sand separators manufactured in Heidenheim are equipped with outstanding filter and separation

capabilities, which constantly opens up new markets and possibilities. “We are altogether very diversified”, explains Sekinger.

A hydrocyclone in Aycliffe, England separates the impurities from nearly 120,000 tons of leftover food, supermarket waste and spoiled food per year. “Our sand separator filters about four tons of heavy materials per day”, says Sekinger, explaining the result of the treatment process. Currently LOHSE is delivering additional hydrocyclone systems to Bari, Italy and Altenrhein, Switzerland.

Another secret of the company’s success is the mobile hydrocyclone test system from LOHSE. “This allows us to quickly demonstrate the efficiency of our hydrocyclones and whether they are suitable for the area of application”, Warnke explains. Starting late March the hydrocyclone test system will separate sand from the waste water of a chemical park for the energy technology division of the Freudenberg Group. “This prevents the processing basin from filling up with sand. We are talking about processing of waste water at a rate of 500 m³/h”, explains Sekinger. Prior to that, the system will be in operation at KBS in Großenaspe, where the heavy material will be filtered from leftover food.

“In recent years we have developed an extensive component set that serves as the basis for development and installation of the



LOHSE hydrocyclone plant 200K.

systems”, Warnke emphasises. The Heidenheim-based engineers configure the system for the specific type of waste or suspension, taking this into consideration during installation of the backwash stages. LOHSE will also present its hydrocyclone in September at IFAT, the world’s leading trade fair for water, sewage, waste and raw materials management.



Processing plant in West Sussex.

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