



## Metal separators increase the productivity of injection-moulding machines

  
**SUZUKI**  
**MOTORCYCLES**  
**INDIA PVT. LTD.**  
**(India)**

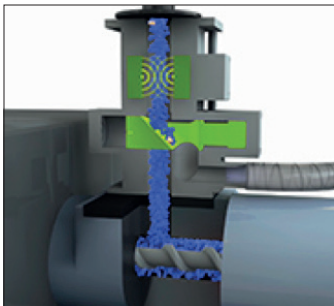
**Product:**  
PROTECTOR

### Metal-free granulate for SUZUKI motorcycle parts

SUZUKI MOTORCYCLES INDIA PVT. LTD. is a subsidiary of Suzuki Motor Corporation, Japan, and in the Indian town of Gurgaon (Haryana) operates a plant with 1.700 employees and an annual capacity of 750.000 motorcycles and scooters. The core of SUZUKI's philosophy always has been to provide bikes that are optimal in form and function. Their products are based on the effort to implement customer wishes and demands in development.

Quality inspection is of outstanding importance for SUZUKI all the components of a bike undergo thorough inspection and quality testing. To ensure that material and aesthetic demands of the product are met, individual

parts undergo performance testing before they are released for assembly. For efficient testing SUZUKI has installed state-of-the-art inspection and testing machinery, which includes metal separators of the Protector range of Sesotec.



The surfaces of plastic motorcycle parts can be perfectly painted because the Sesotec Protector metal separator removes metal contamination from the granulates.

Plastic parts for motorcycles are produced in injection-moulding machines and are then painted. For the production of plastic parts for these 1.500 vehicles per day. SUZUKI uses both new granulate and recycled material. The processing of recycled material and regrind, however, is complicated by contamination with metal particles. This may cause unwanted downtime of the expensive injection-moulding machines and Hot Runner Systems of the mould due to damage or clogging.

Using metal separators to remove metal particles is the most reliable method to prevent machine downtime and quality defects. The Protector metal separator is installed directly above the material inlet of an injection-moulding machine, extruder, or blow-moulding machine. It detects

all magnetic and non-magnetic metal contamination (steel, stainless steel, aluminium, ...) even if they are embedded in the product. Metal contamination is removed by the reject unit ("Quick-Valve").

At SUZUKI a height of only 350 millimetres was available for installing the metal separators on the injection-moulding machines. With its slim and sturdy design the Protector is a perfect fit. The high-temperature version the Protector ensures perfect processing of the 90°C to 110°C hot granulate. External interference is compensated by the Auto-learn function. Preset operating parameters ensure outstanding ease of operation.

Vipul Vikas, Project Manager at SUZUKI, is highly satisfied with the Sesotec Protector metal separators: "We were actively searching for a solution to solve the problem of metal contamination, and we found Sesotec through the manufacturer of our injection-moulding machines. Our Sesotec metal separators operate successfully, productivity has increased by five percent."

#### **Sesotec - an overview**

The Sesotec group is one of the leading manufacturers of machines and systems for contaminant detection and material sorting. Product sales primarily focus on the food, plastics, and recycling industries. Sesotec's global presence includes subsidiaries in Great Britain, Singapore, China, USA, France, Italy (2), India, Canada, Thailand, a representative office in Turkey, and more than 60 partners all over the world.

**[www.sesotec.com](http://www.sesotec.com)**