

Eddy current separator can remove aluminium particles from PET flakes

Goudsmit Magnetic Systems, Waalre, the Netherlands, has introduced a 1000mm eddy current separator which is suitable for removing aluminium contaminants from PET (polyethylene terephthalate) flakes. The device was developed in cooperation with a major French PET recycling company. Thanks to an extra strong, off-centre magnet rotor that achieves a high rotational frequency, the separator can ensure relatively high processing capacity while also removing small aluminium particles from the flow. Ferrous particles are thrown out in advance by a powerful magnetic drum.

Recycled PET flakes are small, flat pieces of plastic reduced to a particle size of less than 10mm. During the grinding process ferrous and aluminium contaminants (such as steel springs from spray bottles and aluminium caps from yoghurt pots) also get broken into smaller particles. The objective is to ensure that the flakes are entirely pure so that they can be transformed into PET pellets for reuse in the manufacture of plastic bottles and similar products. www.goudsmit-magnetics.nl



Goudsmit's recently developed eddy current separator is suitable for removing small aluminium particles from PET flakes