

Features

RECYCLING AND SCRAP RECLAIM AT NPE: Higher Output with Less Waste And Lower Maintenance

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Whether for commercial recycling or in-house scrap reclaim, new systems boast reduced maintenance, higher throughput, and less waste of resin for purging.

DEVELOPMENTS IN FILTRATION

MAS America will showcase its Continuous Disc Filtration (CDF) system. Available in four sizes, the CDF reportedly can be easily integrated into any extrusion line to continuously remove up to 5% of soft contaminants such as wood, paper, aluminum, rubber, and unmelted polymers.

Its automatic melt-pressure disc-control system increases disc-rotation speed as well as knife-scraper pressure to keep melt pressure stable, which has been shown to greatly increase extruder capacity. The discharge screw and the rotating disc work independently of each other on the CDF. This allows the CDF and screw to be set at different RPMs, resulting in minimal polymer loss and maximum contaminant discharge.

The CDF knife scrapers are set to a fixed point on the rotating disc, allowing the contaminants on the disc to be removed immediately as they are brought to the knife, not dragged across the filter screen by the knife as in other designs. This stationary knife design reportedly helps prevent the possibility of “cutting” or disintegration of the contaminant. The knife scraper is made of brass to prevent added wear to screen.