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News Release

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ADG Solutions New Continuous Melt Filtration System to Debut at K 2016

A new, proprietary melt-filtration system — developed by ADG Solutions for extrusion of processing reclaimed plastics materials that may have high levels of contamination — makes its plastics tradeshow debut at the K 2016 in Dusseldorf, Germany. Called the CFO, which stands for Continuous Filter Operation, is being displayed on the stand of COFIT International, Hall 9, Booth D24. Since February 2016, ADG Solutions, Fairfield, Connecticut, U.S.A., has been partnering with COFIT, the maker of the 'Gorilla Belt' screen changer, to bring reclaim and recycling technologies from both companies to customers in Europe and North America.

“The idea behind CFO is not brand new,” admits Sandy Guthrie, President, ADG Solutions, “but it better designed, better built and more easily maintained than any melt filter of its kind. “Thanks to suggestions from actual reclaim processors, we have been able to leap-frog existing technology. Our new CFO melt filter has oversized drive and gearbox, so it has the guts to handle the toughest applications. The beefy filter housing and bolt pattern prevents leakage, even at high operating pressures. The

UL-compliant control panel, which includes a PLC with touchscreen user interface, is mounted on a convenient swing arm. With all these advantages, and the fact it uses a minimal amount of good material to purge contaminants, the CFO is a highly cost effective system, providing a quick ROI. We're pleased to be partnering with COFIT to bring the CFO to the European market.”

In operation, resin enters the CFO filter unit directly from an extruder through a specially designed orifice that helps the material cover the complete screen at lower pressures. Then the melt is filtered through a stainless-steel screen plate that is micro-drilled and hard-faced for wear resistance. Filtered resin exits the system for pelletization, while contamination is retained on the screen plate. When waste builds up and back pressure reaches a preset level, a rotating blade sweeps the screen and removes the contamination through a discharge port.

The CFO handles a broad range of materials including PE, PP, PS, PC, and ABS, and can operate at temperatures up to 600°F and pressures up to 3,500 psi. The filter can handle up to 10% paper and hard objects like rocks, glass or small pieces of metal are tolerated. Three models are offered with screen diameters of 15, 20 and 25 inches allowing throughputs up to 2000, 3500 and 6000 lbs/hr, respectively.

The CFO runs in automatic mode controlled by a PLC that directs all of the functions. The rotating blade that wipes the screen plate clean can be actuated manually by pushing a button, or triggered

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automatically based on a timer or a pressure reading. The filter screen can last one to two weeks, depending on materials processed and the percentage of contamination – typically 2000 – 3000 wipes.

Purging of contaminated material requires, on average, less than 1 pound per purge... a significant savings compared to conventional screen changes. The unit can also operate in a continuous-wiping mode when extremely contaminated material is being processed. In this mode, material lost in purging amounts to less than 0.4% of overall throughput.

From scrap to pellet, ADG Solutions helps companies process hard-to-recycle plastic waste from industrial, commercial and post-consumer sources. In business for over 10 years, the company engineers custom systems including washing, size-reduction, densifying, extrusion, filtration, pelletizing and material-handling equipment.

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This new CFO continuous melt filter from ADG Solutions is the first such unit to be made in the U.S.A.