



ADGS Europe

Melt Filtration Screen Changer



Continuous Melt Filtration System

The new CFO continuous melt-filtration system from ADGS Europe makes possible uninterrupted extrusion, even when processing highly contaminated materials. Unlike conventional screen changers, which require extensive and constant operator attention, the CFO – which stands for Continuous Filter Operation – can operate automatically. The CFO is the most cost effective system available, delivering a quick return on investment.

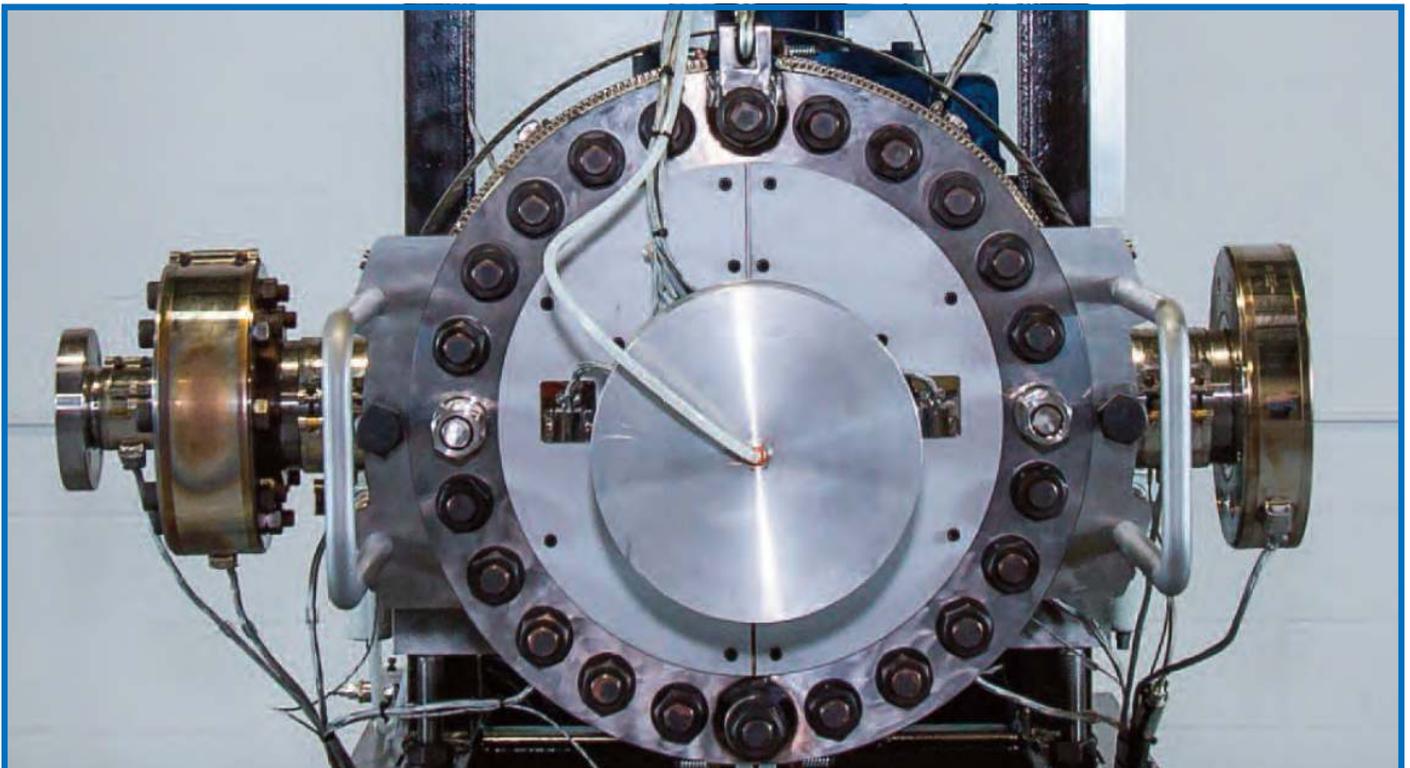
HOW IT WORKS

As extruded material enters the unit, it passes through a stainless-steel screen plate that is micro drilled and hard faced, while contaminants are caught on the screen-plate surface. When waste builds up and back pressure reaches a preset level, a rotating blade sweeps the screen, collects the contamination in the wiper chamber and then discharges it through a port. The CFO handles a broad range of materials including PE, PP, PS, PC, and ABS, and can operate at temperatures up to 300°C and pressures up to 240 bar.

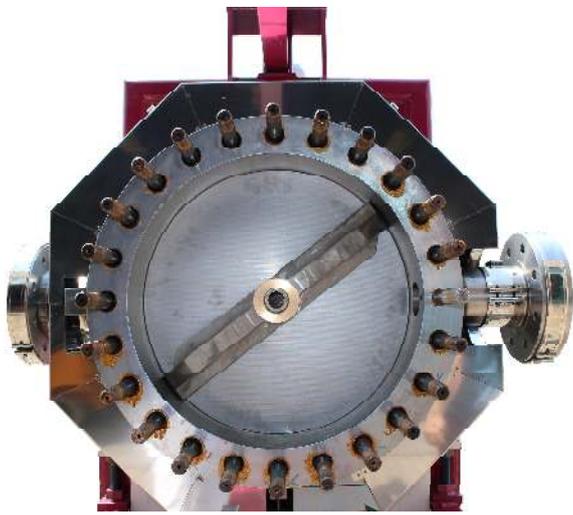
The filter can handle up to 10% paper and other foreign objects up to 20 mm in diameter.

Contaminants such as metal, wood, paper, textile fibers, unmelted plastic granules, and low percentages of aluminum, lead, copper, rocks and other impurities are readily tolerated.

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 automatically based on a timer or backpressure transducer. The filter screen can last one to two weeks, depending on materials processed and the percentage of contamination – typically 1000 – 3000 wipes.



Rugged design of the CFO housing stands up to high processing pressures.



Extrudate passes through filter leaving contamination behind to be cleared away by sweeper blade.

CFO Advantages

- Thermal insulation for energy saving
- Unimpeded flow through large passages
- Tolerates up to 10% of paper/labels or cardboard
- Can handle contaminants up to 20 mm diameter
- Minimal discharge of good material with contaminants

Low operating costs

- Wear parts readily available and easily replaced
- 30 minutes for screen replacing
- High efficiency insulation for energy saving

CFO MODELS

Model	Diameter [mm]	kg/hour
CFO 500	500	500 - 1500
CFO 635	635	1300 - 3000

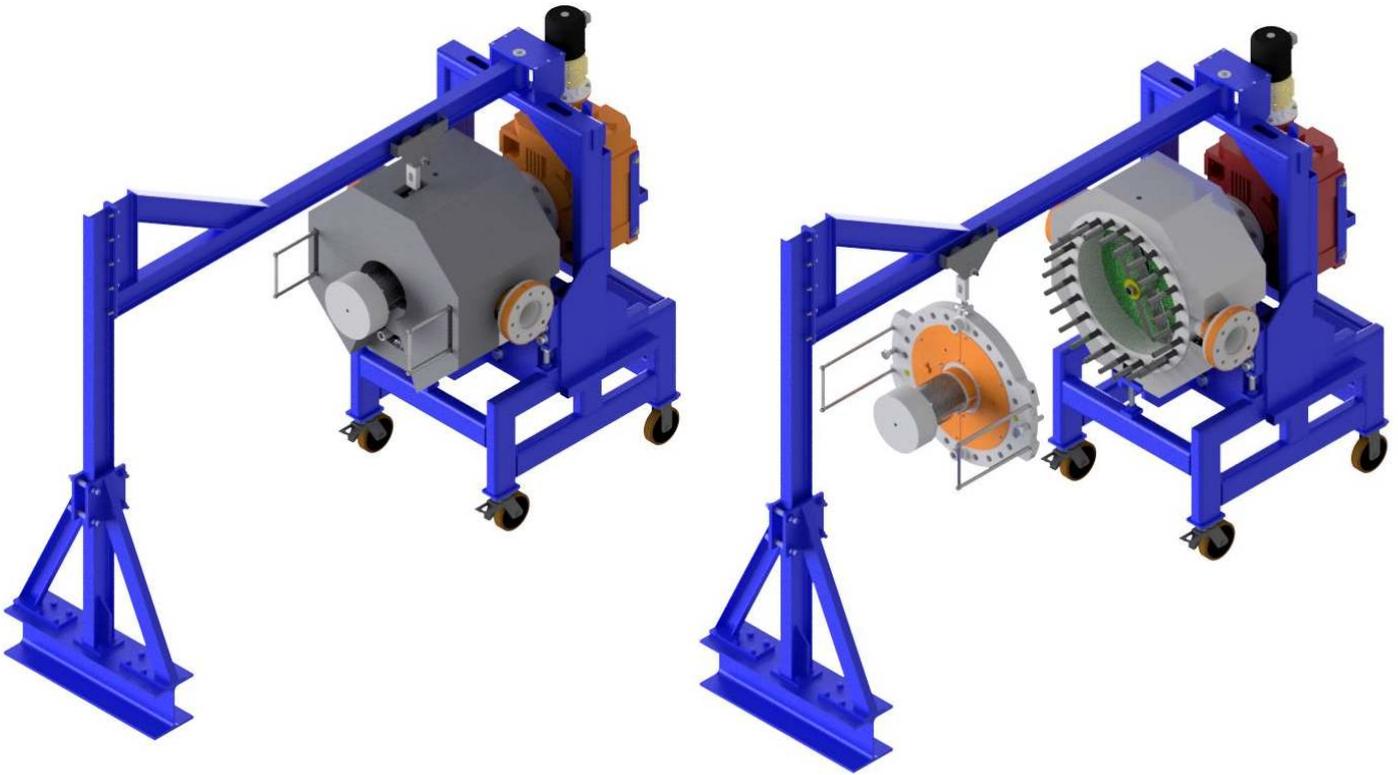
Purging of contaminated material requires, on average, less than 0,5 kg per purge... a significant savings compared to conventional screen changes. The unit can also operate in a continuous-wiping mode when extremely contaminated material is being processed. In this mode, material lost in purging amounts to only 0.2% to 0.5% of overall throughput.

CONTROLS AND GENERAL INFORMATION

- The CFO comes with its own UL or CE - compliant control panel.
- PLC and touch screen Siemens
- Six heat zones
- Upstream and downstream adapters, included
- Easy to install and operate
- Single power drop
- Service based in Europe
- Spare parts, screens and blades stocked in France



Quick and easy opening



WHO WE ARE

We proudly offer in Europe the 40 year experience of our partner ADG Solutions, based in the USA in Tucker, Georgia. The CFO filter has been successfully installed at polymer recyclers in North and South America.

We are committed to continue this huge knowledge into the European Community and make it our biggest success. This is the birth of ADGS Europe.

We have converted all the American standards into the metric system to facilitate our European customers. All electrical and control components as well as safety protection are manufactured in Europe in complete compliance with EU standards to CE specifications (Directives and Norms).

Spare parts and service is based in Europe for quick and economical service.



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