

# FIMIC<sup>®</sup>

ITALIAN.MELT.FILTER

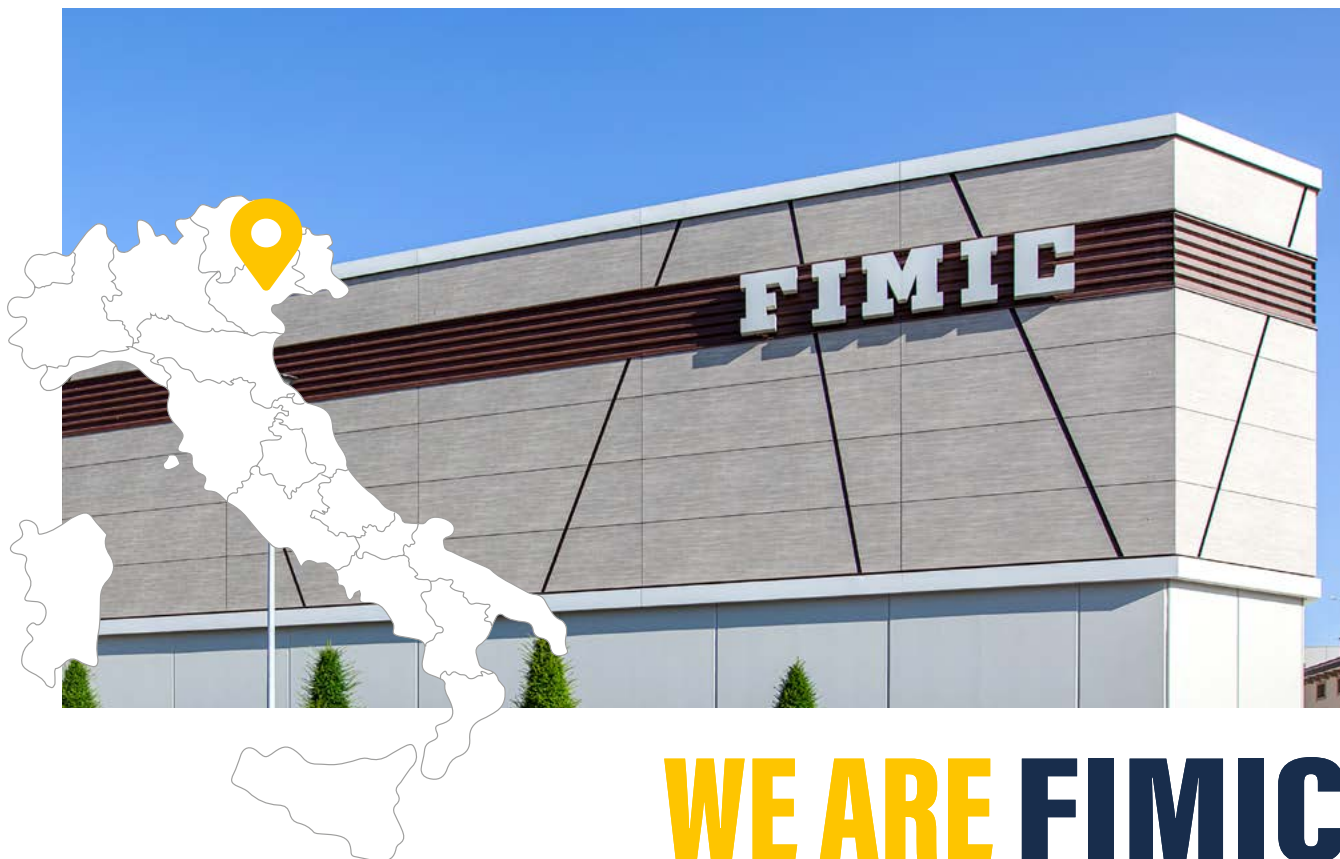
## SPA

SCREW PUMP



READ IT  
IN YOUR  
LANGUAGE





We started 60 years ago manufacturing customized guillotines for cutting industrial waste bales and rolls, but it was in 1996, when we improved the melt filtration technologies available at the time, with the first FIMIC backflush filter entering into service, followed the year after by the "scraping" system, that we started to make history in the plastics recycling industry.

For more than 25 years we have been known as the specialists in automatic self-cleaning melt filters and we continue designing, manufacturing and assembling internally, in our own premises, machineries that guarantee high results and a supreme quality in any end application.

Our continuous research for innovation and our passion for improvement, keep us constantly growing and developing innovative technologies and tailored solutions in an increasingly demanding market.





**A REVOLUTIONARY  
APPLICATION  
WITH AN INNOVATIVE  
TECHNOLOGY  
TO IMPROVE  
PLASTICS RECYCLING**

# SPA

SPA is a revolutionary machine: a screw pump that allows to easily transport plastic melt from the extruder to the filter without using gears, it works with a single screw and requires very low maintenance. It's the ideal solution for those seeking to achieve the highest possible quality of the recycling process, significantly lowering maintenance & operational costs.

## THE SECRET IN A SCREW

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Regular gear pumps used in plastics recycling are very sensitive to contaminations, getting damaged very easily by contaminants especially in post-consumer applications. Because of this, constant maintenance is required and often, it is also needed to install a safety filter to protect the gear pump itself, with significant increase in investment, manpower, and maintenance costs. Additionally, gears must be periodically replaced by the operator, a further downtime leading to operation losses.

FIMIC's SPA screw pump allows considerable savings, because operational costs are reduced to a very minimum. In fact, there is no need for maintenance, nor to install a safety filter for pump protection, nor expensive spare gears that the operator will no longer be forced to replace.

## SIMPLE TO USE, GREAT IN RESULTS

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SPA's operational simplicity is just maximum. Regular gear pumps are complex to operate, while the SPA is easy to use and does not require periodic replacements by the operators. It can be installed either before and after the filter, being perfect for applications requiring a double filtration step.



**BEFORE**

It allows to protect the twin-screw extruder used especially in compounding applications.

**FILTER**



**AFTER**

It allows to stabilize the pressure of the material and to maximize the productivity of the filter and the extruder itself.

SPA combines both FIMIC's typical high engineering standards and the highest quality of manufacturing materials, to offer a superior, reliable and high-performance product.

SPA's innovative operation guarantees to all players in the recycling industry significant savings in operational costs, as well as an excellent final result.

# ADVANTAGES



Significant savings even in the short term



Longer lifetime of wear parts



Optimization of extrusion performance



Ease of operation



Extremely low maintenance requirements

## WHY SPA?

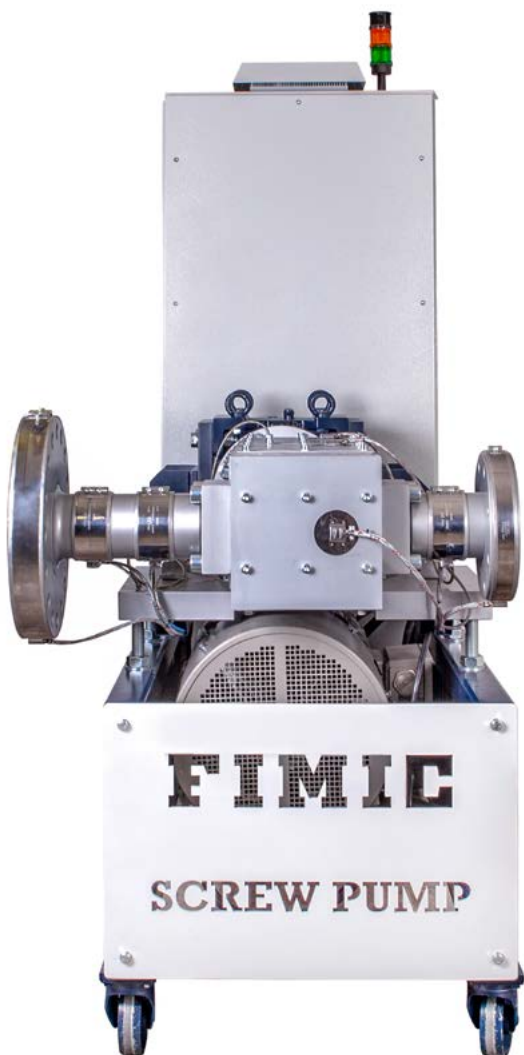
Three letters to describe our latest creation, destined to change the working process of those who recycle plastics.

SPA is the acronym for Screw Pump Antonio, from the name of Antonio Canaia, who more than twenty years ago created the first automatic self-cleaning melt filter, a revolutionary idea at the time, that started the flow of great FIMIC innovations. Important challenges that bear our signature of excellence, constantly with a view to improving both quality and efficiency of plastics recycling, interpreting the demands of the current market.

FIND OUT WHY  
**SPA** IS UNIQUE...







## BEFORE / AFTER THE FILTER MAXIMUM SIMPLICITY SCREW OPERATED

A screw pump that allows to easily transport plastic melt from the extruder to the filter without using gears.

### TECHNICAL INFORMATION

(may vary depending on MFI)

	SPA 140	SPA 160	SPA 190
Dimension (mm)	1500 x 2800 x 2450	1500 x 3100 x 2800	1500 x 3100 x 2800
Weight	3000 kg	4000 kg	4200 kg
RPM	180 rpm	180 rpm	180 rpm
Outlet Pressure	up to ~ 200 bar	up to ~ 200 bar	up to ~ 200 bar
Total installed power	~ 65 kW	~ 75 kW	~ 110 kW

### SCREW PUMP





# RAS

**AUTOMATIC  
SCRAPING  
NO OPERATOR'S INTERVENTION**



# RAS+REF

**AUTOMATIC  
FLEXIBLE  
SCRAPING OR BACKFLUSHING**



# ERA

**AUTOMATIC  
SCRAPING  
TWO DIFFERENT FILTRATIONS**



# TEN

**AUTOMATIC  
CONTINUOUS BELT FILTER  
FOR LOW CONTAMINATION  
LEVELS**



# GEM

**THE LARGEST FILTRATION  
SURFACE ONLY ONE FILTER  
FOR HIGH OUTPUT  
REQUIREMENTS**



# GUILLO TINES

**STRONG  
SAFE  
HIGHLY CUSTOMIZED**



**FIMIC®**  
ITALIAN MELT FILTER

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