

FIMIC®

WHERE CIRCULARITY WORKS



**MELT
FILTERS**



GUILLOTINES



**MELT
PUMPS**



**High-performance
Recycling
Systems**

Scan and
read it
in your
language

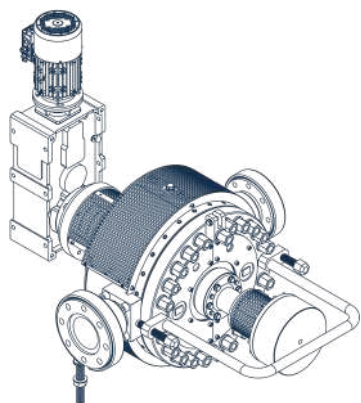


WE ARE FIMIC

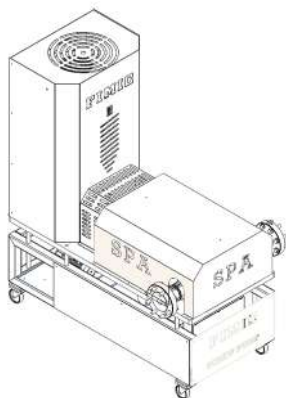
WE SUPPORT PLASTICS RECYCLING FOR A BETTER FUTURE

FIMIC entered the recycling industry in 1963 through the manufacture of guillotines for cutting industrial waste bales and rolls. Then, in 1996, we decided to improve the filtration method available at the time, which was fully done by hand, with the first FIMIC backflush. One year later, the "continuous scraping" system came additionally into play.

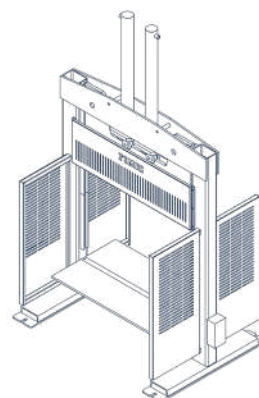
Today we showcase a long-term experience in the mechanical manufacturing, applied through the years also to the rubber, plastics and paper industries. Being all FIMIC products entirely designed, manufactured and assembled internally in our facilities we are the only company in the market with 6 different models of automatic melt filters, customized guillotines and melt pumps.



MELT FILTERS



MELT PUMPS



GUILLOTINES



OUR PLASTICS RECYCLING TECHNOLOGIES

**SIMPLE AND EASY-TO-USE MACHINES TO OBTAIN HIGH-QUALITY RESULTS
REDUCING DOWNTIMES AND OPTIMIZING RESOURCES**

FIMIC components utilize advanced technology to offer efficient filtration during the plastic recycling process. They help ensure that the final product is of the highest quality by removing any unwanted materials that might affect the properties of the recycled plastic.

HIGH-QUALITY SCREENS

We offer both punched and laser screens tailored to customer needs, designed to handle high contamination levels (such as from paper, cardboard, metals, or sand) while efficiently removing contaminants like metal staples, glass particles, or soil—without interrupting production. Thanks to reduced screen replacement times, downtime is minimal, requiring only 30 minutes with one operator.

FIMIC laser screens are reusable up to normally 3-5 times, resulting in fewer repairs and lower spare parts costs, ultimately reducing overall operational expenses.

	LASER SCREENS	PUNCHED SCREENS
FILTRATION DATA	<400µm (>40 mesh)	>400µm (<40 mesh)
FILTRATION MICRON	60-70-80-100- 120-150- 200-250-300	400-500-600-800-1000- 1500-2000
FILTRATION MESH	230-200-180-140-125- 100-72-60-50	40-35-30-22-18

FULLY AUTOMATIC SCRAPER SYSTEM

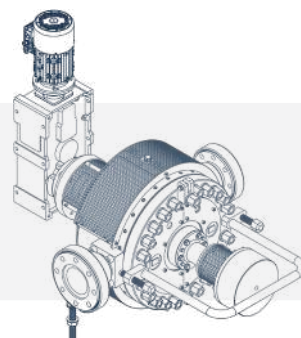
FIMIC scrapers are engineered to remove contaminants and undesired particles from plastic materials. Rotating and collecting the contamination from the surface inside the scraper to enhance the filtration efficiency by ensuring that even the smallest contaminants are removed from the melt stream, guaranteeing a purified material to be suitable for reuse or further processing in high-end final applications.



OUR PRODUCTS

FROM FILTRATION TO PRESSURE CONTROL, TECHNOLOGIES DESIGNED AROUND YOUR RECYCLING PROCESS.

MELT FILTERS



RAS



FCS



RPS

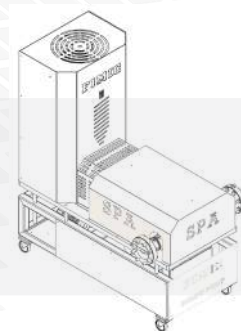


ERA



GEM

MELT PUMPS



SPA

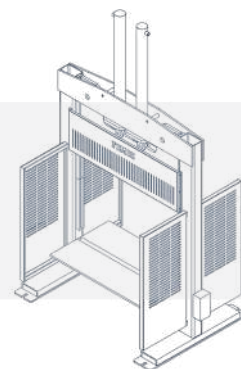


FPP



RMP

GUILLOTINES



RAS

EXAMPLES OF INSTALLATIONS

FIMIC's melt filter can be assembled on any extruder type and configuration.



EXAMPLES OF FILTRATION

Unwashed packaging LDPE / LLDPE films - 150 microns



INLET



CONTAMINATION



OUTLET

Unwashed post-consumer HDPE regrinds - 150 microns



INLET



CONTAMINATION

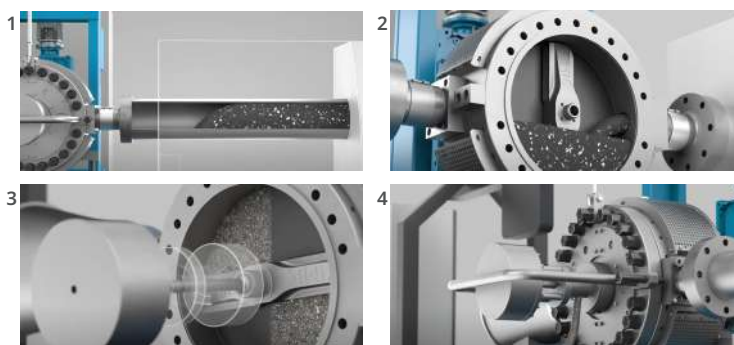


OUTLET

RAS

**THE SIMPLEST AND MOST EFFICIENT MELT FILTER.
A SINGLE SCRAPER CAPABLE OF HANDLING A WIDE
RANGE OF CONTAMINATIONS.**

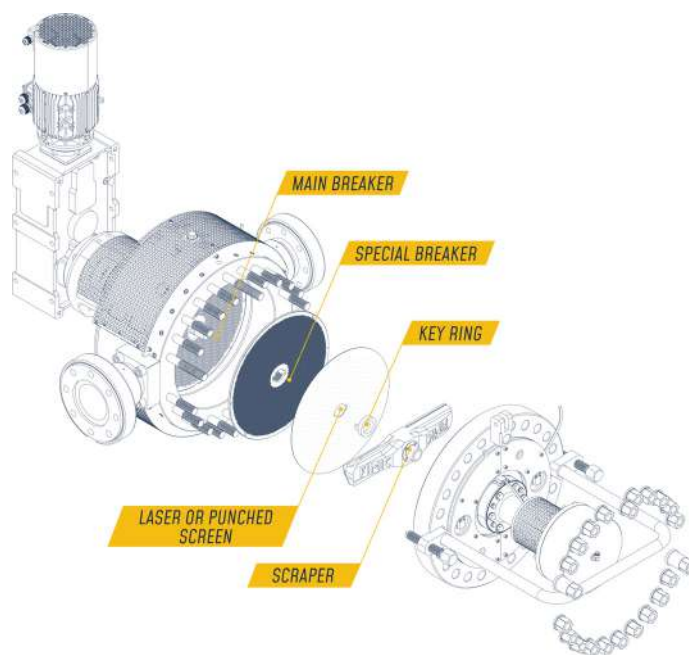
Two scraper blades continuously lift & collect the contamination from the screen into the scraper itself, while automatically discharging it via the frontal valve.



Watch how
RAS works

TECHNICAL INFORMATION

	DIAMETER (mm)	FILTERING SURFACE (cm ²)
RAS 325	Ø325 mm	779 cm ²
RAS 400	Ø400 mm	1.206 cm ²
RAS 500	Ø500 mm	1.912 cm ²
RAS 600	Ø600 mm	2.776 cm ²
RAS 700	Ø700 mm	3.796 cm ²
RAS 800	Ø800 mm	4.945 cm ²



AVAILABLE FILTRATIONS



MICRON LASER: 60 - 70 - 80 - 100 - 120 - 150 - 200 - 250 - 300
MESH LASER: 230 - 200 - 180 - 140 - 120 - 100 - 80 - 60 - 50



MICRON PUNCHED: 400 - 500 - 600 - 800 - 1000 - 1500 - 2000
MESH PUNCHED: 40 - 35 - 30 - 20 - 18 - 14 - 10



EXAMPLES OF INSTALLATIONS

FIMIC's melt filter can be assembled on any extruder type and configuration.



EXAMPLES OF FILTRATION

Washed post-consumer HDPE regrinds - 150 microns



INLET



CONTAMINATION



OUTLET

Unwashed post-consumer PP agglomerates - 200 microns



INLET



CONTAMINATION

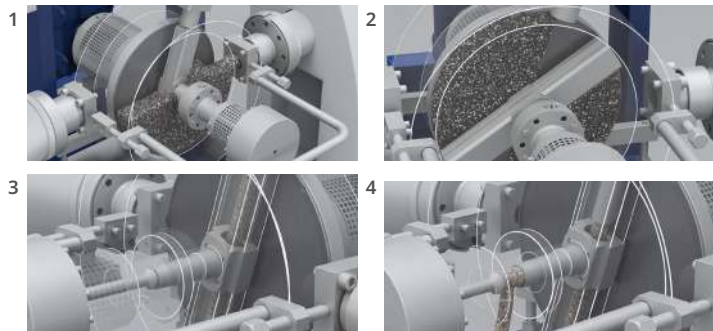


OUTLET

FCS

A MECHANICAL, ACTIVE CLEANING OF THE SCRAPER CHANNELS, REMOVING ANY RESIDUE WITHIN SECONDS.

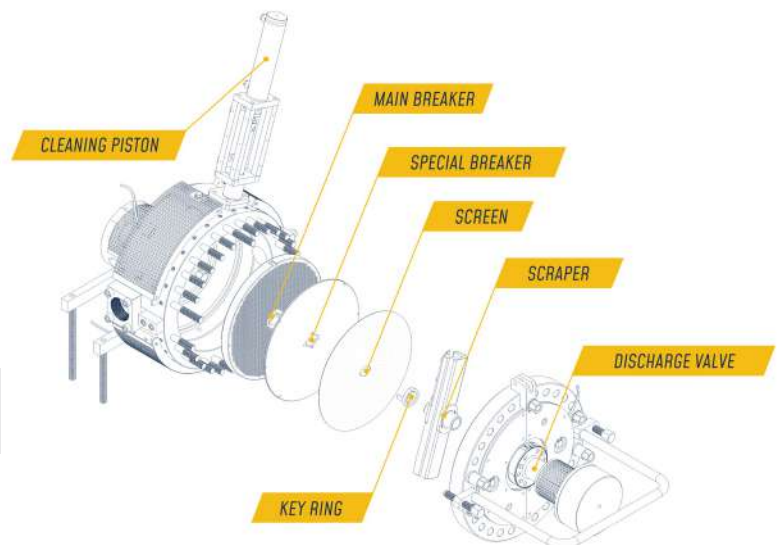
Dedicated to hard-to-remove, sticky contaminations, FCS mechanically cleans the scraper channels, removing all impurities collected by it and actively discharging them via the frontal valve, optimizing the screen's cleanliness and extending its lifespan before the next replacement.



Watch how
FCS works

TECHNICAL INFORMATION

	DIAMETER (mm)	FILTERING SURFACE (cm ²)
FCS 400	Ø400 mm	1.188 cm ²
FCS 500	Ø500 mm	1.894 cm ²
FCS 600	Ø600 mm	2.758cm ²
FCS 700	Ø700 mm	3.778 cm ²



AVAILABLE FILTRATIONS



MICRON LASER: 60 - 70 - 80 - 100 - 120 - 150 - 200 - 250 - 300

MESH LASER: 230 - 200 - 180 - 140 - 120 - 100 - 80 - 60 - 50



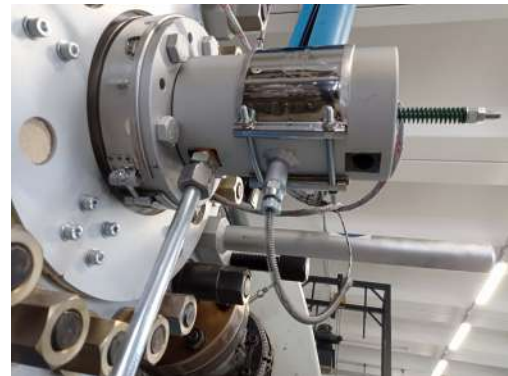
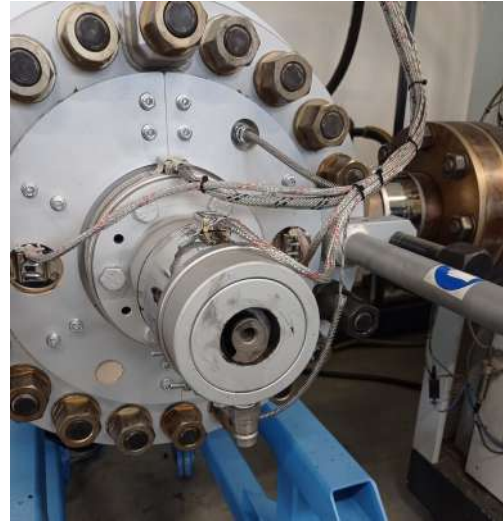
MICRON PUNCHED: 400 - 500 - 600 - 800 - 1000 - 1500 - 2000

MESH PUNCHED: 40 - 35 - 30 - 20 - 18 - 14 - 10



EXAMPLES OF INSTALLATIONS

FIMIC's melt filter can be assembled on any extruder type and configuration.



EXAMPLES OF FILTRATION

Washed post-consumer PP regrinds - 150 microns



INLET



CONTAMINATION

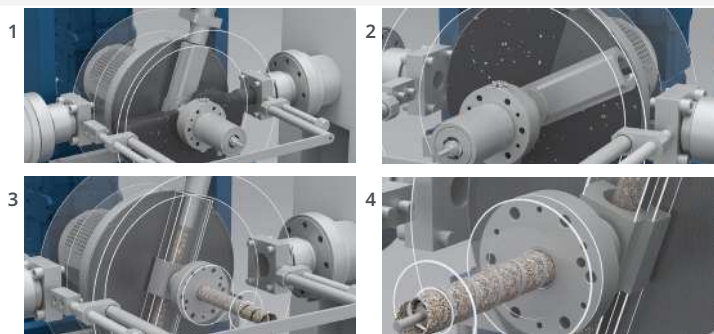


OUTLET

RPS

**THE MELT FILTER DEDICATED TO MAINTAINING
CONSTANT STABLE PRESSURE WITH CONTINUOUS
DISCHARGE THROUGH AN INNOVATIVE SCREW SYSTEM.**

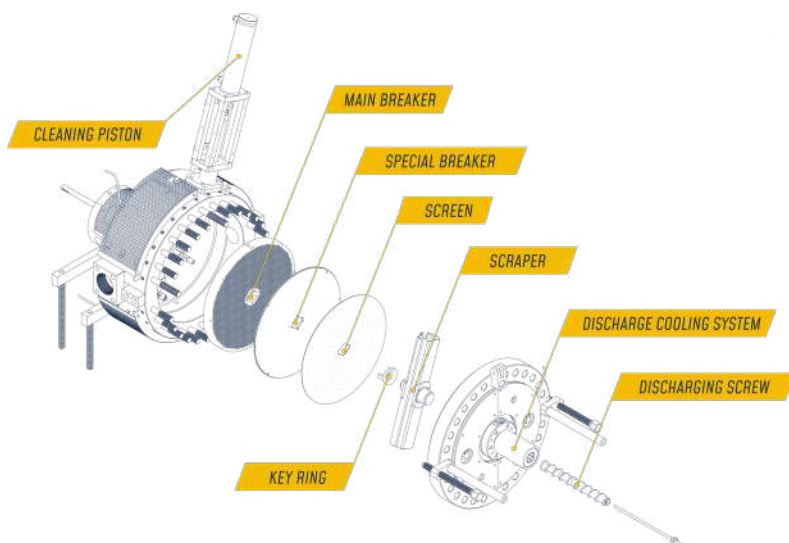
Discharging the collected contamination via a continuous, speed-adjustable screw, allows to maintain a constant output pressure, while a forced feeding cylinder optimizes the scraper's cleaning, leaving no residues. The ideal solution for production lines or installations with strand pelletizer.



Watch how
RPS works

TECHNICAL INFORMATION

	DIAMETER (mm)	FILTERING SURFACE (cm ²)
RPS 400	Ø400 mm	1.188 cm ²
RPS 500	Ø500 mm	1.894 cm ²
RPS 600	Ø600 mm	2.758cm ²
RPS 700	Ø700 mm	3.778 cm ²



AVAILABLE FILTRATIONS



MICRON LASER: 60 - 70 - 80 - 100 - 120 - 150 - 200 - 250 - 300
MESH LASER: 230 - 200 - 180 - 140 - 120 - 100 - 80 - 60 - 50



MICRON PUNCHED: 400 - 500 - 600 - 800 - 1000 - 1500 - 2000
MESH PUNCHED: 40 - 35 - 30 - 20 - 18 - 14 - 10



EXAMPLES OF INSTALLATIONS

FIMIC's melt filter can be assembled on any extruder type and configuration.



EXAMPLES OF FILTRATION

Washed post-consumer PP regrinds - 120 microns



INLET



CONTAMINATION



OUTLET

Unwashed post-industrial PS regrinds - 200 microns



INLET



CONTAMINATION

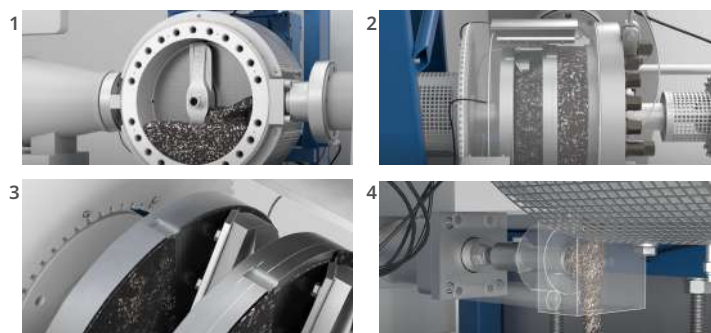


OUTLET

ERA

THE PERFECT FILTER FOR THE PUREST FILTRATION QUALITY, THANKS TO TWO SUBSEQUENT FILTRATIONS.

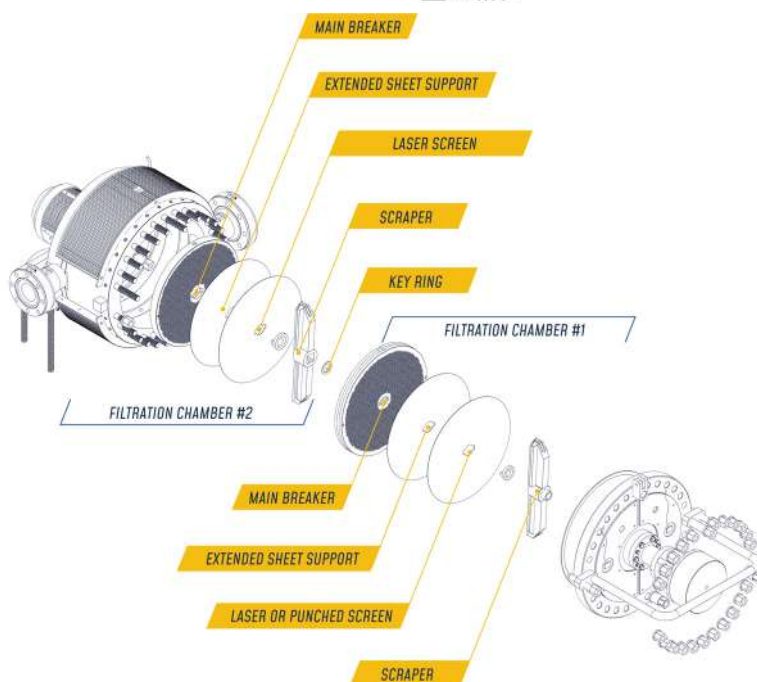
In case of very high or abrasive contaminations, ERA performs two filtration steps in series within the same machine. A punched screen serves as a pre-filter to protect a more expensive laser screen, which is used for finer filtration. Or, alternatively, a double laser filtration helps to improve gels reduction.



Watch how
ERA works

TECHNICAL INFORMATION

	DIAMETER (mm)	FILTERING SURFACE (cm ²)
ERA 500	Ø500 mm	1.912 cm ² (x2)
ERA 600	Ø600 mm	2.776 cm ² (x2)
ERA 700	Ø700 mm	3.796 cm ² (x2)



AVAILABLE FILTRATIONS



MICRON LASER: 60 - 70 - 80 - 100 - 120 - 150 - 200 - 250 - 300



MESH LASER: 230 - 200 - 180 - 140 - 120 - 100 - 80 - 60 - 50



MICRON PUNCHED: 400 - 500 - 600 - 800 - 1000 - 1500 - 2000



MESH PUNCHED: 40 - 35 - 30 - 20 - 18 - 14 - 10



PUNCHED



LASER



LASER



LASER



EXAMPLES OF INSTALLATIONS

FIMIC's melt filter can be assembled on any extruder type and configuration.



EXAMPLES OF FILTRATION

Washed post-consumer household LDPE / LLDPE films - 120 microns



INLET



CONTAMINATION



OUTLET

Pre-sorted post-consumer HiPS regrinds - 100 microns



INLET



CONTAMINATION

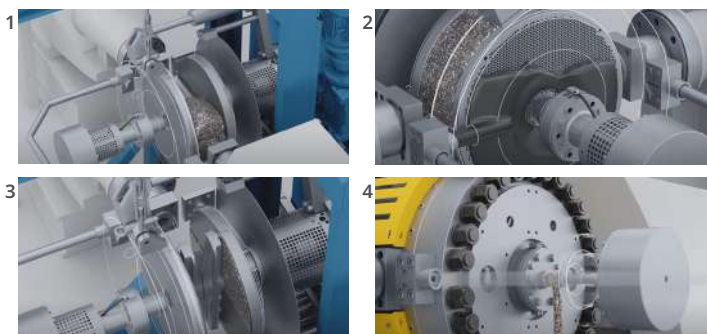


OUTLET

GEM

A ONE-OF-A-KIND MELT FILTER FOR HIGH-THROUGHPUT NEEDS. THE LARGEST FILTRATION AREA ON ONLY TWO SCREENS, IN PARALLEL.

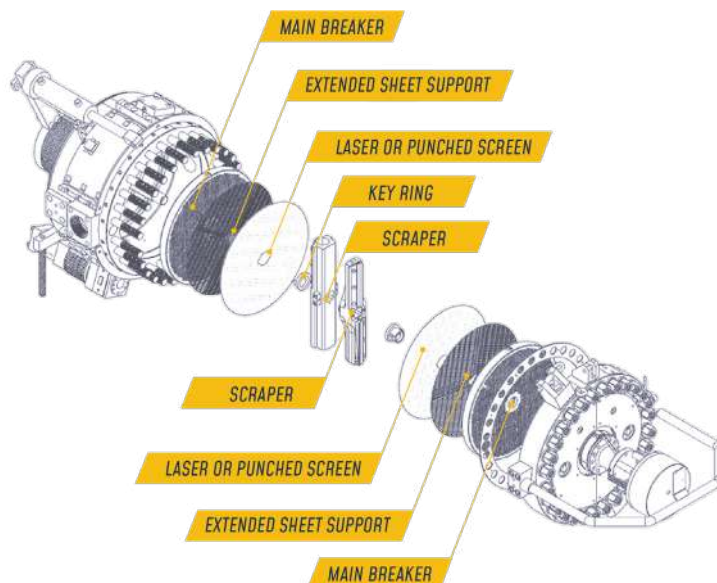
GEM uses two identical screens working in parallel allowing to reach, in only one machine, a filtration surface of up to 7.592 square centimeters, the largest filtration surface area in the market, on only two screens.



Watch how
GEM works

TECHNICAL INFORMATION

	DIAMETER (mm)	FILTERING SURFACE (cm ²)
GEM 600	Ø600 mm	5.552 cm ²
GEM 700	Ø700 mm	7.592 cm ²



AVAILABLE FILTRATIONS



MICRON LASER: 60 - 70 - 80 - 100 - 120 - 150 - 200 - 250 - 300
MESH LASER: 230 - 200 - 180 - 140 - 120 - 100 - 80 - 60 - 50



MICRON PUNCHED: 400 - 500 - 600 - 800 - 1000 - 1500 - 2000
MESH PUNCHED: 40 - 35 - 30 - 20 - 18 - 14 - 10



PUNCHED



LASER

SPA

EXAMPLES OF INSTALLATIONS

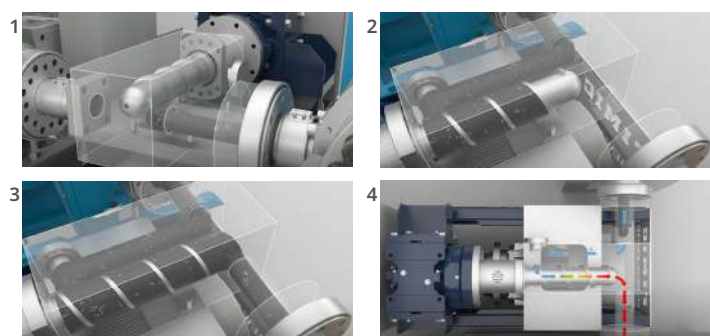
FIMIC's screw pump can be assembled on any extruder type and configuration.



SPA

A REVOLUTIONARY SINGLE-SCREW PUMP FOR HIGHLY CONTAMINATED POST-CONSUMER APPLICATIONS.

Normally installed before the melt filter, SPA is specifically designed for highly contaminated post-consumer applications, transporting the melt and regulating its pressure to the next step. Thanks to its single-screw technology, it handles contaminated melt directly, without any protection filter required upstream.

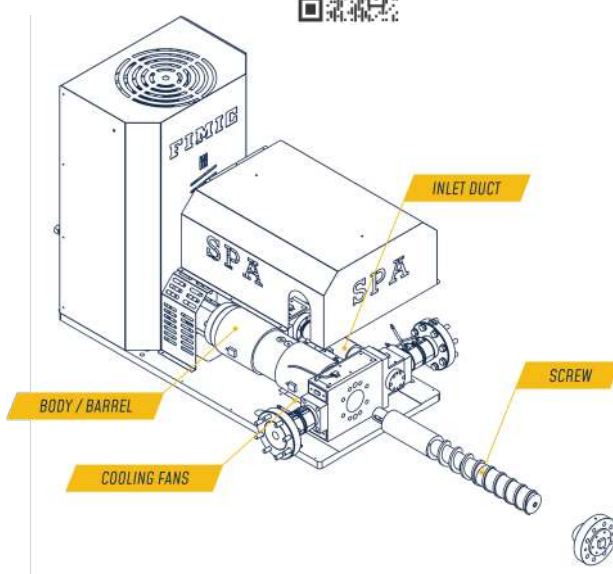


Watch how SPA works

TECHNICAL INFORMATION

(may vary depending on MFI)

	SCREW DIAMETER (mm)	OUTLET PRESSURE	TOTAL INSTALLED POWER
SPA 140	Ø140 mm	up to ~ 200 bar	~ 65 kW
SPA 190	Ø190 mm	up to ~ 200 bar	~ 110 kW



POSSIBLE CONFIGURATIONS

SPA can be installed either before or after the filter, being perfect also for applications requiring a double filtration step.

BEFORE THE FILTER



Maximize the output performance of the twin-screw extruder while using PCR-Plastics in compounding applications.

AFTER THE FILTER

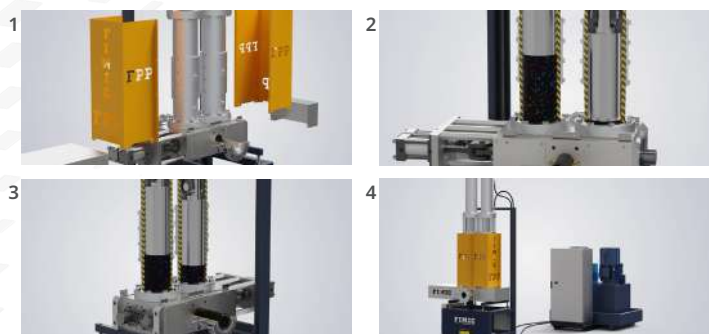


Stabilize & regulate the melt pressure in double filtration applications, while maximizing the productivity of the filter and the extruder itself.

FPP

PISTON-DRIVEN PRESSURE STABILIZATION, DIRECTLY ON CONTAMINATED MELT.

Designed to operate upstream of the melt filter, FPP controls melt pressure and flow even when processing highly contaminated post-consumer materials. Its gearless piston technology delivers stable and controlled melt flow even at high throughputs while handling the melt directly, with no pre-filtration or protection filter required.

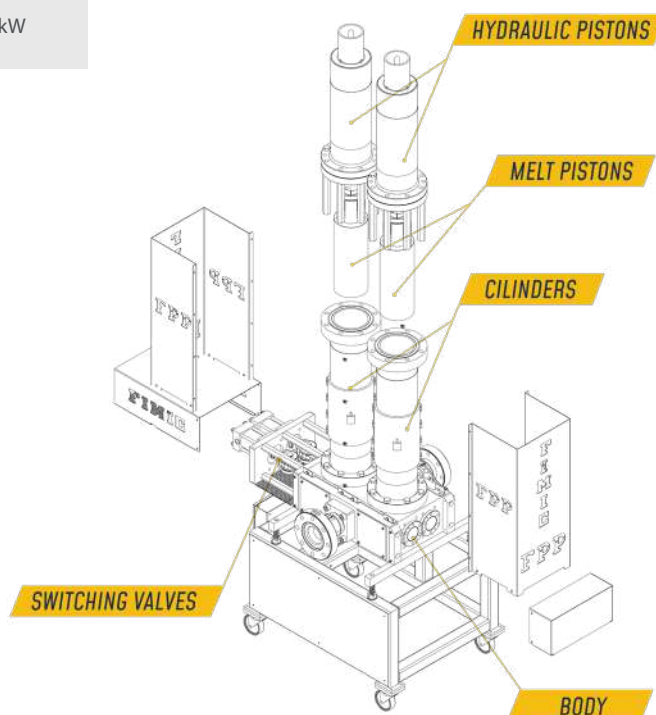
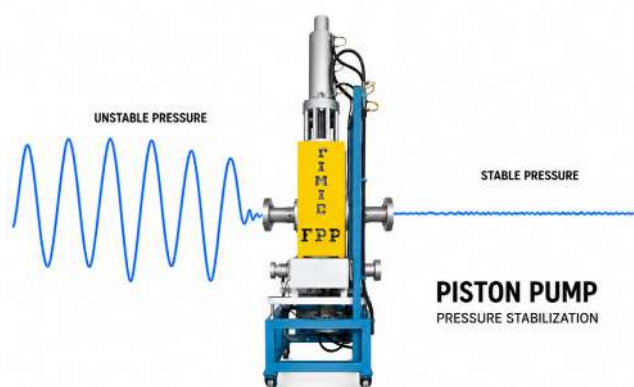


Watch how FPP works

TECHNICAL INFORMATION

(may vary depending on MFI)

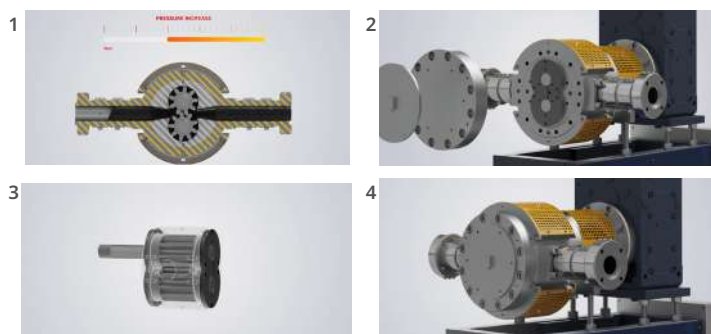
	PISTONS DIAMETER	OUTLET PRESSURE	TOTAL INSTALLED POWER
FPP 20	Ø200 mm	up to ~ 200 bar	~ 70 kW
FPP 25	Ø250 mm	up to ~ 200 bar	~ 80 kW



RMP

GEAR-DRIVEN PUMP FOR PRECISE AND CONSTANT MELT FLOW CONTROL.

Designed for post-consumer applications with pre-filtered melt streams, RMP stabilizes or increases the melt pressure to the next step, ensuring uniform output, reduced pulsations and optimal feeding conditions for downstream processes. Its innovative modular replacement unit minimizes downtimes and significantly simplifies maintenance.

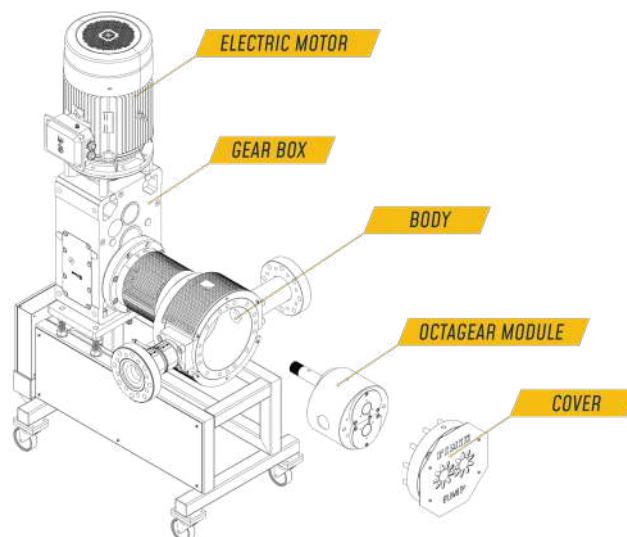
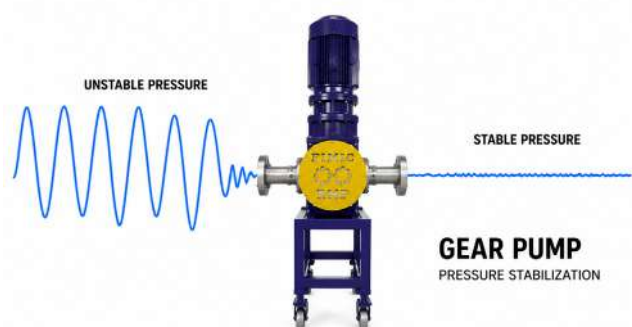


Watch how
RMP works

TECHNICAL INFORMATION

(may vary depending on MFI)

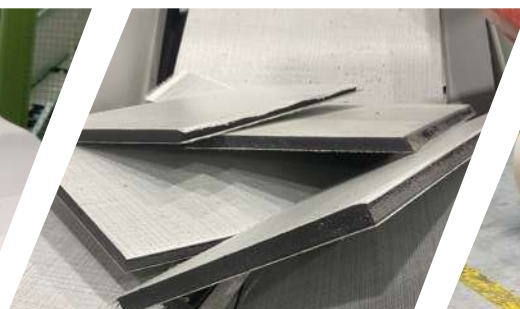
	DIMENSION	SIZE	OUTLET PRESSURE	TOTAL INSTALLED POWER
RMP 350S	Ø350 mm	Small	up to ~ 200 bar	~ 50 kW
RMP 350L	Ø350 mm	Large	up to ~ 200 bar	~ 65 kW
RMP 550 S	Ø550 mm	Small	up to ~ 200 bar	~ 80 kW
RMP 550L	Ø550 mm	Large	up to ~ 200 bar	~ 100 kW



GUILLOTINES

EXAMPLES OF INSTALLATIONS

Every guillotine we manufacture is a unique piece of machinery, specifically tailored to its required task and customer's needs, to achieve just the perfect result.

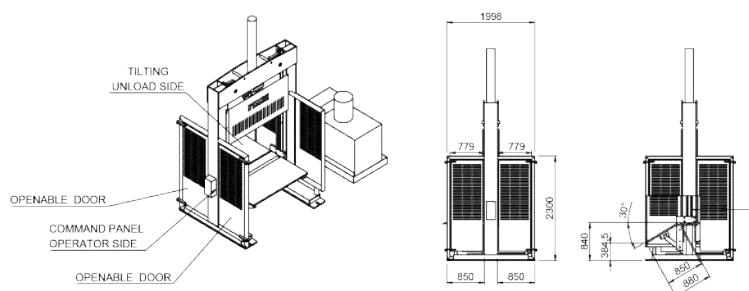
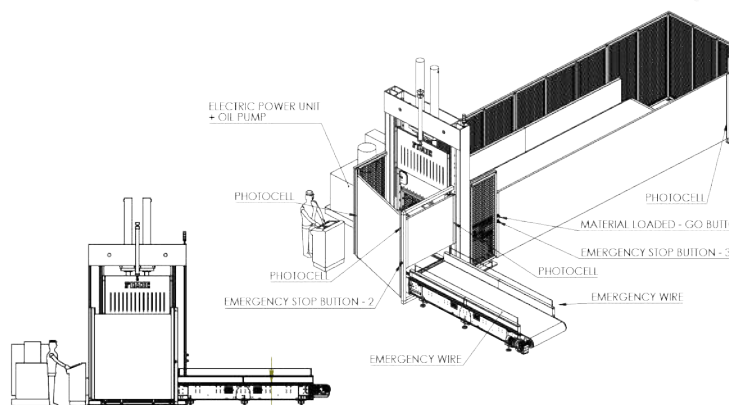


**FULLY CUSTOMIZED, STATE-OF-THE ART, HEAVY DUTY
APPLICABLE TO PAPER, RUBBER AND PLASTIC WASTE.**

If you need it, we can build it! We know that every project is unique, therefore our guillotines can be highly customized allowing you to create your project and have the solution that you need. Let's design your FIMIC guillotine together!



	ECO 30	ECO 60
Cutting Power	30 ton	60 ton
Cutting Dimension	1.300 x 1.200 mm 1.600 x 1.200 mm 1.600 x 1.600 mm 2.000 x 1.200 mm 2.000 x 1.600 mm	2.000 x 1.200 mm 2.000 x 1.600 mm 2.600 x 1.200 mm 2.600 x 1.600 mm



	C 60	C 100	C 120
Cutting Power	60 ton	100 ton	120 ton
Cutting Dimension	1.600 x 1.200 mm 1.600 x 1.600 mm 2.000 x 1.200 mm	1.600 x 1.200 mm 2.000 x 1.200 mm 2.600 x 1.200 mm 1.600 x 1.600 mm 2.000 x 1.600 mm	2.000 x 1.200 mm 2.600 x 1.200 mm

WE ARE ALWAYS AT YOUR SIDE TO SUPPORT YOU, EVERY STEP OF THE WAY

We're there, before you need us. FIMIC gives you the response you need for action early on, during pre-sale consulting, start-up, maintenance or after sales experience. You will receive professional support from our experts in line with your specific needs.



OUR SALES TEAM

Our direct sales team, agents, and representatives located in your region, ensure local support no matter where you are. Our sales managers are there to offer expert consulting and help you find the best solutions for your recycling requirements. With our presence across every continent, we provide assistance wherever you are.



*Scan the qr code
and meet our team!*

START-UPS & INSTALLATIONS

From the very start thanks to the plug & play configuration of our products, you'll enjoy a quick and hassle-free setup. Our experts technicians will guide you through essential functions with introductory training on the basic operations ensuring all your operators have the knowledge they need to operate the equipment efficiently, right from the beginning.



MAINTENANCE VISITS & PERIODIC CHECKS

For us, to support you, means standing by your side at all times. We perform periodic checks to guarantee the best performance of your machines. We frequently visit our customers to evaluate our products in real-world scenarios, guaranteeing their due performance.



CUSTOMER CARE & TECHNICAL ASSISTANCE

We prioritize providing exceptional customer care and technical support to ensure that you always get the support you need, whenever you need it. Our dedicated customer care team will offer personalized assistance tailored to your specific needs. Whether you're facing a technical issue or need guidance on how to get the most out of our products, we're here for you. We can connect remotely to check the status of your machine, diagnose potential issues, and guide you through troubleshooting, ensuring everything is running smoothly.

For urgent matters, we provide a WhatsApp number, so you can quickly reach out and get immediate help, with our innovative AI-powered assistance service that's available 24/7, 365 days a year, in multiple languages you're never alone—our commitment to providing top-notch support is at the heart of everything we do.

SPARE PARTS PORTAL

We offer a personalized experience for our customers through this platform, where you can easily browse the specific components of your own machine and place an order in just a few clicks. Our fully stocked warehouse, supported by in-house production, ensures that we can guarantee the availability of spare parts at any time, with fast delivery of your order within 24 to 48 hours (within the EU).



LET'S GET IN TOUCH!

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CONTACT US INFO@FIMIC.IT
FIND US ON WWW.FIMIC.IT

FIMIC[®]

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Via Ospitale 44 - 35010 Carmignano di Brenta (PD) - Italy
T. +39 049 595 7163 | F. +39 049 595 8096
VAT-No. IT-04785520281

Follow us on:
www.fimic.it

