



FIMIC
ITALIAN MELT FILTER

anniversary -
55th
anniversary
since 1963

Fimic self cleaning filter for highly contaminated plastic materials

Packaging & Recycling 2020
MILANO, 29-30 SETTEMBRE

A family continuously growing

2013



2020



Our Products

FIMIC GUILLOTINES
for the cutting of
plastic and paper



Our Products

FIMIC FILTERS
continuous and self-
cleaning



Our Products

Different needs, different filters...but all of them self cleaning and continuous!

RAS



ERA



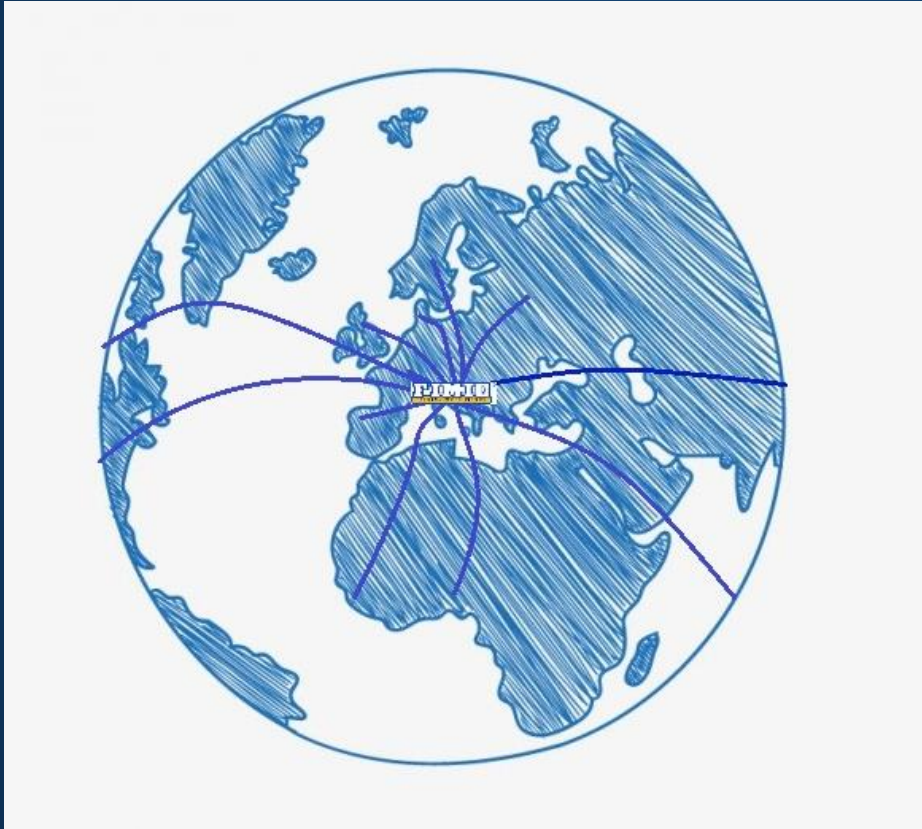
GEM



TEN



Our products **in the world**



RAS self cleaning filter

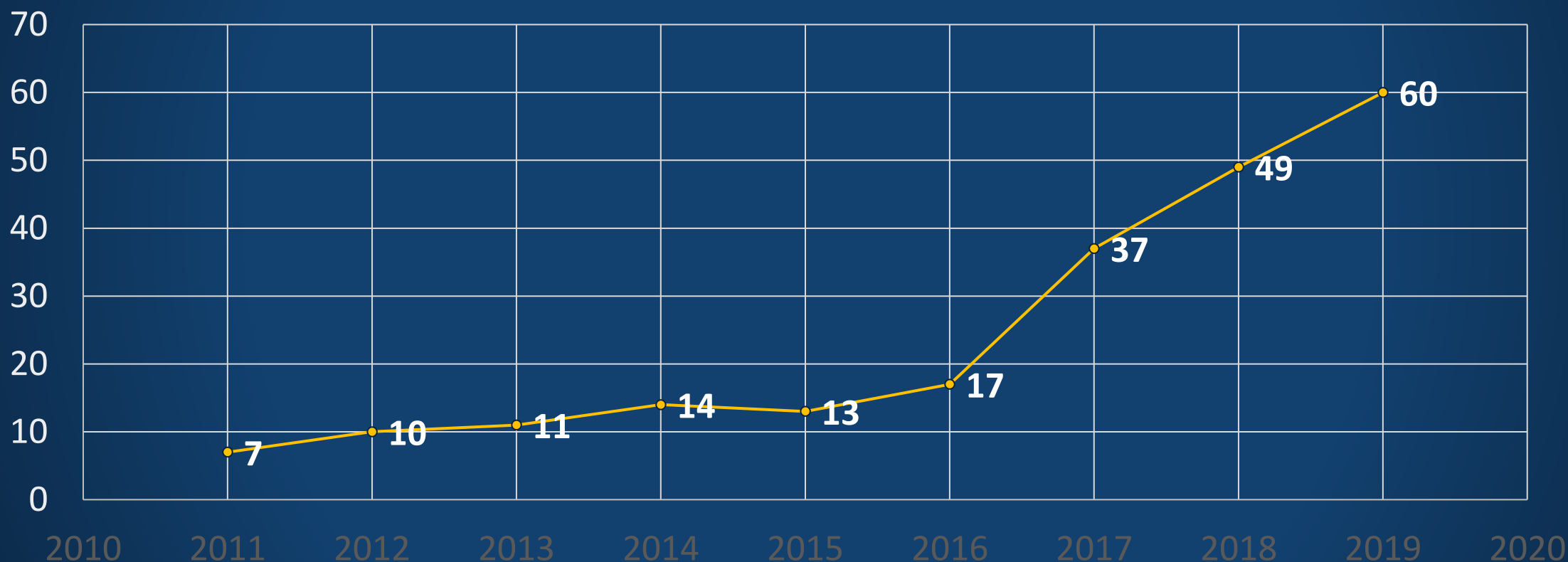
300 machines installed around the world (up to 2019)

In the whole world:

From Chile to New Zealand, from Finland to Indonesia

The reasons behind the growth

machine sold, from 2011 to 2019



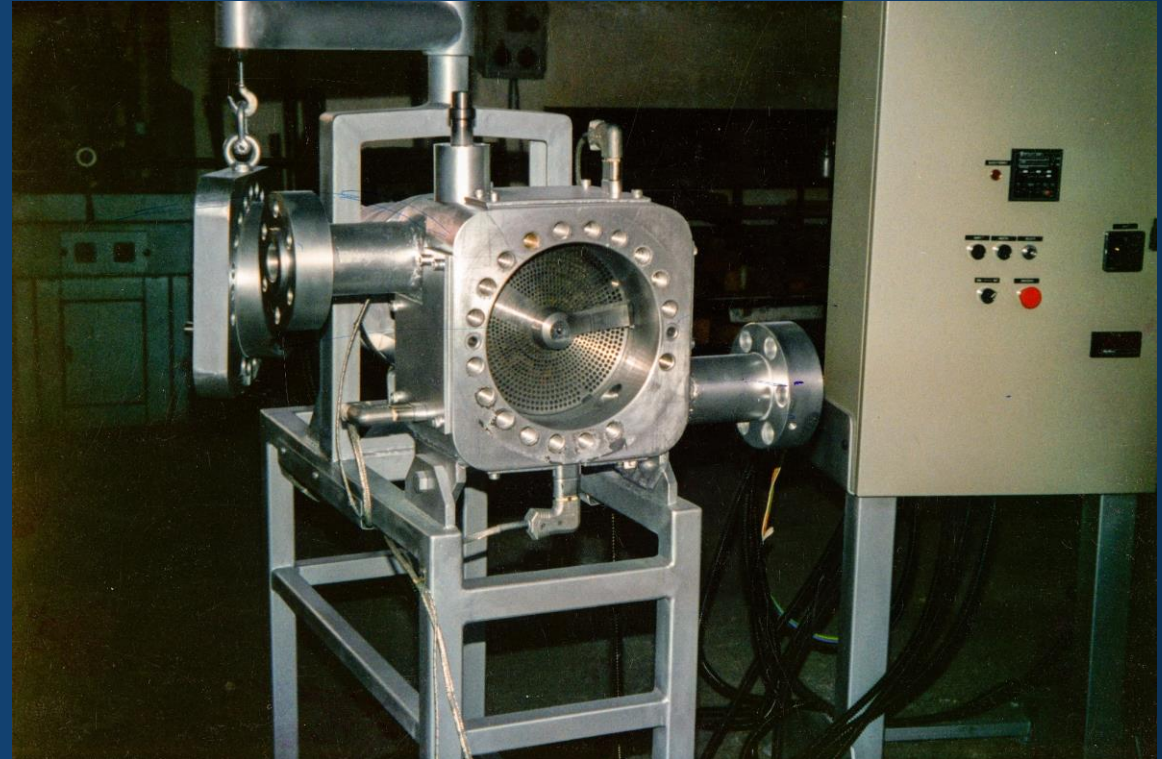
The beginning

The REF backflush filter

Used a mesh filter with a protection breaker and a contamination collector

Filtration down to 60 Micron

Average mesh life, 1 to 2 days



The intermediate phase

The RAS scraping filter

The backflush is replaced by a scraping system that uses a rotating blades' holder that collects the contamination in its hollow cavity

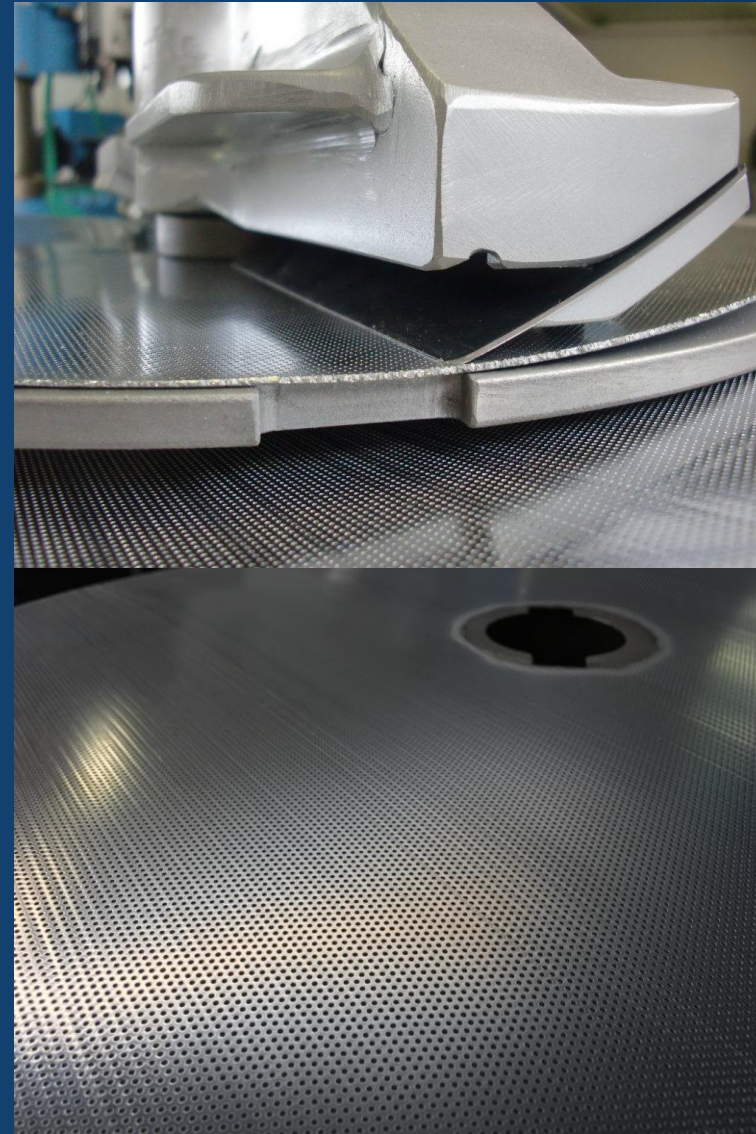
Much lower discharge and average filter life 7 days



The intermediate phase

The screen is not a mesh but a stainless steel sheet punched by punching technology.

Minimum filtration 300 micron



Applications from recycled material processed with the scraping system using punched screens



Year 2014 – the introduction of the laser screen

Present on the market for a long time, The Fimic RAS filter was considered a sturdy, effective, flexible machine, with low operating costs

The only limit, the level of filtration

2012-2014: two years of research and trials in house and on the field to determine:

- Ideal thickness
- Drilling quality
- Open area
- Treatment
- Dimensions
- Life of the screens
- Quality of filtration

The laser filter



Applications made with material recycled using the scraping system with the laser filter

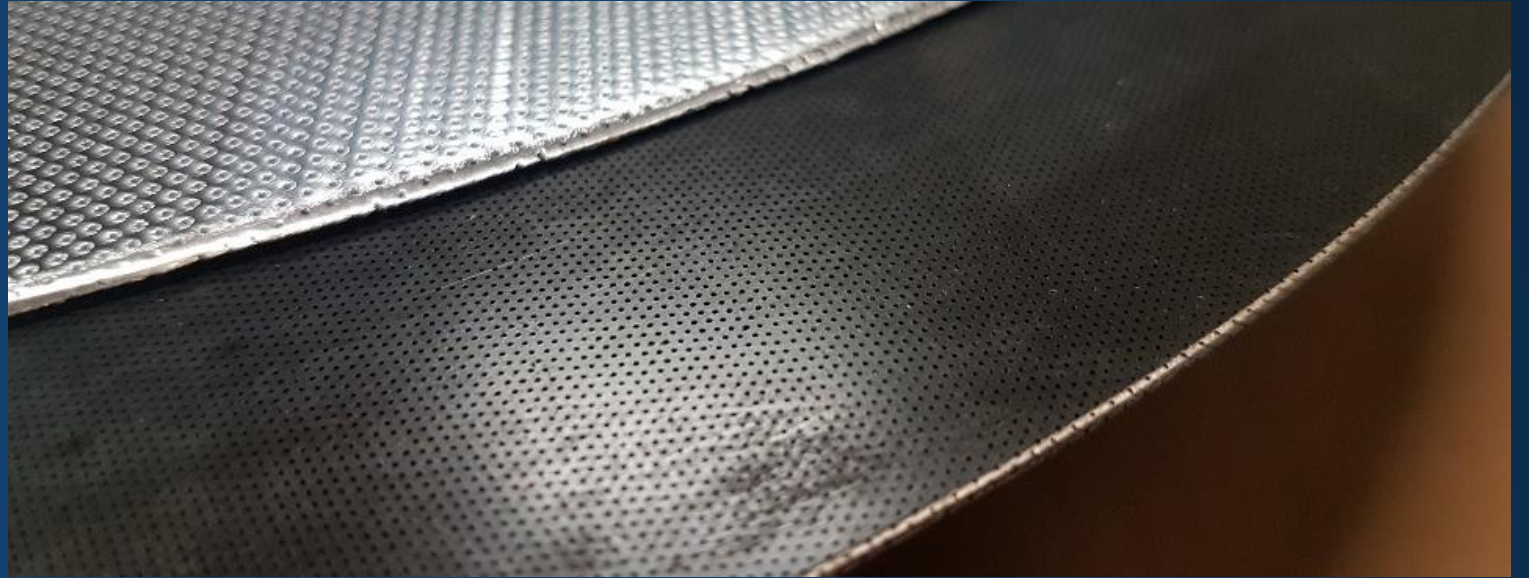
Blowing film down to 20 micron



Pictures courtesy of our customer Weltplast of Bosnia Herzegovina

To recap:

with the Fimic filter
you just need to
determine the screen
which is fit for your
own application:



Laser screen

<400µm (>40 mesh)

Available filtration (micron):

80-100-120-150-200-250-300

Available filtration (mesh):

180-140-125-100-72-60-50

Punched screen

>400µm (<40 mesh)

Available filtration (micron):

400-500-600-800-1000

Available filtration (mesh):

40-35-30-22-18

For recycling

Any type of thermoplastic and from any source.

Post industrial not washed or post consumer washed:

LDPE, LLDPE, HDPE, PP, ABS, PS ,
EPS, XPS, PVB, TPU, PVC

...and more



To manage and remove

Any type of contamination:

Paper, wood, organics, metal, sand,
unmelted plastics, fibres...

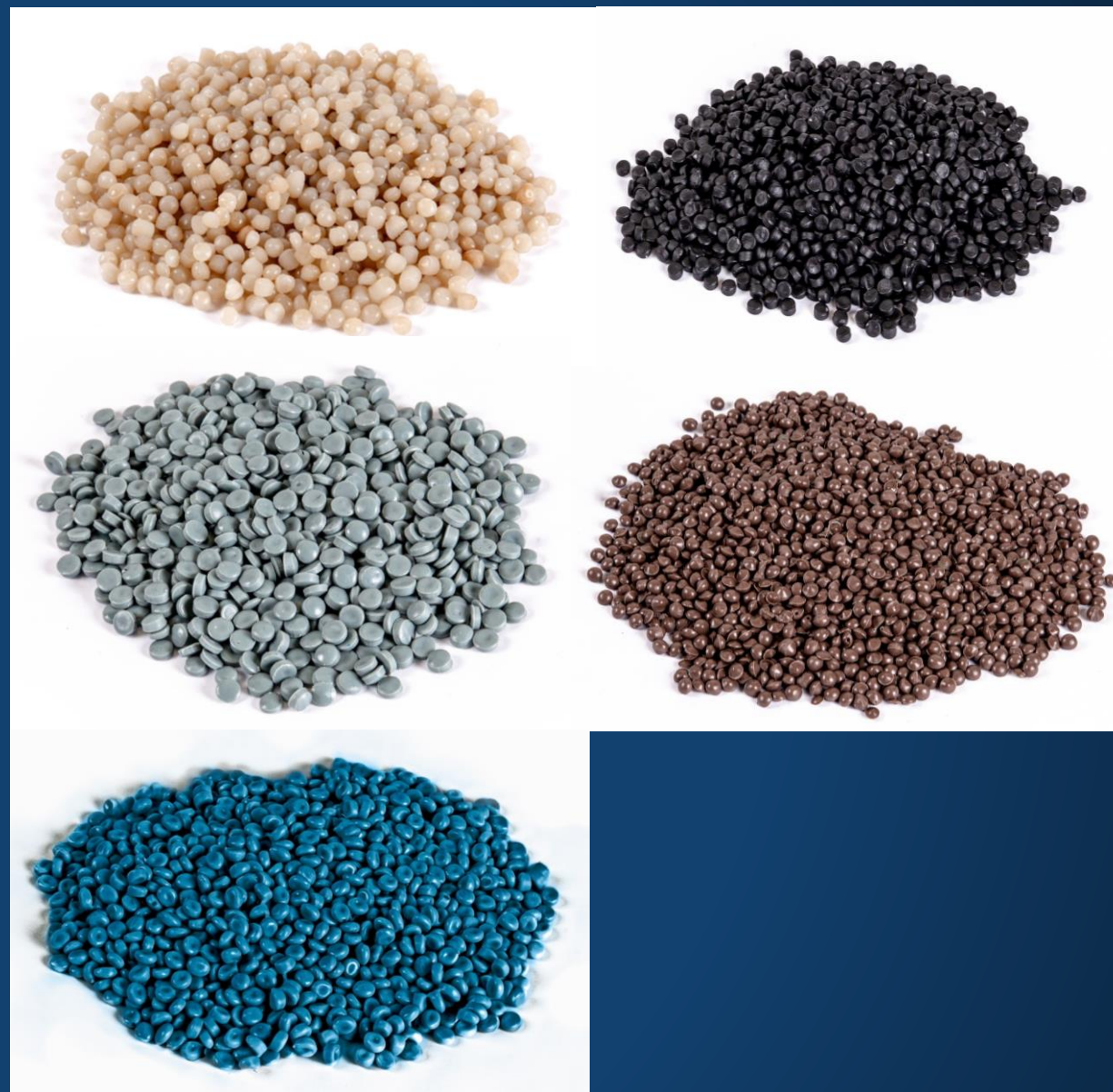
... and much more



BUT ON TOP OF EVERYTHING

To obtain the best possible result for
any applications:

Film blowing, injection moulding,
extrusion, sheet production...and
much more...



THANK YOU ALL!

