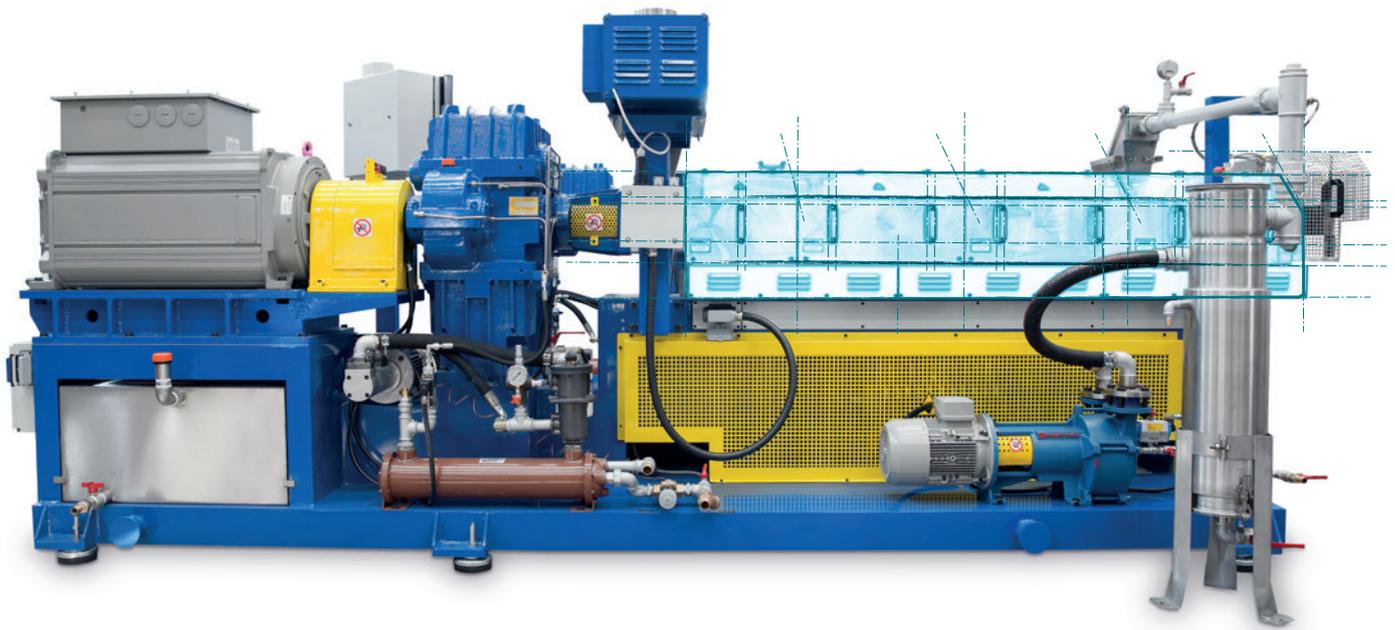


COMAC

extrusion since 1978



SPECIAL APPLICATIONS

PET waste reprocessing



PET washed bottle flakes and other PET waste sorts be recycled obtaining regenerated granules for injection moulding, or converted into products (e.g. staple fibers, sheets, ...) in an integrate one-step continuous processes.

Our know how on PET waste reprocessing is focused on plants for production of regenerated granules or as integrate solutions for direct recycling into products.

A minimum contents of moisture in the melt causes a significant decrease of I.V. (Intrinsic Viscosity) with consequent reduction of mechanical properties or even making processes / end-uses impossible.

By proper design of extruders (screw geometry, degassing systems, etc.) I.V. drop due to de-polymerization can be dramatically limited or avoided. Comac can develop highly-performing and reliable dryerless solutions for PET waste extrusion applied in cooperation with major manufacturers of downstream line sections in different sectors with still a high potential of implementation in other fields.

Long glass fibre reinforced sheet extrusion (LFT)

Demand of high mechanical properties, reduction of weight and recycling issues in the automotive market push the producers to develop new technologies and materials.

COMAC has developed special plants with an innovative processing solution by which glass fiber rovings are directly blended (D-LFT) in a polymeric matrix producing reinforced anti-crash sheets in a continuous extrusion process.

This extrusion plant feeds in-line compression moulding machines for making automotive under-body panels (e.g.: inner door panels), covers etc.

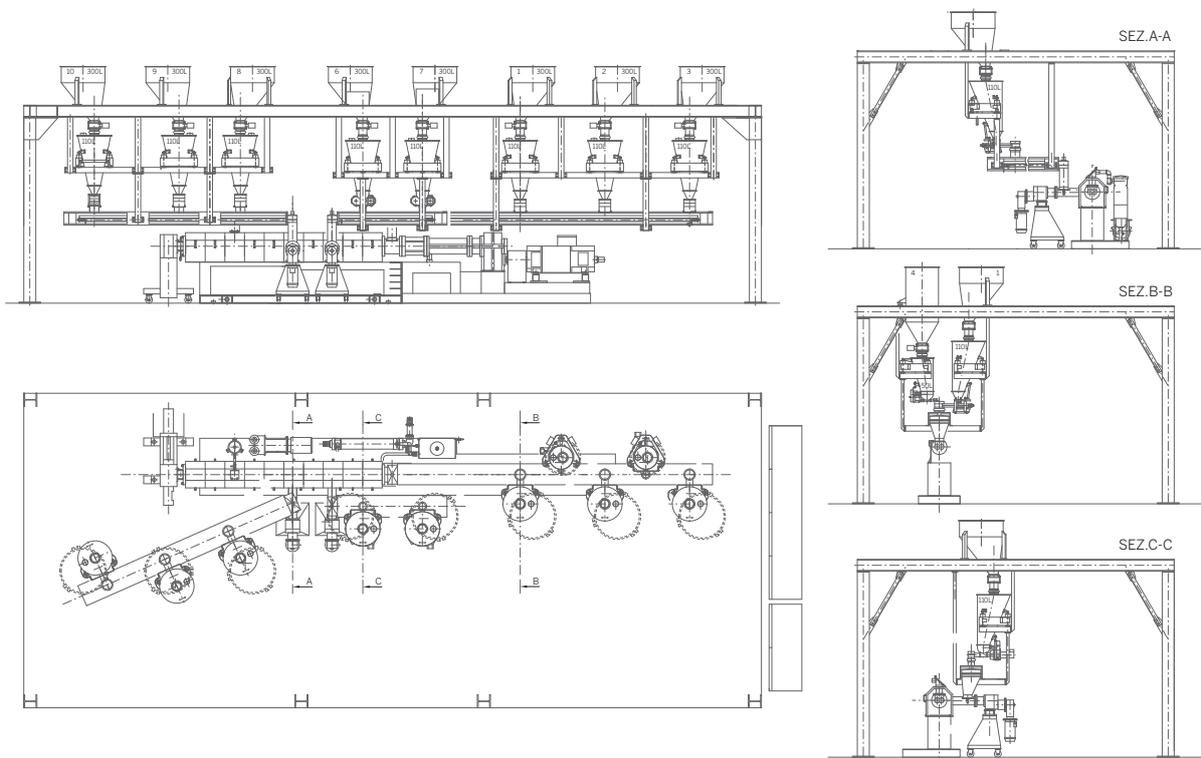
The process allows production of parts with higher mechanical properties in comparison with standard long glass fiber compression moulding systems.

Further advantages are highest quality control, reduction of scraps and high output.



Hot Melt

Among other application fields, extrusion plants for hot melt production (sticks or granules) represent an interesting example in which sophisticated configurations of dosing systems and extruders themselves are the key-points for obtaining desired product characteristics by complex formulations involving a variety of ingredients.



BIO PLASTIC

Large scale applications and the continuous improvement of eco-friendly consumers attitude is making biodegradable products more and more required in several compounding processes.

Exploiting our know how, built in the most different plastic fields, we developed customized solutions for biomaterials (e.g. PLA, starch based, polymers and biomaterials compounding)

The combination of our twin screw extruder, designed for a "gentle" mixing, with specific degassing and liquid injection systems, allows us to get optimal results in terms of quality and production capacity



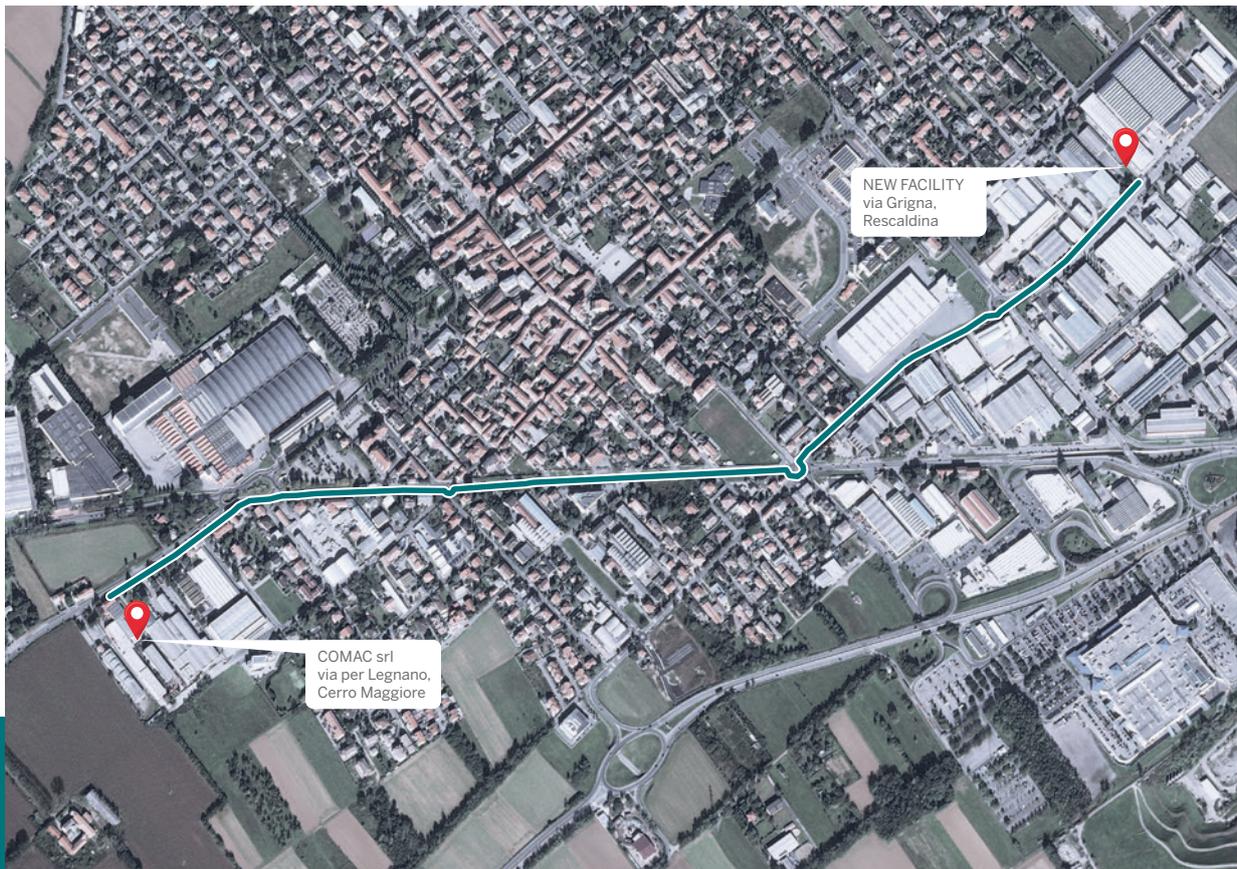
We are a company specialized in the design, engineering and production of twin screw extruders for the plastic industry.

Partnerships with important customers favour the development of groundbreaking solutions, designed around the needs of a fast growing market.

COMAC's approach, focused both on the quality of the raw materials and on the ability of designing and manufacturing its machines in an extremely flexible way, is winning in establishing the name of the company as an expert, reliable and innovative partner as in Italy as abroad.



1978 - 2018



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