

ICMA SAN GIORGIO SPA

Foundation

- 1945

Turnover

- 15 million €

Employees

- 60

Key materials

- Biodegradable resins
- Wood plastic and Natural Fibres Composites

Key products

- Co-rotating extruders and complete turn-key systems for compounding and extrusion

ICMA SAN GIORGIO

Advanced Compounding and Extrusion Systems

Company

ICMA SAN GIORGIO SPA (www.icmasg.it) is an Italian company belonging to a family-owned group with over 100 years industrial heritage in the mechanical and metallurgical industry. With over 40 years of experience in the production of plastic processing machinery, Icma is today one of the leading suppliers of co-rotating twin-screw extruders and turnkey systems for the compounding industry, sheet extrusion equipment and all kind of special plants where the co-rotating technology can offer a competitive advantage.

Through more than 40 years of R&D, manufacturing and process experience, ICMA possesses a deep knowledge of extrusion/compounding solutions. Customers depend on ICMA for high-quality, state-of-the art solutions backed by training, technical support and a high level of customer service. ICMA Quality stems from a synthesis of these five points:

- Technology and market EXPERIENCE and KNOWLEDGE
- Constant DEVELOPMENT of applied technology and KNOW HOW
- Strategic CHOICE of materials and components
- Internal MANUFACTURING of the main components
- Systematic CONTROL of the materials and components quality

ICMA manufacturing range is inclusive of the standard twin-screw co-rotating extruders, the high-torque version and high-volume covering all the types of compounded products, ranging from techno-polymers to bio-resins.

Material

Processing of biodegradable plastics

Thanks to its own versatility and constructive modularity, the Icma's twin-screw co-rotating extruder can perfectly process a great number of recipes bound to the so-called **bio-compounds** (from reactive bio-based materials as starch based resins to bio-resins like PLA or blends)

For many years ICMA is supplying its plants to the main European bio-compounds' producer and this allowed us to develop an **in-depth knowledge** of this process.

Thanks to its Laboratory equipment ICMA is able to support all those companies – including **start-ups and early stage companies** – which have decided to invest in this application field.

Products

Processing of Wood Plastic and Natural Fibre Composites

Our knowledge in mixing natural fibres and a polyolefin roots back to the early 70's when ICMA successfully pioneered, first in the World, the



Laboratory line for testing formulations



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process technology for producing a thermoformable sheet for automotive interior trims made of virgin or recycled polypropylene and wood flour. This patented technology became a world- wide success in the automotive industry with more than 50 plants worldwide, delivered during the last decades to the major car component manufacturers. This technology came to be known as **Wood-stock™**. This strong know-how led Icma to successfully develop a full range of WPC applications in Compounding, Sheet extrusion and Profiles as showed in the following paragraph:

- **70's:** ICMA patented the process technology for producing a thermoformable **WOOD-STOCK™ SHEET** for automotive interior trims made of polypropylene and wood-flour.
- **80's:** Developed a full range of **WPC COMPOUNDING** plants in order to respond to the demand from the newly borne WPC profile market in USA .
- **00's:** WPC Direct Extrusion Technology has been successfully applied to **WPC PROFILE EXTRUSION** getting huge benefits in cutting production costs with consistent output performance and quality.

ICMA's co-rotating technology provides superior results compared to alternative technologies like counter-rotating in terms of **HIGHER PRODUCTIVITY, BEST QUALITY PRODUCTS** due to melt temperature control, side feeding of Wood, superior mixing, superior degassing and **UNMATCHED FLEXIBILITY** either in process production and maintenance.

ICMA is also a team member of the European Research programme Ultrafibre™ (www.ultrafibre.org) with the objective to improve the compoundability of natural fibres in plastic matrix.



WPC compounding line



Sheet Direct Extrusion



WPC profile Direct Extrusion

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