The Piovan Group is the worldwide leader in the field of auxiliary technologies for the diverse polymer transformation processes.
WE ARE

The companies of the Piovan Group

Piovan
Una-Dyn
Fdm
Aquatech
Penta
Progema
Energys
HISTORY OF INNOVATION

Family tradition, commitment to innovation and focus on customer needs are the fundamentals of our history.
1934  Costante Piovan founds the company in Padova.
1960  Luigi Piovan joins his father and establishes commercial relations with companies in Germany and USA.
1964  Piovan is one of the first companies in Europe to produce auxiliary machines for the plastics processing industry.
1969  The production site is moved from Padova to Santa Maria di Sala, Venice, in a 1,300 sqm building.
1972  The manufacturing of the whole range of ancillary machines runs at full: material receivers, hoppers, dryers, crystallisers, blenders, granulators, chillers and temperature control units.
1974  Piovan opens Piovan Germany, its first subsidiary abroad.
1982  Piovan sets up a new division to follow the specific needs of the PET perform market.
1986  Piovan France opens.
1989  Inauguration of the new building in Santa Maria di Sala (Venice) which covers an area of 10,000 sqm, further expanded to 28,000 sqm.
1993  Piovan Canada opening in Mississauga, near Toronto.
       Piovan do Brasil starts its business in the city of São Paulo.
1996  Piovan acquires 100% of the software house CSA and starts developing supervision systems for equipment and production management.
1997 Establishment of Piovan Asia, in Singapore.
2000 Nicola Piovan takes over the operational management of the company. Building of the manufacturing plant in Brazil, Osasco, covering a 6,000 sqm area. Establishment of Piovan Hong Kong.
2004 Opening of Piovan Mexico.
2005 Establishment of Piovan China and of its production site in Zhuhai, near Hong Kong. Piovan UK opens in Bromsgrove, near Birmingham. Piovan Central Europe opens in Brunn am Gebirge, near Vienna, Austria. Following, Piovan Hungary and Piovan Czech Republic are established.
<table>
<thead>
<tr>
<th>Year</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>2006</td>
<td>Start of companywide Lean production program – Kaizen. Piovan India opening.</td>
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<td>2007</td>
<td>Piovan Turkey opening.</td>
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<td>2007</td>
<td>Development of Winfactory, the first industrial supervisory software based on standard licenses.</td>
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<td>2008</td>
<td>Piovan acquires Universal Dynamics (Una-Dyn), of Woodbridge, near Washington DC.</td>
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<td>2009</td>
<td>Piovan China moves to Suzhou, near Shanghai, in a 3,500 sqm facility. Launch of Genesys and Ecosmart, the highest energy efficient line of dryers and chillers featuring auto-adaptability.</td>
</tr>
<tr>
<td>2010</td>
<td>Piovan acquires the majority share of FDM, a German company specializing in dosing technologies for the plastics extrusion industry.</td>
</tr>
</tbody>
</table>
2010  Piovan Asia Pacific sets up in Bangkok.
Launch of Modula, the first ever auto adaptive, multiple hopper, central drying system.

2011  Launch of Digitemp, the high efficiency thermorefrigerators employing digital Scroll technology.

2012  Energys, an Energy Service Company (ESCo) is founded.
Modula is chosen by BMW for the production of the i3 and i8 models in the new Lipzig factory.

2013  Reorganization of the company structure into Industry Sectors.
Launch of Quantum, the auto adaptive gravimetric batch blender for the plastics industry.
First energy utilization and management software.
Launch of Pureflo filterless receivers.
<table>
<thead>
<tr>
<th>Year</th>
<th>Event</th>
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<tr>
<td>2013</td>
<td>Obtainment of the very prestigious patent for “High energy efficient drying systems for plastic materials”.</td>
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<td>2014</td>
<td>Aquatech, a new company for industrial cooling systems, starts its operations. Acquisition of Penta, a company operating in plastics and food processing.</td>
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<tr>
<td>2015</td>
<td>Piovan Maghreb is established in Algeria.</td>
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<tr>
<td>2016</td>
<td>New branches opening: Piovan Japan in Kobe and Piovan Gulf in Dubai, UAE.</td>
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<tr>
<td>2017</td>
<td>Piovan Vietnam sets up in Ho Chi Minh. Progema, which designs and produces industrial processes automation and control systems, joins the group.</td>
</tr>
<tr>
<td>2018</td>
<td>In October, Piovan enters the Italian Stock Exchange.</td>
</tr>
</tbody>
</table>
THREE GENERATIONS ONE FAMILY

The strong family heritage and its distinctive approach make the Piovan Group an organization devoted to continuous growth and development.
PIOVAN GROUP
Our figures
ENGINEERING AND R&D

Our strength is team spirit, technology is our tool. 171 specialists employed in Engineering and R&D Department committed to delivering innovation, the engine of our evolution worldwide.
EFFICIENCY IS SUSTAINABILITY

Piovan has always given strong priority to the design of high efficiency technologies, aiming to reduce the environmental impact of its machines. We contribute to reducing the global carbon footprint with an average of 300,000 tons per year of CO2 emissions reduction and more than 600,000,000 kWh per year.

Reduction of CO2 emissions

600,000,000 kWh/year
SALES

Euro Millions

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<tbody>
<tr>
<td>Sales (Millions)</td>
<td>91</td>
<td>117</td>
<td>138</td>
<td>142</td>
<td>151</td>
<td>153</td>
<td>192</td>
<td>194</td>
<td>213</td>
<td>246</td>
</tr>
</tbody>
</table>

DATA CLASSIFICATION: CONFIDENTIAL, NOT FOR DISTRIBUTION
SALES PER REGION

EMEA: 65%
NORTH AMERICA: 19%
SOUTH AMERICA: 5%
ASIA: 12%
CLOSE TO OUR CUSTOMERS

Our investment in human resources, to be closer and closer to our customers.
PIOVAN GROUP
Our global presence
WORLDWIDE BY NUMBERS

5 Regions
7 Manufacturing Facilities
29 Service and Sales Branches/Offices
More than 70 countries covered worldwide
GLOBAL SERVICE AND SALES

- Headquarters - Manufacturing facilities
- Piovan sales and service branches
- Distributors and representatives
PIOVAN WORLDWIDE ORGANIZATION

Manufacturing facilities and service & sales branches

EMEA
Piovan Headquarters, Santa Maria di Sala (Venice), Italy
Piovan Germany, Garching, Germany
Piovan France, Brion, France
Piovan Austria, Brunn am Gebirge, Vienna, Austria
Piovan Hungary, Budapest, Hungary
Piovan Czech Republic, Prague, Czech Republic
Piovan UK, Bromsgrove, Worcs, United Kingdom
Piovan Slovakia, Bratislava, Slovakia
Piovan Turkey, Istanbul, Turkey
Piovan Algeria, Algiers, Algeria
Piovan UAE, Dubai, UAE
Piovan Morocco, Kenitra, Morocco
FDM, Troisdorf, Germany
Aquatech, Santa Maria di Sala (Venice), Italy
Penta - Progema, Poggio Renatico (Ferrara), Italy
Energys, Santa Maria di Sala (Venice), Italy

NORTH AMERICA
Universal Dynamics Inc., Fredericksburg, VA, U.S.A.
Piovan Canada, Mississauga, Canada
Piovan Mexico, Queretaro, Mexico

SOUTH AMERICA
Piovan Brasil, Osasco, Brazil

ASIA
Piovan China, Suzhou, China
Piovan Beijing (Rep.Office), Beijing, China
Piovan Shenzhen (Rep.Office), Shenzhen, China
Piovan India, Navi Mumbai, India
Piovan Thailand, Bangkok, Thailand
Piovan Indonesia, Jakarta, Indonesia
Piovan Vietnam, Ho Chi Minh City, Vietnam
Piovan Japan, Kobe, Japan
Piovan Malaysia, Kuala Lumpur, Malaysia
# Our Partners Worldwide

Our distributors network ensures constant closeness and support to all customer.

<table>
<thead>
<tr>
<th>EUROPE, RUSSIA, CENTRAL ASIA</th>
<th>ASIA, FAR &amp; MIDDLE EAST</th>
<th>SOUTH AMERICA</th>
<th>AFRICA</th>
<th>OCEANIA</th>
</tr>
</thead>
<tbody>
<tr>
<td>BELARUS</td>
<td>Azerbeijan</td>
<td>Argentina</td>
<td>Tunisia</td>
<td>Australia</td>
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<tr>
<td>Belgium</td>
<td>Georgia</td>
<td>Chile</td>
<td>Nigeria</td>
<td>New Zealand</td>
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<tr>
<td>Bosnia Herzegovina</td>
<td>Kazakhstan</td>
<td>Colombia</td>
<td>South Africa</td>
<td>Fiji Island</td>
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<tr>
<td>Bulgaria</td>
<td>Kyrgyzstan</td>
<td>Venezuela</td>
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<tr>
<td>Croatia</td>
<td>MOLDOVA</td>
<td>Egypt</td>
<td>Peru</td>
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<tr>
<td>Denmark</td>
<td>Montenegro</td>
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<td>Estonia</td>
<td>Netherland</td>
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<td>Finland</td>
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<td>Greece</td>
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GLOBAL PRODUCTION:
OUR VALUES

promptness  reliability  quality  safety
CUSTOMER DEVOTED KNOWLEDGE

The Piovan team is at the customer’s side from the initial planning stage through to installation and start up of the system and ensures continuous follow-up for optimal equipment functioning.
Our Service Package

Help desk | Maintenance Contracts | Training | Equipment Overhauling
Spare Parts | Engineering | Installations | Energy Audits
WE WORK TOGETHER

ongoing relationships with customers, OEMs, raw material producers and suppliers

dialogue and cooperation with research institutes and specialized laboratories

transparency respect and cooperation with our partners
INDUSTRY EXPERTISE
Focus on our customers needs
INDUSTRY EXPERTISE

Our unique knowledge of plastics processing in the many industrial sectors. For more than 50 years.

PET Preforms & Bottles
Rigid Packaging
Automotive components
Technical parts
Medical solutions
Thermoforming & Technical Sheets
Flexible Film
Pipes, Profiles, Cables
Fibres & Strapping
Recycling & Compounds
Food & Beverage
Industrial
OUR RANGE OF PRODUCTS & SOLUTIONS
MATERIAL HANDLING SYSTEMS

From outdoor silos to centralized feeding systems: we design and produce integrated and flexible solutions for all kinds of plastics.

- dust free environment
- completely automatic conveying operations
- easy assembling
- dedicated Easy3 or PLC control
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DRYING OPERATIONS

We develop drying and dehumidifying systems which assure the best energetic performance of any process, being based on the latest technological innovations.

dehumidified air with Dew Point < -50°C
consistent quality process air, with 0.1°C precision
optimisation of energy requirement
treatment of large quantities of PCR flakes
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consistent quality process air, with 0.1°C precision
optimisation of energy requirement
treatment of large quantities of PCR flakes
Mould drying systems to avoid condensation and to guarantee proper operation with any weather condition all year round.

- Increase in the number of moulding cycles
- Reduction of imperfect and discarded pieces
- Maximum energy efficiency, with average consumption <0.0075 kWh per m$^3$/h
MATERIAL DOSING

Efficient solutions to ensure high dosing precision and repeatability of the process at every production cycle.
MATERIAL DOSING

Efficient solutions to ensure high dosing **precision** and **repeatability** of the process at every production cycle.

- **homogenous blend** and optimised regrind management
- Adjustment of values to the set percentages
- Simple **memorization of various settings** for automatic operations
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IMMEDIATE RECOVERY

Systems for immediate recycling of materials and discarded pieces which keep unchanged the qualitative characteristics of raw materials, eliminating any possible contamination or moisture absorption.
SIZE REDUCTION SOLUTIONS

Systems for immediate recycling of materials and discarded pieces which keep unchanged the qualitative characteristics of raw materials, eliminating any possible contamination or moisture absorption.
TEMPERATURE CONTROL

Accurate temperature control units for a large range of applications.

- precise fluid temperature control with no fluctuation
- production of high quality parts
- minimised quantity of heating power
REFRIGERATION PROCESS

Individual units and centralised systems for a constant refrigeration process in any location.
REFRIGERATION PROCESS

Individual units and centralised systems for a constant refrigeration process in any location.

- indoor and outdoor installation
- automatic self-adjustment according to the real thermal load
- seasonal air heat recovering
SOFTWARE SYSTEM

Easy-to-use supervising systems to quickly control every process phase, from anywhere in the world.
OUR PHILOSOPHY
OUR PHILOSOPHY

Three pillars: Customers, People, Innovation