

Plasmac is the company of the group that engineers and manufactures lines and complete solutions for the recycling process: the range of products is composed by In-Line and Off-Line units mainly designed for post-industrial applications. **Circular Economy** is our Mission: our excellent performances and innovative technology, have been rewarded becoming part of the **EREMA GROUP** in 2019, worldwide leader and landmark for who is looking to maximise productivity and minimize waste.

ALPHA



Alpha is our solution for In-Line application that can be configured with air-cooled or water-cooled pelletizers. Specifically designed for Blow Film In-line trim and off-spec rolls recycling, it can be equipped with dedicated ancillaries to match different applications as pre-shredded or granulated materials coming from injection moulding equipment. Covering a nominal output from 15 to 200 kg/h, these units, together with our Best Seller Alpha XS, are recognized as the most compact and energy saving recycling extruders in the market, reaching an incredible Roi in less than 6 months.



OMEGA



Omega is a multipurpose system for both In-line and off-line recycling. Available with water or air cooling pelletizers and with different filtering solutions and customizable feeding configuration, the shredder / extruder combination is ideal for high speed repalletizing of inline trims or for offline use to recycle off-spec reels, lumps, bales, loose material or start-up scrap. Its compact and energy saving design make it the ideal solution for your inhouse recycling needs, with a capacity range from 120 to 250Kg/h, it is the perfect ally for producers of PE, PP, PC, PMMA, ABS, TPU, TPE and many others that need to recycle different forms of materials forgetting about prior size reduction and hardness of generated waste.



EPSILON



The EPSILON recycling inline shredder extruder system uses Plasmac unique Short Screw Technology (SST). The slow rotating shredder rotor ensures dust generation is kept to a minimum which means a higher quality pellet production with the lowest levels of gels possible. It is the smallest shredder/extruder system on the market that ensures output from 45 to 100 kg/h: ideal for small/medium quantity of waste in different forms and for fast trim inline applications such as MDO blown film lines or small Cast lines. The inline shredder reduces the footprint and allows positioning even in the narrowest spaces.



TYGER CLOUD



Plasmac best in class digital platform that enables Customers access user-friendly services and machine production real time data. It enables any installation to advanced SERVITIZATION solutions: Predictive and preventive maintenance, online machine self-monitoring, spare parts web shop automatic ordering and production optimizations are just few of the services available today trough the platform and that will guarantee increase machine performances trough machine entire lifetime.



PLASMAC
MEMBER OF EREMA GROUP & SYNCRO GROUP

EUR.EX.MA offers, since 1999, Lab and Pilot Extrusion lines designed for material testing and small-scale industrial production. We meet the needs of laboratories and R&D departments of companies specialized in the manufacturing and processing of thermoplastic materials. Eur.Ex.Ma is developing equipment to enhance circular economy processes and a sustainable plastic processing industry, allowing the research of best technology to improve the usage of recycled and bio-based materials.

CAST FILM LINE



CAST FILM lines are designed for the quality control of polymers, compounds, masterbatches, and recycled materials. The film samples can be used for mechanical properties testing, visual control of defects, processability of polymers and color matching.



BLOWN FILM LINE



BLOWN FILM lines are designed to create samples of tubular film for packaging purpose, available in monolayer, 3-layer, and 5-layer versions. They are designed for the testing and quality control of different materials and polymers, virgin and recycled.



COMPOUNDING LINE



COMPOUNDING lines are designed to test different formulations of compounds and allow the quality control of recycled materials, color masterbatches, additives and biopolymers. Available with single or co-rotating twin-screw extruder to achieve the optimal mixing efficiency of the polymers.



3D PRINTING FILAMENT LINE



3D lines are used for the production of 3D printing filament. They can process standard materials such as ABS, PLA, PE, TPU or, if equipped with a double cooling system, several kinds of technopolymers.



MELT SPINNING LINE



MELT SPINNING line is designed for the creation of multi-filament such as FDY and CF with PP, PA or PET. This line can be used to test characteristics and formulations of different materials.



INJECTION MOULDING



INJECTION MOULDING line is designed to prepare specimen for analitic purposes. It is meant for the quality control of different materials, new and recycled and for testing various polymers.



EUR.EX.LAB



At EUR.EX.LAB we have set up a dedicated 600 mq Showroom where you can find our benchtop products. We make you experience first-hand the processing and the quality of our lines. Here, you will have the chance to test your own materials and check the quality of the final product.



EUR.EX.MA
LAB & PILOT TECHNOLOGY — SYNCRO GROUP

With 30 years of experience, **SB DRY** has developed multiple innovative technologies in the field of dehumidification and crystallization for post-industrial waste recycling, always guaranteeing low energy consumption and lower maintenance costs.

DEHUMIDIFICATION



VHELYOS, a super dehumidifier using the radiation heating system, whereby energy is transferred directly to the material without altering the nature of the plastic polymer. Moisture is extracted by applying a vacuum to a residual pressure of less than 0.1 mbar. The result of this combination of radiation and 'stripping' allows to reach extreme levels of dehumidification quickly, with low energy consumption, without oxidation and in any case without interference from foreign agents with the plastic polymer.



CRYSTALLIZATION AND DEHUMIDIFICATION



DRY TO MELT integrated with CRYSTALLIZE TO MELT, a system that, unlike traditional systems combines the two processes in one single step, with the following benefits: reduced energy consumption, reduced floor space requirements, lower maintenance costs, lower investment costs and thus a shorter ROI. In traditional processes, two heat treatment steps require more energy, space and maintenance costs.



CRYSTALLIZATION AND DEHUMIDIFICATION OF RECYCLED PET



The FYNISHER is a Crystallization and Dehumidification product dedicated to the large-scale consumption of recycled PET (R-PET). R-PET is continuously conveyed, passing through a Crystallization stage to reach the FYNISHER, where it is finally dried to the best moisture level and with the following advantages: rapid moisture 'stripping', reduced dwell time, no oxidation or degradation, energy efficiency. The result will be immediately visible in R-PET, which will appear cleaner and more uniform.



DRYERS



The dryers of the EDB / EDT series are used for drying of the so-called 'non-hygroscopic' plastics (e.g. PE or PP), i.e. which only retain moisture on the surface. They can also be used for simple plastics conditioning in order to put decisive production parameters under control and at the same time to reduce the energy requirements of processing machines (presses, extruders or blow moulding machines).



CENTRALIZED CONVEYING



SB DRY offers single or centralized transport solutions. Single units are divided into 'single-phase' (FSB series with integrated vacuum motor) and 'three-phase' (FTB series with separate vacuum motor). Centralized transport solutions, on the other hand, can be offered in 'centralized vacuum', NAS and multi-station versions.



ON-BOARD GRANULATORS



The GRS series granulators are a compact and reliable solution for on-board waste grinding, with both belt and robot feeding.



SB DRY
— SYNCRO GROUP

AceLabs designs and manufactures automated systems and solutions for quality control for industry and based on artificial vision technologies. The AceLabs' solutions, based on the visual characteristics of the monitored products, are able to derive the process information for the purposes of evaluation and measurement of quality parameters, the determination of the position of objects in space, the evaluation of volume and surface area, and reading and decoding of text and codes.

AUTOMOTIVE



Our solutions in the automotive sector range from glass plate control, printing control, automatic alignment of printing frames to the monitoring of the production of composite semi-finished products for tyres and their layering during the moulding process.



PRINTING



Solutions with traditional print quality and register control systems even for complex applications such as cold seal register printing. In the digital printing sector, we offer solutions for control of transactional, label quality and all variable data on every page.



SEMICONDUCTORS



Over these years, we have developed several customized solutions to control different steps in the production of semi-conductor silicon wafers. The controls use very complex optical solutions, not only in the visible light spectrum, but also in hyperspectral, microscopic optics and image frequency analysis.



GLASS



Control systems for both flat glass (production of glasses for cars, home appliances and architectures) and hollow glass (bottles, jars, etc...) by providing automatic laboratory machines to control the container capacity by production batches.



TEXTILE



Solutions for inspection of technical textiles for filtration, light and sound conditioning, as well as inspection and porosity control of nanomembranes.



X-RAY



In addition to optical inspection technology at different wavelengths, from mid-infrared to UV, we use X-Ray technology for internal structural inspection or density estimation of different products. The technology finds application in many industrial fields. We specialize in X-Ray inspection in the production of tires, composite structures and electronic circuits.



ACELABS
— SYNCRO GROUP

Plantech-CST specializes in the storage, handling and dosing of powders, granules, and liquid materials, engineered for applications across several industries such as Recycling, Plastic, Chemical, Food Industry, Cement and Pharmaceutical. Plantech-CST is the only Italian company offering a wide range of products dedicated to the automation of its market sectors, through advanced technological machinery and bespoke solutions matched to its customer's needs. PLANTECH-CST supplies worldwide, turn-key SOLUTIONS for STORAGE, CONVEYING and DOSING of plastics and regrind materials.



CACCIA-MYX

The Mixer: a historical product recontextualized in the IoT of innovation and technology of the near future. CACCIA-MYX, a division of PLANTECH-CST, is presenting the newly designed line of mixing equipment for various materials. Both our standard and customized mixers can process a wide range of materials such as PVC, Thermoplastic Rubbers, Powder Coatings, Masterbatch, Metallic Bonding, and WPC (Wood Plastic Composites).






COMPOUNDING

In this sector, PLANTECH-CST has unique capabilities in the market by combining highly precise and reliable GRAVIMETRIC DOSING with the STORAGE and CONVEYING of all raw materials, such as flakes, granules, powders, fiber, and liquids.



PVC

PLANTECH-CST has engineered, sold, and installed complete plants for the production of PVC products. The vast experience gained over the years enables PLANTECH-CST to STOCK, CONVEY, DOSE, AND MIX all types of POWDER or LIQUID products used in the various recipes for the production of rigid, flexible, and medical PVC products.



DOSING

Since the beginning, PLANTECH-CST has engineered, sold, and installed complete plants for the production of PVC products. The vast experience gained over the years enables PLANTECH-CST to STOCK, CONVEY, DOSE, AND MIX all types of POWDER or LIQUID products used in the various recipes for the production of rigid, flexible and medical PVC products.



PNEUMATIC CONVEYING

PLANTECH-CST boasts a complete range of highly accurate and dependable GRAVIMETRIC DOSING UNITS for powders, granules, flakes, fiber, and liquids. In particular, the SINGLE-SCREW, TWIN-SCREW and LABORATORY EC BLENDERS represent the best on the market in terms of versatility, ease of use, inspection, and cleaning.



EMPTYING STATIONS AND BIG BAGS

For the HANDLING of flakes, powders, and granules, PLANTECH-CST offers the market the type of pneumatic conveying system best suited to the specific requirements of the product type. Based on accurate technical studies, PLANTECH-CST can supply systems in DILUTE PHASE under suction or pressure or alternatively, systems in DENSE PHASE



SILOS

PLANTECH-CST can supply STOCKING SILOS of any size and construction worldwide depending on the type of product, the volume required, and the final destination.

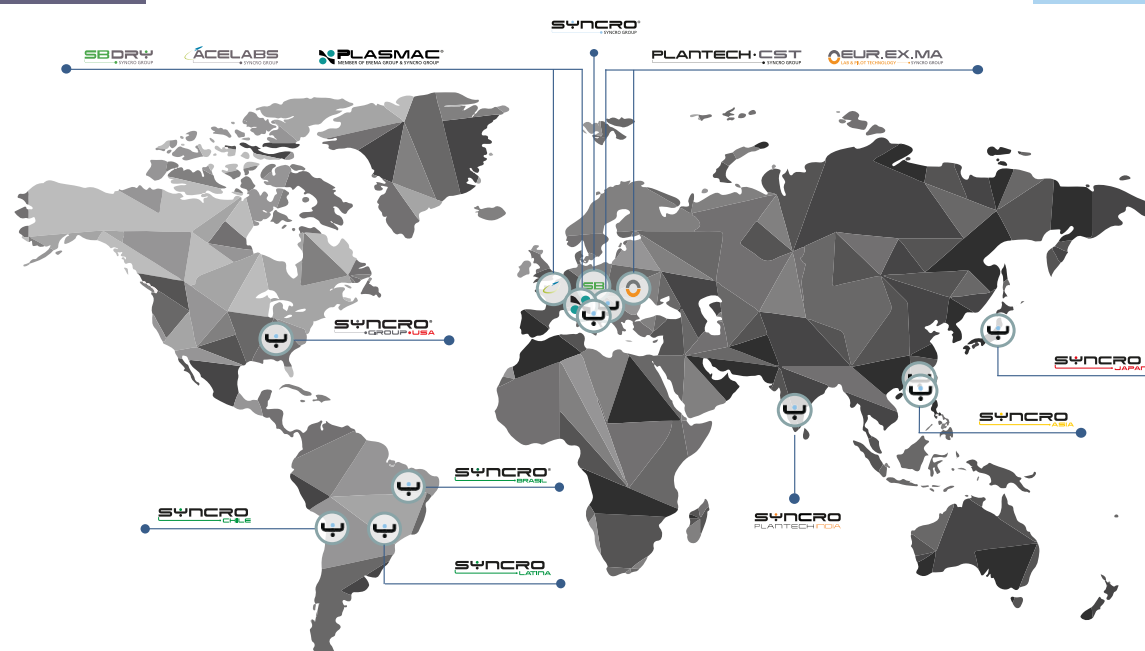



RECYCLING

The recycling market, through which the recovery of plastic materials is aimed at limiting the amount of waste, is expanding more and more. In this, PLANTECH-CST has distinguished itself by supplying worldwide turn-key SOLUTIONS for the STORAGE, CONVEYING and DOSING of plastics and regrind materials

PLANTECH·CST SYNCRO GROUP



SYNCRO <small>SYNCRO GROUP</small> SYNCRO srl Viale dell'Industria 19 21052 Busto Arsizio (VA) Phone +39 0331 677716 Fax +39 0331 326581 Web www.syncro-group.com E-mail info@syncro-group.com	PLASMAC <small>MEMBER OF EREMA GROUP & SYNCRO GROUP</small> PLASMAC srl Viale dell'Industria 42 21052 Busto Arsizio (VA) Phone +39 0331 341813 Web www.plasmac.it E-mail info@plasmac.it	PLANTECH·CST <small>SYNCRO GROUP</small> PLANTECH CST Via Luigi Enaudi, 25 41032 Cavezzo (MO) Phone +39 0535 88214 Web www.plantech-cst.com Email info@plantech-cst.com	ACELABS <small>SYNCRO GROUP</small> ACELABS srl Via Enrico Fermi 30, 20019 Settimo Milanese (MI), Italy Phone +39 02 45504688 Web www.acelabs.it E-mail info@acelabs.it
EUR.EX.MA <small>LAB & PILOT TECHNOLOGY SYNCRO GROUP</small> EUR.EX.MA srl Via Salvador Allende, 7, 21049 Tradate (VA) - ITALIA Phone +39 0331 827653 Web www.eurexma.com E-mail info@eurexma.com	SBDRY <small>SYNCRO GROUP</small> SB-Dry srl Via R. Colpi 28 - 35010 Limena (PD) - ITALIA Phone +39 0531 827653 Web www.sbspastics.it E-mail sales@sbspastics.it	SYNCRO GROUP USA SYNCRO GROUP USA 2120 Airport Flwy Dr. Charlotte, NC 28208 Phone +1 706 618 1707 Web www.syncro-group.com E-mail info-us@syncro-group.com	SYNCRO PLANTECH INDIA SYNCROPLANTECH INDIA PRIVATE LIMITED 108, B Wing, Nemithalli - III, Gopal empire, Bissar, 401501, Dist Palghar, State - Maharashtra, INDIA Phone +91 937 230 1728 Email devedral@syncro-group.com Web www.syncro-group.com
SHINI-SYNCRO <small>EXTRUSION CONTROL, INC</small> SHINI-SYNCRO Extrusion control, INC No.1, Shini Road, Shixia, Delang, Dongguan Guangdong - China Phone +86 769 8267 7669 Fax +86 769 8267 7665 Web www.shini-syncro.com E-mail info@shini-syncro.com	SYNCRO ASIA CO. LIMITED SYNCRO ASIA CO. LIMITED ROOM 63, 7/F, WOO LEE COMMERCIAL BUILDING 7-9 AUSTIN AVE, TSIM SHA TSUI, KOWLOON, HONGKONG Phone +85 245 99425-3385 Web www.syncro-group.com E-mail sales@syncroasia.com	SYNCRO LATINA SYNCRO LATINA, LTDA Rua Paranaapanema N° 248, Taboão, Diadema/CP09935-400, São Paulo-Brasil Phone +55 11 99425-3385 Web www.syncro-group.com Website www.syncro-jp.com E-mail info@syncro-jp.com	SYNCRO JAPAN SYNCRO JAPAN CO. LTD 1-6-16-104 Iizuka Kawaguchi-shi Saitama-ken Japan Phone +81 048-212-2284 Web www.syncro.jp E-mail info@syncro.jp

SYNCRO
GROUP





YOUR GLOBAL LOCAL COMPANY



Syncro presents the new generation of machines and auxiliary equipment for plastic extrusion processes. "ZERO WASTE Myssion" is the guideline for the projects and technologies with which Syncro Group identifies and is committed to safeguarding the ecosystem, zeroing plastic waste and wastage, minimizing energy consumption, and increasing process efficiency.



AIR RING

Automatic cooling and temperature control rings for blown film heads with top performances. Maximum cooling capacity, increased production, bubble stability, and an accurate thickness control profile are the winning features of the new generation Typhoon Cubed rings. Rings can be combined with the patented "2.0 Technology" of simultaneous use of air volume motors and heating elements for final thickness profile tuning especially for technical films (including downward version for quench lines).



GAUGING SYSTEM

Continuous thickness gauges for blown film and for rigid film or sheets with flat head technology including extrusion coating. Syncro offers many different control technologies and sources: Non-contact capacitive on telescopic turntable for blown film; capacitive/inductive, low emission X-rays, optical NIR, laser, combined solutions to discriminate barrier layers and universal Beta rays. Systems can be integrated with state-of-the-art software for controlling cooling rings and automatic flat dies.



GRAVIMETRIC SYSTEM

Complete multi-component gravimetric dosing systems (batch and/or continuous loss-in-weight) equipped with innovative fast cleaning solutions, automatic equipment for the elimination of dust and angel hair; state-of-the-art software for managing the extrusion process in all major applications. Modularity, precision and accuracy at the highest level, perfect component mixing, and an easy-to-use HMI make them a highly efficient product.



CONVEYING SYSTEM

Raw material feeding systems can be equipped with automatic material handling control units with the TETRYX series, designed to make the distribution of plastic material flexible and modular. The hopper loaders of CONVEY series from 13l to 150l are prepared for the integration of de-dusting and angel hair removal systems for the most sensitive materials. The suction units used on the SYLINK series are equipped with automatic cleaning filters and fitted with inverters for flow rate modulation.



SUPERVISORY SYSTEM

Syncro has years of experience and specialization in the design of electronic control architectures at the highest level for complex extrusion lines. Not only for the global integration of its loading equipment, dosing, cooling rings, thickness gauges, etc., but also for replacing (upgrading or revamping) complete control systems of existing lines, improving their management and performance. All this with a view to facilitating organized data storage (recipes, predictive maintenance information, process settings, etc.) either on a local network (PLCs and latest-generation PCs) or in the cloud.



WEB INSPECTION

Precision optical film inspection systems for defect detection and in-line quality control to improve the extrusion process - products from Acclabs' years of experience and references as a specialist in high-performance optical inspection systems. Precise defect analysis and classification, easy integration on lines and camera/illuminator systems suitable for inspection of all surfaces (transparent, opaque, and colored). These are tools that minimize production waste by improving line OEE.

WIRE & CABLE

Cutting-edge technologies for the world of cables, including innovative measuring and quality control systems for extrusion lines (diameter and concentricity, speed, and spark test, as well as defects) combined with turn-key technologies for the storage, transport, feeding, mixing, and dosing of liquids, powders, flakes, and granules for recipes typical of the wire & cable industry. All machines are equipped with next-generation PC/HMI management systems and related software packages in line with the 'good standards' of industry 4.0 guidelines.

syncro
SYNCRO GROUP