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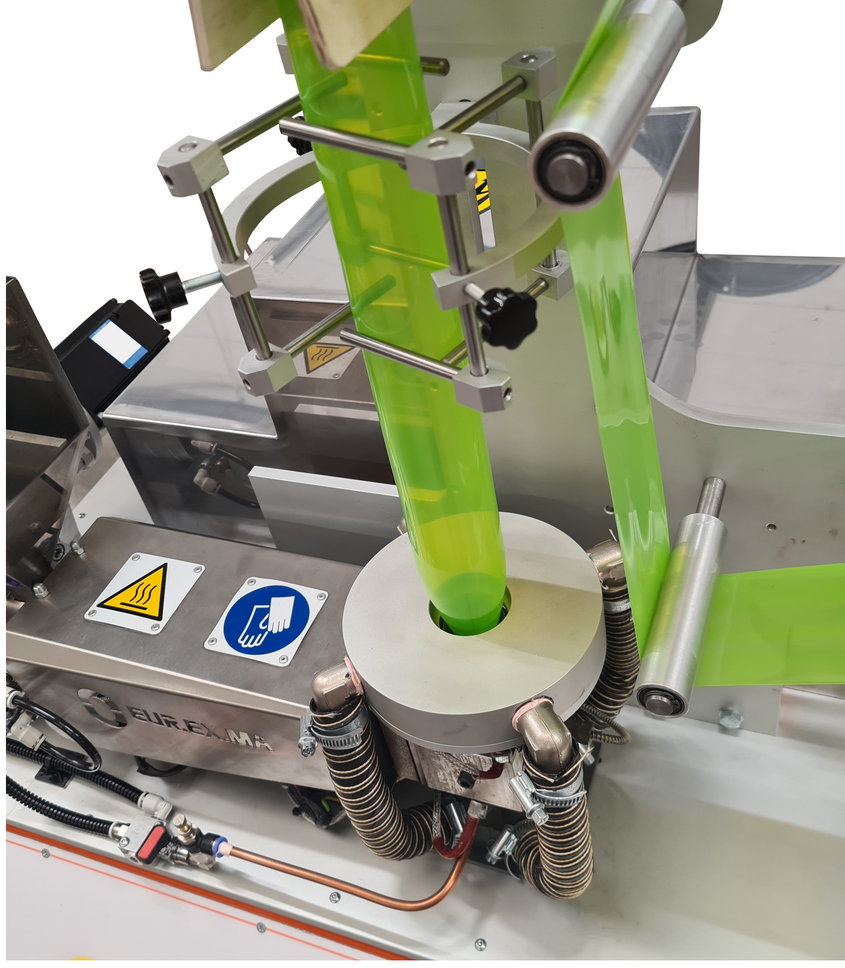
LAB & PILOT TECHNOLOGY — SYNCRO GROUP

PRODUCT CATALOGUE



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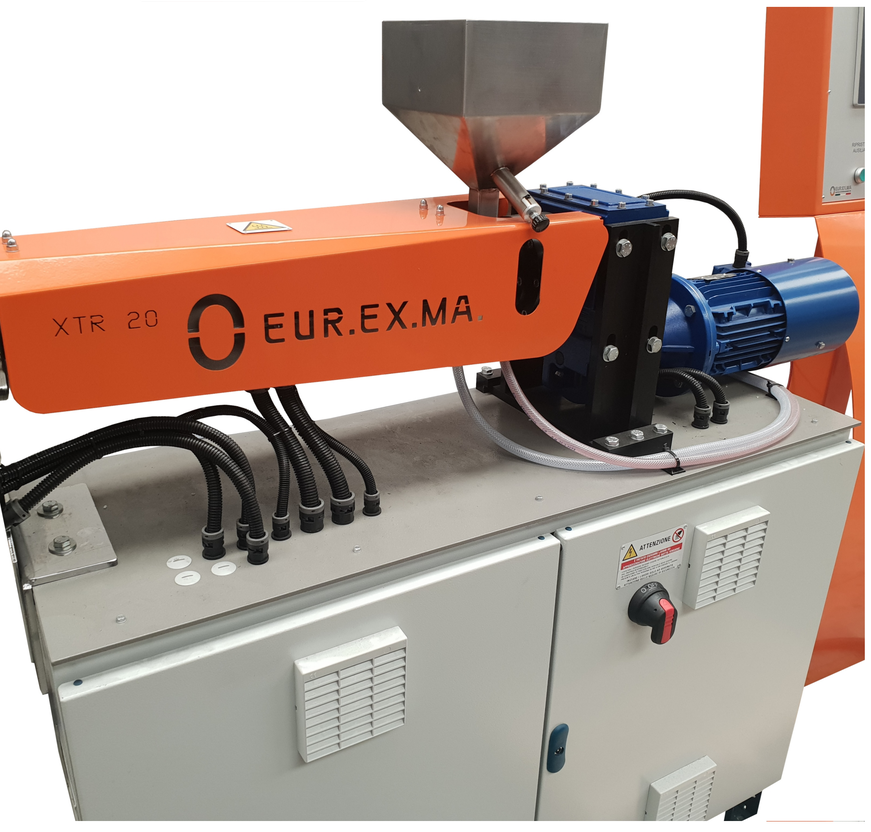

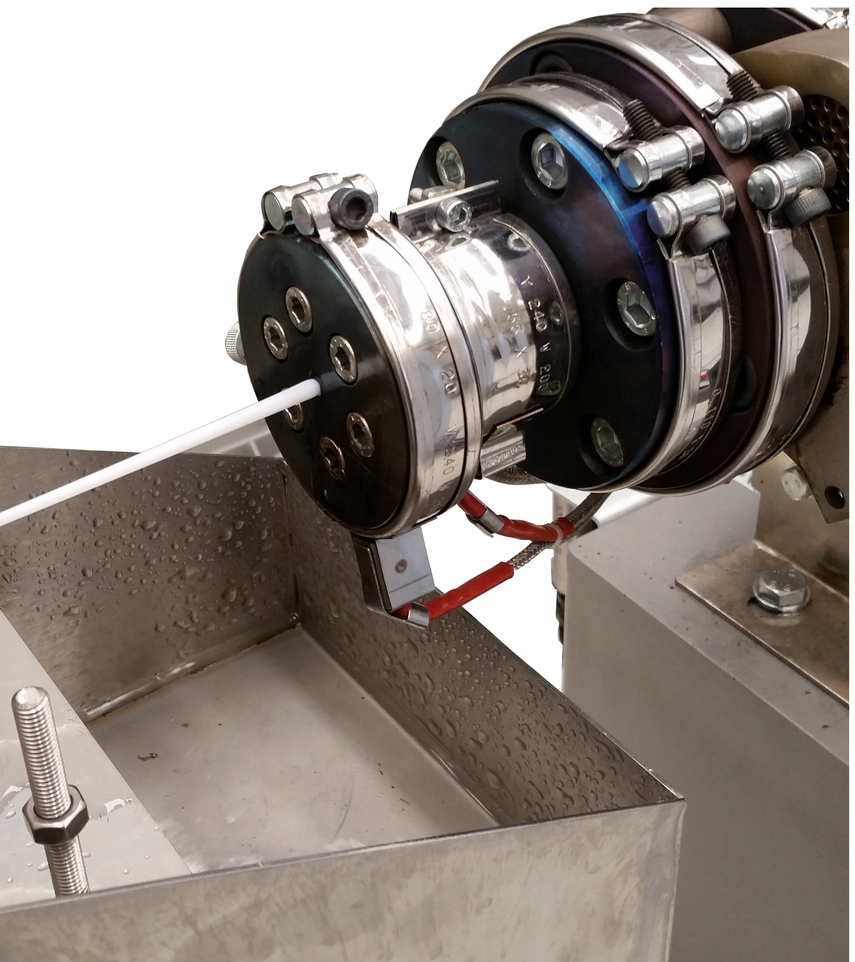

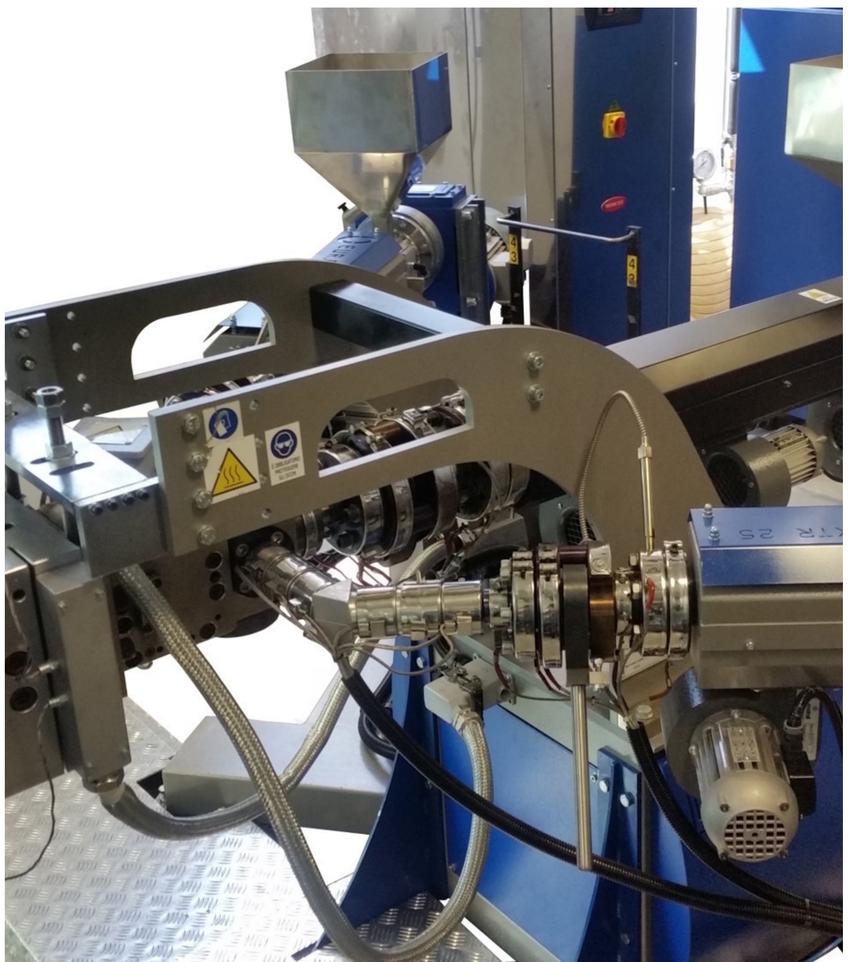

TABLE OF CONTENTS

COMPANY

Eurotech Extrusion Machinery Srl offers, since 1999, complete Pilot and Lab extrusion solutions and systems, including also complete small lines for industrial production.
Our customers are laboratories and R&D departments of companies specialized in production, manufacturing and processing of thermoplastic materials.

Eur.Ex.Ma is developing equipment to enhance circular economy processes and sustainable plastic processing industry, allowing the research of best technology to improve usage of recycled and bio-based materials.

Eur.Ex.Ma is following the vision of Syncro Group "ZERO WASTE MYSSION" to reduce energy consumption and scraps at minimum level.

Engineering and design, knowledge of machines manufacturing processes and applications, based on the real 30-year experience of our technicians, make Eurotech Extrusion Machinery Srl a reliable partner. Our main goals are to achieve constant innovation and to meet our customers needs.

ENGINEERING & DESIGN

Made in Italy

High quality mechanical construction

European standards

KNOW-HOW

30 years of knowledge of machines, processes and applications

PERSONALIZED SOLUTIONS

Taylor-made solutions
Our design technology allows to meet a wide range of specific needs with suitable solutions

DEDICATED CUSTOMER CARE

Remote service with dedicated skilled technicians

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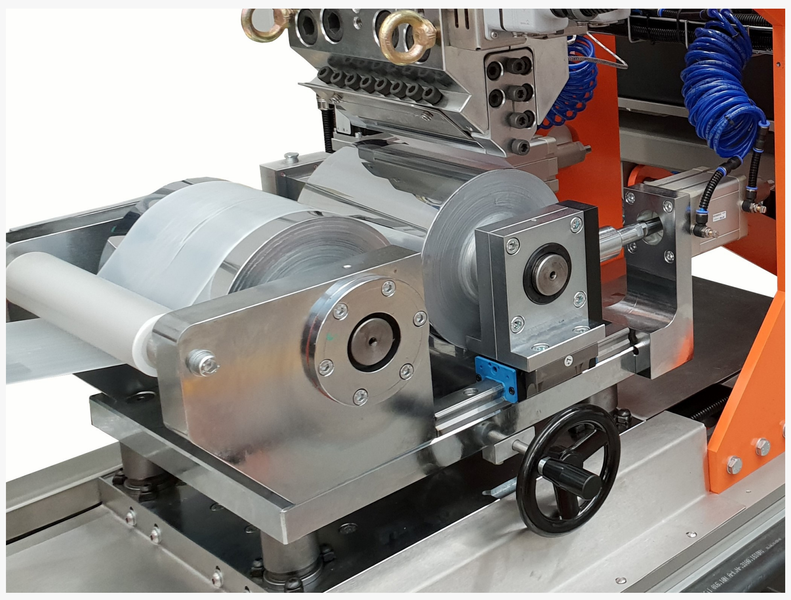
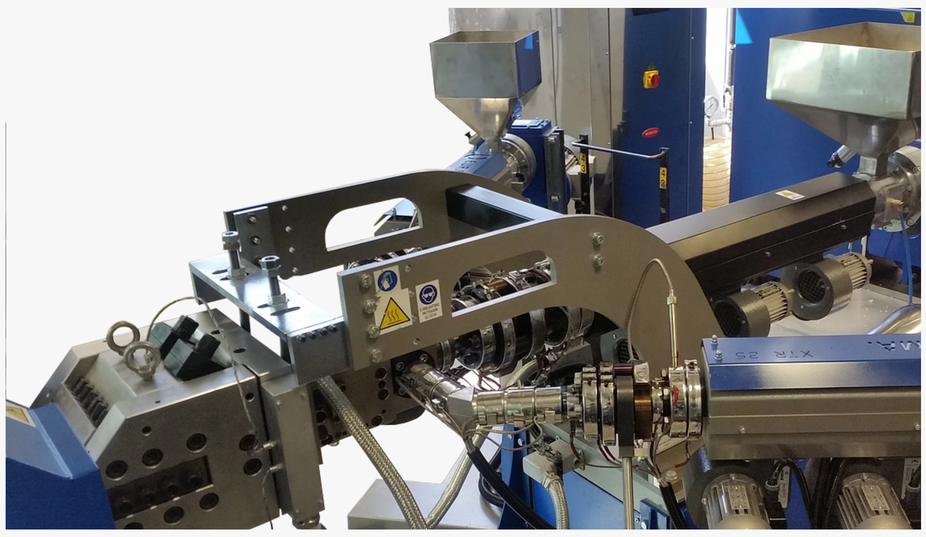
PRODUCT PORTFOLIO / APPLICATIONS

Cast Film



Cast film lines are designed for the production of samples of film for quality testing with a wide variety of polymers, from standard polyolefines to biopolymers and technopolymers, with a thickness range from 20 to 1000 microns.

Foil / Sheet

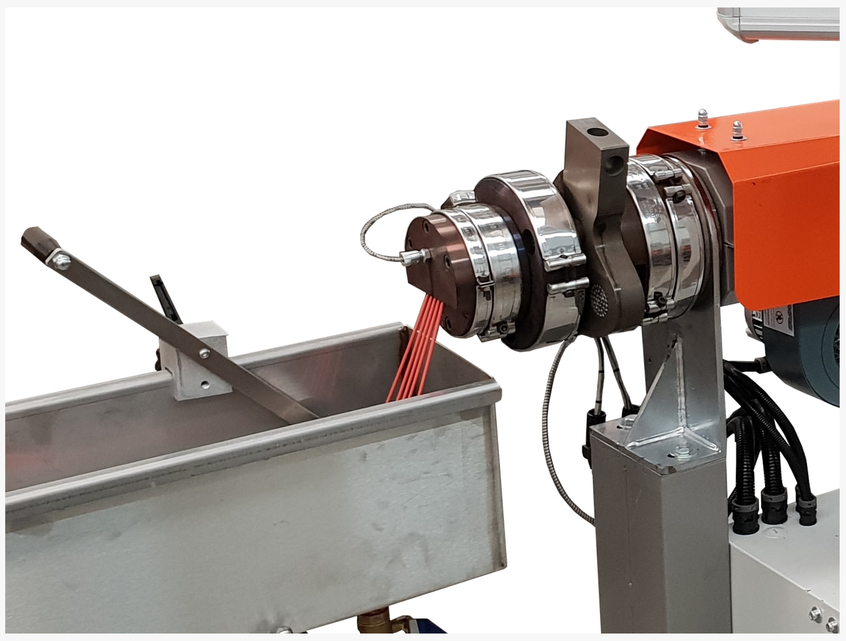


Foil lines are designed for the extrusion of mono-layer or multi-layer foil samples from 1 to 10 mm of thickness, with a wide variety of materials. They can be equipped with winders for reels or guillotine cutting units for sheets.

Blown Film

Blown Film Lines are used for the extrusion of mono-layer or multi-layer tubular film, that can be used to test polymers (virgin, recycled or biopolymers), in order to perform quality tests and produce samples for packaging and medical applications.

Compound

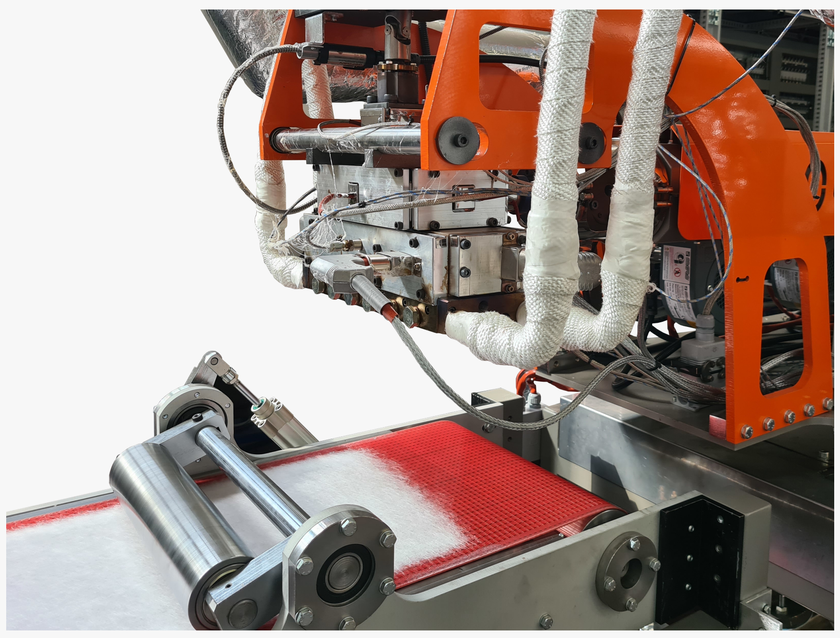


Compounding lines are used to produce granules of polymeric materials, virgin or recycled. They can be composed of single-screw extruders or co-rotating twin-screw extruders, used to test different formulations of masterbatch and compound, including plants for bio-degradable resins.

3D Printing Filament

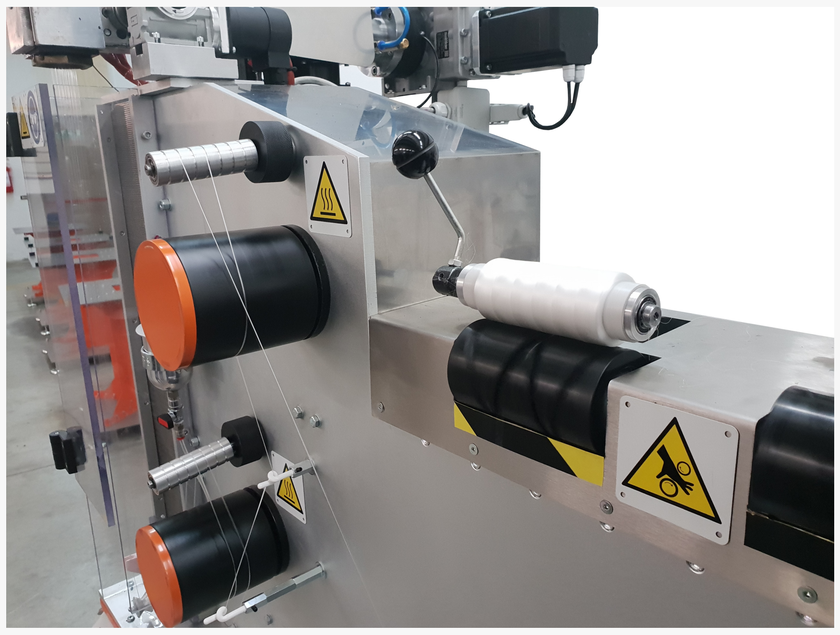
3D filament lines are used for the production of filament for 3D printing. They can process standard materials such as ABS, PLA, PE, TPU or, if equipped with a double cooling system (air/water), also several kinds of technopolymers.

Nonwoven



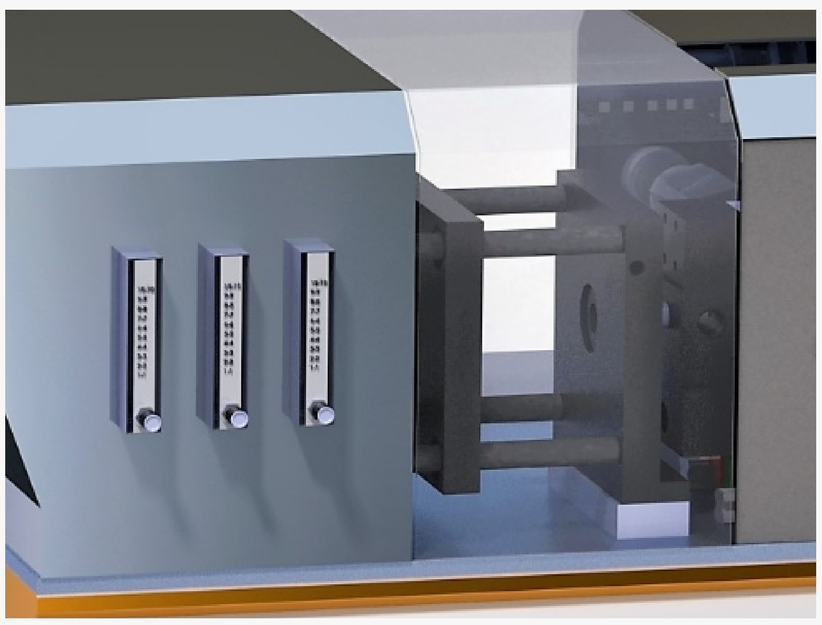
Our laboratory machines for spunbond and meltblown have been designed and built with clever technology to get closer to the producers of Nonwoven Fabric with PP for all the commercial usages.

Melt Spinning



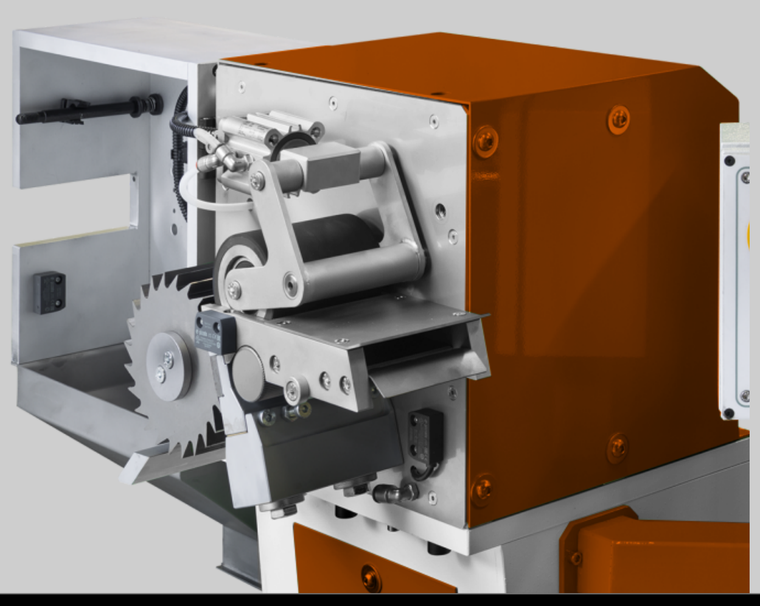
Our spinning laboratory line is useful to create samples of continuous filament or Full-Drawn Yarn in PP, PA or PET, that can be used to test several kinds of fibers.

Injection Moulding



Our injection moulding laboratory line is useful to test every kinds of polymeric materials. With this line, it is possible to create samples with a very low amount of material in order to perform quality tests before starting with the serial production.

Accessories and pilot plants for special projects

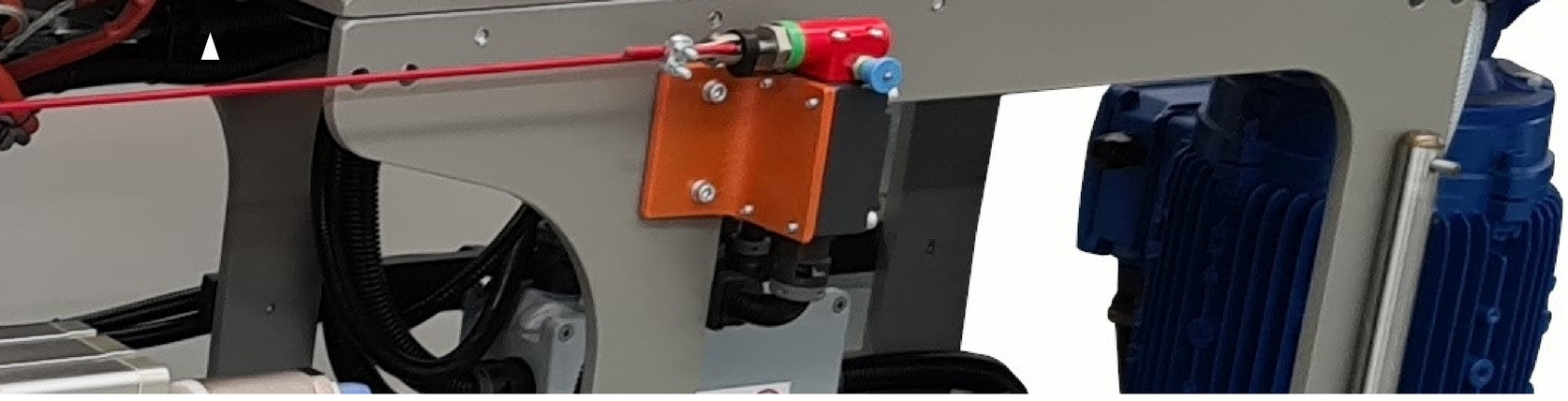


Eur.Ex.Ma offers full support to customers for special and innovative applications, from machine design to final product development, with our long time experience in R&D.
We are able to follow our customers in projects for extrusion lines and accessories and make ideas come true.

CAST FILM

Monolayer Cast Film Extrusion Lines

Model	Line Characteristics				Finished Product Characteristics	
	Screw Ø	Rolls Width	Thickness Range	Chill Roll	Processed Materials	Throughput
MicroEx Cast	17,5 mm	120 mm	20 - 800 µm	1 roll configuration	HDPE, LDPE, LLDPE, PP, PA, PET, TPU, EVA, Biopolymers	1 kg/h max
MiniCast 20	20 mm	150 or 200 mm	20 - 1000 µm	1 or 2 rolls configuration		7 kg/h max
MiniCast 25	25 mm					12 kg/h max
MiniCast 35	35 mm	350 or 500 mm				30 kg/h max



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CAST FILM

Multi-Layer Cast Film Extrusion Lines

Model	Line Characteristics				Finished Product Characteristics	
	Screw Ø	Rolls Width	Thickness Range	Chill Roll	Processed Materials	Number of Layers
MiniCast Coex 3	Any combination of 20/25/35 mm	200/350/500 mm	20 - 1000 µm	1 or 2 rolls configuration	PE, PP, PA, PET, PMMA, TPU, EVOH, EVA, Biopolymers	3
MiniCast Coex 5						5

FOIL / SHEET

Mono-Layer Sheet Extrusion Lines

Model	Line Characteristics				Finished Product Characteristics	
	Screw Ø	Rolls Width	Thickness Range	Chill Roll	Processed Materials	Throughput
MiniFoil 25	25 mm	200/350/500 mm	1 – 4 mm	2 or 3 rolls configuration	PE, PP, PA, PMMA, TPU, PET, ABS, PS, PC, Biopolymers	12 kg/h max
MiniFoil 35	35 mm		1 – 10 mm			30 kg/h max

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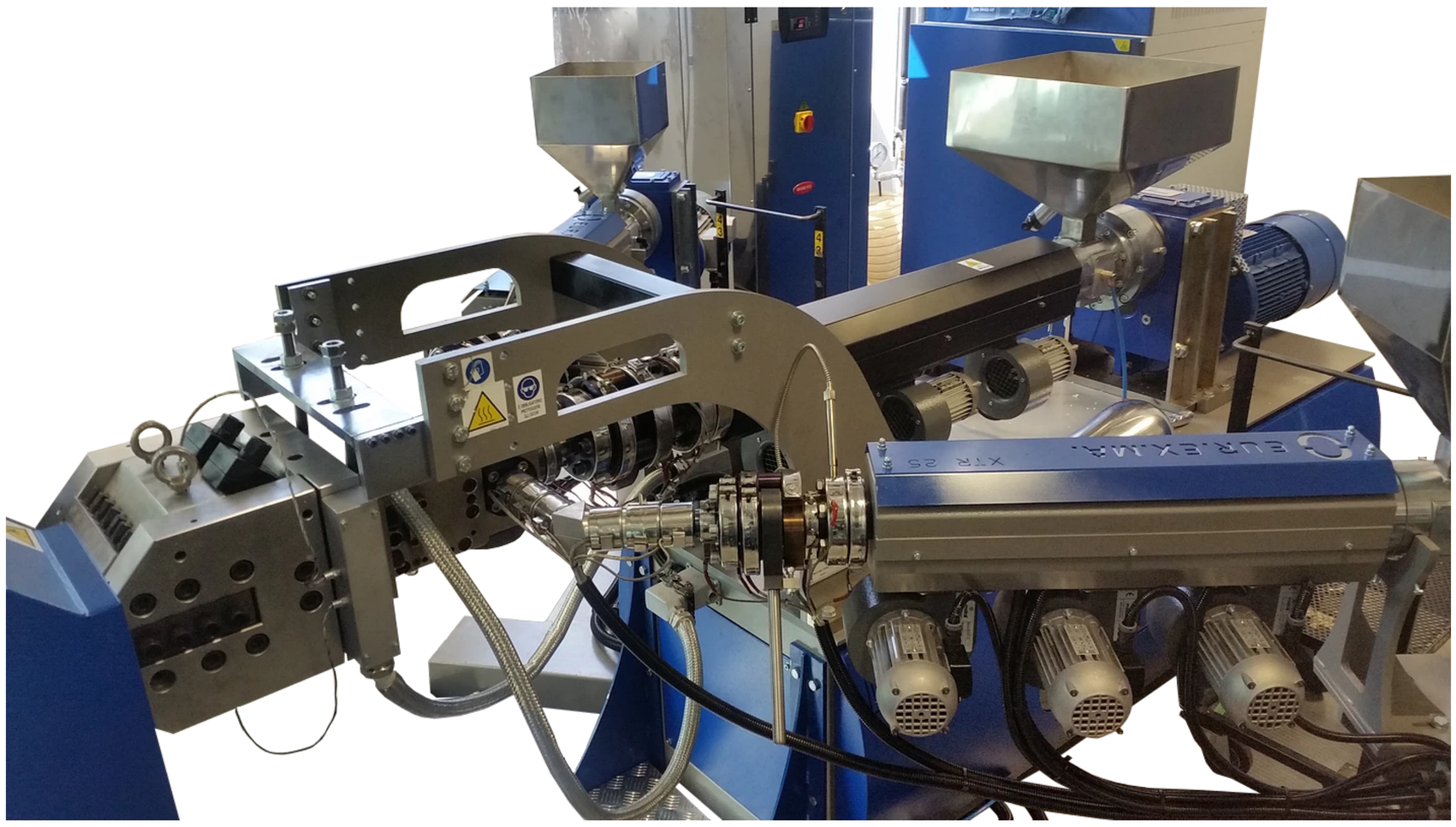
FOIL / SHEET

Multi-Layer Sheet Extrusion Lines



Model	Line Characteristics				Finished Product Characteristics	
	Screw Ø	Rolls Width	Thickness Range	Chill Roll	Processed Materials	Number of Layers
MiniFoil Coex 3	Any combination of 20/25/35 mm	200/350/500 mm	1 – 10 mm	2 or 3 rolls configuration	PE, PP, PA, PMMA, TPU, EVOH, EVA, ABS, PS, PC, Biopolymers	3
MiniFoil Coex 5						5

BLOWN FILM

Monolayer Blown Film Extrusion Lines

Model	Line Characteristics				Finished Product Characteristics	
	Screw Ø	Rolls Width	Thickness Range	Layflat	Processed Materials	Throughput
MicroEx Blown	17,5 mm	120 mm	20 - 100 µm	80 mm max	HDPE, LDPE, LLDPE, PP, PA, TPU, EVA, Biopolymers	1 kg/h max
D20	20 mm	250 mm	20 - 150 µm	80 - 150 mm		7 kg/h max
D25	25 mm	380 mm		330 mm max		10 kg/h max
D35	35 mm	450/600/ 800 mm		400/500/ 700 mm max		30 kg/h max

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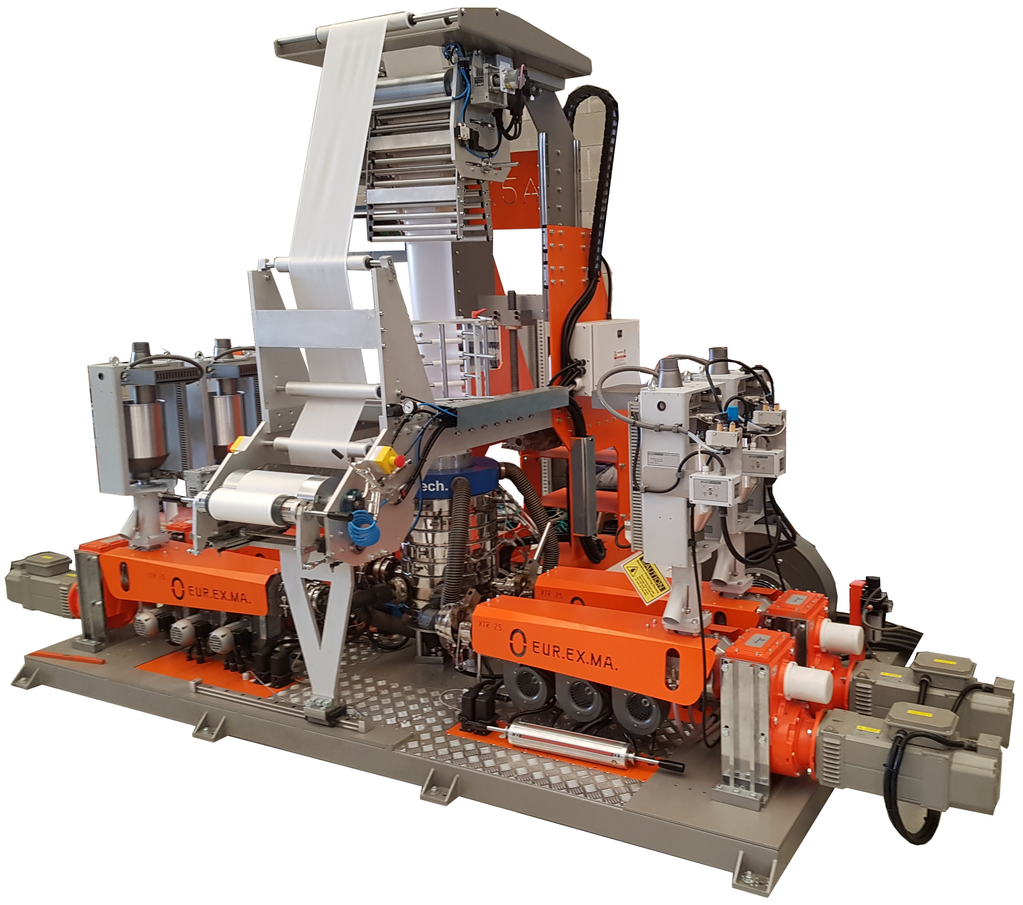
BLOWN FILM

Multi-Layer Blown Film Extrusion Lines



Model	Line Characteristics				Finished Product Characteristics	
	Screw Ø	Rolls Width	Thickness Range	Layflat	Processed Materials	Number of Layers
MicroEx Blown 3	17,5 mm	250 mm	20 - 150 µm	80 - 150 mm	PE, PP, EVA, PA, EVOH, TPU, Biopolymers	3
MicroEx Blown 5						5
K3A LAB	Any combination of 20/25 mm	380 mm	20 - 200 µm	100 - 330 mm		3
K5A LAB						5

BLOWN FILM

Multi-Layer Blown Film Extrusion Lines

Model	Line Characteristics				Finished Product Characteristics	
	Screw Ø	Rolls Width	Thickness Range	Layflat	Processed Materials	Number of Layers
K7A LAB	Any combination of 20/25 mm	380 mm	20 - 200 µm	100 - 350 mm	PE, PP, EVA, PA, EVOH, TPU, Biopolymers	Rotaging (on the same base of the winder)
K3A	Any combination of 20/25/35 mm	450/600/800 mm		450/600/800 mm		Fixed or Rotating
K5A						
K7A						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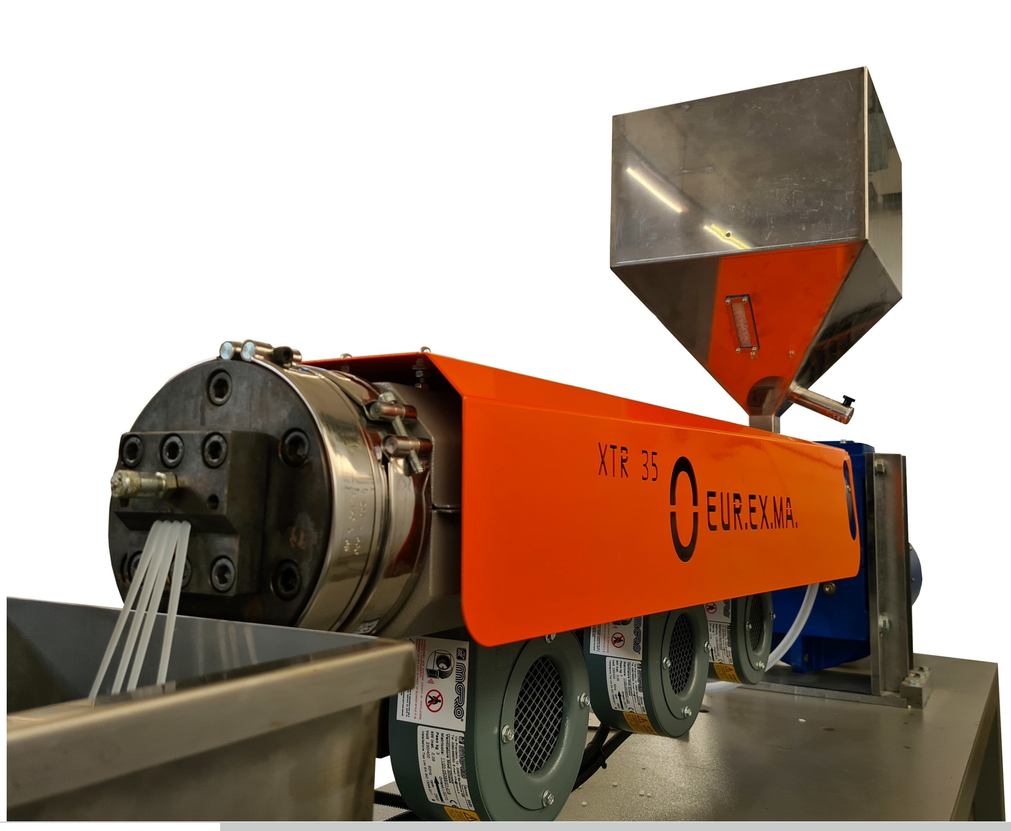
XTR 2

COMPOUND

Single Screw Extruders



Model	Line Characteristics		Finished Product Characteristics	
	Screw Ø	Setup	Processed Materials	Throughput
MicroEx CP	17,5 mm	Strand Pelletizer or Die Face Cutting	All polymers	1 kg/h max
XTR 20	20 mm			5 kg/h max
XTR 25	25 mm			12 kg/h max
XTR 35	35 mm			30 kg/h max

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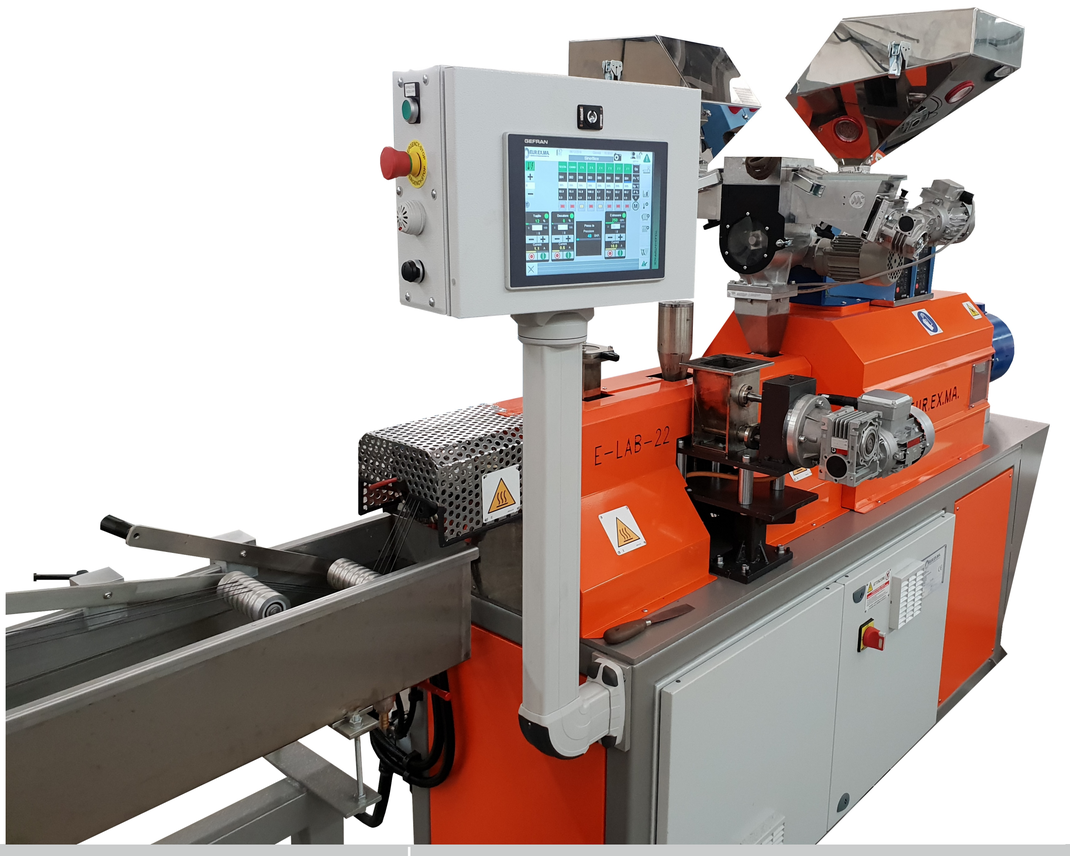
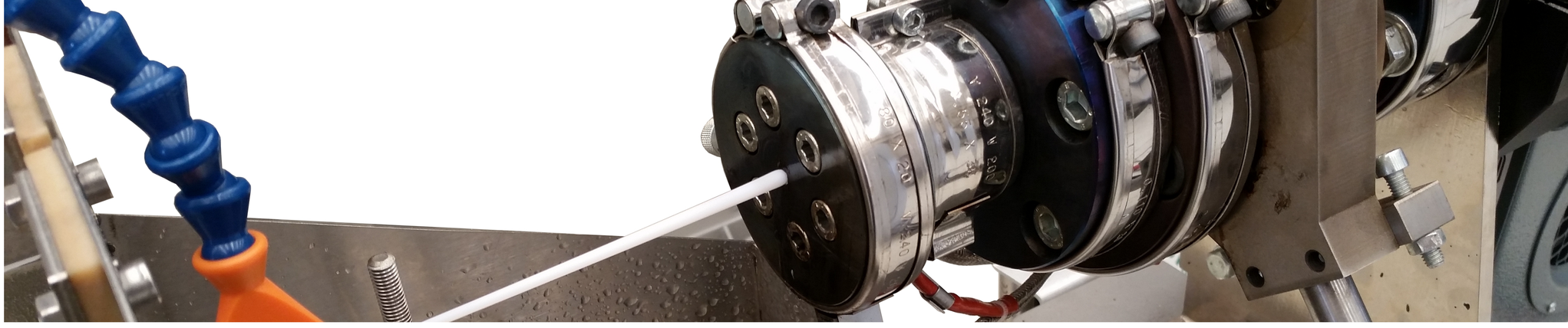
COMPOUND

Twin Screw Extruders



Model	Line Characteristics		Finished Product Characteristics	
	L/D	Setup	Processed Materials	Throughput
MicroEx CP Twin	40:1	Strand Pelletizer or Die Face Cutting	TPU, TPE, PA, PET, PE, PC, PMMA, PP (only powders)	1 kg/h max
E-Lab S	36:1 - 52:1		All polymers	15 kg/h max
E-Lab M				45 kg/h max
E-Lab L				80 kg/h max



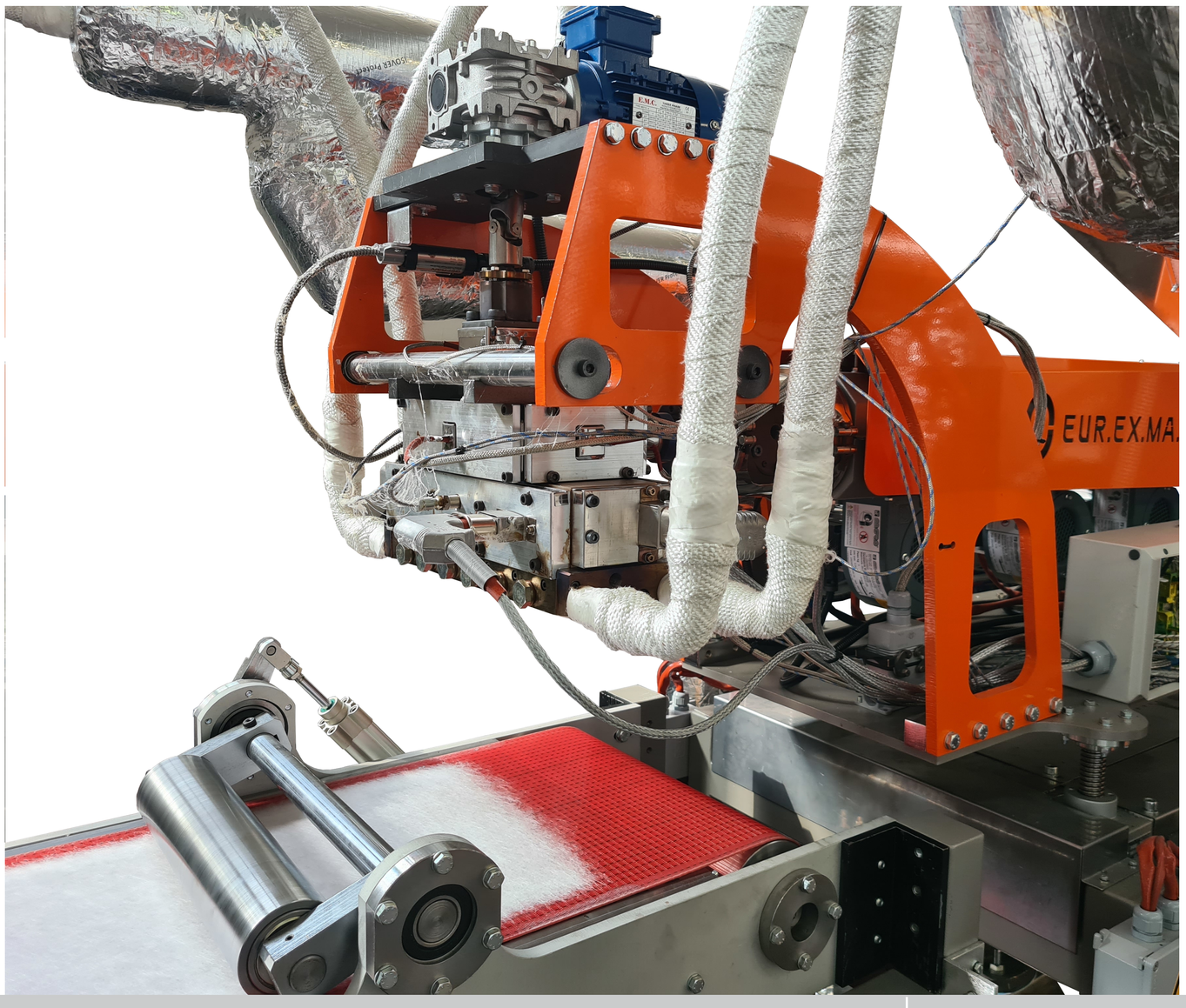
3D PRINTING FILAMENT

3D Filament Extrusion Lines

Model	Line Characteristics			Finished Product Characteristics	
	Screw Ø	Filament Ø	Cooling	Processed Materials	Throughput
MicroEx 3D	17,5 mm	1,75 mm	Air Cooled	ABS, PLA, PP, PMMA, TPU	1 kg/h max
MicroEx 3D Plus			Air and Water Cooled	ABS, PLA, PP, PMMA, TPU, Technopolymers	
MiniEx 3D	25 mm	1,75 - 2,85 mm			12 kg/h max

NONWOVEN

Nonwoven Fabric Extrusion Lines

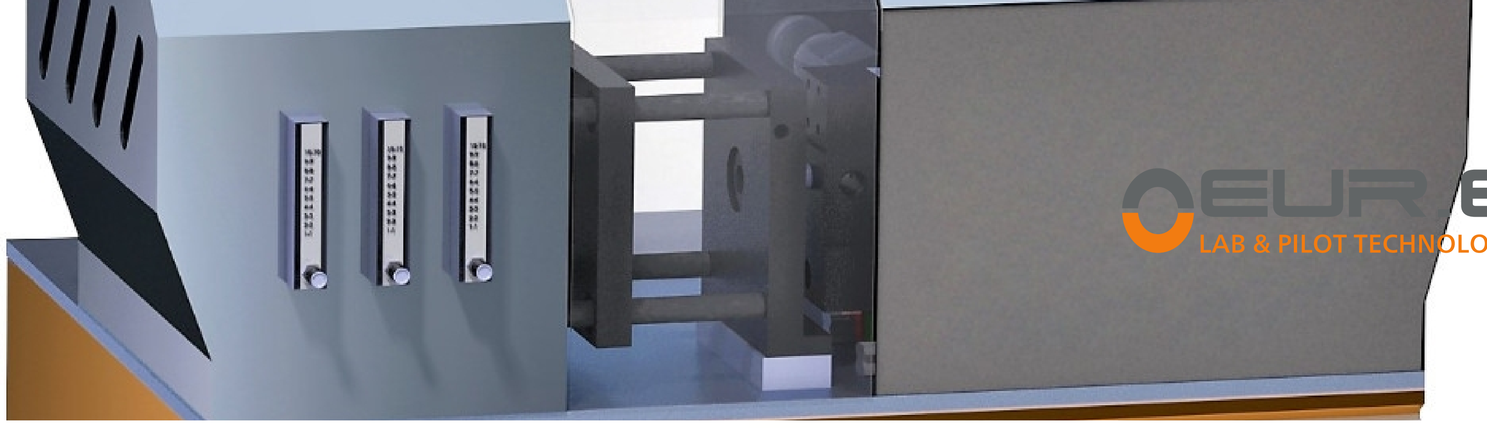


Model	Line Characteristics			Finished Product Characteristics	
	Screw Ø	Spinning die	g/m2	Finished Product	Throughput
MB 300	25 mm	300 mm	15 - 70	Meltblown in PP	8 kg/h max
SPB 300			15 - 100	Spunbond in PP	

MELT SPINNING

Spinning Extrusion Line

Model	Line Characteristics		Finished Product Characteristics	
	Screw Ø	Total power installed	Processed Materials	Throughput
MicroEx SP	17, 5 mm	3 kW	PP, PA, PET	1 kg/h max



INJECTION MOULDING

Electric Injection Moulding Line

Model	Line Characteristics			Finished Product Characteristics
	Injection Volume	Closing Strength	Total power installed	Processed Materials
Micro Mould	8 cm3	2 ton	3 kW	All polymers

ACCESSORIES AND PILOT PLANTS FOR SPECIAL PROJECTS

Stand Alone Auxiliary Lab Equipment

Model	Mini Mix 10
Type	High speed turbo mixer
Technical characteristics	Power: 2,2 kW Mixing vol.: 10 l

Model	DR1
Type	Drais / Batch mixer (high speed rotary blender and plastifier)
Technical characteristics	Batch weight: 50÷100 g Power: 4 kW Mixing vol.1 l Max Speed: 2800 rpm

Model	HP Press 150
Type	Hot plate pressing machine for lab foin & sheet samples production
Technical characteristics	Plate Size: 150 x 150 mm Force: 20 t Temp.: ≤ 400° C Configuration: 1 Pressing Chamber

Model	HP Press 400
Type	Hot plate pressing machine for lab foin & sheet samples production
Technical characteristics	Plate Size: 400 x 400 mm Force: 20 t Temp.: ≤ 400° C Configuration: 1 or 2 Pressing levels

Model	2-RS Test
Type	Two-rolls mill
Technical characteristics	Rolls width 350 mm Electric Heating

TW1
Standard or Coreless mandrel type Speed up to 80 m/min
Edge trim winder

Model	HSB 1
Type	High speed braiding machine for garden hose
Technical characteristics	6 + 6 /12 + 12 / 18+18 positions

Model	T50	T100
Type	Compound cutting system - Type strand	Compound cutting system - Type strand
Technical characteristics	50 kg/h	200 kg/h

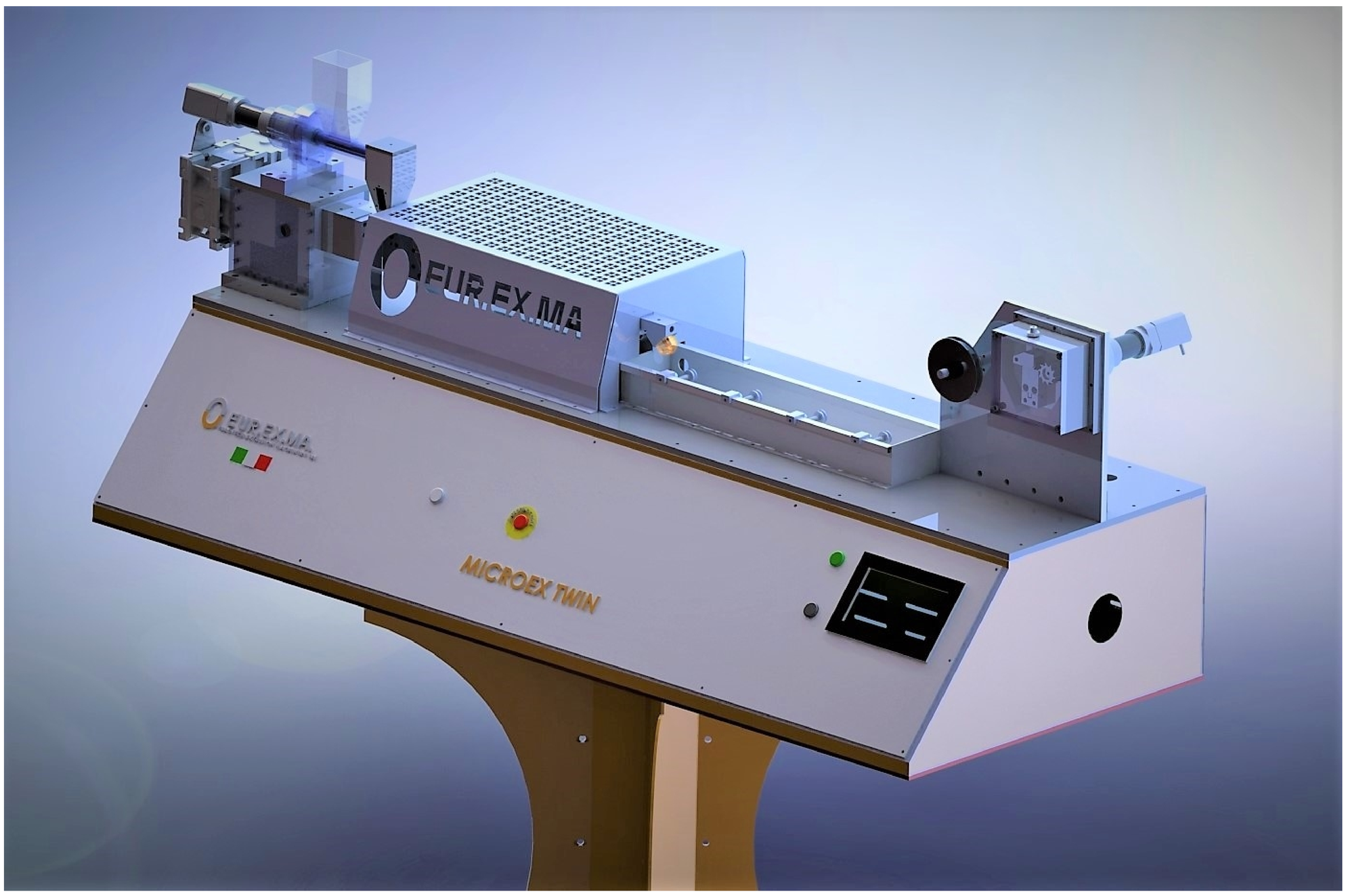
Model	Die Face Pelletizer
Type	Compound cutting & cooling system - Air cooled
Technical characteristics	5 kg/h

30 X 20 X 40
240 V 200

HIGH-QUALITY STANDARD AND TAILORED SOLUTIONS AND USER FRIENDLY HMI CONTROLS

Eurotech Extrusion Machinery Srl, during its 3 decades of activities, has achieved an outstanding expertise in the sector of Plastic Processing Technology, which enables it to satisfy a wide amount of specific customers needs with the most suitable and tailored solutions.
Our choice to industrialize our production portfolio has allowed us to achieve not only a higher rate of reliability and competitiveness on standard lines, but also to improve the design and the quality of the tailored equipment required by our customers.

All the Lab & Pilot equipments have INDUSTRY 4.0 easy interfaces with clients ERP and easily connected to remote service facilities by modern HMI panels.



EUR.EX.LAB Testing House - SHOWROOM

In our EUR.EX.LAB, a 600 mq Showroom, we have set up a dedicated area where you can test your materials on our Lab lines. Within our wet trials area and laboratory, there are various technologies on which you can perform various tests:

- Extruders (Masterbatch and Compound)
- Blown film (Monolayer and Multilayer)
- Cast Film (Monolayer)
- Foil
- 3D Printing Filament
- Injection Moulding
- Nonwoven
- Spinning

You will be supported by our expert technicians, who will advise you on the optimal solutions based on the type of application you wish to obtain.

To carry out the tests, you can take advantage of the laboratory with solutions designed for you.

CONTACTS

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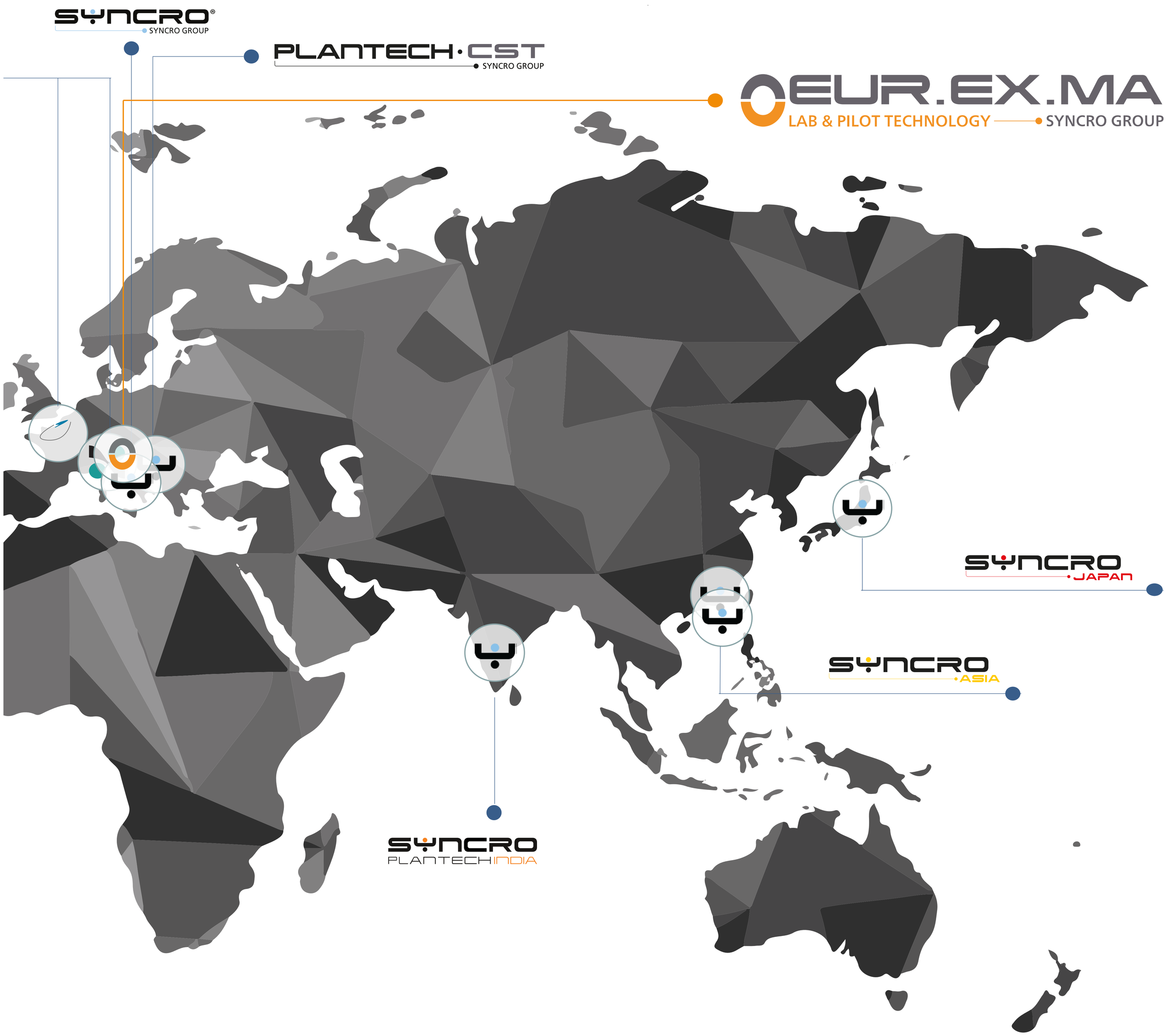
Tel.: +39 0331 827633

We are located just 20 minutes by car from the international airport of Milano Malpensa.

Through Syncro Group worldwide group branches and agents we are covering all the countries.

www.syncro-group.com



Headquarter and Production Site:
Via Salvator Allende, 7 - 21049 Tradate (VA) Italy

Production Site 2:
Via Mantova 1, 21049 Tradate (VA) Italy

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