

INVITATION LETTER



Dear Sir & Madam

Labtech Engineering will be joining the T-PLAS 2023: International Trade Fair for the Plastics and Rubber Industries this coming September 20-23, 2023 at BITEC Bangkok, Thailand.

We are pleased to invite you to join us! Our booth is conveniently located in the BITEC Hall at Booth #T15. To assist you in finding us, we have included a map of our location on the last page of this invitation letter.

Explore Labtech's innovative machines running at the show, alongside with our team who will be available to discuss your specific requirements and answer any questions you may have. Here's a sneak peek at the impressive lineup of our state-of-the-art machines that you can expect to see at the exhibition:

- ▶ Two-Roll Mill and Hydraulic Press Integrated with Amazing Lobot Color Matcher
- ▶ Mini Scientific 3 & 5 Layers Co-Extrusion Cast Film Line
- ▶ Mini Scientific 3 & 5 Layers Co-Extrusion Film Blowing Line
- ▶ Micro Scientific 16 mm Twin-Screw Compounding and Pelletizing Line
- ▶ Mini Scientific Melt Spinning Machine
- ▶ Mini Scientific Underwater Pelletizing Line

More information details of these machines are also provided on the following pages. So mark your calendars and visit our Booth #T15 at T-PLAS 2023 to explore the solutions for your polymer applications.

For more information about Labtech Engineering and our range of products, please visit our website or contact us directly. See you at T-PLAS 2023!

Yours Sincerely,

Peter Jurgensen

and all of us at Labtech Engineering



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www.labtechengineering.com

Two-Roll Mill and Hydraulic Press Integrated with **NEW** Amazing Lobot Color Matcher

Our Two-Roll Mill and Hydraulic Press Machines are integrated with the NEW Amazing Lobot Color Matcher. This setup allows for color matching and quality control of pigments mixed in an ABS stock. The Lobot starts by placing a plastic bag between the rolls of the Two-Roll Mill, melting the sample evenly. As the roller device moves horizontally, the sample becomes homogeneous. Then, the Lobot transfers the sample to a plate and inserts it into the Hydraulic Press. After the press cycle, the Lobot removes the mould and places it back to the table.

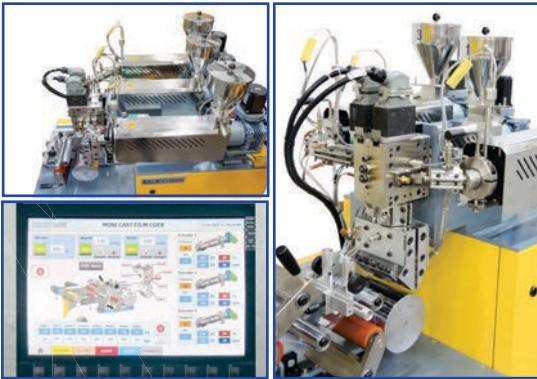


NEW Mini Scientific 3 & 5 Layers Co-Ex Cast Film Line



The NEW Mini Scientific 3 & 5 Layers Co-Ex Cast Film Line Type LMCR-150-COEX is a state-of-the-art machine that offers a streamlined innovation for delivering premium quality plastic films at an affordable cost. The Mini Cast Film Line is supplied with 3 units of 16 mm Single-Screw Extruders for producing 3 or 5 layers film extrusion. It is equipped with a 5-Layer Feedblock which can be configured to A-B-C or A-B-C-B-A film layer structure and can also be optionally equipped with a Weighing Hopper for precise feeding. With its compact design, this space-saving machine is ideal for labs and small operations with limited floor space and for those looking to experiment with new polymer formulations of films.

Mini Scientific Cast Film Line	Type LMCR-150-COEX
Chill Roll Width	150 mm
Chill Roll Diameter	Ø 145 mm
Max Processing Temperature	300°C
Max Film/Sheet Width	115 mm
Min Film Thickness (PE)	10 microns
Max Sheet Thickness	1.5 mm (others on request)
Dimensions (L x W x H)	1.7 m x 1.2 m x 1.4 m



NEW

Mini Scientific 3 & 5 Layers Co-Ex Film Blowing Line

Our NEW Mini Scientific 3 & 5 Layers Co-Ex Film Blowing Line Type LMF-200-COEX is a newly developed compact and cost-effective solution ideal for small to medium-sized businesses, academic institutions, and independent researchers. This line features our 16 mm Single-Screw Extruders, which can be optionally equipped with a Weighing Hopper for accurate feeding and a 5-Layer Pancake Die to accommodate development of new multilayer film compositions and evaluation of additives like colorants, fillers, and film performance inhibitors.



Mini Scientific Film Blowing Line	Type LMF-200-COEX
Max Film Layflat Width	180 mm
Standard Film Die Diameter (other sizes available upon request)	Ø 40 mm (giving a film diameter of 115mm)
Max Processing Temperature	300°C
Nip Roll Width	200 mm
Max Line Speed	15 m/min
Dimensions (L x W x H)	2.2 m x 1.5 m x 2.0 m



Micro Scientific 16 mm Twin-Screw Compounding and Pelletizing Line



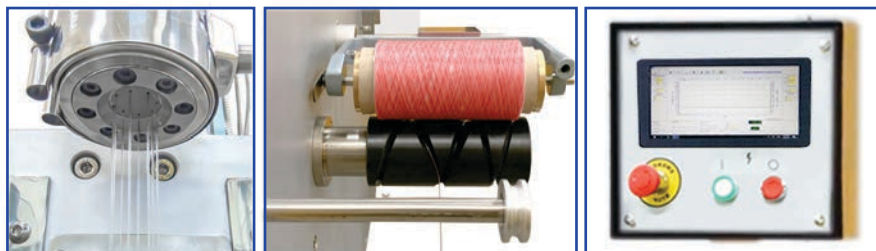
Our Compounding and Pelletizing Line features a 16 mm Twin-Screw Extruder with Electric Heating and Water Cooling and is equipped with a Side Feeder which can be utilized to incorporate additives and fillers into the main processing stream. The downstream units consist of a Water Bath and a Pelletizer both mounted in a single subcabinet to process the compounded materials into pellets. Its compact design makes it an excellent choice for laboratory-scale compounding and pelletizing operations where space is limited.



Micro Scientific 16 mm Twin-Screw Extruder Compounding and Pelletizing Line	
Max Screw Speed	800 RPM
Max Temperature	400°C
Max Output (LDPE)	5.4 kg/hr
Bath Capacity	40 L
Strand Feed Rate Range	2 to 36 m/min

NEW Mini Scientific Melt Spinning Line

The NEW Mini Scientific Melt Spinning Line Type LMSP-8 is a comprehensive solution for laboratory filament yarn extrusion. This compact and energy-efficient system enables quality testing of masterbatch color consistency and drives research in compound filament development at a minimized material consumption. Compatible with various polymers, including PET, PP, PA, and PLA, it produces high-quality filaments with a smooth surface, high tensile strength and flexibility.

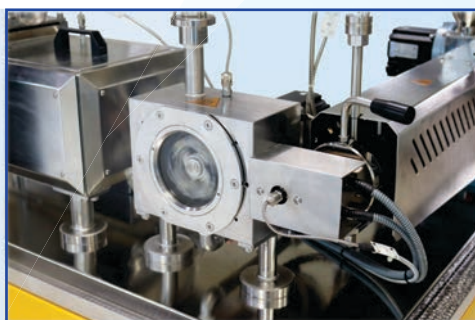


Mini Scientific Melt Spinning Line	LMSP-8
Maximum Capacity of Extruder	2.3 kg/hr
Spinneret Die	8 holes, Ø 0.3 mm
Max Godet Rollers Temperature	200°C
Max Wind-Up Speed	320 m/min
Dimensions (L x W x H)	1.4 m x 1.2 m x 2.2 m



NEW Mini Scientific Underwater Pelletizing Line

Our NEW Mini Scientific Underwater Pelletizing Line Type LMUP-5 is specifically designed to be cost-effective for market sampling and laboratory works, allowing for the production of raw materials, compounds, blends, and masterbatch in a minimized floor space. This line features fully immersed pellet cutting with a closed-loop water circulation system for clean production and contaminant-free output to achieve nice-shaped clear-cut pellets from all kinds of plastics, especially those with hydrophobic properties and medium to low melting indexes such as TPU, PP, PE, etc.



Mini Scientific Underwater Pelletizing Line	LMUP-5
Maximum Capacity (for PP)	2 kg/hr
Pelletizing Speed	10-3000 RPM
Die Plate	1 hole, Ø 3 mm
Max Heater Temperature	300°C
Max Centrifugal Impeller Speed	4000 RPM
Dimensions (L x W x H)	1.3 m x 1.2 m x 1.8 m



CONNECTED TO WIRE SEA / TUBE SEA / GIFA / METEC (HALL 103-104)



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LABTECH ENGINEERING CO., LTD.

**WE LOOK FORWARD
TO YOUR VISIT
IN OUR BOOTH T15**

Kitthanya Ritthichai
Technical Engineer



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