



# microex cast

## Benchtop Cast Film Extrusion Line for Quality Control

**MICROEX CAST** is the smallest version of the cast film lines, designed to produce small samples of film and test the quality control of polymers, compounds, masterbatches and recycled materials. Film samples can be used for mechanical properties testing, visual control of defects, processability of polymers and color matching.

### OPERATING PRINCIPLE

Thanks to the 17,5 mm Ø microex extruder with a conical screw, this line can process standard granules or powders using small batches of material (300g) replicating the efficiency of a standard-size extruder.

The flat die lips, together with the haul-off unit and the variable speed of the extruder, allows a high personalization of the film. The brushless servo motor and its reducer guarantee precise control of the speed adjusting quickly to any variation.



### MAIN FEATURES

#### MATERIAL COMPATIBILITY

Compatibility with a wide variety of polymers, virgin and recycled, with standard granules size.

#### LAB DESIGN EXTRUDER SCREW 17,5 mm Ø

The conical design of the microex special screw allows the processing of small batches of material with low waste delivering high quality results.

#### DIE CONFIGURATION

The chrome plated Flat T-Die guarantees a constant and uniform flow of melted polymer.

#### CUSTOMIZABLE FILM

Thanks to the combined work of the haul-off unit and the BL servo motor with its reducer, the line achieves the desired width and thickness. Equipped with a single shaft winder driven by a torque motor for the collection of the film reel.

#### HIGH-QUALITY COMPONENTS

Equipped with high-quality mechanical and electrical components, Microex Cast can work 24/7

#### LOW ENERGY CONSUMPTION

Plug & Play designed, the machine works with single-phase industrial plugs or standard 240V home plugs, with a consumption of less than 3 KW

#### EASY EXTRACTION & CLEANING

The particular design of the screw makes cleaning and maintenance easier so as to be always ready-to-use in less than 5 minutes.

#### TOUCH SCREEN CONTROL PANEL

Visualization of temperature control for each zone on dedicated pages. Led indication of the motors status with protection alarms. USB ports to save and export process data.

#### SIMPLE TO USE

Extremely user-friendly line, manageable by a single person with only a few steps and ready-to-use in less than 10 minutes.

**TECHNICAL DATA**

TECHNICAL SPECIFICATION	MICROEX CAST
	monolayer
Screw Ø	17,5 mm - special lab design
Layflat Max	100 mm
Thickness Range	20 - 800 µm
Throughput Max	1 kg/h
Chill Rolls	1

**TECHNICAL DRAWINGS / LAYOUT**

