



# microex CP

## Benchtop Compound Film Extrusion Line for Quality Control

**MICROEX CP** is the smallest version of the single-screw compounding lines, designed to test different formulations of compounds. This model allows the quality control of recycled materials, color masterbatches, additives and biopolymers with low waste and energy consumption.

### 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 machine is available in two versions. The first is composed of a water tank and a strand pelletizer while the second features an underwater die face cutting unit. Each configuration is designed to guarantee precise control of the temperatures and a better process quality.



### MAIN FEATURES

#### MATERIAL COMPATIBILITY

Compatibility with all materials typically used for compound such as PE, PP, PA, EVA, and Biopolymers 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.

#### UNDERWATER DIE FACE CUTTING

MICROEX CP can be equipped with an underwater die face cutter, a water pump, and a dryer. This system is designed to cool down pellets and drag them to the collection point.

#### HIGH-QUALITY COMPONENTS

Equipped with high-quality mechanical and electrical components, Microex CP 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 CP
	single-screw
Screw Ø	17,5 mm - special lab design
Input Material Form	granules
Processed Materials	TPU, TPE, PA, PET, PE, PC, PMMA, PP
Throughput Max	1 kg/h

## TECHNICAL DRAWINGS / LAYOUT

