

# MICROEX SP

## Benchtop Melt Spinning Extrusion Line

### OPERATING PRINCIPLE

**Microex SP** is a benchtop line projected to produce samples of continuous filament and Full-Drawn-Yarn, that can be used to test several kinds of fibers. The line, composed of a Microex extruder of 17,5 mm Ø, can be used to perform tests with very small amounts of materials and energy consumption



### MAIN FEATURES

Microex SP is capable to process all the standard materials typically used to create fibers, such as PP, PA or PET.

Its special screw design allows to use standard commercial pellets and the screw extraction system permits the disassembling of the screw in less than 5 minutes, accelerating the cleaning and maintenance operations.

The line is also composed of a melt pump, a special die in alloy steel characterized by 40 holes of 0,4 mm Ø each, a cooling channel, an ensimage unit, 2 godets, an interlacing jet and a winding unit, to allow the collection of the filament.

Plug and play designed, the machine works with single phase industrial plug or standard 240V home plug, with a consumption of less than 3 KW.

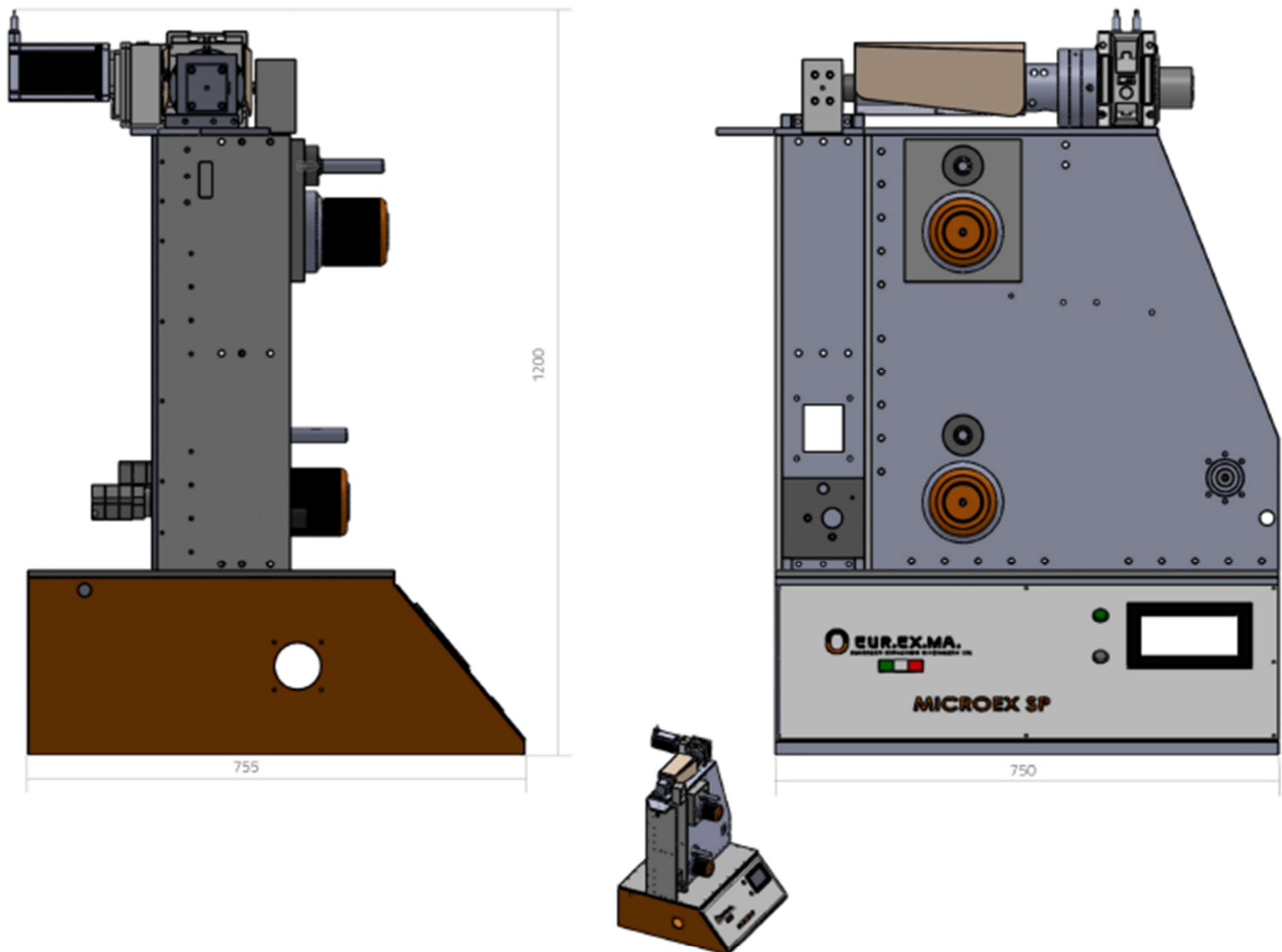
An extremely user friendly control panel allows to save and export process data on external USB memory.

The control panel can also be upgraded with a software that, thanks to the presence of a melt pump in the line, allows to perform filter test.

This test is widely used for compound and masterbatches in the fiber market, as ISO and ASTM standards require.

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## TECHNICAL DATA



Screw Ø	17,5 mm – special lab design
Throughput	1 Kg/h max.
Filament DEN	100-250 Dtex
Cooling System	Air Cooled
Total Installed Power	3 KW, 240 V single phase