



MICROEX 3D

Benchtop 3D Filament Extrusion Line

OPERATING PRINCIPLE

Microex 3D is a benchtop line projected for small scale production of filament for 3D printers. Characterized by a 17,5 Ø mm Microex extruder, it can also be used to test the characteristics and formulations of different materials in the production of 3D filament before sending them to serial production



MAIN FEATURES

Microex 3D has been projected to process the standard materials used for the production of 3D filament, such as ABS, PLA, PP, PMMA and TPU.

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

The line is also composed of a calibration die, a cooling chamber, a haul-off unit, a winding unit to collect the 3D filament and a 7" Touch Screen control panel.

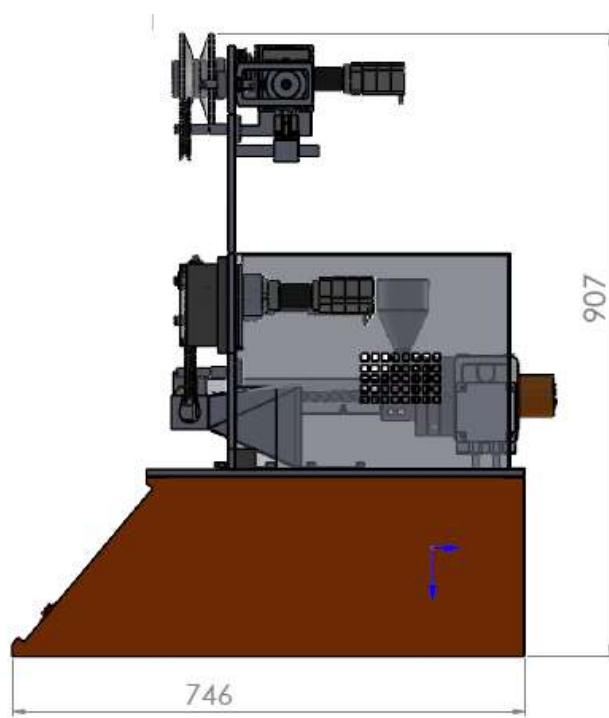
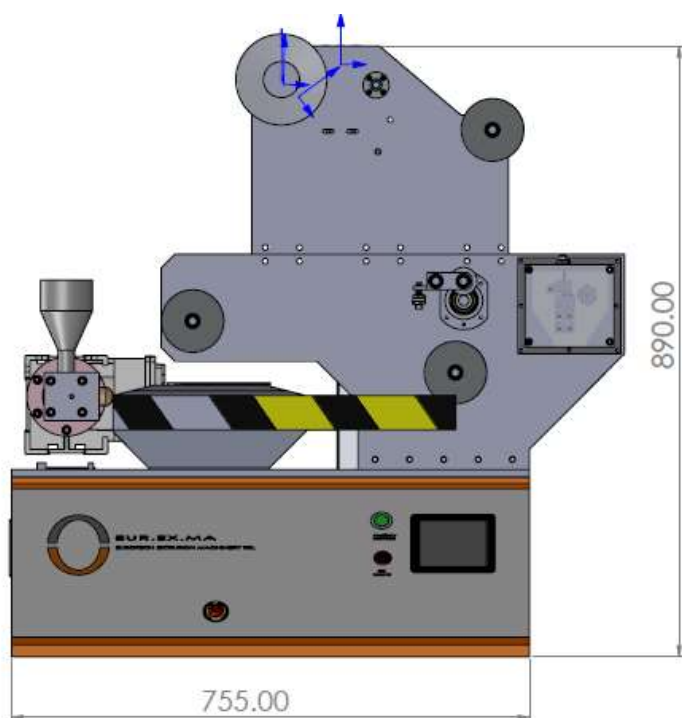
Plug and play designed, the machine works with single phase industrial plug or standard 240V home plug, with a consumption of less than 3 KW. Microex 3D is easy to interface with an ERP or production management software with integration via Industry 4.0.

The calibration die is projected to produce filament with a Ø of 1,75 mm, suitable and ready to be processed in all the standard 3D printers.

The machine can also be equipped with an additional strand pelletizer to use the machine as a single screw granulation line.

• MICROEX 3D

TECHNICAL DATA



Screw Ø	17,5 mm – special lab design
Throughput	1 Kg/h max.
Filament Ø	1,75 mm
Cooling System	Air Cooled
Total Installed Power	3 KW, 240 V single phase