

# MACCHINE SPECIALI SRL

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This project has received funding from the European Union's Horizon 2020 research and innovation programme under Grant Agreement N.710279



rif. 8.0000.13

## ProPapp New PTFE Production Process for High Value Applications **EXTRUDER PRESS**

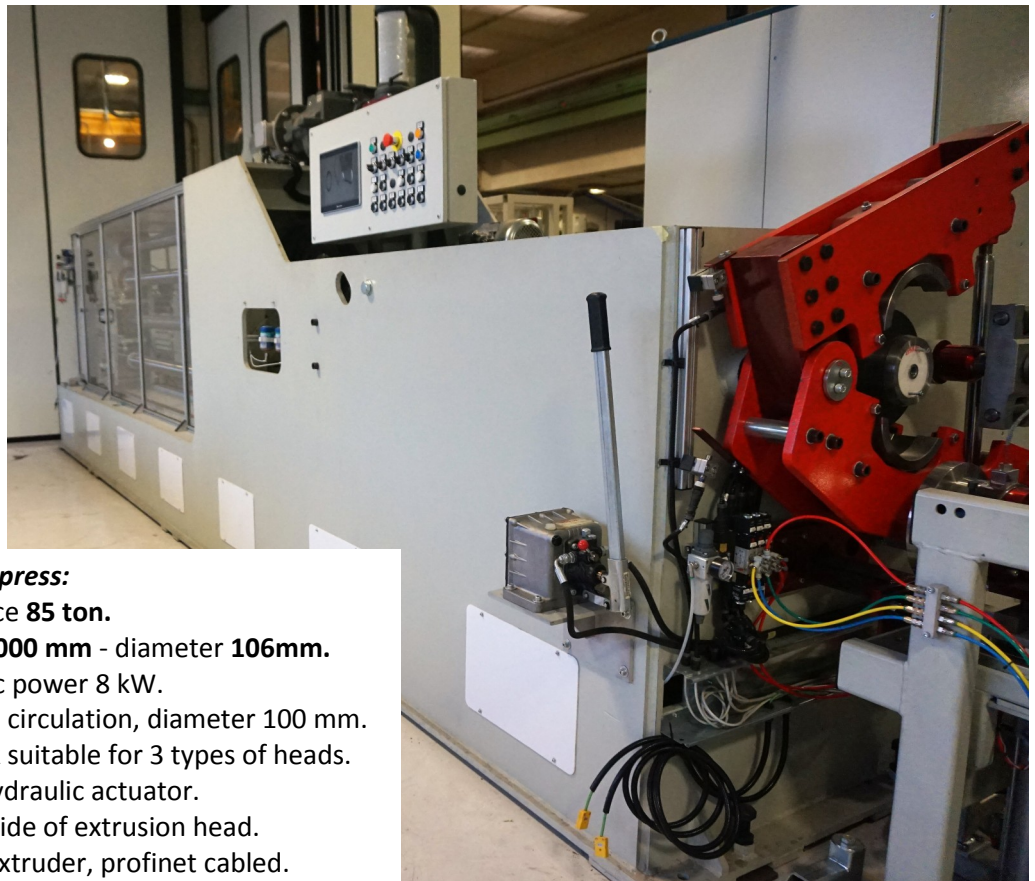
The ram extruder is the place where the structure of the powder PTFE undergoes the first transformation, in fact, in this phase, it will create the biaxially oriented raw base profile. The type of the extrusion press is horizontal and is powered in alternating cycle by a speed reducer with a ratio 1:125 power 4 kw for the slow forward gear and one motor of 2 kw for the fast reverse gear (loading point).

The mechanical structure of the press has been designed for 85 ton. The actuators consist in two screw, with sphere circulation, with a diameter of 100 mm. In order to provide more safety the pulling shaft has a load cell that for monitoring the thrust to which PTFE is receiving during the extrusion and the technological process.

Anyway the encoder is the reference station that will talk with the line to guarantee the necessary re-rotation for the synchronism of the line that will be a looping cycle.

The above mentioned equipment will guarantee a regular feed at every condition of speed and pressure.

Around the extruder jacket is located an electric resistance in order to guarantee a thermostabilization on the product. The temperature is settable from PLC (from 30°C to 40°C)



### ***Main characteristics of the press:***

- Maximum pulling force **85 ton.**
- Pulling shaft length **3000 mm** - diameter **106mm.**
- Total installed electric power 8 kW.
- 2 screws, with sphere circulation, diameter 100 mm.
- Mechanical head lock suitable for 3 types of heads.
- Head operating via hydraulic actuator.
- Control panel at the side of extrusion head.
- Main cabinet of the extruder, profinet cabled.

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