



**Morandi S.r.l.**

Via Dogane, 10  
25036 - Palazzolo sull'Oglio (BS) - Italia  
C.F. 02062570177  
P. IVA 00679430983

[www.morandisrl.it](http://www.morandisrl.it)

## COMPLETE LINE FOR UNSINTERED PTFE TAPES

### 1 - Sifter machine



The machine is used to properly mix powder and additives, in order to obtain, after a certain period, a perfectly mixed with a pastry consistency product, ready for the next steps. During processing the container oscillates vertically in order to mix the components in the best possible way.



Telephone number +39 030 7435300  
Fax +39 030 7435310



Commercial office: [info@morandisrl.it](mailto:info@morandisrl.it)  
Technical office: [tecnico1@morandisrl.it](mailto:tecnico1@morandisrl.it)



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## 2 - Oven for stabilisation



After the previous process, this machine stabilises PTFE molecules in order to optimize the characteristics of the material, making it suitable for subsequent processing.

## 3 - Preform making machine



This machine compacts powder and additives blend; in this way the result is a cylinder corresponding to the desired size, suitable to be transformed during the next extrusion processes.



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## 4 - Vertical/horizontal extruder



The machine extrudes the product obtained from the preform making machine and in that way it gives to the product the desired shape according to **spinneret**. A vertical or horizontal arrangement of the machine can be chosen according to the **overall dimensions**.



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## 5 - Calendering machine



The machine laminates the product obtained by extrusion, if it is necessary to obtain a film of **desired thickness**. The machine is electronically controlled **in C.A. with vector inverters**.

## 6 - Drying oven



The machine removes additives and oils from the product (they can be **recycled**). It can work individually with **speed control**, or in line with a calender machine (**with torque control**). The heating technology is obtained through the use of the "**infrared**" system.



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## 7 - Straightening oven



The product obtained needs further heat treatment, before going on to the following phases. This treatment is aimed at stabilizing its final properties, also allowing a **reduction in thickness**. The product obtained can be **12 times longer** than it was at the beginning. The ironing control is electronic and the heating technology is "**infrared**". This machine is also used to obtain tapes and monoaxial E-PTFE (expanded PTFE).



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## 8.1 - Manual cutting machine F260/280



This is the **latest machine** on the production line. The manual cutter unwinds the tape that has been previously wound on the reel; the tape, through the use of special blades, will be cut into strips of the **desired width** and then they are wound onto rolls. Once the meter is reached, an empty carrier substitutes the ones full of rolls, so that the operator can continue in unloading and loading operations **without stopping production.**



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## *8.2 - Automatic cutter*



The machine performs the same operations described in the previous point in an **automatic way: cutting, wrapping and packaging**

## *PTFE pipes corrugation machine*



This automatic machine corrugate **thin-walled pipes**. It is capable of corrugating pipes with 1" maximum diameter.



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## *PTFE ring cutting machine*



This PTFE rings cutting machine has the possibility to vary the cutting angle, as shown in the figure. The machine is automatically powered by screw vibrators and can work with rings with a **maximum diameter of 60mm.**



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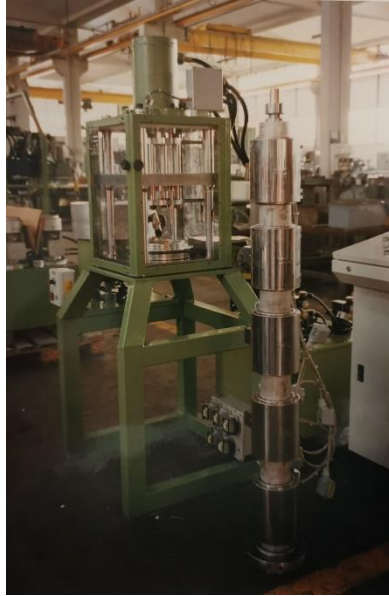


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## *Pipes and PTFE rods extruder*



This machine can produce thick PTFE pipes and solid rods.



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