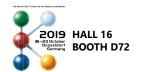
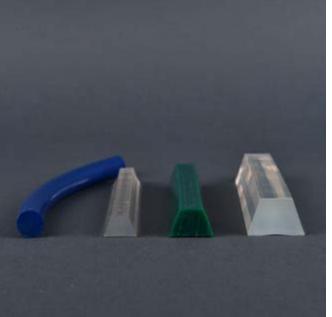


CASE HISTORY

OF PU PROFILES, PIPES AND RODS









Friul Filiere has carried out complete Turn-Key projects for the production of PU profiles and pipes. The Polyurethane (PU) is a material with extreme chemical characteristics so that products made in PU are highly abrasion and wear-resistant, ideal for all applications in which they are stressed and are likely to wear-out rapidly. The same chemical characteristics make its processing so complicated. Traditionally it has always been used the casting process because the extrusion was considered almost impossible. In fact, extruding the PU creates considerable calibration difficulties but mostly flow process. The PU is a delicate and extremely sensitive material. Up to now, the PU products have always been produced through the long and complicated casting process which gives often defective product. The solidified profile is not compact because the cooled material is not homogeneous, due to air bubbles inside. This defect considerably reduces the abrasion resistance performance of the profile, compromising its own and important characteristic.

Friul Filiere has found the solution to produce extruded PU pipes and profiles in-line, making possible a more highly production process but also allowing to get compact profiles and performing in their application. This was possible thanks to Friul Filiere's technology: Omega extrusion line consisting of a 60 single screw extruder and Evolution downstream, but mainly to a dedicated tooling. Special measures in the flow distribution techniques allow a controlled issue of the material that must be guided by a perfectly balanced thrust in a constant and homogeneous way, so as to ensure a perfect calibration without problems.

NAME

TURN KEY PROJECT FOR
THE PRODUCTION OF PU PROFILES,
PIPES AND RODS

SECTOR

CONVEYOR BELT, COMPRESSED AIR AND INDUSTRIAL PLANT

TYPOLOGY

GUIDES AND PIPES

MATERIAL

ΡU

PECULIAR FEATURES

RESISTANCE TO ABRASION AND WEAR

Friul Filiere has developed a very **special vacuum calibration system** for the management of complex and extreme materials like PA and PU and able to give us a result smooth surfaces and sections that meet the minimum dimensional tolerances.

- SPECIAL COOLING SYSTEM
- HIGH PRODUCTIVITY
- HIGH QUALITY PROFILES AND PIPES

