

Single calender extrusion expertise for the production of waterproofing membranes



(Novara, Italy – 15 April 2021) - Since its establishment in 1958, AMUT has developed a strict cooperation with clients, focusing on their needs and developing custom-engineered solutions, to respond adequately to each specific project requirement. A customer centric philosophy which has been applied to all its business units with no exception. In the extrusion domain dedicated to thermoplastic PVC and TPO, single or



multilayer waterproofing membranes, this proactive approach coupled with our advanced technical know-how has allowed to design different tailor-made turn-key plants with either Double or Single Calender. Such diversified systems may reach an overall production up to 15 million sq. m. and 8 million sq. m. of high quality membrane per year, respectively. The Single Calender system is the result of the technological innovation conducted in over 40 years of experience, which led our group to be the only provider in the world.

This configuration allows to produce in one single step a co-extruded 3-layer membrane, adding the inner reinforcement (polyester, polypropylene, fiberglass) and the fleeceback scrim bonding for support. The end product is a finished membrane composed of up to five materials/layers coupled in a single step, offering to end-users a completely different proposal from those currently available on the market.

The Single Calender achievement was obtained thanks to constant studies and research in the extrusion process applied to sheets and rolls in thermoplastic material. Our state-of the-art Single Calender Line combined with a reliable extrusion and laminating technology, allows AMUT to offer a diversified membranes production, minimizing the costs associated with two or three steps processing, material change and machine purging.

Our high efficiency extrusion lines are fully automatic, to optimize the production cycle. In particular, a well proven control software, designed and developed in-house, thanks to the long-term experience and coordination between our technological department and our electronic specialists, gives several supports to customer's operators. A typical example is the automatic ramp procedure where the line is started at low speed to reduce the waste production during the machine setup and then, by a simple input of ramp parameters, the line is automatically speeded-up at the targeted production. The whole management of all operation and control parameters makes the line ready for Industry 4.0 with relevant benefits in terms of quality control and global integration with our Customers' production data base. Moreover, the lines are equipped with automatic packing system for the rolls produced and features technology for dimensional control of the product and visual surface inspection, with detection of any aesthetic effects. An automatic process for direct in-line dosing of raw materials and flame retardant additives that will be directly processed and extruded by the AMUT line, is also included in the plant.

About AMUT

AMUT, established in 1958, is a global plastic processing, recycling and waste sorting & recovery systems designer and manufacturer. Over the years the company has evolved considerably and become a group providing customers with an increasingly extensive range of high quality Extrusion, Thermoforming, Recycling, Flexo Printing and Converting machinery, lines, turn-key plants and related Services. The world Headquarters and production facility is AMUT S.p.A. which is located in Novara (Italy). Candelù (Italy) and Vigevano (Italy), complete the manufacturing sites. Operating globally, the group's offices and customer service centers are strategically located in U.S.A., Canada and South East Asia. This international presence is further enhanced through an efficient worldwide agent network. Learn more at www.amutgroup.com