



Project MULTILAYER

Development of new types of multilayer yarns made of different fibres and development of a new spinning production process

Coordinator

Marchi & Fildi SpA

Partners

Caipo Automazione Industriale Srl
Famas Srl
Tessitura Pertile Snc

Project objectives

Development of an innovative yarn, in which each fibre layer has its own structure (different quality and chemical-physical characteristics), in order to obtain yarns/fabrics with different characteristics. This process could be used in all the textile sectors in any type of spinning process.

Abstract

A new spinning multilayer process was developed. It allows to design the structure of yarns, with different fibres, specifically positioned, by using a one-step production process. Core and surface are based on spun fibre (not filament).

The main activities performed are:

- design and realisation of an innovative multilayer coaxial SPINNING MACHINERY
- realisation of YARNS for technical sector (Para Aramidic core and Meta Aramidic surface; Para Aramidic core and Cotton/Viscose surface) and for fashion sector (Polyester core and Wool surface; Poliester core and Tencel/Trilobal Nylon surface; Para Aramidic core and Tencel/Trilobal Nylon surface; Wool core and Nylon/Viscose surface; Dyne-ma core and Wool/Acrylic surface)
- realization of several types of FABRICS, that could be used in technical and fashion sectors

The fabrics realized with this technology can be used in several sectors: clothing, furnishing, protective garment and sportswear, medical, automotive...



Project for the development of cooperative innovation

INFO

polo.tessile@cittastudi.org
linguino@marchifildi.com



Città Studi
BIELLA



Progetto cofinanziato dall'Unione Europea,
dal Ministero dell'Economia e delle Finanze e dalla Regione Piemonte