

# SPIN (Study of advanced control algorithms for positive yarn feeders)



The Regional Operational Program of the European Fund for Regional Development 2014-2020 of the Lombardy Region makes available, for investments, about one billion euros, identifying as a priority objective that of economic, productive and social growth of the territory and of the regional productive sector.

**L.G.L. Electronics S.p.A.** is a beneficiary of the project on axis 1 "Strengthening research, technological development and innovation".

*Project description: The control algorithms currently used in positive yarn feeders, used on knitting machines, are based on architectures that have some disadvantages (need for calibration of the control parameters for each type of yarn and modest performance in certain working conditions). The SPIN project will develop an advanced control system that overcomes current limits, making the algorithm self-adaptive respect to working conditions, and increasing performance in critical working conditions.*



**EUROPEAN UNION**  
European Structural and Investment Fund



Regione  
Lombardia

