



High-Coat

High-Performance Coatings for Milling and Turning Tools

Duration of Project: 2-3 Years

Project partners: LAFER S.P.A, Italy (end user), PLATIT AG, Switzerland (Coating process), OST, Eastern Switzerland University of Applied Sciences, (Machining), University Modena, Italy, (Laboratory test)

Objective: The objective project is to develop and implement advanced PVD (Physical Vapor Deposition) coatings for milling and turning tools to enhance machining productivity of titanium and nickel based alloys. By improving wear resistance, thermal stability, and tool lifespan, the project aims to reduce production costs, increase efficiency, and promote sustainable manufacturing in the metalworking industry.

Short discription: This project focuses on the development of innovative PVD coatings for milling and turning tools to enhance machining performance. Through advanced material research and coating technologies, the project will optimize cutting tool properties such as hardness, friction, and heat and wear resistance. The goal is to achieve higher cutting speeds, longer tool life, and improved surface quality while reducing tool wear and energy consumption. Collaboration between industry partners, research institutions, tool and coating technology manufacturer as well as end-users will ensure practical application and rapid adoption in industrial manufacturing.

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