TINALTA

An optimized product-process combination for coating machining tools with a trimetallic nitride.

Hard coatings help reduce overall machining costs. Currently, 85% of cemented carbide tools are coated. The industry is moving towards higher cutting speeds and reduced or eliminated use of cutting fluids for both economic and environmental reasons.
However, these trends inevitably lead to increased stresses at the tool-workpiece interface, including a significant rise in temperature.
The objective of this project is to develop a cutting tool coating capable of withstanding the demanding conditions associated with very high cutting speeds and dry machining, without the need for lubrication.

Start and end date: 01/2019 – 06/2022
Convention 1910092

Project partners		Financing body	Amount (€)
Innovative Coating Solutions SA		Part privée directe Part privée indirecte	22 000€ 22 000 €
UNamur		RW Part privée	433.787,20€ N/A