Project	APPLICATION OF RAPID MANUFACTURING TECHNOLOGIES IN
name:	MODERN PRODUCTION PROCESSES, USED IN METALFORMING,
	ASSEMBLY, AND JOINING OF SUBCOMPONENTS AND FINISHED
	PRODUCTS
	(SBPIP-2023)
Description:	The purpose of the project is to investigate the possibility of applying modern
	technologies for the production of tools used in the processes of reshaping
	and joining materials. Modern technologies include rapid production of
	products, application of ultrasonic technology in metal forming, application
	of modern commercial (standardized) tool elements in the construction of
	new tools for positioning, shaping or joining materials.
	Modern modular tools offer the possibility of quick adaptation of the
	production program, which is reflected in the shorter production preparation
	time. Rapid product manufacturing shortens manufacturing time of modular
	tool segments, and small batch testing before determination of the optimal
Wahnaga	operating parameters, of the tool parts that are not standardized.
Source of	University of Slavenski Drod
finances:	
Beneficiary:	University of Slavonski Brod
Partners:	
Project	2.650,00 EUR
budget:	
Duration:	1.10.2023-30.9.2024
	*with possibility of duration prolongation for subsequent 12 month, which
	is dependant on the project review by the University Senate
Location:	Slavonski Brod, Zagreb
Target	University of Slavonski Brod (UNISB), Mechanical engineering faculty in
groups:	Slavonski Brod (MEFSB), metal processing companies located in the
	"Duro Daković" production complex, and small production companies
	located in the vicinity of the Slavonski Brod city.
Objectives:	The goals of the project include:
	A) Examining possibility of application of the rapid production
	technologies, for the production of tools.
	B) Laboratory testing of the modern materials
	C) Measurement of stress and residual stress using the strain gauge
	method in the tool and/or product
	D) Examining the possibility of joining similar or dissimilar materials
	E) Examining the negatibility of outting materials with modern tools
	E) Examining the possibility of enduing materials with modern tools E) Examination of the possibility of applying anti-corresive coatings
	and the realized properties of the coating
	G) Experiment planning and statistical processing of results. Creation
	of scientific and professional papers based on research results and
	publishing them in scientific journals (WoSCC, SCOPUS) and
	conferences with international review.
	Expected results:
	B1) Creation of verified and optimized production parameters for modern
	production processes and materials

B2) Publication of results in scientific journals
B3) Participation in scientific conferences with international review
B4) Transfer of "know-how" knowledge to production companies in the
surrounding area through cooperation on final and graduate theses with
students