



EUROPEAN UNION



GOVERNMENT OF ROMANIA



SERBIAN GOVERNMENT



Structural Funds
2007-2013



Romania - Republic of Serbia IPA Cross-border Cooperation Programme

Pole of Collaboration in New Functional Alloys POCAL



Romania-Serbia

Common borders. Common solutions.



EUROPEAN UNION



GOVERNMENT OF ROMANIA



SERBIAN GOVERNMENT



Structural Funds
2007-2013



Romania - Republic of Serbia IPA Cross-border Cooperation Programme

THE METHODS FOR SHAPE MEMORY ALLOYS PRODUCTION

R.Todorović, A.Kostov, A.Milosavljević,
Z.Stanojević - Šimšić



Romania-Serbia

Common borders. Common solutions.



EUROPEAN UNION



GOVERNMENT OF ROMANIA



SERBIAN GOVERNMENT



Structural Funds
2007-2013



Shape memory alloys have wide application area. Production technology and final treatment depends on the composition of the alloy . The alloys which can be plastically deformed are produced as ingots. In that case casting can be done in molds or with Up-cast method. The procedure for obtaining wires by Up-cast method is the most economical procedure regarding energy efficiency.



Romania-Serbia

Common borders. Common solutions.



EUROPEAN UNION



GOVERNMENT OF ROMANIA



SERBIAN GOVERNMENT



Structural Funds
2007-2013



The alloys which can not be obtained by melting are in the form of powders and therefore sintered in furnaces for that purpose. The sintering temperature is usually $2/3$ of melting temperature of metal according to fact that the alloy is mixture of metal powders.



Romania-Serbia

Common borders. Common solutions.



EUROPEAN UNION



GOVERNMENT OF ROMANIA



SERBIAN GOVERNMENT



Structural Funds
2007-2013



Up-cast technology at MMI Bor



Romania-Serbia

Common borders. Common solutions.





EUROPEAN UNION



GOVERNMENT OF ROMANIA



SERBIAN GOVERNMENT



Structural Funds
2007-2013



CROSS
BORDER
COOPERATION

Romania-Serbia

Common borders. Common solutions.





EUROPEAN UNION



GOVERNMENT OF ROMANIA



SERBIAN GOVERNMENT



Structural Funds
2007-2013



Some samples of shape memory Cu-Zn-Al alloys produced in MMI Bor



Romania-Serbia

Common borders. Common solutions.

Legura CuZnAl

Shape memory legura





EUROPEAN UNION



GOVERNMENT OF ROMANIA



SERBIAN GOVERNMENT



Structural Funds
2007-2013



Romania - Republic of Serbia IPA Cross-border Cooperation Programme

Thank you for your attention!