

<b>Research and development of uninterrupted damper</b>					
During change of hydraulic damper load direction, the steep changes of pressure and delays of its acting force are occurred, it cause the loss of adhesion between tyre and road – the uncontrollable driving situation. Project is pointed to identification of impacts which cause delay of damper effect and their elimination. And the prototype of damper without delay will be manufactured, also will be developed the software which will make easier the construction of delay-less dampers.					
Code	TA03030978				
State providing funder	Technology Agency of the Czech Republic <a href="https://www.tacr.cz/en/homepage/">https://www.tacr.cz/en/homepage/</a>				
Programme	ALFA Programme(2011-2016) <a href="https://www.tacr.cz/en/alfa-programme/">https://www.tacr.cz/en/alfa-programme/</a>				
Total eligible costs	22 836 000 CZK				
Total project subsidy	14 571 000 CZK				
Subsidy FME TUL	5 742 000 CZK				
TUL project number	17800				
Contractor	Brano, a.s. <a href="http://www.brano.eu/en">http://www.brano.eu/en</a>				
Project participants	Ústav termomechaniky AV ČR, v.v.i. <a href="http://www.it.cas.cz/?q=en/node">http://www.it.cas.cz/?q=en/node</a> Vysoká škola chemicko-technologická v Praze <a href="https://fchi.vscht.cz/?jazyk=en">https://fchi.vscht.cz/?jazyk=en</a>				
	TUL, Faculty of Mechanical Engineering				
Principal investigator TUL	prof. Ing. Jan Šklíba, CSc., Ing. Michal Sivčák, Ph.D.				
Department	Department of Applied Mechanics <a href="http://www.fs.tul.cz/en/mechanics/mechanics-of-solid-phase/research-and-innovations/">http://www.fs.tul.cz/en/mechanics/mechanics-of-solid-phase/research-and-innovations/</a>				
Period	2013-2016				
<a href="https://www.rvvi.cz/cep?s=rozsirene-vyhledavani&amp;ss=detail&amp;n=0&amp;h=TA03030978">https://www.rvvi.cz/cep?s=rozsirene-vyhledavani&amp;ss=detail&amp;n=0&amp;h=TA03030978</a>					
<b>Costs (year) TUL</b>	2013	2014	2015	2016	Total
Non-investment (CZK)	1 337 000	1 313 000	1 301 000	1 301 000	5 252 000
Investment (CZK)	490 000	0	0	0	0
<b>Total (CZK) TUL</b>	<b>1 827 000</b>	<b>1 313 000</b>	<b>1 301 000</b>	<b>1 301 000</b>	<b>5 742 000</b>
<b>Project results EN</b>					
2015	Article	<a href="#">RIV/46747885:24210/15:00002698 - Optimization of the Supporting Structure of the Machine Tool (2015)</a>			
2016	SW	<a href="#">RIV/46747885:24210/16:00001072 - Brano Shock Absorbers Simulator (2016)</a>			
2016	Another	<a href="#">RIV/60461373:22340/16:43903531 - Measurement of Gas Solubility in Hydraulic Fluids (2016)</a>			
2015	Article	<a href="#">RIV/61388998: /15:00452562 - Theoretical evidence for inconsistencies in experimental bubble nucleation rates of propane/CO2 and R22/CO2 mixtures (2015)</a>			