Highly efficient air-jet weaving machine for production of leno fabrics	
The research and development in the field of weaving technology. The result of development is prototype of a new generation of the air-jet weaving machine intended for serial production of leno fabrics with higher utility properties, especially increased weaving power, production quality and reduced energy consumption. Design of of the needle mechanism and multibody dynamics simulation.	
Code	FV10215
State providing funder	Ministry of Industry and Trade of The CR https://www.mpo.cz/en/
Programme	FV – TRIO (2016-2022)
Total eligible costs	25 863 000 CZK
Total project subsidy	17 932 000 CZK
Subsidy FME TUL	2 000 000 CZK
TUL project number	17762
Contractor	VÚTS a.s. https://www.vuts.cz/vuts-2.html
Project participant	TUL, Faculty of Mechanical Engineering
Principal investigator TUL	doc. Ing. Iva Petríková, Ph.D.
Department	Department of Applied Mechanics http://www.fs.tul.cz/en/mechanics/mechanics-of-solid-phase/research-and-innovations/
Period	2016-2018
https://www.rvvi.cz/cep?s=jednoduche-vyhledavani&ss=detail&n=0&h=FV10215	

Costs (year) TUL	2016	2017	2018	Total
Non-investment (CZK)	350 000	1 000 000	650 000	2 000 000
Investment (CZK)	0	0	0	0
Total (CZK) TUL	350 000	1 000 000	650 000	2 000 000

Project results EN		
2018	Prototype	RIV/46709002: /18:N0000207
2018	Article	RIV/46747885:24210/18:00006148
2016	Other	RIV/49777513:23210/16:43930773