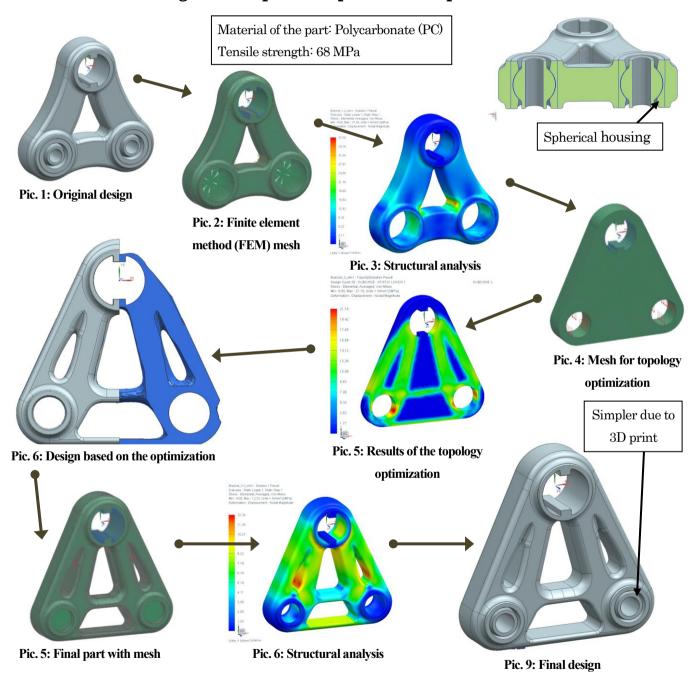




Emil Černý, University of West Bohemia

Design of the optimized part with 3D printer



	Force	Stress	Deformation	Force	Stress	Weight	Components	Dimensions
Original part	6 000 [N]	34,25 [MPa]	0,57 [mm]	17 200 [N]	breakdown	138 [g]	5	100x100x28
Optimized part	6 000 [N]	12,33 [MPa]	0,25 [mm]	17 200 [N]	35,34 [MPa]	120 [g]	3	100x100x28
Improvement		64 %	56 %			13 %	-2	