

CASE STUDY AUTOMOTIVE



VERIFICATION OF THE PROTOTYPE: FIRE ENGINE'S MANIFOLD 3D PRINTOUT



PROIECT DESCRIPTION

3D print	Fire engine's manifold 3D printout
Use	Verification of the design and adequacy of the prototype production
Dimensions	60 x 50 x 50 cm
Material	ABS
3D printer	3DGence INDUSTRY F340

3D printout helped to verify the prototype of the component mounted on a fire truck.



The collector after breaking the support material and gluing the parts is ready for assembly.



The use of 3DGence INDUSTRY F340 allowed verifying the vacuum manifold, which is one of the elements creating a hydraulic system of a pump compartment inside fire engines.

Pre-made of such manifold shall be an alternative to manual welding of pipes, elbows, and collects. Obtaining much greater accuracy in produced systems, and what follows, in a lower failure frequency.

Bocar uses 3D printers to speed up production



Dimensions and assembly verification.



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During the process of rapid prototyping, it is still very hard to obtain an impeccable product, especially when we focus on its ergonomics.

Thanks to the 3D printer, we can prepare a model which is identical to its real archetype. It makes it possible for different departments of the company to introduce particular changes even during the early design stage.

Technical engineer at Bocar



3DGence

3DGence is a Polish manufacturer of 3D printers specializing in the development of new technological solutions and the implementation of 3D printing in industrial enterprises. 3DGence Sp. z o.o. Przyszowice Office ul. Graniczna 66 44-178 Przyszowice

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