



Alternative security of the combat readiness recovery using 3D printing and reverse engineering

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Abstract

Disrupting spare parts supply chains can harm the smooth running of an organization. In the case of military vehicles, weapons or other types of equipment used on the battlefield, this is a serious threat that may result in the inability to continue some tactical operations. An ad hoc way to maintain the ability to take action while the appropriate spare parts are delivered and to improve damaged devices may be to produce the damaged components locally. Such a temporary solution is possible for relatively simple elements whose structure, mechanical properties and principle of operation can be determined on a reverse engineering basis. This article describes the concept of alternative solutions for temporarily repairing damaged devices by producing spare parts in mobile specialized production subunits. This paper characterizes the types of 3D printing, contemporary examples of use in foreign armies, priorities of international alliances related to 3D printing, and a case study of repairing an unmanned aircraft by means of 3D printing. Using the experience and knowledge of foreign armies, adapting the possibilities of 3D printing applications to one's own needs, defining legal regulations and creating properly equipped subunits makes it possible to implement the presented concept. Creating conditions for implementing the described concept facilitates the production of a suitable product range in peace, crisis or conflict situations, which may significantly contribute to increasing the level of readiness of the national defense systems.

Keywords: 3D and 4D printing, defense system, production subunits, reverse engineering, supply chains.

1. Introduction

Additive manufacturing technologies, also called 3D printing, together with reverse engineering, are widely used in civil life sectors. These relatively young technologies are still in the development and research phase. The invasion of the Russian Federation into Ukraine on February 24, 2022, displayed the need for research in the field of new concepts, engineering and logistics solutions to increase defense capabilities. The requirements of the modern battlefield, such as sensor filling, the use of a large number of unmanned aerial vehicles, often implemented from the civil market, or disruptions in conventional supply chains, prompt the search for new solutions.

Although 3D printing is a relatively new technology, its applications are present in armies worldwide. The vast possibilities of using 3D printing can be beneficial for the production or reconstruction of military hardware spare parts, tools and instruments, parts of individual soldiers' equipment, including medical equipment, structural elements of military machinery and also buildings (Ali et al., 2022), bridges, runways and other infrastructure. 3D printing technology is becoming one of the priorities of innovative

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