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# Development of an experimental setup for manufacturing of parts from metal powders

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*The use of additive technologies, such as selective laser sintering, is very perspective for the development of industry and medicine. With unique opportunities for growing products of the complex geometry by the computer model in a short time, this technology is of interest worldwide. The article presents a developed experimental stand for the implementation of the process of selective laser sintering. It gives practical results for layer-by-layer growing of various structures and products from metal powder.*

**Keywords:** *additive technologies, selective laser sintering, layer-by-layer growing, metal powder.*

## REFERENCES

- [1] Grigoriyants A.G., Shiganov I.N., Misyurov A.I. *Tekhnologicheskiye protsessy lazernoy obrabotki* [The technological processes of laser treatment]. Moscow, BMSTU Publ., 2008.
- [2] Lou A. *Selective Laser Sintering, Birth of an Industry*. University of Texas at Austin. Retrieved 2 January 2014.
- [3] Shishkovsky I.V. *Lazernyy sintez funktsional'nykh mezostruktur i ob'yemnykh izdeliy* [Laser synthesis of functional mesostructures and volumetric products]. Moscow, Fizmatlit, 2009, 424 p.

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