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# Installation and start of a liquid-phased magnetron NMSA-52 on the installation BMSTU-11-1

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*The article considers a SolidWorks-model of magnetic system of liquid-phased magnetron NMSA-52, which was mounted and started on the installation BMSTU-11-1. We compared two variants of the magnetic system. A number of experiments on launching of the magnetron have been carried out with different variations of targets and different conditions of discharge. The best operation modes were determined when you start up with the crucible and the target for liquid-phase spraying for the new magnetic system. Analysis of the obtained results proved the necessity of continuing the work on the reaching a liquid-phase mode in the magnetron by using a unit of increased power.*

**Keywords:** liquid-phased magnetron, modelling of magnetic field, magnetic system, ion spraying.

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