

# Development of domestic machine-tool construction industry as one of conditions of the Russian economy technical security

© I.V. Dolgova, D. Martynov

Bauman Moscow State Technical University, Moscow, 105005, Russia

*The article studies the problem of the domestic machine-tool construction development at the moment. We emphasize the fact that the industry renewal is one of the main conditions of technical security. We analyze machine park working state and likelihood for import substitution in the industry. The article presents the historical picture of the machine-tool construction development in Russia, discusses the reasons for the lagging industry compared to the modern high-tech equipment production in the leading countries. We give the comparative characteristics of industry share in the production of GDP. On the example of "ECM", company producing modern metal-working machines, we trace the possibility of reviving the machine-tool construction industry, which could lead Russia to technical independence on imported equipment.*

**Keywords:** machine-tool, import substitution, high-tech electrochemical machines, modernization of equipment, ultra-new machinery, competitive economy.

## REFERENCES

- [1] Danilov-Danilyan A. *Kommercheskii director — Commercial Director*. Available at: <http://www.kom-dir.ru/article/309-importozameshenie-v-rossii-2015> (accessed April 13, 2016).
  - [2] Stankostroenie [Machine-tool construction]. *IZhMASH*. Available at: <http://dozizhmash.ru/stanki/> (accessed November 20, 2015).
  - [3] Stankostroenie v Rossii [Machine-tool construction in Russia]. *Newsruss.ru*. Available at: [http://newsruss.ru/doc/index.php/%D0%A1%D1%82%D0%B0%D0%BD%D0%BA%D0%BE%D1%81%D1%82%D1%80%D0%BE%D0%B5%D0%BD%D0%B8%D0%B5\\_%D0%A0%D0%BE%D1%81%D1%81%D0%B8%D0%B8](http://newsruss.ru/doc/index.php/%D0%A1%D1%82%D0%B0%D0%BD%D0%BA%D0%BE%D1%81%D1%82%D1%80%D0%BE%D0%B5%D0%BD%D0%B8%D0%B5_%D0%A0%D0%BE%D1%81%D1%81%D0%B8%D0%B8) (accessed November 22, 2015).
  - [4] Gribkov A.A., Grigorev S.N., Zakharchenko D.V. *Vestnik MGTU "STANKIN" — Vestnik MSTU "STANKIN"*, 2012, vol. 2, no. 1, pp. 8–11.
  - [5] Gribkov A.A., Zakharchenko D.V. *Ekonomika v promyshlennosti — Economics in Industry*, 2012, no. 1, pp. 30–36.
  - [6] Stankostroenie v Rossii: tekushee sostoyanie i sovremennye tendentsii razvitiya [Machine-tool construction in Russia: current status and present-day trends]. *Mashportal.ru* Available at: [http://www.mashportal.ru/machinery\\_russia-31956.aspx](http://www.mashportal.ru/machinery_russia-31956.aspx) (accessed November 22, 2015).
  - [7] Dolgova I.V. *Gumanitarnyi vestnik — Humanities Bulletin of BMSTU*, 2015, no. 4. Available at: <http://hmbul.ru/catalog/ecoleg/econom/242.html>
  - [8] Promyshlennost ostaetsya v ruinaх [Industry remains in ruins]. *Fontanka.ru* Available at: <http://www.fontanka.ru/2014/03/12/200/> (accessed November 20, 2015).
-

---

[9] Nekotorye perspektivy rossiiskikh stankostroitelei [Some of the prospects of the Russian machine builders]. *Metally I tseny — Metals and prices*. Available at: <http://www.metal4u.ru> (accessed April 13, 2016).

**Dolgova I.V.**, graduated from Lomonosov Moscow State University. Cand. Sci. (Economics), Assoc. Professor of the Bauman Moscow State Technical University. Co-author of several publications on economics, textbooks for students of engineering faculties, bachelors and specialists. Author of teaching aids “Fundamentals of Entrepreneurship”, “Introduction to Business: modern course of economic theory”, training programs on economy, a special course “Business ethics and culture of an entrepreneur”. Research interests include small business and features of its development in Russia, innovative aspects of training engineers and technicians, import substitution in leading industries.  
e-mail: [irinadolgova60@mail.ru](mailto:irinadolgova60@mail.ru)

**Martynov D.S.**, undergraduate of the Department of Metal-cutting lathes, Bauman Moscow State Technical University. Research interests include automated design and machines tests, intellectual complexes of management and diagnostics of machines.  
e-mail: [eightdex@outlook.com](mailto:eightdex@outlook.com)

---