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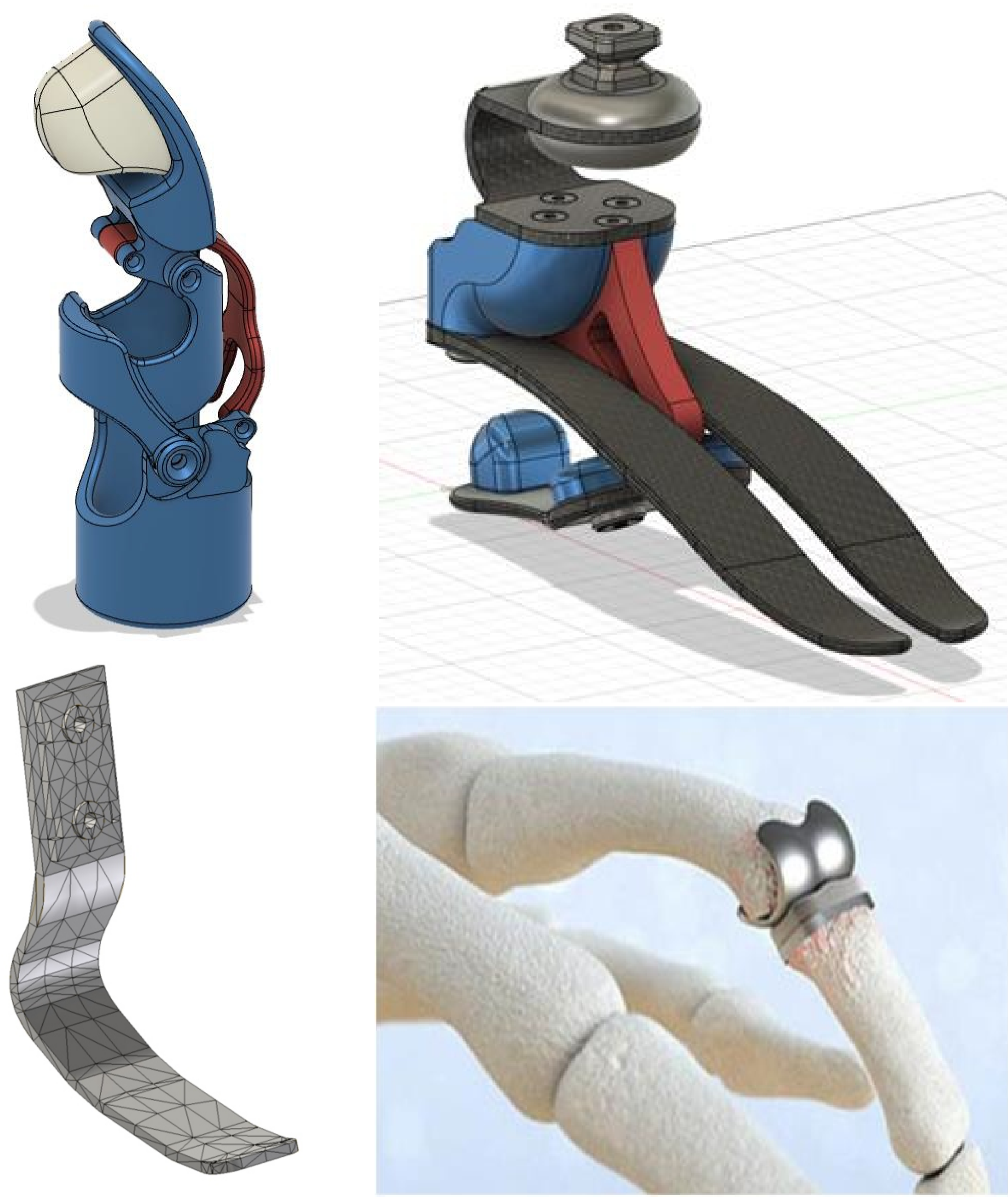
THE MOST INNOVATIVE SOLUTIONS IN THE FIELD OF BIOMEDICAL AND REHABILITATION ENGINEERING FOR THE RESOCIALIZATION OF THE POPULATION

TRL 4

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PROJECT ESSENCE

The development of new solutions in the field of biomedical and rehabilitation engineering for the resocialization of the population includes the creation of high-quality, individually adapted prostheses and medical devices for people with disabilities, which improves their quality of life and promotes social integration.



APPLICATION FIELD

Prosthetics (including microprosthetics and endoprosthetics), implants, rehabilitation equipment, medical devices used in postoperative rehabilitation.

FINAL PRODUCT

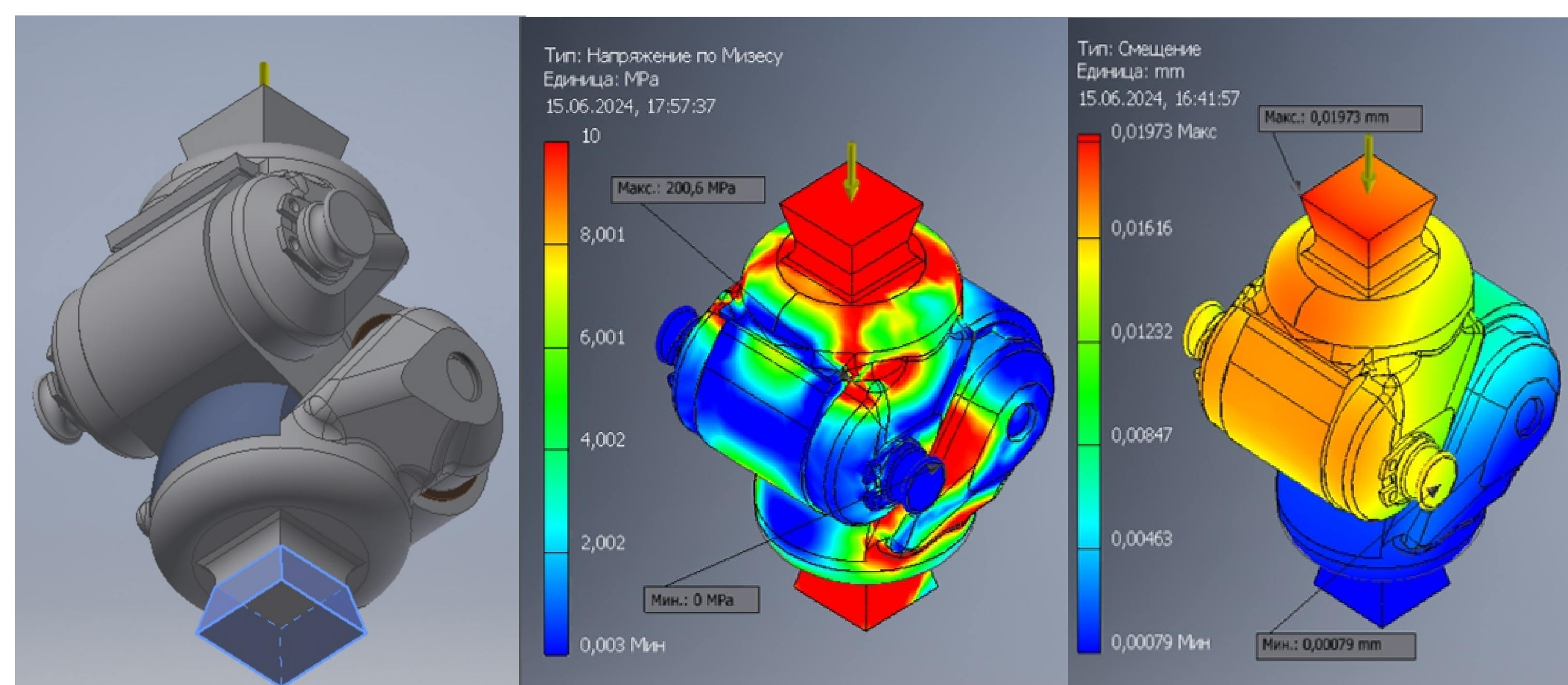
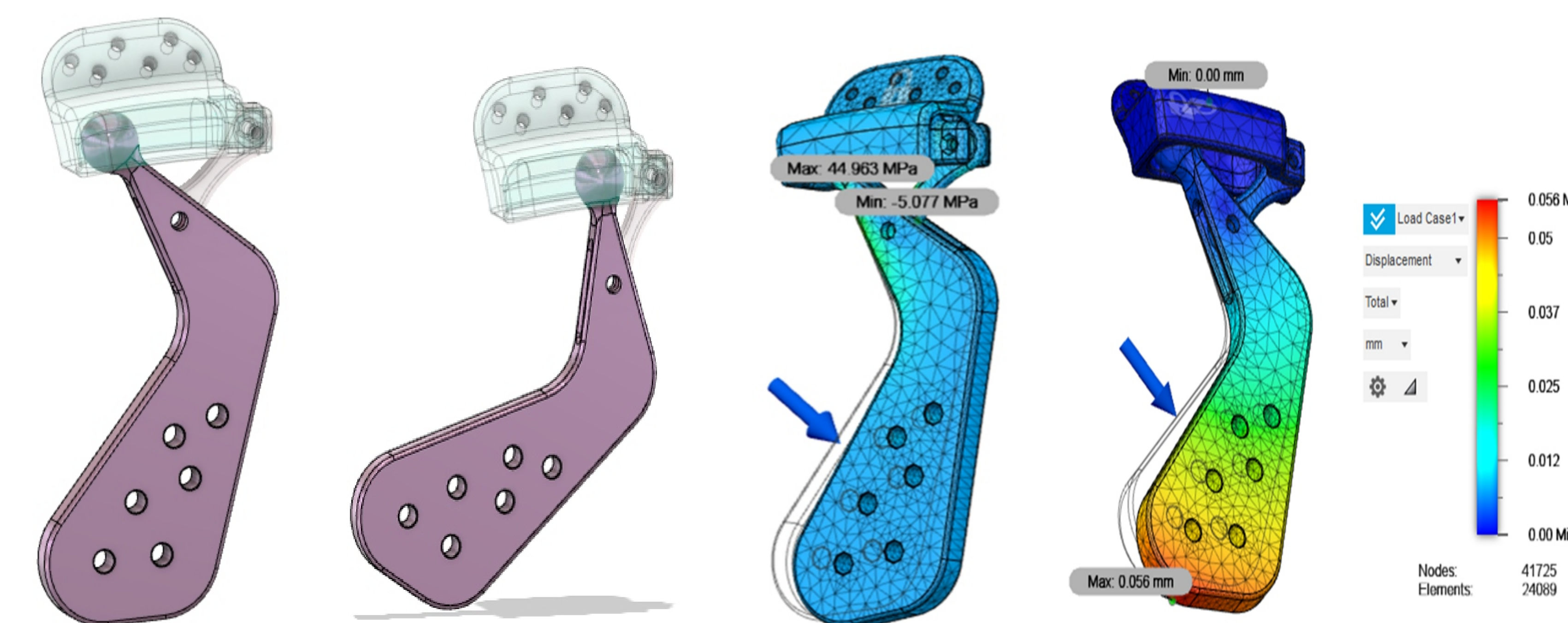
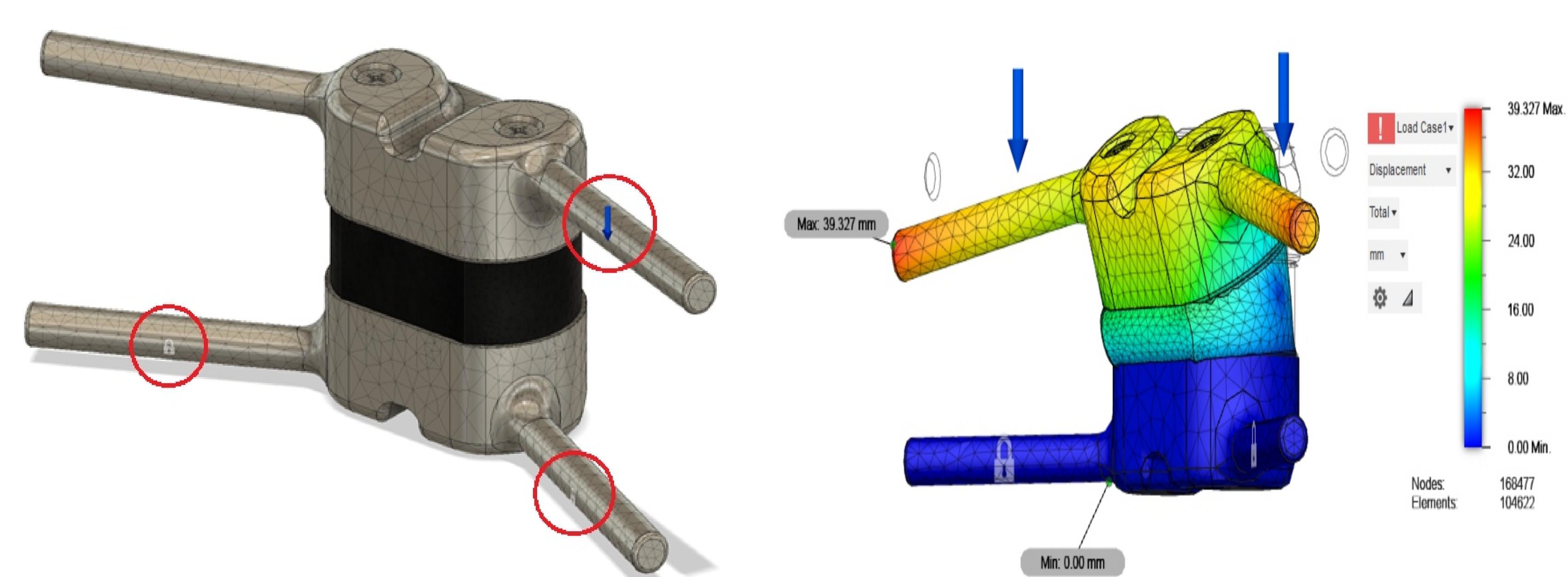
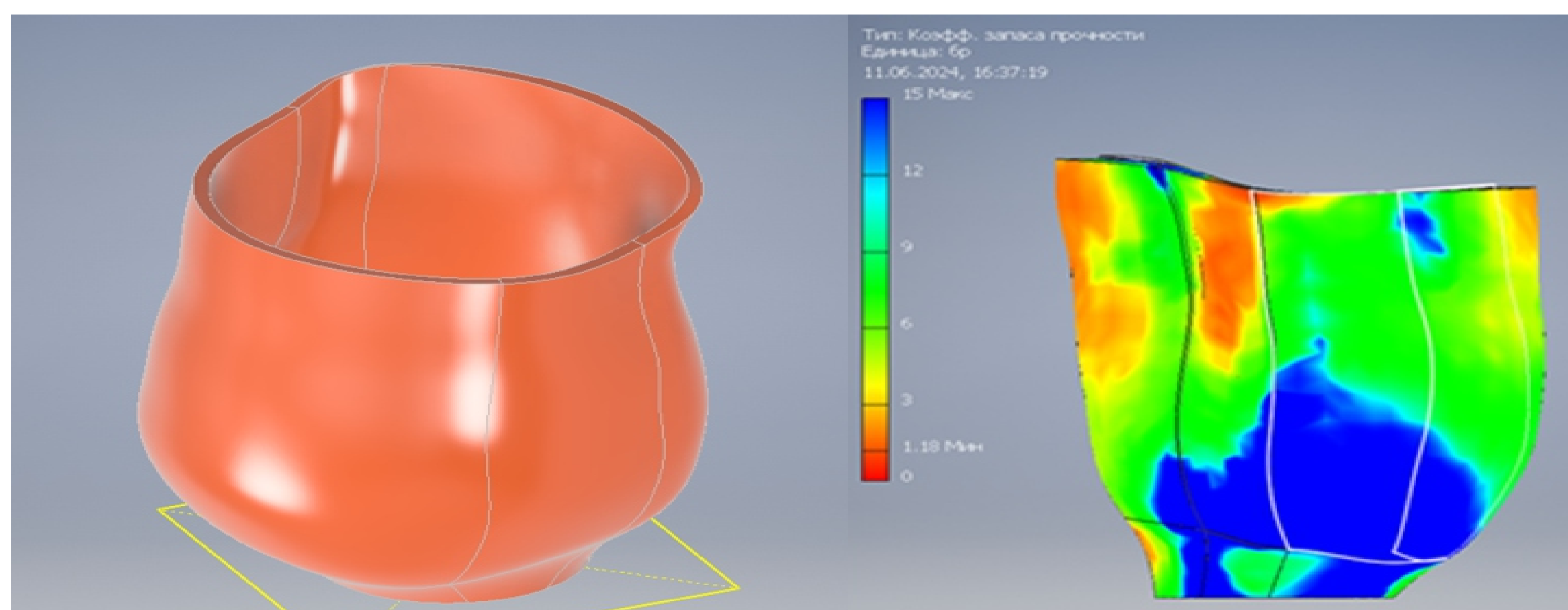
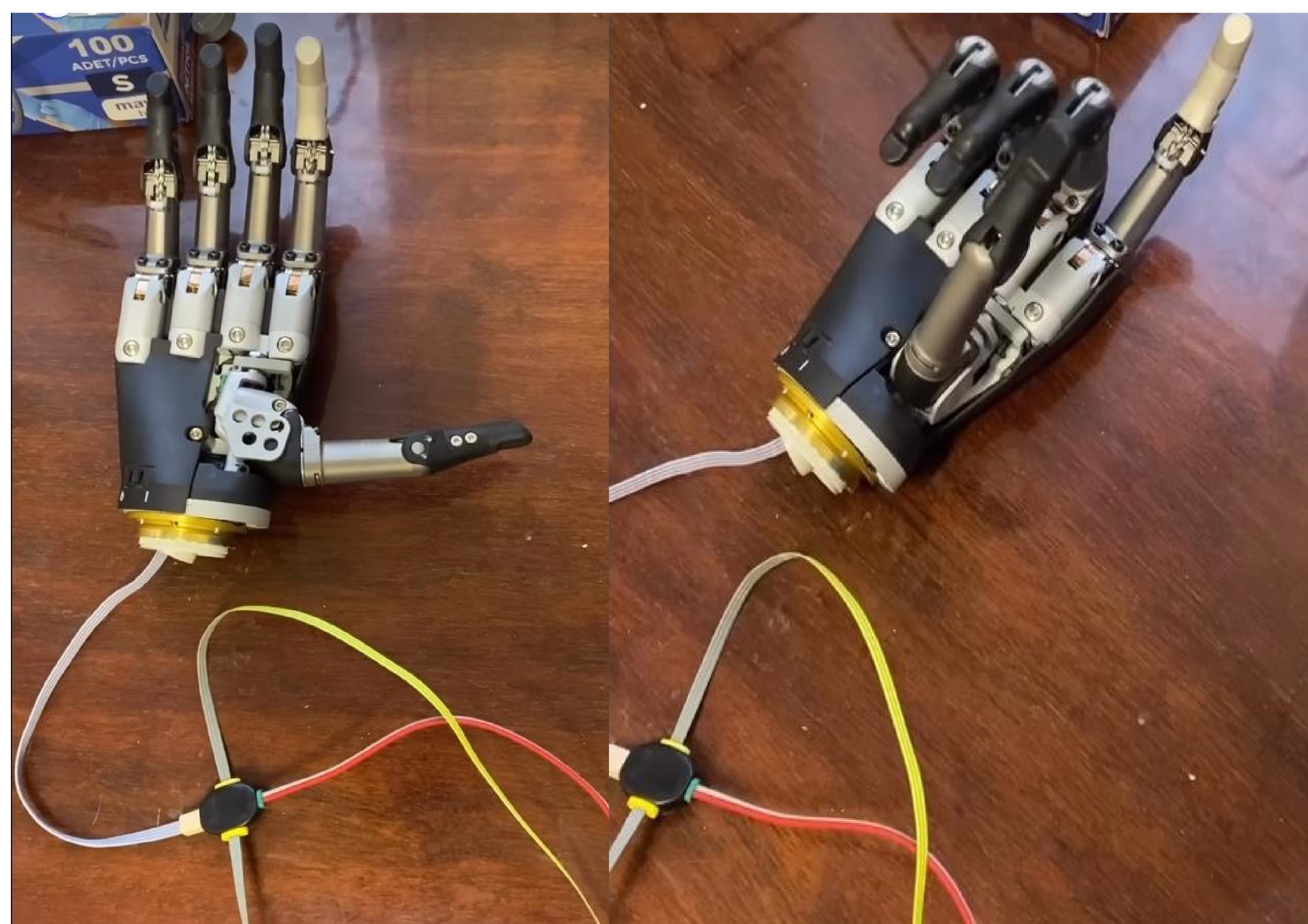
Affordable, high-quality implants, prostheses and medical devices for people with disabilities made from biocompatible materials, providing injured people with the means for medical rehabilitation in accordance with their existing disabilities.

APPLICATION FEATURES

- Use of advanced 3D printing technologies;
- Application of biocompatible materials;
- Software environments for customizing rehabilitation facilities;
- Original biomechanically based designs of titanium endoprostheses.

ECONOMIC AND INVESTMENT POTENTIAL

- Reduced postoperative treatment time and improved functional outcomes;
- Reduced disability rates and the degree of disability;
- Reducing the cost of medical care in the long term;
- Improving the quality of life and vital activity of the injured people with the possibility of maintaining work according to their profession.



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