



APPLICATION FOR DETERMINATION OF FORCE, MOMENTS AND POWER OF CUTTING

Ideas on utilisation

The offer concerns an IT application whose main function is to calculate the forces, moments and power of the cutting process being part of technological processes in industry. The application allows to design / select tools that will enable the implementation of production tasks in harmony with the capabilities of machine tools.

Potential adopters of technology

The solution enables calculation of forces, moments and power of the cutting process being part of technological processes in industry. The application allows to design / select tools that will enable the implementation of production tasks in harmony with the capabilities of machine tools.

The solution is an application created in the Visual Basic environment and can be run in the Microsoft Windows operating system. It allows to calculate the forces, moments and power of cutting for the following types of machining: turning, drilling, dredging, milling, threading with taps and dies, cutting with circular saws, cutting with band saws. Moreover, the application enables calculations according to two known and applied methodologies and for the majority of groups of processed materials used in the industry.

The solution is in the form of computer software.

Advantages of technology

The main benefits resulting from the application of the result in industrial practice:

- Optimisation of the selection of tools for material processing in terms of production tasks
- Optimisation of the structure and involvement of work resources in the material processing.

Thanks to the implementation of the solution, it is possible to reduce the costs associated with the manufacturing of products and semi-products by optimising the means of production.

Market and context of technology

The offered solution can be used in a lot of industries, where we deal with a technological process involving the processing of materials. The solution can also be directed to companies distributing tools used in machining processes.

Preconditions in adopting enterprises

Ready for implementation (implementation costs negligible).