

## **Productivity rate of rotor-type automated lines and optimisation of their structure**

### **Abstract**

Rotor-type production lines are used in many areas of industry. Existing analytical approaches that utilize productivity rate data of the rotor-type lines do not reflect reliable technical parameters. This paper presents a new analytical approach for calculating the productivity rate of a rotor-type automatic machine and automated lines with parallel—sequential action and optimization of its structure as a number of serial and parallel stations using the criterion of maximal productivity rate.

**Keywords;** Optimization; Productivity; Rotary automated line