621.01(06)

./ : +38 (062) 3010805; *E-mail: bulenkov@ukr.net*

· , · · · ,

Y. O. Bulenkov

FEATURES OF LAYOUT OF MULTINOMENCLATURE ROTOR LINES

Various layouts of multinomenclature rotary lines are discussed in this article. We analyze the tool changing time in the group tool blocks of the manufacturing rotors in the case of different layouts of line. The necessity of non-classical arrangements of rotors in line is proposed here. New arrangement gives a more streamlined version of the layout of multinomenclature rotary line and allows providing the required time for tool change in the group tool blocks.

Keywords: group tool block, tool change, rotary diversified line.

1. .

[1-5].

, . [6.7]

[6-7].

[6-7]. ,

-

[8, 9].

© . .; 2017

```
Vтр
                                                         2.
          ИБ
                          ТД
                                                                        1
                                                         [8,9].
                 ТрР
  TpP
                        Vmp
         Vmp
                         Vтр
                ИБ
                                  ΤρΡ
                                             ТД
  ТрР
                                     Vтр
           Vmp
                                                                            W.
)
            Vmp
                      ТрР
                      T_
                             ИБ
                    Vmp
              1 -
```

```
[7].
                                              1,
                 1
                                )
)
)
                                                         [8, 9].
                                                               W.
                                                                         1 2
)
                                  2 ).
                                                                 2
                                                   3.
              2 -
                                                              2
                                                                        1.
```

45

Тц = Тобр + Тсм

- ,

Tofp = Tp + Txx

Tcm = Tcm + T3 + TB + Tx

--, ,

, 1 , Tobe To I Tour

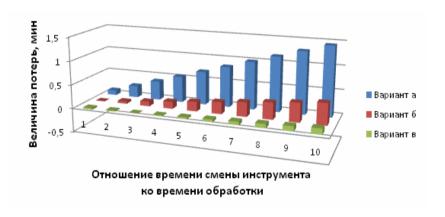
> 1 Тсм = Тобр = Тр + Тхх, т. е. Тхх = Тсм — Тр

1 Tcm

Tсм = 3Тобр, т. е. Tхх = $\frac{T$ см}{3} - Tр

,

1.



3 -

, 1,

```
1.
      3.
                                  1.
      1.
                                                                        - , 2012. -
    . 2.- . 394-402.
      2. Albert, M. Multi-spindle Thinking For Machining Center Part [
    ] / Modern Machine Shop. URL: http://www.mmsonline.com/articles/multi-spindle-
thinking-for-machining-center-parts (
                                               :12.01.2017).
      3. Rakowski, L. Boosting Part-making Efficiency With Rotary Transfer
          ] / Modern Machine Shop. URL: http://www.mmsonline.com/articles/boosting-
part-making-efficiency-with-rotary-transfer.- (
                                                       : 12.01.2017).
                              / . . //
               3. – .130-136.
      5.
2010. - 4-1. - . 3-14.
      6.
                      , 2016. – 126 .
                              . - : , 2016. – 126 .
      8.
                                                          : , 2002.-
379 .
                , 1986. - 320 .
```

10.02.2017 .