

# Modernization of milling machines with NC DRX3000SUP

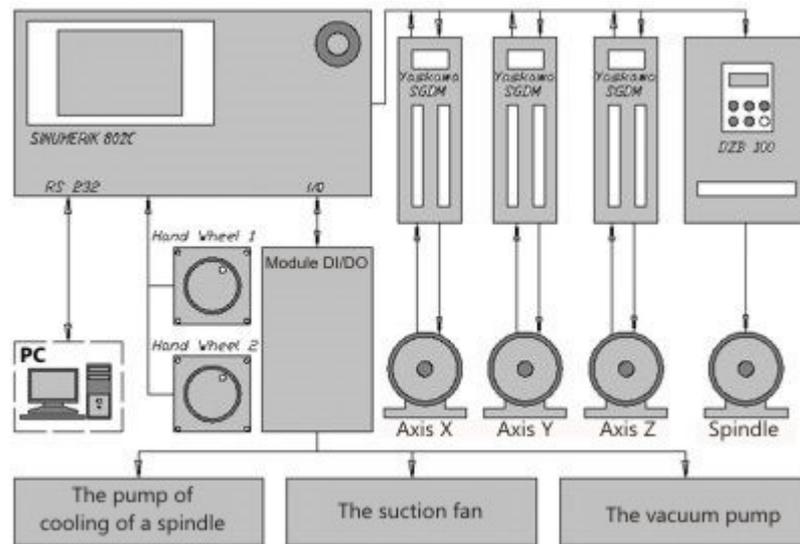
**Customer:** «MKgrup»,Ltd., Karaganda

## Technological Process Specification

Wood processing plant, situated in Karaganda, was opened at the end of 2006. At the moment of opening the plant was fully completed by modern equipment with microprocessor control of China production. It was installed NC milling machine DRX3000SUP for wooden planck working and carved doors and pane producing. During adjustment it was found out that some machine functions are blocked and some blockings don't work; it wasn't allow outputing the machine work on the project level, whereas mechanic didn't have censures, therefore it was made a decision to modernize the machine for using it more rationally. So, it was used modern drives of Japanese firm Yaskawa as motion drives and it was decided to modernize only NC system, upgraded maximum functional machine possibilities.



NC system modernization was carried out on the elements Sinumerik 802C of the firm Siemens, added additional wheel guards of manual positioning on axis, it is very simplified adjustment and further machine operation, it was changed alarm system, added additional ends, also output virtual ends and limitations, permitting to change tools from the tool storage unit without serious consequences and to do work on the planck, without fear to cut vacuum cups.



For convenience of task forming on the machine work, picture transferring from the development program into special NC code it was installed additional personal computer connected with NC panel. It was installed additional software package on the computer. It was permitted upgrading big machine possibilities.



### **Project implementation period**

Project implementation period is 2,5 months, commissioning is September, 2007