



Joint-Stock Company “Electric Machine Building Works “LEPSE””

In September 2012, JSC “Electric Machine Building Works “LEPSE”” started the evaluation of IMSverify – simulation software from IMS Software.

During the pilot testing of the system, we checked and implemented 10 NC programs for the following CNC machines: Acceler 1120 (5-axis milling machine, controller Fanuc OI-MD) 400V4 (4-axis milling machine), and 400V (3-axis milling machine, controller Sinumerik 802D SL).

Thanks to the IMS software, in every NC program we eliminated all kinds of errors related to the calculation of geometry, and optimized dry runs. We changed the sequence of processing to optimize the cutter load of cutting tools, minimized their offsets and more carefully selected fixtures (milling chucks, arbors and holders) taking into account the characteristics of the devices. Hard collision and hit probability of the working units of the machine tools were completely eliminated.

Based on the results of the software evaluation, the fixture design was changed in advance. The NC operators and engineers noted and appreciated the quality of NC programs, and passed preliminary debugging in IMSverify.

We really enjoyed the time counter. The difference between the estimated (received in the IMSverify) and actual time (received from the machine) went from 2 to 5%, and I think it could go further! Almost all the parts have been cut with a first run of NC programs in accordance with operational and technological requirements. In fact, IMSverify allowed a significant reduction the NC program debugging time on the CNC machine.

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