

Summary

At the location Schiphol-East of the Fokker Aircraft Company the final assembly of the aircraft types Fokker 50 and Fokker 100 is performed. The Central Warehouse of Fokker delivers the necessary aircraft parts to the assembly lines. In this warehouse most of the aircraft parts are stored in an automatized section: zone-1.

Zone-1 is characterized by the way parts are received, the method of storage and the way parts are delivered to the assembly lines. The performance is expressed in several indicators as: the efficiency of the used capacity and the average number of parts that can be picked in one action.

The receipts in zone-1 are unpredictable. This is why a research for improvements of the performance of zone-1 is done by testing two new ways of storage and one new way of collecting parts for delivery. A simulation program is written which makes it possible to test these new concepts for zone-1. The results of the tests show that improvements can be achieved.