# FINAL EXAMINATION PROJECT

## Documentation

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<th>Maximilian STÖCKL</th>
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<td>Form</td>
<td>4AFMBM</td>
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<td>Academic year</td>
<td>2012/13</td>
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<td>Topic</td>
<td>Adjustable rummage box</td>
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<td>Co-operation partners</td>
<td>Company Ismet FERATAJ</td>
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<td>Assignment of tasks</td>
<td>Design, manufacture and installation of an adjustable rummage box</td>
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## Realization

The task of the project was to produce a rummage box for a DIY. The bottom of the box should be able to be lifted at demand. The rummage box was designed for mounting on a pallet.

**Construction:**
- All components were designed with a 3D program.
- The base plate was designed in a way that it can be moved with a forklift truck. The bottom of the box can be moved axially from its lowest position (150 mm from the floor) to its highest position (900 mm from the floor).
- The actuator for the height adjustment is performed by means of a chain wheel and four threaded rods.
- The height adjustment of the box bottom itself is performed with the aid of a hexagonal wrench or a cordless screwdriver by moving the threaded nut on which the raised floor is situated.

## Results

The newly designed and manufactured rummage box was completely tested on its functions in the workshop. Subsequently, it was checked whether the pallet could be transported by means of a fork lift or a pallet truck. The height adjustment of the bottom worked flawlessly. If the test use at the DIY proves successful, the pallet along with the rummage box will be manufactured in series and replace the pallets now in use for the most part.

For the final paper, a complete documentation with drawings on construction and production of the pallet and the rummage box was provided.
Illustrative graph, photo (incl. explanation)

Pallet with adjustable rummage box

Participation in competitions
Awards
None

Accessibility of diploma thesis
Technical College of Machine and Plant Engineering, Mödling

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