# FINAL EXAMINATION PROJECT
## Documentation

<table>
<thead>
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<tbody>
<tr>
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<td>Form</td>
<td>4AFMBM</td>
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<td>Academic year</td>
<td>2013/14</td>
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<td>Topic</td>
<td>Cutter saw</td>
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<td>Project overseer</td>
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<td>Assignment of tasks</td>
<td>Designing, manufacturing and installation of a cutter saw.</td>
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## Realization

The students made a cutter saw that is used to cut wood. They made sure that lubrication points are easily accessible. The safety guidelines had to be observed.

**Requirements:**
- The dimensions of the cutter saw are 800mm x 1450mm.
- The stability of the saw is important for the machine performance and it should weather proof.
- The design makes the saw easy to maintain.

**Construction:**
- The 3D drawing programm (ProE) was used to compile a blueprint of the cutter saw. The design and workpereparation where completed by the team.
- All building parts were made in the workshop of the school by the students.
- At the ground frame were attached the compensator, the protection shield and the 3-point-acceptance.
- During the transport the compensator is in a fix position and therefore the saw is carried with a chain.
## Results

The finished cutting saw was checked for security in the workshop. The saw was used for a trial run of 3.5 hours. After the trial run we made minor improvements to the cutting saw.

For this final examination paper, a complete documentation with drawings on design and manufacturing, with spare parts lists and calculations regarding the steel structure of the cutting saw was created. Also, a cost calculation was carried out because the budget of €1,500,- was observed.

## Participation in competitions, awards

None

## Accessibility of diploma thesis

Technical College of Machine and Systems Engineering, Mödling

## Approval

27. May 2014

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