### Author(s)
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### Form
- Academic year: 4AFMBM 2011/12

### Topic
Design and manufacture of a fruit cutter

### Co-operation partners
FOL Peter Ponleitner

### Assignment of tasks
The task of the project was the design and manufacture a fruit cutter. On the basis of an already existing fruit cutter, the students could get a general idea of the task. The problem of the existing fruit cutter was the massive construction, the external motor and the heavy weight, making moving of the device difficult.

### Realization
Due to the manufacturing of the entire fruit cutter out of stainless steel and the direct flanging of the motor to the shaft, the disadvantages have been corrected. In addition, by mounting a wheel on the front and the fastening of handles at the back, moving of the fruit cutter is now easily possible. In the basic box, the rotor was inserted. On the rotor there are blades welded which alternately are straight and grooved. Furthermore, by means of a feed plate which is moved by an adjusting screw it is possible to vary the size of the fruit to be cut.

### Results
The newly designed and manufactured fruit cutter was checked in the workshop with regard to all its functions and safety devices. To safeguard the device against reaching into while the rotor is idling (no fruit in the machine but engine is running), a sliding plate was provided. This plate covers the entire hazard area when completely closed. The result was that this final examination project is a functional and working machine which uses the latest machinery safety standards.
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<thead>
<tr>
<th>Participation in competitions</th>
<th>None.</th>
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<tr>
<td>Accessibility of diploma thesis</td>
<td>Technical College of Machine and Systems Engineering, Mödling</td>
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<td>Examiner Ing. Gerhard Buchmayr FOL Peter Ponleitner</td>
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