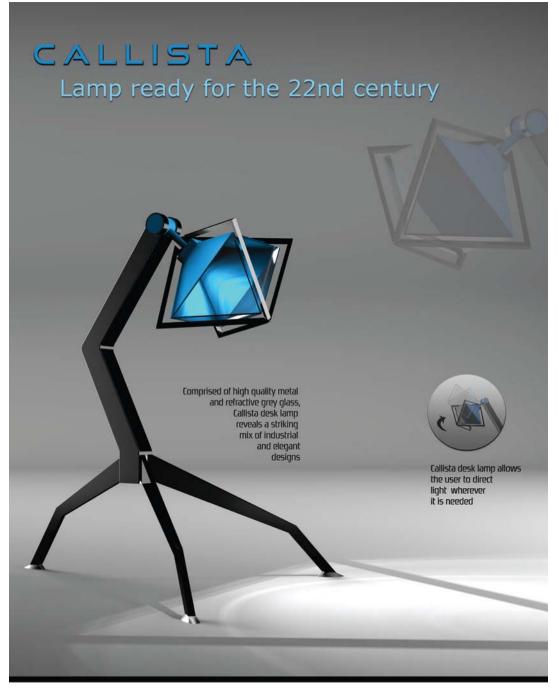
#### Универзитет Св. "Кирил и Методиј " Машински факултет - Скопје

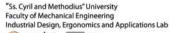


### Одбрани проекти по предметот : **КОНСТРУИРАЊЕ СО ПОМОШ НА КОМПЈУТЕР**

Летен семестар 2015/2016

Професор: Доц. д-р Иле Мирчески



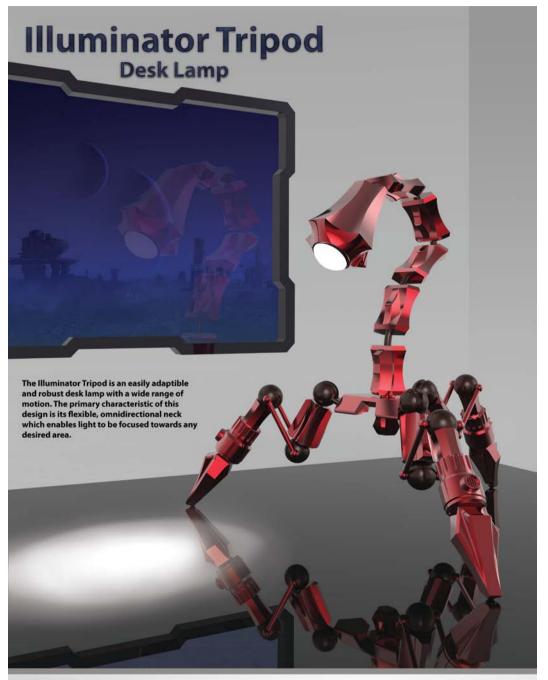


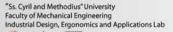


















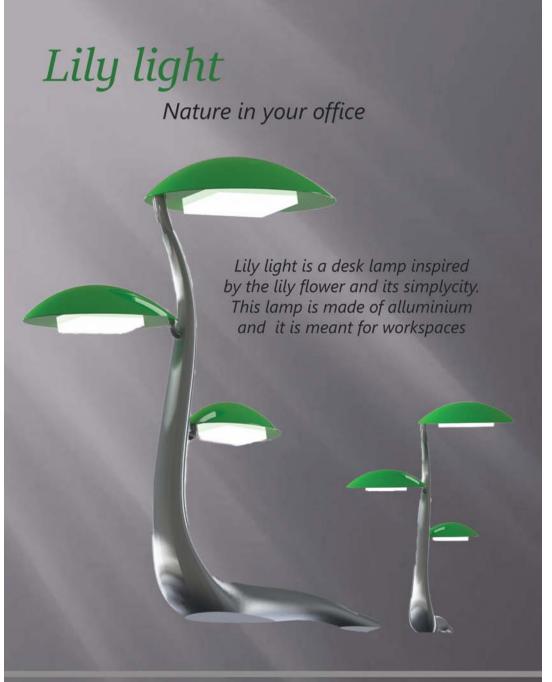


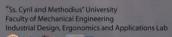


















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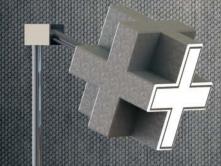






Student: Ena Milanovikj Course: Computer Design Leader: Prof. Ile Mircevski School Year: 2014/2015

# **Cubby - cross lamp**



- Elegant desk lamp design for easy directing of light
- The cubby- cross lamp is using a highly efficient LED tion.













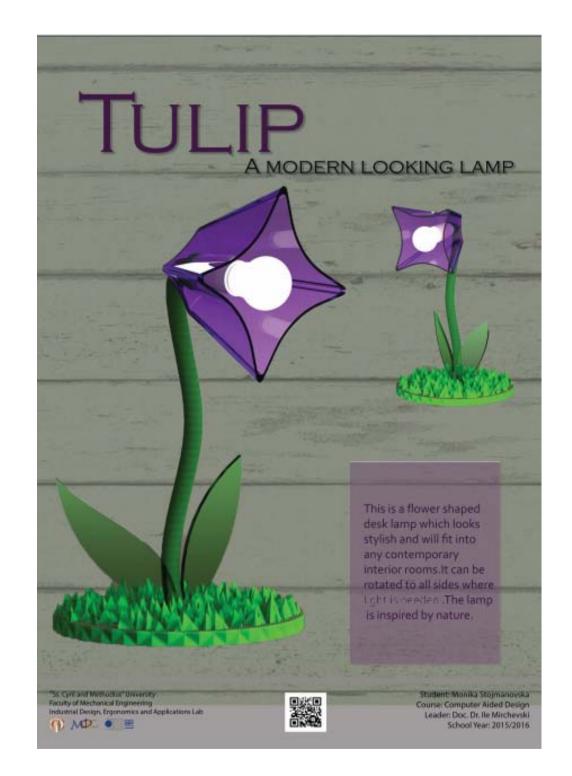




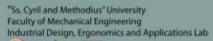




















# The gold rose gold ht



Pretty looking rose gold lamp with an adjustable position of the light.

Easy to adjust and easier to fit in elegant and futuristic room designs. The interesting combination of a copper bronze and titanium alloy included in a modern lamp ready for the 22th century.



"Ss Cyril and Methodius" University
Faculty of Mechanical Engineeriing
Industrial Design, Ergonamics and Applications Lab









Student: Nade Andova

Course: Computer - Aided Design

Leader : Doc.Dr. Ile Mirceski School Year : 2015/2016

# Work Lamp Tranquill



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Industrial Design, Ergonomics and Applications Lab





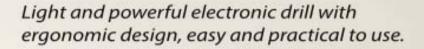




### ELECTRONIC DRILL

Ergonomic











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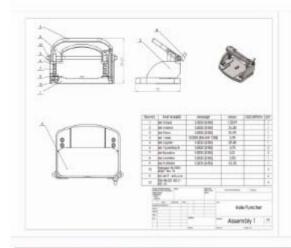
Students: Igor Djambaski, Martin Spasovski Course: Computer-Aided Construction Leader: Docent Dr. Ile Mircheski School Year: 2015/2016

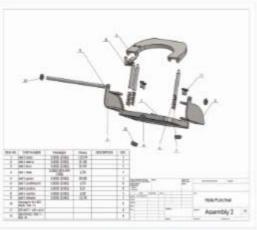
### HOLE PUNCHER



This device is used to create holes in sheets of paper, often for the purpose of collecting the sheets in a binder or folder.

It's made of steel and aluminium parts.



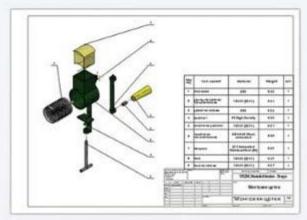


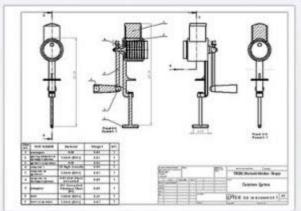




#### MECHANICAL GRINDER

THIS MECHANISM IS USED FOR GRINDING NUTS AND ALSO MEAT. IT IS VERY SIMPLE TO USE AND PROVIDES EXCELLENT STABILITY FOR THE USER.









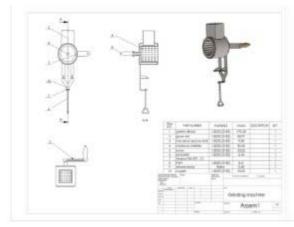


### GRINDING MACHINE

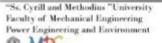


The product is a machine which allows the user to grind biscuits and different types of nuts.

It is made of steel and has a wooden handle.









Student: Cvetanka Angelevska Course: Computer - aided design Leader: Doc. D-r. He Mirceski School year: 2015/2016

# VALVE Gate Valve

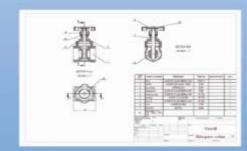


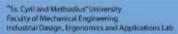


















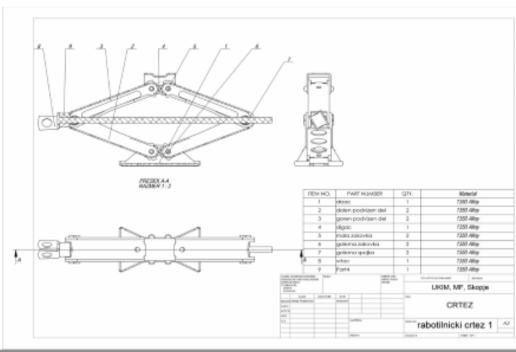
#### Manual hoist for cars

Manual hoist - up to 1 ton with extension handle for turning. Quality product with TUV and GS certifications.

Practical anytime, anywhere on the road Manual hoist for all kinds of cars







"Ss. Cyril and Methodius" University Faculty of Mechanical Engineering Termicko inzinerstvo





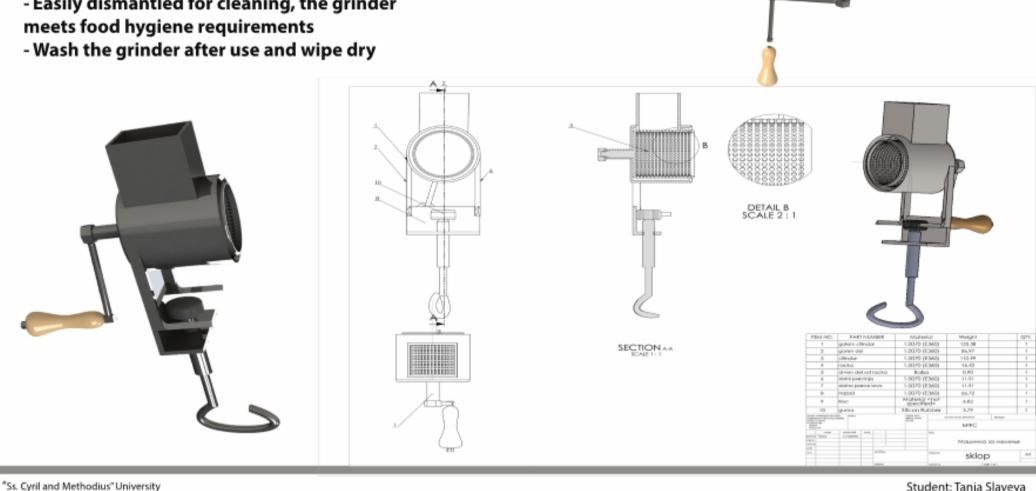


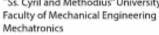


Student: Dimitar Postolovski Course: Computer Aided Design Leader: Doc. Dr. Ile Mirceski School Year: 2015/2016

### **Grinding machine**

- Suitable for use at home, canteens and restaurants. It can process various kinds of seeds.
- Easily dismantled for cleaning, the grinder meets food hygiene requirements







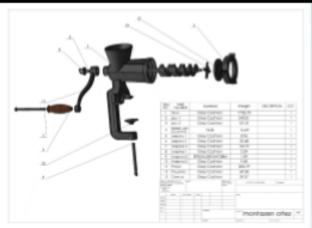


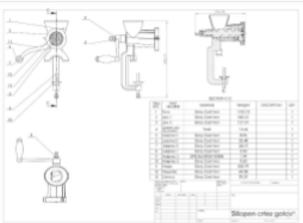




Student: Tanja Slaveva Course: Computer Aided Design Leader: Doc.Dr.lle Mirceski School Year: 2015/2016



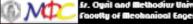




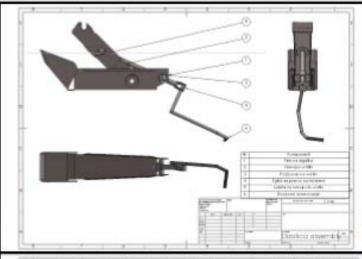
### **MANUAL MEET GRINDER**

A meat grinder or meat minoer is a kitchen appliance for fine chopping or mixing of raw or cooked meat, regetables and other food. It is useful because it provides more efficient and faster chopping of food while replacing tools like the minoing knife, which has been used to produce minoed meat. The product that are going to be minoed are put into a funnel, which is placed on the top of the grinder. From there the material goes on a horizontal screw conveyor. This screw conveyor, that can be powered by a hand wheel or an electric mater, squarkes and partially mixes the food. At the end of the screw conveyor there is a knife installed directly in front of the fixed hole plate. At this opening the minoed meat comes out of the machine. The finences of the meat depends on the size of the holes of the plate.





# HOIST For Automobile





ss"Cyril and Methodius"University Faculty of Mechanical Engineering The hand hoist gives us the help to overcome big weights and gain easy access to our car. It provides with hand cycling from the handle down the drive shaft and with translator movement it gives us easy lift with no sweat



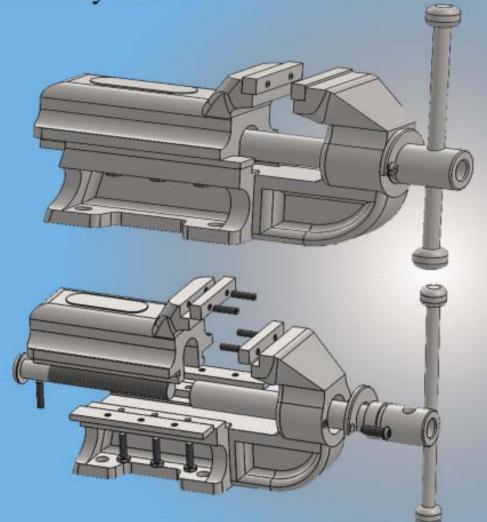
Student: Aleksandar Stojkov 1394 EE Course: Computer-Aided Construction

Leader: Prof.Dr.Ile Mircheski

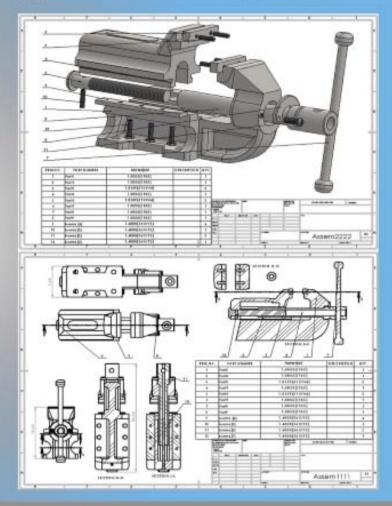
School Year: 2016

### CLAMP

Manually usable



A clamp is a fastening device to hold or secure objects tightly together to prevent movement or separation through the application of inward pressure



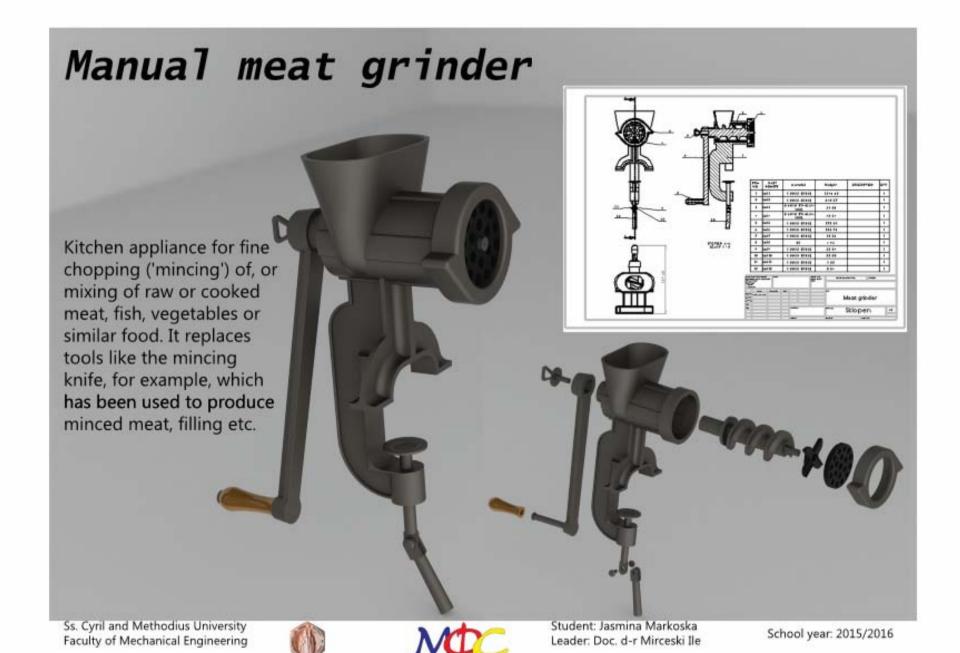
"Ss. Cyril and Methodius" University Faculty of Mechanical Engineering







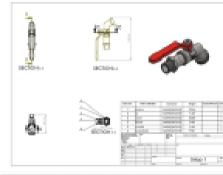




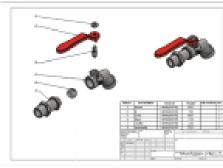
### **Ball valve**

#### Control the flow of water





A ball valve is a form of quarter-turn valve which uses a hollow, perforted and pivoting ball to control flow trought it

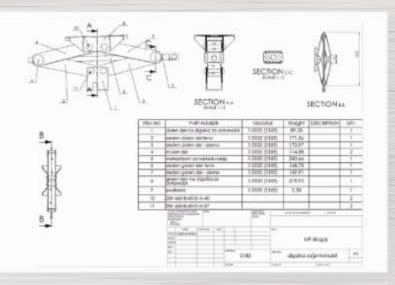




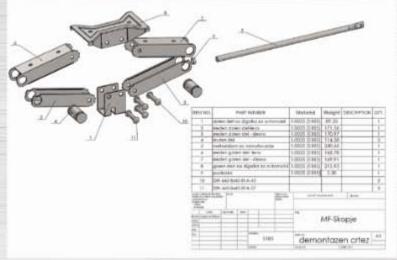


### **JACKSCREW**









"Ss. Cyril and Methodius" University Faculty of Mechanical Engineering









Student: Stojance Miskov Leader: Doc. Dr. Ile Mirceski School Year: 2015/2016

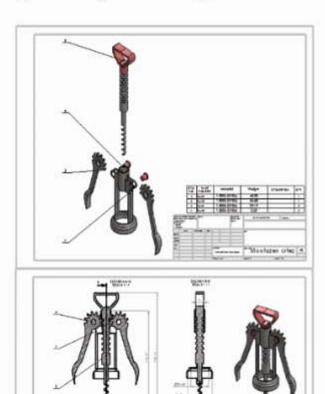
### **CORKSCREW**

Manually usable





# A bottle opener is used as an easy way of openning wines



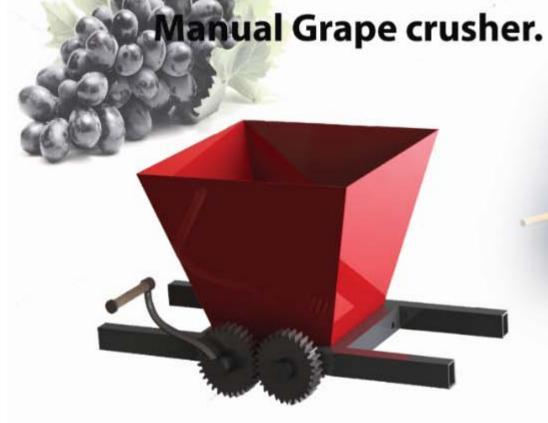






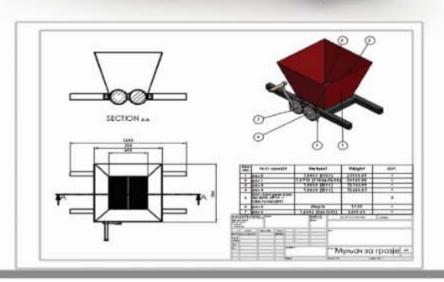






#### Description of the Product:

The Manual Grape crusher is a very usefull tool in the industry of wine and brandy making. You just need to dump the grapes in the top of the hopper and turn the flywheel crank. This is a great traditional, hand crank style grape crusher at an economical price



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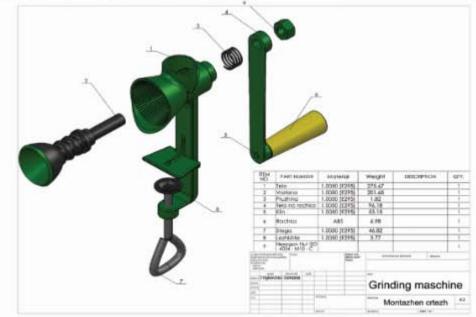


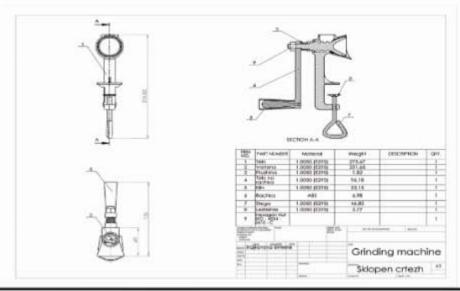


Poppy Seed Mill / Grain Mill

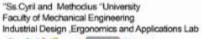


- -Variabile coarseness settings
- -Quality grinder especially suitable for oil-containing grains such as poppy and flax seed
- -Also suitable for other grains







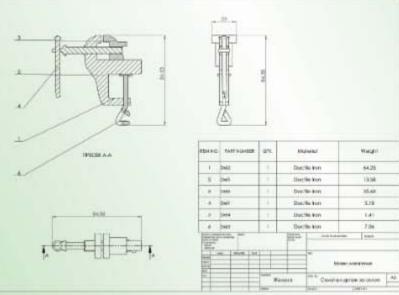




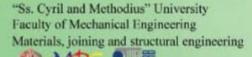
### Mini Vise





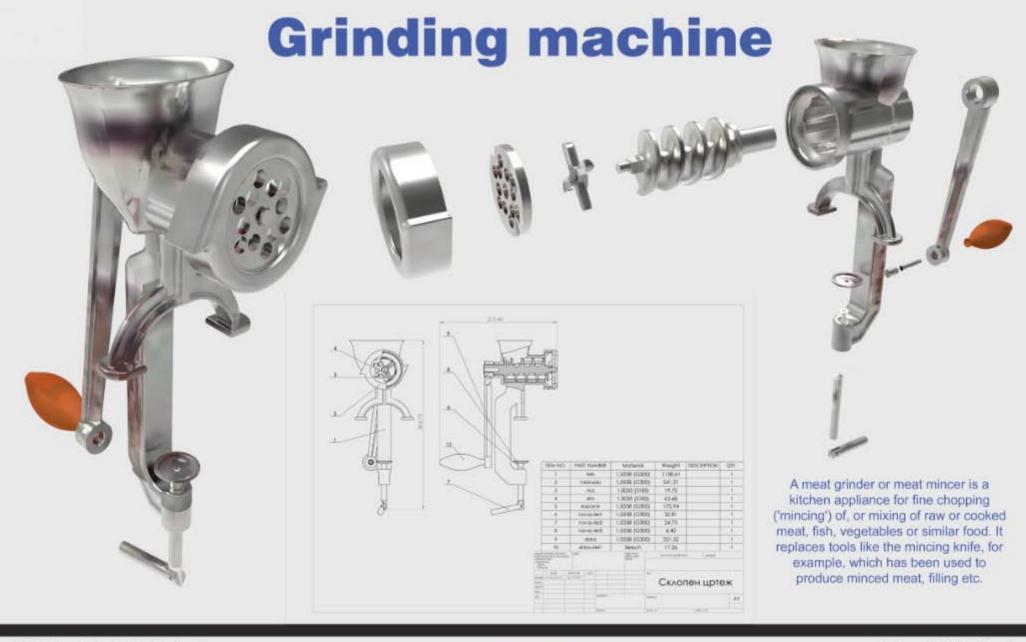


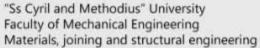






Student: Ana-Marija Farkas Course: Computer Aided Design Leader: Doc. d-r. He Mircheski School year: 2015/2016









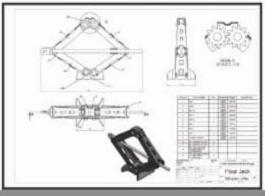
Student: Hristijan Gjorgievski Course: Computer Aided Design Leader: Doc. Dr. Ile Mircheski School year: 2015/2016

### **FLOOR JACK**

### -Light and safe-

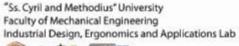






When working on your car or truck, you want a floor jack When working on your car or truck, you want a floor jack that you can trust. For trucks, supply loads, and larger vehicles that tip the scales at 1.500 kilograms, be sure you choose an auto jack that is specifically designed to be as easy on you as it is on your vehicle.





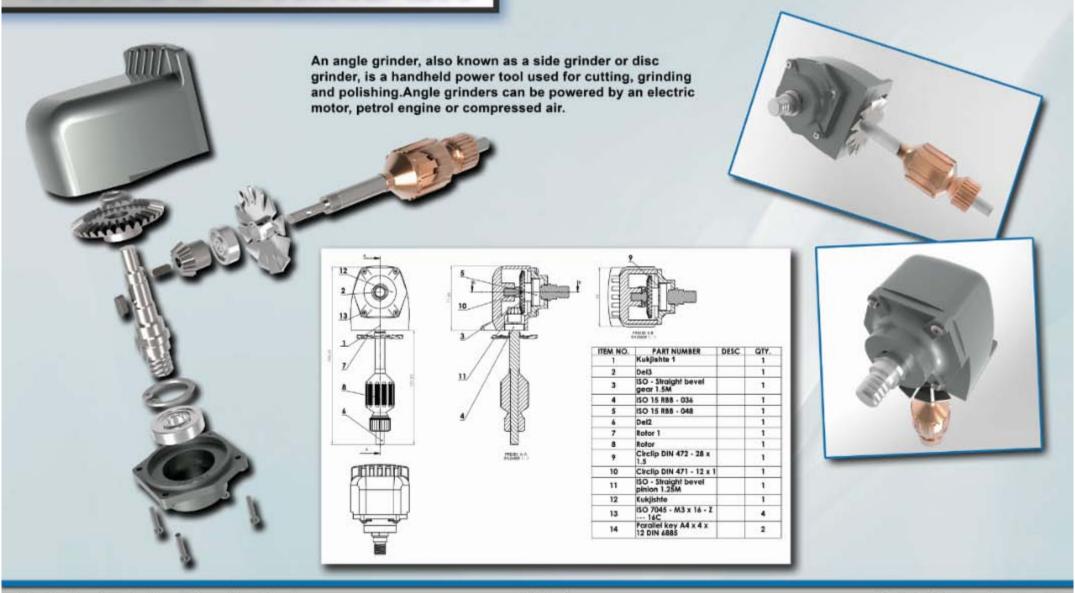








## ANGLE GRINDER



Ss. Cyril and Methodius University - Skopje Faculty of Mechanical Engineering





Student: Damjan Cvetkovski Leader: Doc. Dr Ile Mirceski

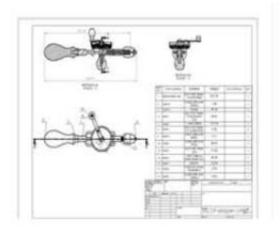
School: 2015/2016

# DRILL MACHINE









"Ss. Cyril and Methodius" <u>University</u> <u>Faculty</u> Mechanical Engineering - Skopje

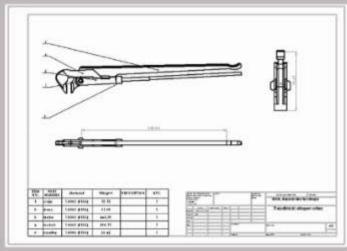


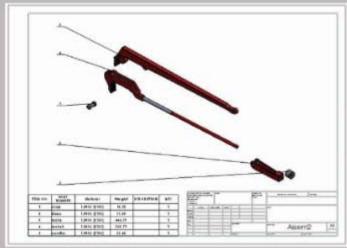


Student: Kalkovalieva Milkica 1381 Course: Computer Aided Design Leader: Doc.Dr.Ile Mirceski School year:2015/2016

### **PLIERS**







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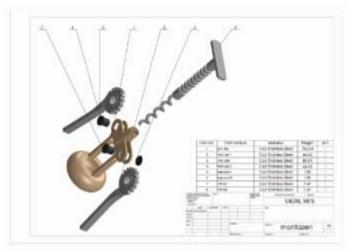


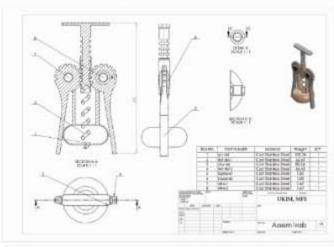


# Wine Opener

best way to open a high quality wine for your pleasure







P.S. Drink responsibly

"Ss. Cyril and Methodius" University Faculty of Mechanical Engineering Mechatronics









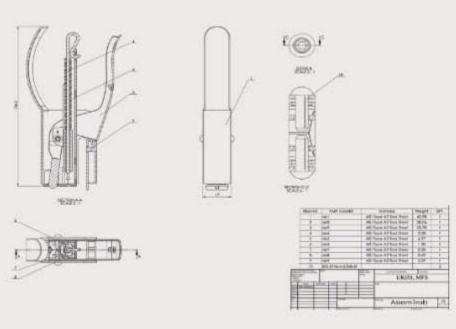
Student: Bojan Jordanoski Course: CAD

Leader: Prof. Dr. Ile Mircheski School Year: 2015/2016

### MANUAL STAPLER



ULTRA LIGHT AND THIN MANUAL STAPLER
HIGH DURABLE A2 TOOL STEEL
SAFE AND EASY TO USE
HAND CRAFTED





"Ss. Cyril and Methodius" University Faculty of Mechanical Engineering Mechatronics





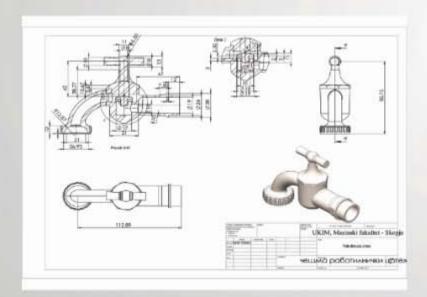




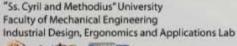
### **Water Faucet**

### Stainless steel faucet for everyday use

The faucet is developed and manufactured using premium grade stainless steel and the latest technology. Offered faucet is applauded for its corrosion resistant feature and used in fitting purposes.





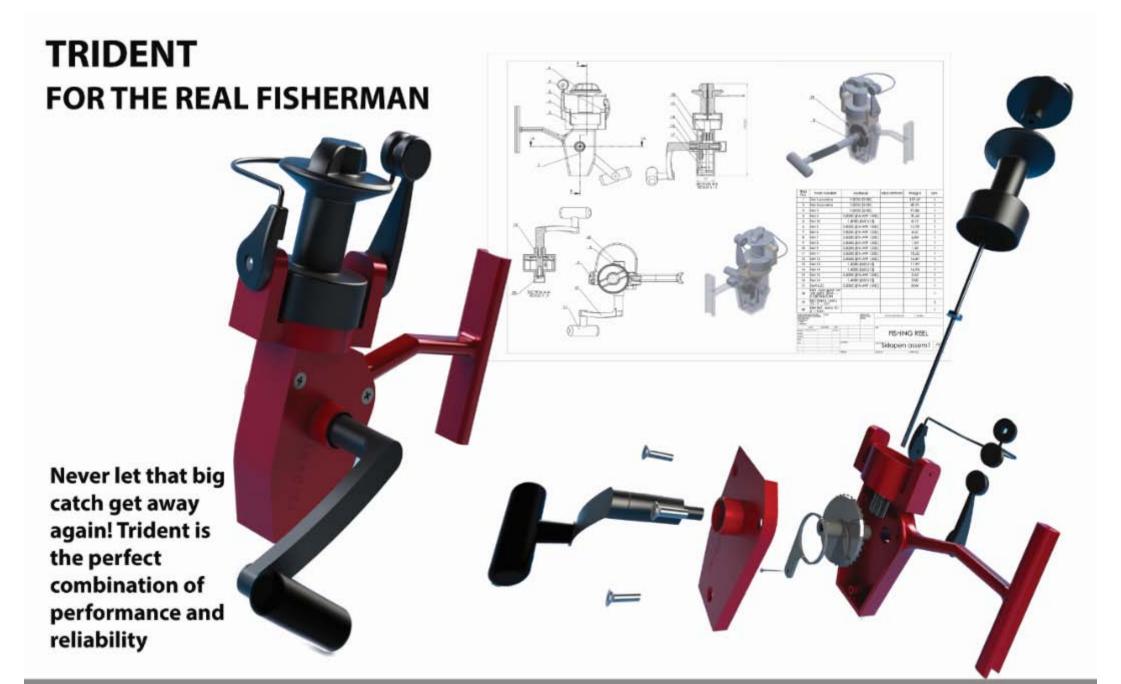






















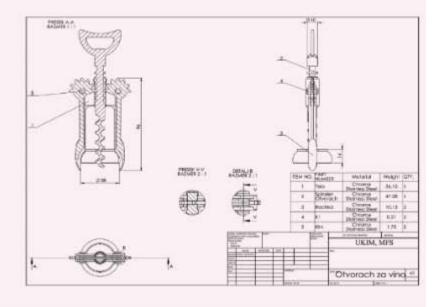
ROSÉ

ELITE CORKSCREW
WINE OPENER





THE ROSÉ CORKSCREW
IS MADE WITH
HIGH-QUALITY
CHROME STAINLESS
STEEL.
LIGHT AND EASY.
INCLUDES BEER
OPENER ON
TOP!



"Ss. Cyril and Methodius" University Faculty of Mechanical Engineering Mechatronics









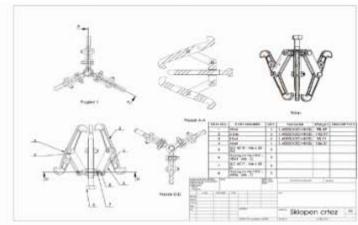
Student: Franka Grazhdani Course: CAD Leader: Doc. Dr. Ile Mircheski

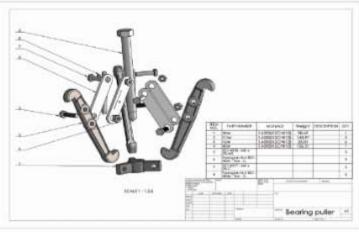
School Year: 2015/2016

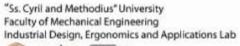
#### BEARING PULLER

#### THAT MAKES THE REMOVAL AND INSTALLATION OF BEARINGS SIMPLE AND EFFICIENT















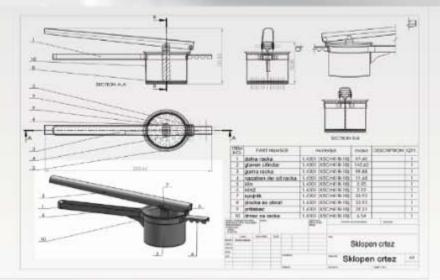


# STAINLESS STEEL POTATO RICER & FRUIT PRESSER



For creamy, mashed potatoes. With small holes in the base and a levered handle, you can push cooked potatoes through whole, skins and all.





#### ~EASY TO CLEAN

- ~MULTI PURPOSE- for pureeing baby food & works great for pumpkin,squash and yams.
- ~MADE OF 100% 18/8 STAINLESS STEEL

"SS. CYRIL AND METHOUDIUS" UNIVERSITY FACULTY OF MECHANICAL ENGINEERING



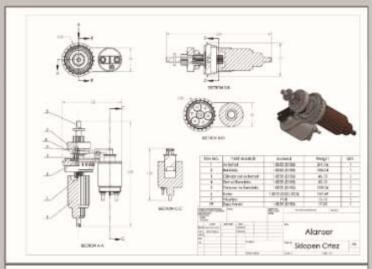






STUDENT: FLORINDA SEJFULLAI COURSE:COMPUTER AIDED DESIGN LEADER:DOC.DR.ILE MIRCESKI SCHOOL YEAR: 2015/2016

### Starter Motor





A starter motor is used to rotate an engine to begin the combustion process. A flex plate or flywheel is connected (bolted) to the rear of the crankshaft, these unit are fitted with a ring gear which anables the starter to be activated if the flywheel is worn it can cause a grinding noise when the starter is operated.

