

# Sketches, models and prototypes



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# Furniture



# Furniture design and modern CNC manufacturing in European context

2018-1-DE02-KA202-005058



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The aim of the project is to improve the competence of teachers and trainers of carpenter apprentices with a focus on furniture design and modern CAD and CNC based planning and production. August 2018—May 2021



# About the Erasmus+ project

## 2018-1-DE02-KA202-005058

Good practice: Teachers work in small European teams and receive a customer order from the host school. They develop different designs of a product and discuss their ideas in a team. The design process begins:

- \* Quick sketches with different shapes, sizes and proportions
- \* The top three designs will continue to be pursued
- \* The designs are drawn on tracing paper and highlighted in color
- \* The decision for a certain design is made
- \* Definition of dimensions, construction, connection, colors and joint patterns
- \* Cardboard models are glued and covered with Color
- \* Draw 3D and 2D drawings with the CAD system
- \* A prototype on a scale of 1: 1, 1: 5 ... is built in the workshop
- \* Materials, connections, CNC processing and the fittings are determined
- \* The production of individual parts in the workshop and the production of CNC parts
- \* Assembly of all parts of the furniture - evaluation

## CNC manufacturing



**Masterwood CNC machine**  
Tredu Tampere, Finland  
**S:t Eriks gymnasium**  
Stockholm Sweden



**Holzler CNC machine**  
Lycee Blaise Pascal  
Colmar, France



**Weeke CNC machine**  
Emil-Possehl-Schule  
Lübeck, Germany



**SCM CNC machine**  
NEXT UDDANNELSE  
KØBENHAVN,  
Denmark

## 2D and 3D CAD drawing systems

