

MORTISE/ TENON



RESEARCH

BORN OF JOINERY

<u>Sashimono</u>: Assemble things Japanese craftsmen used complex, interlocking joints to connect pieces of wood for structures and beams, helping to create a uniquely Japanese wood aesthetic



DIFFERENCES

Western Joinery

- Used most for forniture application
- The join is always visible
- Not geometrical shapes
- Possibility to connect different sizes and shapes of wood







Eastern Joinery

- Used for furnitures and architectures
- The join is mostly not visible
- Geometrical shapes
- Forniture joints presents natural shpaes contrary to architectural ones
- Frequent use of additional pieces to lock the whole join





EXPERT OPINIONS

WHAT KIND OF TRADITIONAL JOINERY ARE USED MORE COMMONLY? HOW THESE TRADITIONAL JOINERIES PERFORM IN THE MODERN FURNITURE? GENERALLY USED IN WHICH PART OF THE FURNITURE?

WEDGED NAIL TENON

Small triangular of wood Thin and strong Denser wood Smaller gap Strong structure



THROUGH NAIL TENON

Bigger addition of wood More resistence Denser wood Pieces connecction (T) Strong structure



MOODBOARD























CONCEPT

CULTURAL ASPECT

Our idea is to combine the anciant oriental traditional ways of join the wood, with the new technologies that allows you to simplify the process.

The main challenge will be mantaining the deep visual meaning of an old handworking practice, respecting:

The beauty of construction



DISTINGUISH POINT

The idea is to take two of the most used techniques in the eastern joinery: the locking system (Through tenon-wedge nail tenon)

Use it to create new fornitures with the same distinguish point wich can be easily recognized as oriental joinery technique.

Selecting 3 main INTERLOCK for the structure,



and 3 main categories of furniture,

SEAT TABLE STORAGE

the results will be a series of 9 objects, for 9 different uses and in 9 different "oriental look"





IGETA-SHIKUCHI

Stool



ARIGATA-TSURI-SHIKUCHI







Working











Bench

SAMPO-GUMI-SHIKUCHI





Shelves



Coffee

Clothing

Shoes

SEAT

TABLE

STORAGE



INSPIRATION

Feng shui:

is a Chinese metaphysical and philosophical system that seeks to harmonize individuals with their surrounding environment.







HOW IT WORKS

Using the bench as an "icebreaker" we would like to introduce the concept of CRAFT YOUR EXPERIENCE

You can download the file with the joint you prefeer, for the furniture you prefeer. In files you can find all the technical drawings for the furniture with everything you need for start realizing your stool,

3dm File settings





CRAFT IT

To push the idea of crafting with hand we provide for you everything you need, exept the "nail part" The nail part (that is impossible to realize by cnc) should be cutted by hand under our instruction.

The stool of course will be stable even witout the nail part





















FAB-LAB

We decided also to use bench because working in fab lab means adapt yourself to necessities. Fab Lab and co-working space are places in constantly moving. Hosting various events and workshop, they need a modular furniture to share not just knoledges but also the space itself.

Easy to build and use.





MATERIAL* & PRICES** cad.



- * materials are just suggestions, you can use any materials you like
- ****** prices are indicating to our references

TIME & CNC PRICES CNC €48 h BIG LASER € 42 h

Pocket SEAT = 45 mins Squares SEAT = 07 mins Outline SEAT = 08 mins Engraving SEAT = 02 mins

Fina time SEAT = 61 mins

Roughing LEG 1A = 20 mins Roughing LEG 1B = 20 mins Finishing LEG 1 = 5 mins

Fina time LEG 1 = 45:00 x 4 = 180 mins

Roughing LEG 2 = 18 mins Finishing LEG 2 = 10 mins

Fina time LEG 1 = 28:00 x 2 = 56 mins

Roughing LEG 3 = 22 mins Finishing LEG 3 = 11 mins

Fina time LEG 1 = 33:00 x 2 = 66 mins

Locking UNDERSEAT = 3 mins *Big laser

FINAL TIME 1 STOOL 366 MINS

FINAL PRICE 1 STOOL WORKING **290 €**

CRAFT YOUR EXPERIENCE







PROTOTHYPE











SAMPO-GUMI-SHIKUCHI

CRAFT YOUR EXPERIENCE







mortise/tenon @ wemake Segui già

79 post 1.222 follower 831 profili seguiti

Mortise and Tenon it's a project realized by Giacomo Conti and Shu Yang aims to give people who want to realize their own fornitures, an easy and personal way to do it. You just have to download the file you prefeer, bring materials you like and start to CRAFT YOUR EXPERIENCE

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www.wemake.cc/event



THANKS/ FOR ATTENTION