

1

1. Seated Dovetail

Koshikake-ari-tsugi

This dovetail lap joint combines the self-locking quality of the dovetail with the strength of a lap joint. It is commonly used to splice groundsills to buildings.



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3. Inserted Tenon Joint

Chigiri-tsugi

Both halves of this joint are identical, enabling easier repetitive making for multiple components. The floating tenon locks both halves together. Used for splicing, it has good tensile strength.

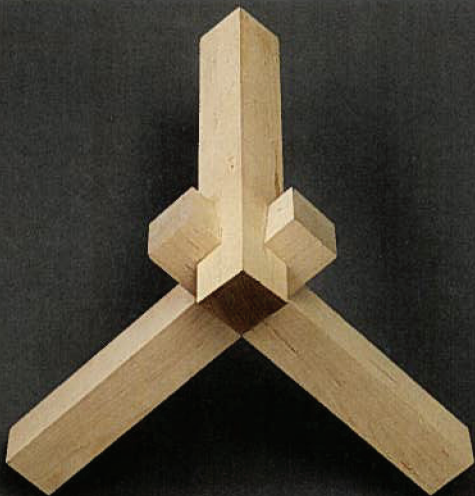
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5. Cross Stub Tenon Joint *Juji-mechigai-tsugi*

This joint is used to locate posts together. It has good rotational and shear resistance but no tensile or bending strength, so it's used where timbers meet in compression.

8



8. Azumi Joint

"We wanted to have angled table legs and we couldn't find a joint that worked with one coming in at an odd angle. So we decided to try to design one," says Azumi, who developed this joint with Benchmark for a new table. "The complexity of the joint we ended up with wasn't initially intentional, but it needed to be this way to stabilize the structure." The finished table—utilizing four of these joints—was unveiled at Rocket Gallery during the 2010 London Design Festival. |||