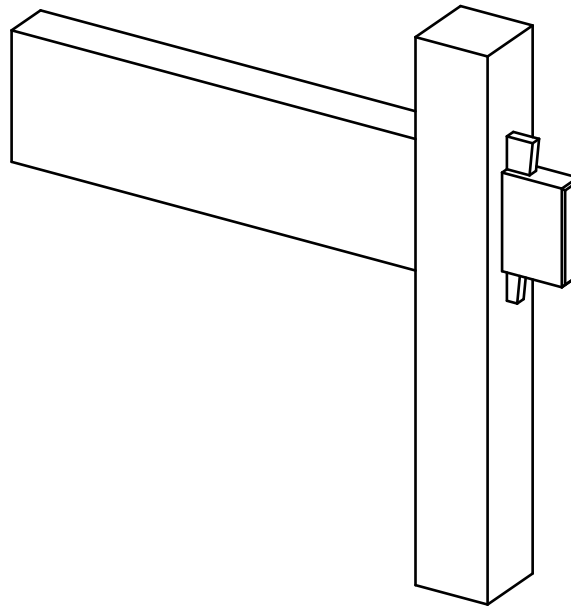


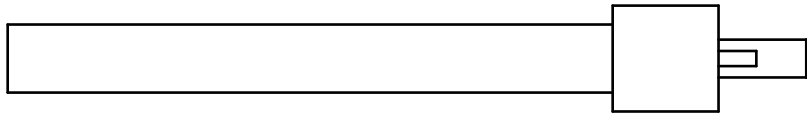
Tusk tenon



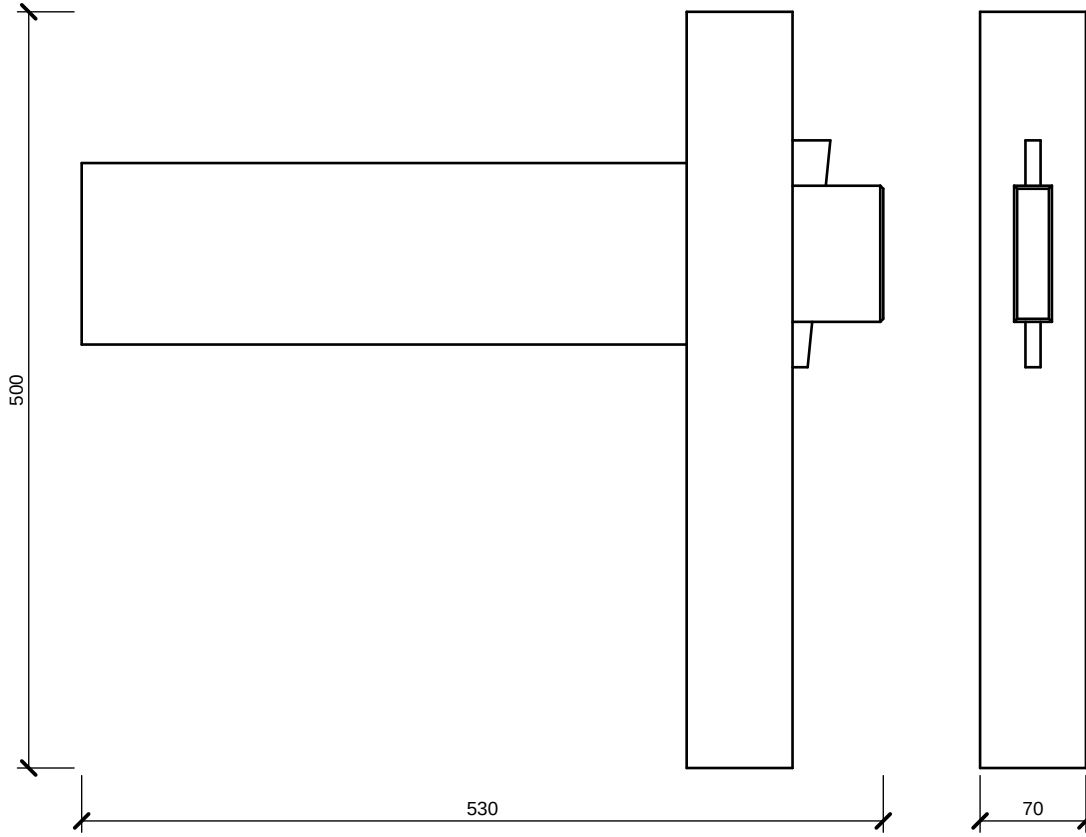
parts	3
overall	530 x 70 x 500 (W x D x H)
material	oak
date	2026-10-25
made with	woodwright 0.9.0

Contents

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1 leg	5
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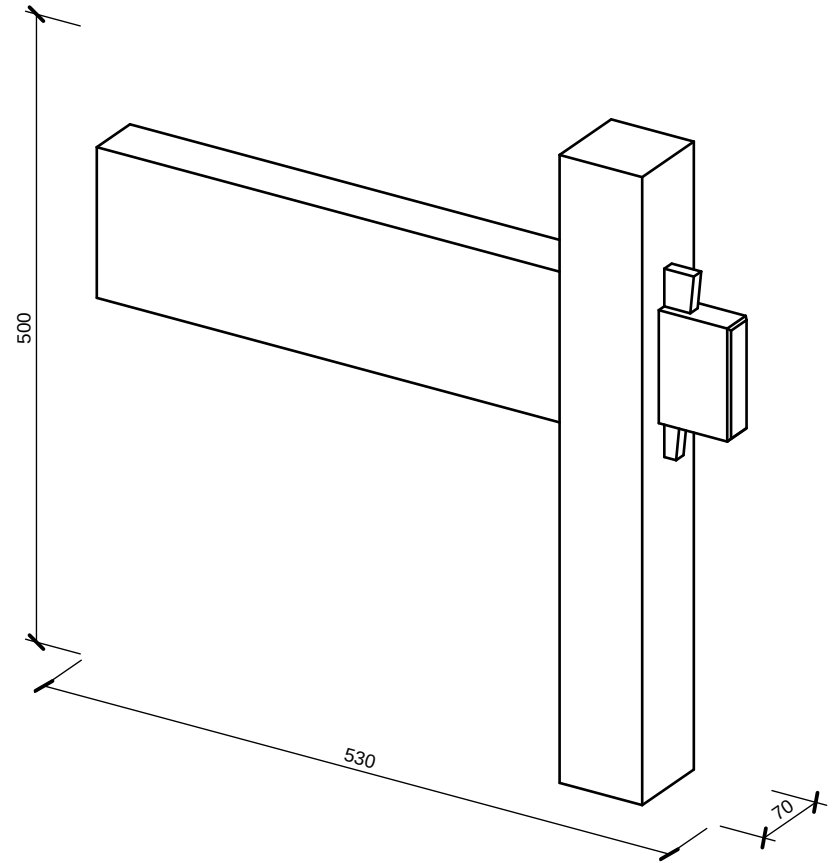


TOP



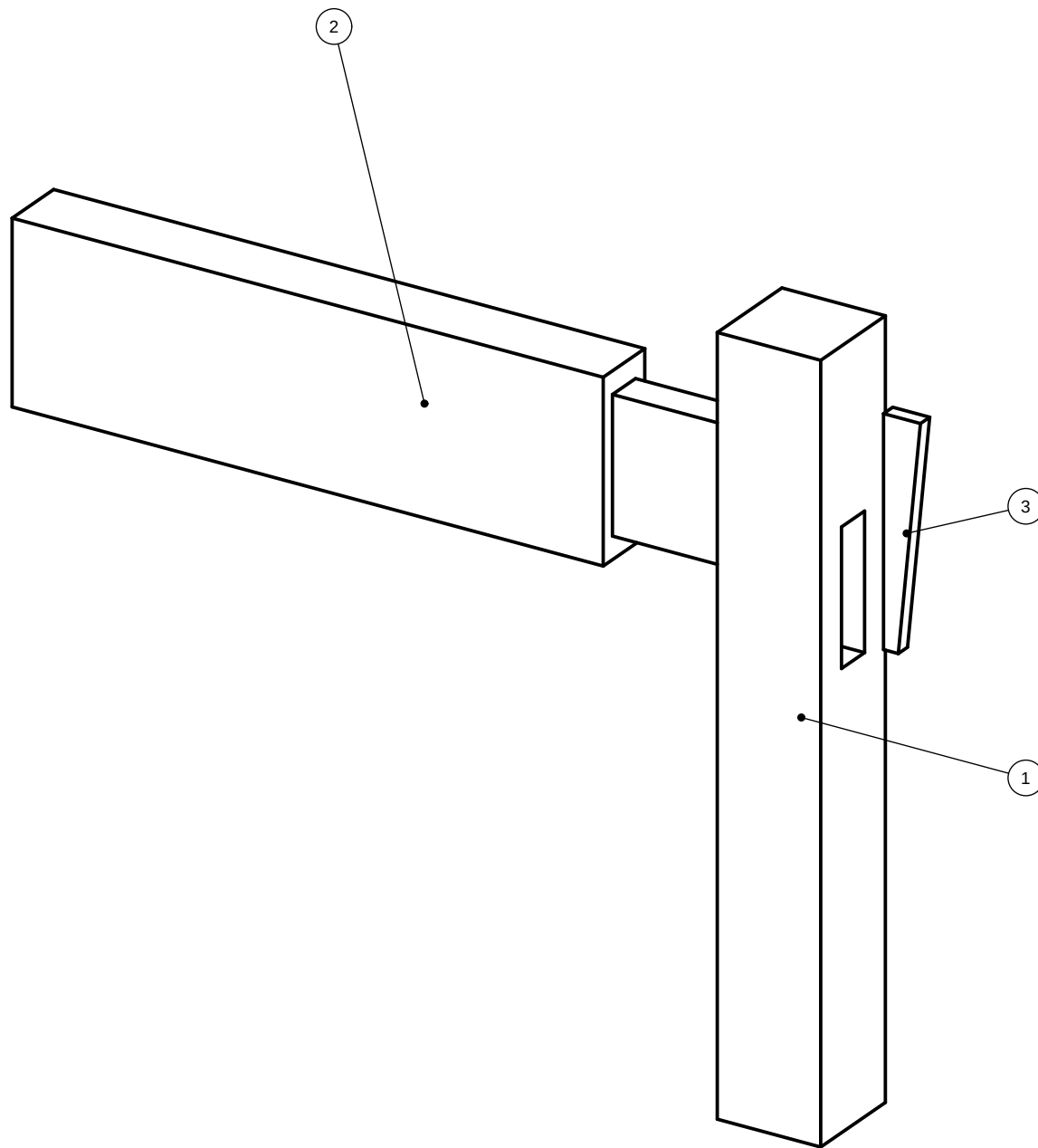
FRONT

RIGHT SIDE



ISOMETRIC

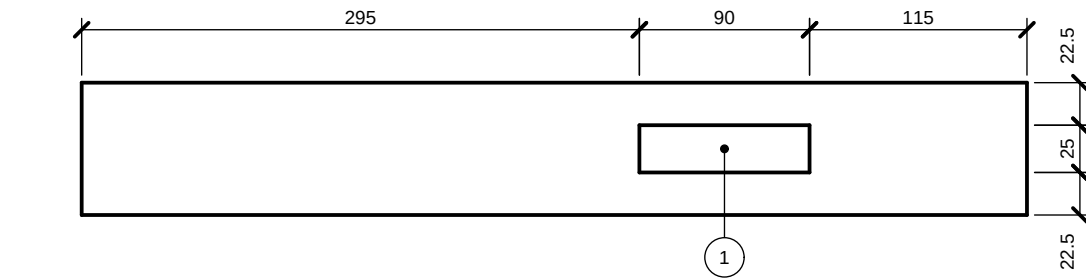
assembly	tusk_tenor
parts	3
overall	530 x 70 x 500 (W x D x H)
material	oak
scale	1:5, mm



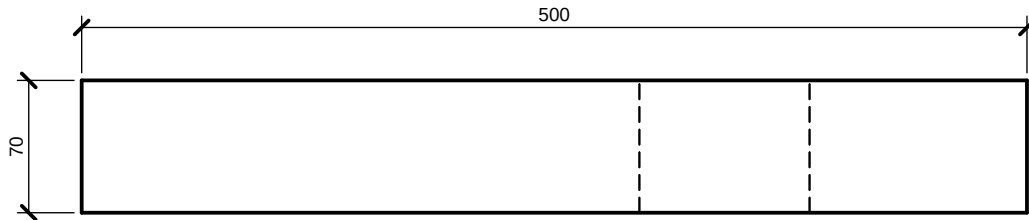
no.	part	qty	cut size (L x W x T)	material
1	leg	1	500 x 70 x 70	oak
2	stretcher	1	530 x 120 x 45	oak
3	wedge	1	150 x 25 x 10	oak

EXPLODED

assembly	tusk_tenon
parts	3
overall	530 x 70 x 500 (W x D x H)
material	oak
scale	not to scale, mm



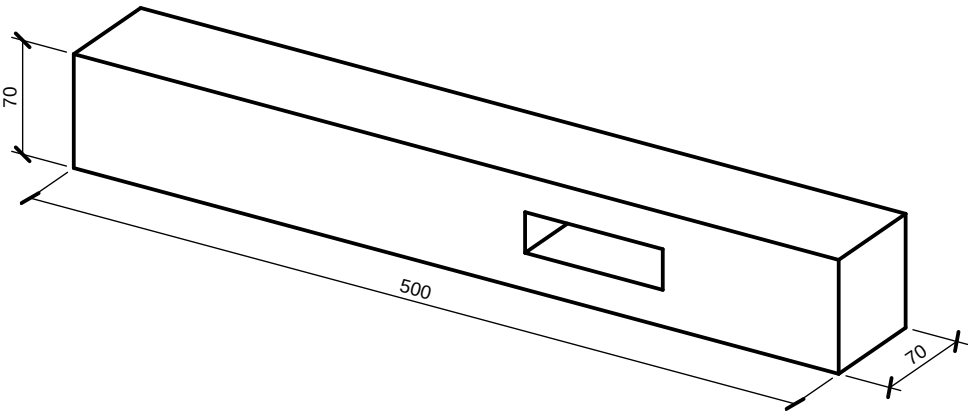
BACK EDGE



TOP FACE



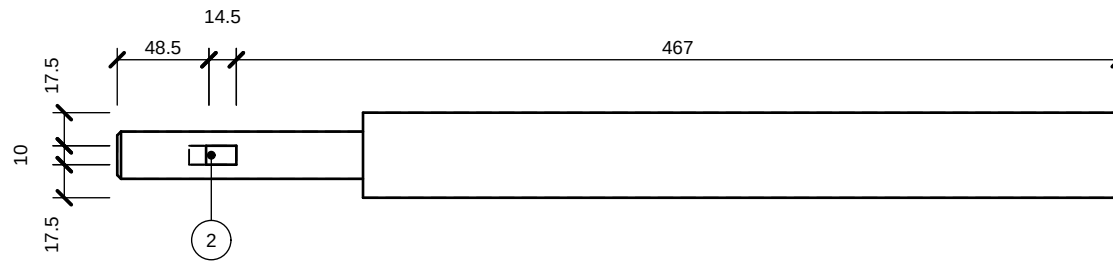
FRONT EDGE



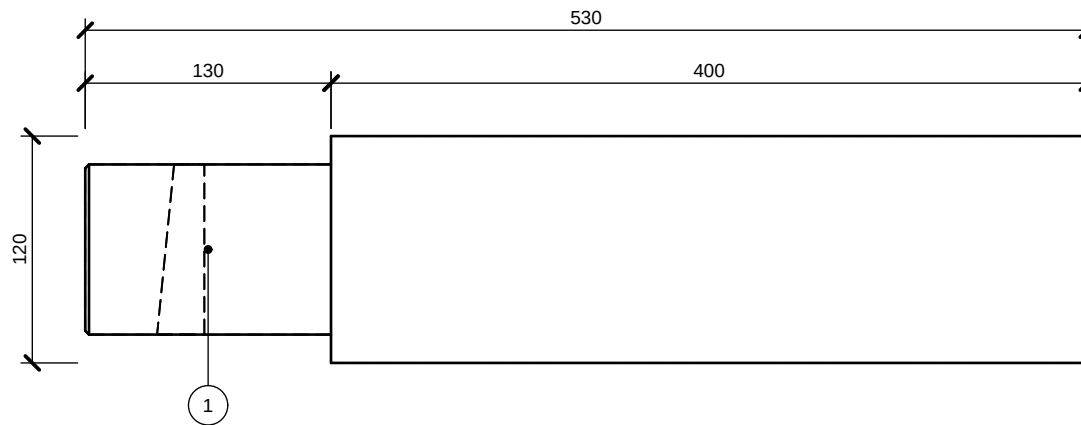
ISOMETRIC

1 through mortise 90 x 25 mm in back_edge

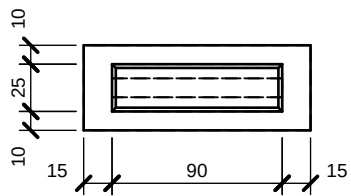
part	leg
of	tusk_tenon
make	1
cut size	500 x 70 x 70
material	oak
scale	1:4, mm



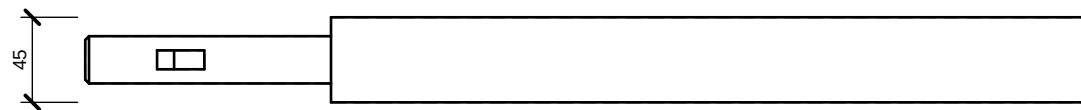
BACK EDGE



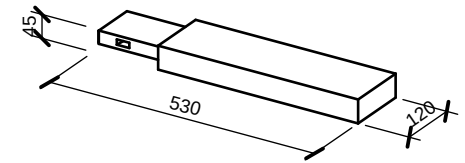
TOP FACE



LEFT END



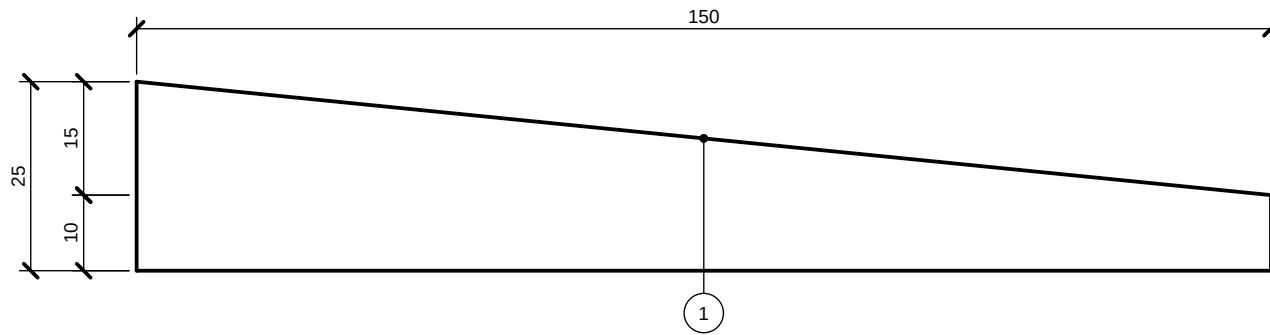
FRONT EDGE



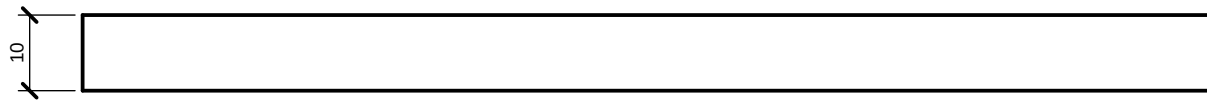
ISOMETRIC

- 1 tenon 90 x 25 mm, 130 long, end chamfered 2 mm, on left_end
- 2 wedge mortise 10 x 25 to 16 mm through the tenon on left_end, its outer end sloped 1:10, from 3 inside leg.front_edge

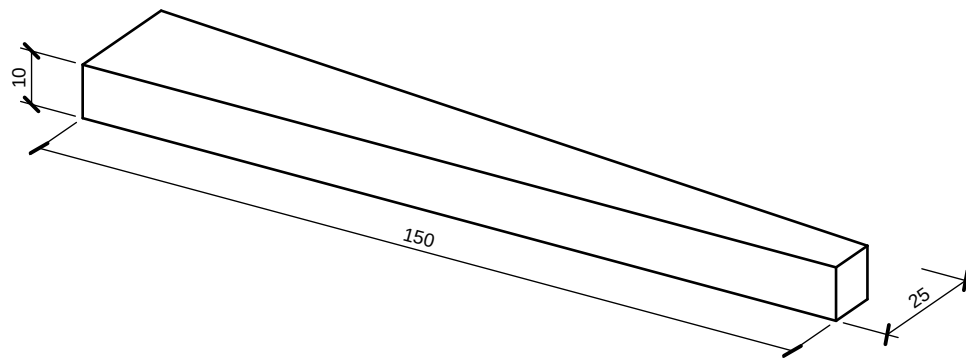
part	stretcher
of	tusk_tenon
make	1
cut size	530 x 120 x 45
material	oak
scale	1:4, mm



TOP FACE



FRONT EDGE



ISOMETRIC

1 taper 15 mm on back_edge towards right_end

part	wedge
of	tusk_tennon
make	1
cut size	150 x 25 x 10
material	oak
scale	1:1, mm

Cut list

leg	500 x 70 x 70 mm	oak
	- through mortise 90 x 25 mm in back_edge	
stretcher	530 x 120 x 45 mm	oak
	- tenon 90 x 25 mm, 130 long, end chamfered 2 mm, on left_end	
	- wedge mortise 10 x 25 to 16 mm through the tenon on left_end, its outer end sloped 1:10, from 3 inside leg.front_edge	
wedge	150 x 25 x 10 mm	oak
	- taper 15 mm on back_edge towards right_end	

Appendix: source

Made with woodwright 0.9.0, build123d 0.13.0, Python 3.14.4.

To make these plans again:

```
uvx --python 3.14 woodwright==0.9.0 export joints.tusk_tenon
```

joints.tusk_tenon, in woodwright/examples/joints.py

```
def tusk_tenon(
    leg_length: float = 500,
    stretcher_length: float = 400,
    width: float = 120,
    protrusion: float = 60,
) -> Assembly:
    """A tusk tenon with the wedge parallel to the stile: a knock-down joint
    of a workbench stretcher through a leg, the wedge upright.

    A 45 x 120 mm stretcher goes through a 70 mm square leg with a 90 x 25
    mm tenon (15 mm shoulders at the edges, 10 at the faces), its end
    chamfered, standing 60 mm proud. A 10 mm thick wedge, 150 mm long and
    25 wide at its head, tapered 1:10 at its back edge, is driven down
    through a mortise from the top edge of the tenon to its bottom edge,
    bearing on the outer face of the leg and pulling the shoulders tight;
    knocked up, it frees the stretcher.
    """
    return _tusk_tenon(
        "tusk_tenon",
        leg_length,
        stretcher_length,
        width,
        protrusion,
        tenon_thickness=25,
        wedge_head="right_end",
        wedge_size=(150, 25, 10),
        wedge_slope=10,
    )
```