compare design-value vs measured-value of laser-cut parts to calculate kerf-loss and actual press-fit-margin

laser cutter = Trotec Speedy 300 work = MDF t2.5mm

kerf-loss average value = both-side 0.0898mm, single-side 0.0449mm

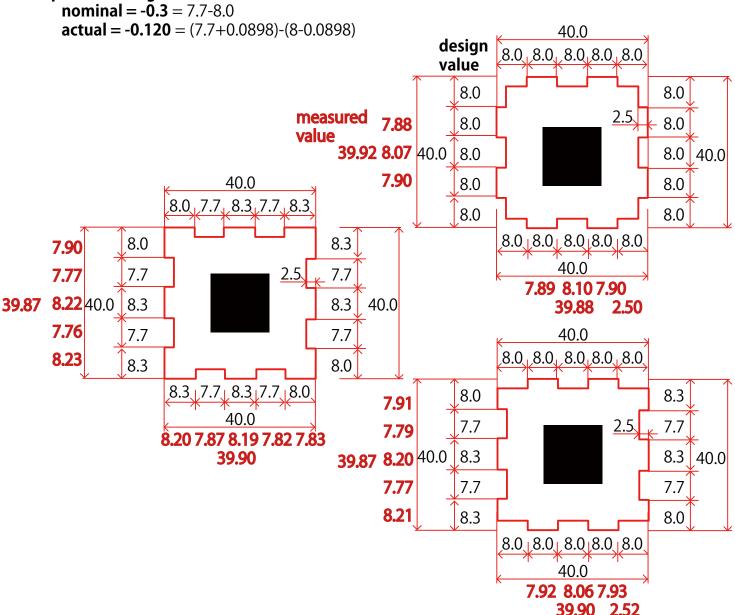
convex design width 8.0: **measured ave 7.911(-0.089)** = 7.88,7.90,7.89,7.9,7.91,7.92,7.93,7.90,

convex design width 8.3: **measured ave 8.210(-0.090)** = 8.20,8.21,8.22,8.23,8.19

concave design width 7.7: **measured ave 7.797(+0.097)** = 7.79,7.77,7.77,7.76,7.87,7.82

concave design width 8.0: **measured ave 8.077(+0.077)** = 8.07,8.10,8.06

press-fit-margin



remaining thickness of engraved area = MDF thickess - engraved depth

measured before removing burnt residue on the engraved area using cotton swab.

measured ave 1.43 = 1.45, 1.40

measured after removing burnt residue on the engraved area using cotton swab.

measured ave 1.21 = 1.26, 1.23, 1.17, 1.18