

# Supplementary Material for “Can we Jointly Register and Reconstruct Creased Surfaces by Shape-from-Template Accurately?”

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In this document, we provide supplementary information about the evaluation of state-of-the-art methods on creased datasets. More specifically, we give the parameters used to evaluate **ReD12**, **ReJ14**, **MDH09** and **LM16**. These parameters were set by hand to obtain the best average error on all datasets.

For all methods, we use the same size of mesh grid:  $N_{Gridx} = N_{Gridy} = 100$ .

For **MDH09**, there is no free parameter.

For **ReD12** and **ReJ14**:

- $\text{phi.nC} = 100$
- $\text{phi.er} = 0.001$
- $\text{eta.nC} = 50$
- $\text{eta.er} = 0.01$
- $\text{delta.nC} = 20$
- $\text{delta.er} = 0.01$

For **LM16**:

- $\text{cst\_weight} = 200.00$
- $\mu = 0.016$