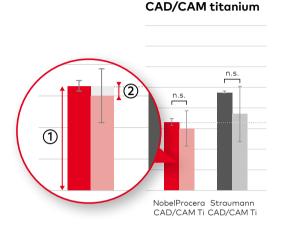
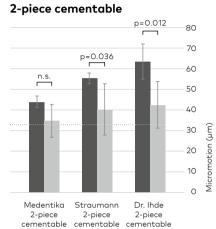
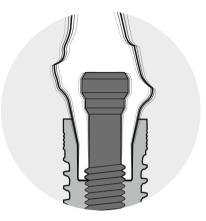
# NobelProcera® implant-abutment interface

## Lowest initial micromotion and minimal settling effect in-vitro

#### Micromotion before and after cyclic loading (mean)







Micromotion – displacement of abutment relative to the implant body.

- 1. Lowest initial micromotion compared to all groups (p≤0.001)
- 2. Minimal settling effect

### Study findings

- NobelProcera abutments showed significantly lower level of initial micromotion vs. all other tested products, pairwise comparisons p ≤ 0.001.
- Micromotion is decreased by cyclic loading, an effect called settling.
- Minimal settling effect with NobelProcera abutments after load cycling: mean micromotion pre- vs. post- cyclic loading: 33.15 µm vs. 30.03 µm.

#### **Clinical relevance**

NobelProcera abutments remain close to the position reached during insertion and hence bear a low risk of screw-loosening and need for tightening.



Comparison of implant-abutment micromotion before and after masticatory simulation



6 types of abutments, all mounted on Straumann® Tissue Level implants (n=5)



Karl M, Taylor TD. Effect of cyclic loading on micromotion at the implant-abutment interface. Int J Oral Maxillofac Implants. 2016;31(6):1292-1297.



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