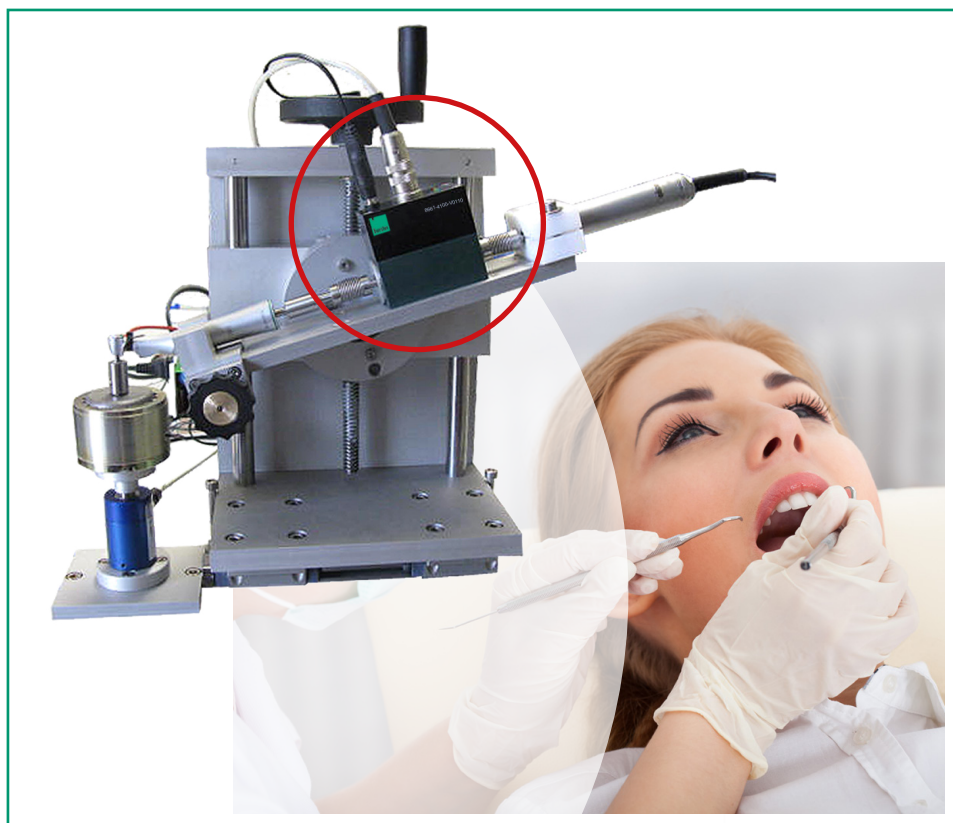


Torque monitoring for screw connections in titanium dental implants

burster



Contact

- ☎ +49-7224/645-45 or -78

Sector

- Medical technology

Product name

- Torque sensor

Features

- High dynamic performance
- High sensitivity for bidirectional torque measurements
- Standard output signal
- Torque, speed and power measurements
- Visual status indicator for distance monitoring

Task

The dentist has the job of screw-fitting crowns to titanium dental implants. The torque needs to be monitored during implant screw-fitting. The torque typically lies in a range of 15 to 50 Ncm with a speed of 1500 to 2500 $\frac{1}{\text{min}}$.

Specific Requirement

- High reproducibility
- High speed
- Rugged design
- Ultra-low torques
- Extremely low-friction sensor bearing

Solution

The 8661 torque sensor was selected for the torque measurement. The test setup measures an efficiency factor by comparing the drive and drag, i.e. the torque and speed, to give a quality rating.

