



Position of the rubber grip on golf clubs

As well as the faultless condition of the golf club head and shaft, it is also vital that the rubber grip is positioned correctly on the club shaft. If the rubber is not located in exactly the right position or the rubber is twisted, the club will not be purchased by customers. Therefore, it must be checked during production to determine whether the rubber grip has been correctly applied.

The design of the measurement system should be as simple as possible and the system should be easy to use. Therefore, it is important that the measurement system is able to cope with changing surface textures. The sensor is also used in harsh production environments and so must be extremely robust.

scanCONTROL is used in production for this type of inspection. The rubber grip is moved at right angles to the laser line. The condition of the rubber can be determined from the measured profiles.

scanCONTROL functions completely without making contact with the target surface. Therefore, the rubber is not damaged during measurements, which can occur if contact measurement methods are used. A special housing protects the optical system against dust and other airborne contaminants. The scanner is connected to a PC via a FireWire interface. A customer-specific software application on the PC enables evaluation of results.

Requirements for the measurement system

- High resolution and accuracy
- Very fast profile measurement (1kHz)
- Non-contact measurement system

Ambient conditions

- Temperature: 10 – 30°C
- Protection class: IP67 (sensor head)

Reasons for choosing the system

- Easy integration into client-software environment (system solution by integrator)
- Maximum resolution
- Direct process control using the data