



### 1. Quality control of the surface of a cone on a cogwheel

The surface of the cone on a cogwheel should be checked. The surface of a proper cone looks very homogeneous; the surface of a bad cogwheel shows grooves and scratches. For investigations the cogwheel can be turned around its axis. The distance to the object should be around 200 mm. At this, a color

sensor type **SPECTRO-3-FIO** in connection with an optical fiber type **R-S-R2.1-(6x1)-1200-67°** and an optical front end type **KL-M34/62-R2.1** is used. As shown in the screen shots, a proper differentiation of cogwheels is possible.

