



### 1. Gloss control of cutting rings

The gloss of cutting rings should be controlled. For this purpose a color sensor type **SPECTRO-3-FIO-JR** in connection with an optical fiber type **R-S-R2.1-(6x1)-1200-67°** and an optical frontend type **KL-8-R2.1** are used. The distance of the frontend **KL-8-R2.1** to the cutting ring is roughly 11mm and the spot size at this distance 3mm x 0.5mm. A proper differentiation between shiny and matt cutting rings is possible, as shown in the screen shots.

