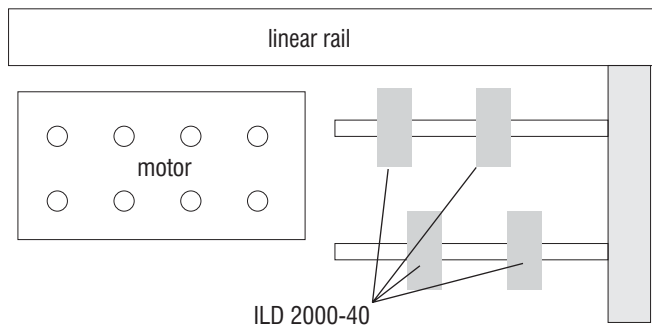


Inspection of valve cones

During the automated assembly of cylinder heads, the proper seating of the valve cones is monitored with optoNCDT laser-based triangulation sensors. This prevents valves from dropping into the combustion chamber. The axial adjustment to the relevant measurement position occurs via electric motor.



Measurement system requirements

- Measurement distance: > 100 mm
- Measurement range: 40 mm
- Resolution: < 0.002 mm

Structure of the measurement system

- 4 x ILD 2000-40 Laser displacement sensor
- 2 x PS 2000 Operating device for laser sensor
- C 2000-3 Sensor connecting cable

Reasons for the system selection

- Large free space between sensor and target
- High resolution and stability.
- Good profile and edge detection.

