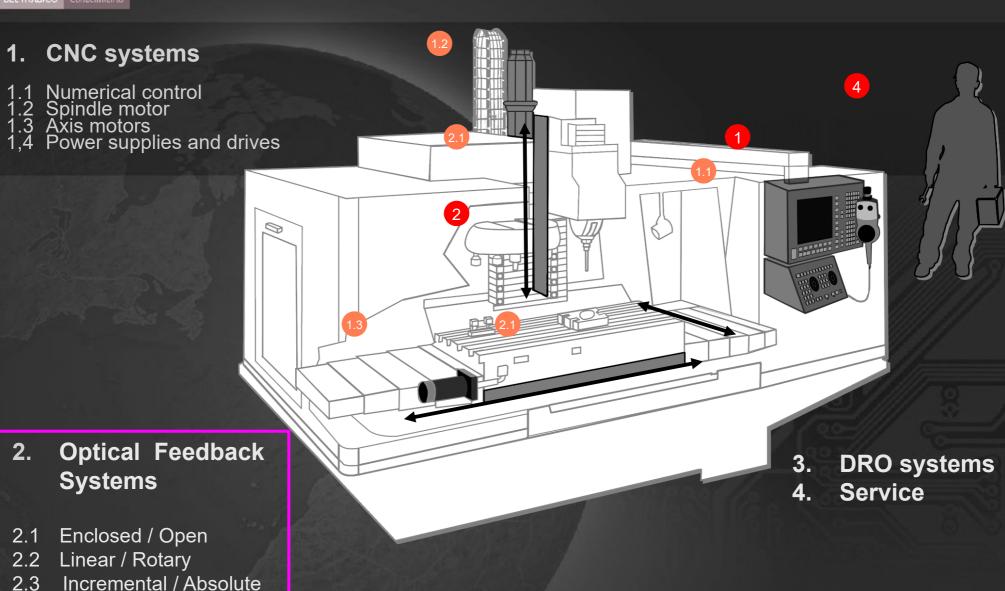


Automation Systems

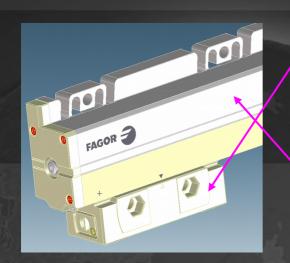






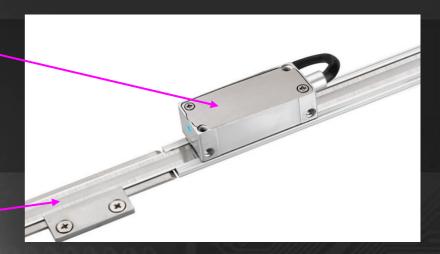
Optical Feedback Systems





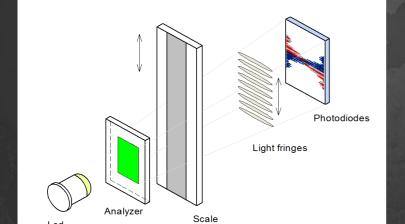
Reading Head (moving)

Scale (Fix)





Example of Scale: diffraction Grating ~20 μm



WORKING PRINCIPLE

The optical interaction between the scale and the analyzer generates an optical pattern that is modulated according to the relative movement between the scale and the reading head.

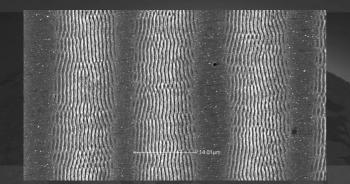
Such optical modulated pattern is transformed into electrical signals to be sent to the Controller

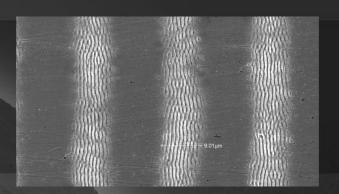


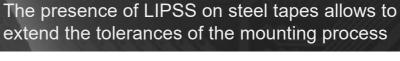
Laser Texturization Application

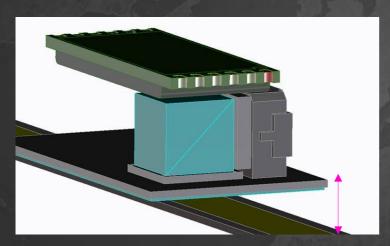




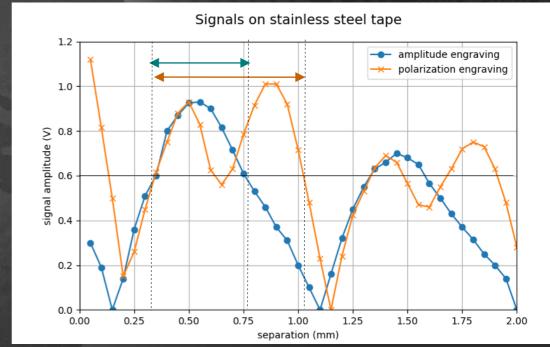








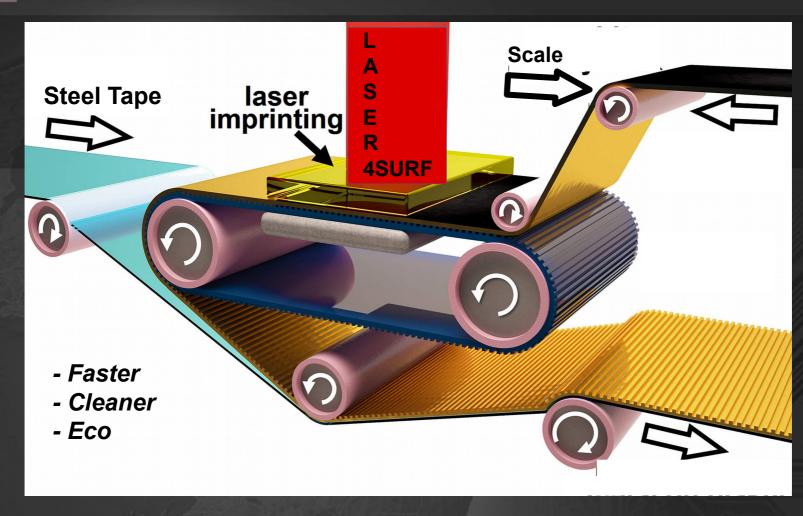
Gap between Scale and Reader Head





Laser Texturization Application Continuous Laser Engraving Process





- Lipps: Phase, Amplitude and Polarization behaviour
- Quality and definition of the lines