

Handling of magnetic scales

Magnetic scales have to be magnetized with a magnetic pattern that can be changed by various influences. Therefore, some precautions must be taken to maintain the quality of the magnetic pattern permanently.

- Remove all strong magnets near the magnetic scales - the stronger the magnet, the higher the risk of damage.
- Keep strong magnets, even for short moments, away from the magnetic scales - the farther away the lower the effect on the scale.
- Make sure that no contact can occur during assembly between the magnetic scales and strong permanent magnets or electromagnets.
- Avoid all materials between the scale and, for example, a magnetic brake, being magnetic.
- When storing, supplying and picking parts, make sure that the magnetic scales are not transported with other magnets in a stacked or contiguous manner. These include e.g. magnets for linear drives and possibly permanent magnets for electric motors.
- Store the scales without additional load from other parts or material and avoid mechanical damage to the elastomer surfaces.
- Remove all tools with magnetic properties from the assembly area, e.g. screwdriver with black tips (typical sign for magnets),
- Do not use magnet holders or handling magnets for the magnetic scales.
- Do not use lamps with a magnetic base near the magnetic scales.
- Avoid possible inductance caused by high voltage power lines near magnetic scales.
- Do not store magnetic scales touching with the scale sides, as this may cause magnetic interference. At high accuracies, a distance of at least one pole length between the scales must be observed.
- Linear scales with steel band may not be bent. The material is optimized for linear use.