

max[®] linear axes - advice for problem-solve



| | problem: | possible cause(s): | remedy: |
|----|--|--|---|
| 1 | metal running noise | runners worn out | replace runners |
| | | guide shafts worn out | turn or replace guide shafts |
| | | guide shafts not lubricated | lubrication of felts at carriage |
| 2 | squeaky running noise | felts not lubricated | lubrication of felts at carriage |
| 3 | tearing running noise | belt sucking on drive shaft | treat belt (toothed side) with silicon spray |
| 4 | scraping noise in flange | screw of coupling is scraping in flange housing | check flange / tighten screw of coupling |
| 5 | drive shaft: increased wearing out of bearings | axial pressure on bearings due to too short flange | check dimension (if max-flange: see drawing "Flanschmontage") |
| | | axial pressure on bearings due to wrong mounted coupling | check mounting of coupling (if max-flange: see drawing "Flanschmontage") |
| 6 | belt: abrasion of particles | vibration of motor in operation or stoppage | check and adjust motor parameters |
| 7 | belt: lateral abrasion | belt tension one-sided or too low | check and adjust belt tension |
| 8 | belt: dirt on non-toothed side | dirt brought in through belt and idlers (MZS-axes) | clean or replace belt and idlers |
| 9 | lateral clearance of carriage | runners not adjusted or worn out | adjust runners with eccentrics, replace runners if needed |
| 10 | carriage can be moved hardly | bearings of drive shafts broken | replace bearings of drive shafts |
| 11 | irregular lapse of position of carriage | belt tension too low | check and adjust belt tension |
| | | increased backlash due to broken coupling or plastic sprocket | replace coupling (plastic sprocket) |
| | | connection between motor and gearbox loose | degrease spacer sleeve and motor shaft tighten clamp |
| 12 | lapse of position according to belt pitch | belt skips over due to low belt tension | check and adjust belt tension |
| 13 | belt worn out rapidly | overload or punch due to drive overload or punch due to application | check acceleration |
| 14 | coupling broken | | choose smaller motor |
| 15 | runners broken | | check periphery |
| 16 | guide shafts worn out | | check calculation |

We recommend to purchase spare part sets which are available at max[®] GmbH. We are pleased to support you.

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assembly instructions with further references and exploded views to download under www.max-qmbh.com

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