

表面处理

Surface treatment

出于防锈目的,本公司可对滚珠丝杠实施表面处理。本公司的防锈表面处理以黑铬处理为标准。需要其他表面处理时,请垂询本公司。

Surface treatment can be possible for the purpose of rust prevention. Black Chrome treatment(BCr) is KSS standard surface treatment for the purpose of rust prevention. Please inquire KSS if other surface treatments are needed.

●KSS黑铬处理滚珠丝杠的特点

- 涂层薄(2~3 μm),可安装配合零件。
- 在严格的工序管理下,涂膜的厚度均一,不会影响滚珠丝杠的动作特性。
- 覆膜密接性良好,具有优异的防锈能力。
- 是MIL标准(MIL-DTL-14538D)公认的表面处理品。
- 需提高滑动特性时,可一并进行氟树脂涂层。

●Feature of KSS Ball Screws with Black Chrome (BCr) coating

- Due to thin film thickness(2~3 μm), mating part can be applicable with BCr.
- Due to strict production management, film thickness can be treated equally and smoothness is kept.
- High anti-rust ability is possible.
- The surface treatment is officially authorized by MIL standard (MIL-DTL-14538D)
- To improve sliding characteristics, BCr+fluorine resin coating is also available.



照片 A-111 : 黑铬处理品
Photo A-111 : Black Chrome coating

●防锈能力试验数据 Examination data of anti-rust ability

根据盐水喷雾试验,使用标准试样进行的防锈能力评估结果如下所示。

Based on the salt spray corrosion test(JIS Z2371), anti-rust ability has been evaluated, as follows.

- 标准试样 / Standard test piece : 70mm \times 150mm \times 1mm(SPCC材/ material=SPCC)
- 数据 / Data : 盐水喷雾试验24小时后的外观和评价数法的评估结果(数值越小,腐蚀越严重)
Evaluated by appearance and rating number method
after 24 hours of salt spray corrosion test.(The less number, the more corrosion)

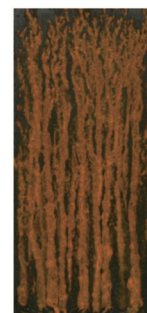
| | Rating number(Average) 评价数(平均值) |
|-------------------------------------|------------------------------------|
| Sample A(BCr coating) 试样A(BCr处理) | 9.3 |
| Sample B(R coating) 试样B(R处理) | 9~8 |
| Sample C(M coating) 试样C(M处理) | 3~4 |



Sample A
试样A



Sample B
试样B



Sample C
试样C

●RoHS指令的符合性 About RoHS compliance

KSS黑铬处理后的滚珠丝杠的Cr⁺⁶量低于RoHS指令规定的阈值,完全符合RoHS指令。

The Cr⁺⁶ amount of KSS Black Chrome(BCr) coating is less value than the based on RoHS regulation.