Saw wood dust Test

Test content

This test uses a total of 4 groups of products (using 2 rails match with 2 lubrications methods) by putting in saw wood dust and moving them within.

Rail

1. Tapped from top rail plus hole plugs (AR)
2. Tapped from bottom rail (ARU)

Runner Block

1. Installation of standard seals (S), using grease
2. Installation of lubrication storage Pad and standard seals (SZ), using grease

Testing conditions

1. Stroke = 600mm
2. Total testing stroke = 30m

Test items

1. If Saw wood dust enters the inner parts of the runner block
2. If Saw wood dust enters the ball raceway

Test results

Tapped from bottom (oil)

Tapped from bottom (grease)

Checked Item / Installation status	Saw wood dust enter inner part of runner block	Saw wood dust enter ball bearing runner area
ARU Rail SZ Type Runner Block (Grease oil)	No	No
ARU Rail S Type Runner Block (Grease lubrication)	No	No
AR Rail SZ Type Runner Block (Grease Oil)	Yes (belly area)	No
AR Rail S Type Runner Block (Grease Lubrication)	Yes (belly area)	No

Test result

- The Tapped from top rail has hole plugs, leading to unevenness of rail, allowing some saw wood dust to enter the runner block belly area. The 2 sides of the runner block belly area is protected by stainless steel reinforcement plates and end seals that completely protect the ball bearing, so the ball bearing runner area is fully protected from Saw wood dust.
- The tapped from bottom rail has even rail surface, so the ball bearing runner area is fully protected from Saw wood dust.