

PRODUCT ADVISORY NOTICE

KEEPING YOU INFORMED OF PRODUCT CHANGES

To: All Customers, Sales Representatives and Distributors

Date: 1/11/2016

Subject: This Product Advisory Notice is to alert you that Grayhill encoder Series 63K will be using ball bearings with a plastic cage instead of a metal cage.

Description of Change

63K Encoders make use of two ball bearings (see fig. 1) that mate with the shaft to ensure high speed and high life cycles. Grayhill's bearing supplier changed a component inside their standard product from metal to plastic (see fig. 2). The supplier's qualification study is complete (see fig. 3), and it shows the new bearing design is more robust. Because the material is changing, Grayhill also intends to run our own battery of qualification tests on completed units. This full re-qualification of the new bearings will be completed in May 2016, when the 300 million cycle rotational life test is completed..

As of 1/7/16, the following tests have been completed and the units passed: Operating Temperature Range, Storage Temperature Range, and 30 million cycles of total Rotational Life. Weekly updates of qualification testing will be published on Grayhill's website at <http://www.grayhill.com/about-us/product-advisory-notices/>

Reason for Change

Grayhill's supplier changed a component inside their standard product from metal to plastic. The supplier considers this a product improvement (see page 2).

Effective Date

1/25/2016

Part Numbers Affected

63KS100	63KS32	63K25-060
63KS100-020	63KS32-060	63K256
63KS100-040	63KS50	63K256-025
63KS100-060	63KS50-025	63K256-040
63KS100-100	63KS50-040	63K256-050
63KS100-250	63KS50-120	63K256-060
63KS128	63KS64	63K256-240
63KS128-040	63K100	63K256-250
63KS128-060	63K100-025	63K32
63KS128-180	63K100-050	63K32-070
63KS128-250	63K100-250	63K50
63KS25	63K128	63K50-025
63KS25-060	63K128-020	63K64
63KS256	63K128-040	63K64-050
63KS256-020	63K128-050	63K64-060
63KS256-025	63K128-060	
63KS256-100	63K25	

Action Required

Unless you notify us that you want to wait until qualification testing has completed (May 2016), we will fill all open orders with encoders with the changed ball bearing starting on 1/25/2016. The standard Grayhill warranty will apply.

Please contact your Grayhill, Inc. sales associate with questions or to request more information.



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Figure 1. Ball Bearing

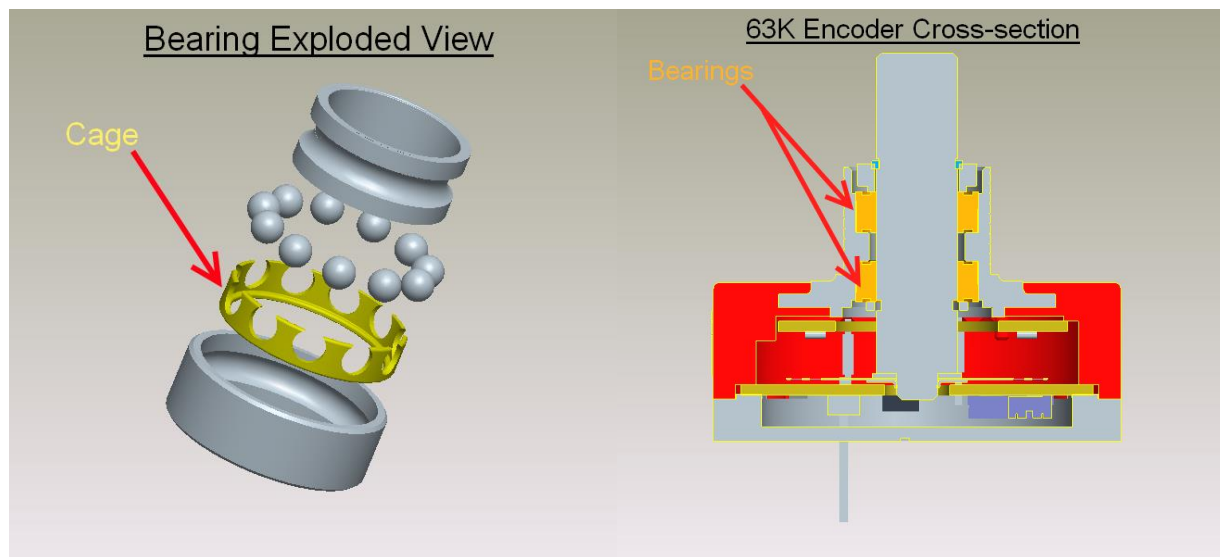


Figure 2. CAD Diagrams

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Ball Bearing Life Test Comparison Between Iron and Plastic Retainer

TEST BEARING : 6202 (Seal: DDW, Grease : WR3) Iron Retainer vs Plastic Retainer

TEST CONDITION : Rotation 11,000min⁻¹ , Radial Load 20kgf , Outer Ring Temp 180°C

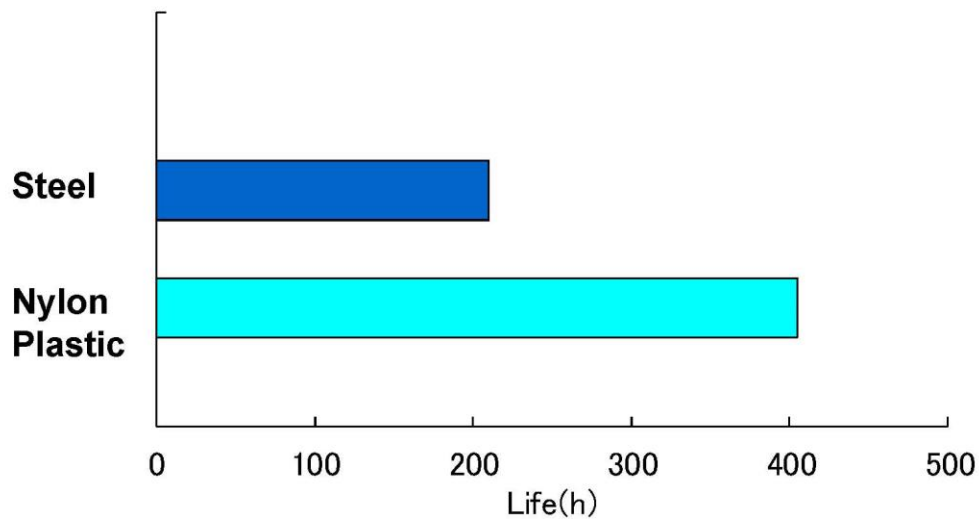


Figure 3. Supplier Data