Scale applicator tool for LM13 readhead installations

The LM13ASC00 scale guide is mounted in place of any RLS LM13 readhead and uses motion of the axis to apply MS10 tape scale parallel to the guideway - a one man, one hit operation.

Scale installation

1 Prepare scale and surface
   - Ensure scale is cut to correct length and mounting surface has been cleaned.

2 Install the scale guide
   - Mount the scale guide to the readhead bracket as shown in figure 1.

3 Load the scale into the scale guide
   - Separate the backing paper from the first 40 mm of scale and feed it into the scale guide.
   - Push the scale carefully through to the end of scale mark, ensuring that it does not stick to the mounting surface until it is in position. **NOTE:** to prevent the scale sticking to the mounting surface during this operation it may be necessary to re-apply approximately 20 mm of backing paper to the end of the scale before inserting through scale guide.
   - Attach the end of the scale to the mounting surface with light finger pressure.

4 Apply the scale
   - Traverse the axis through its full travel at a slow, steady speed.
   - While moving the axis:
     - Apply a light finger pressure to the scale behind the scale guide to attach it to the mounting surface.
     - Gently pull the backing paper away from in front of the scale guide as it is separated.
5 **Remove the scale guide**
- When the axis has reached the limit of its travel, lock the axis in place and unbolt the scale guide from the readhead mounting bracket.

6 **Ensure complete adhesion**
- Apply firm finger pressure along the full length of the scale from the centre outwards to each end.

7 **Apply cover foil** (if used)
- Install as per scale installation instructions in step 2 onwards. Cover foil can be installed to extend over the end of the scale and onto the substrate.

---

**Scale handling precautions**

**WARNING:** The MS10 magnetic scale should not be exposed to magnetic flux densities higher than 50 mT on its surface. Magnetic fields higher than 50 mT can damage the scale.

DO NOT remove the scale for refitting or use elsewhere once it has been applied to the mounting surface. The scale can be applied once only.
This product is not designed or intended for use outside the environmental limitations and operating parameters expressly stated on the product’s datasheet. Products are not designed or intended for use in medical, military, aerospace, automotive or oil & gas applications or any safety-critical applications where a failure of the product could cause severe environmental or property damage, personal injury or death. Any use in such applications must be specifically agreed to by seller in writing, and is subject to such additional terms as the seller may impose in its sole discretion. Use of products in such applications is at buyer’s own risk, and buyer will indemnify and hold harmless seller and its affiliates against any liability, loss, damage or expense arising from such use. Information contained in this datasheet was derived from product testing under controlled laboratory conditions and data reported thereon is subject to the stated tolerances and variations, or if none are stated, then to tolerances and variations consistent with usual trade practices and testing methods. The product’s performance outside of laboratory conditions, including when one or more operating parameters is at its maximum range, may not conform to the product’s datasheet. Further, information in the product’s datasheet does not reflect the performance of the product in any application, end-use or operating environment buyer or its customer may put the product to. Seller and its affiliates make no recommendation, warranty or representation as to the suitability of the product for buyer’s application, use, end-product, process or combination with any other product or as to any results buyer or its customer might obtain in their use of the product. Buyer should use its own knowledge, judgment, expertise and testing in selecting the product for buyer’s application, end-use and/or operating environment, and should not rely on any oral or written statement, representation, or samples made by seller or its affiliates for any purpose. EXCEPT FOR THE WARRANTIES EXPRESSLY SET FORTH IN THE SELLER’S TERMS AND CONDITIONS OF SALE, SELLER MAKES NO WARRANTY EXPRESS OR IMPLIED WITH RESPECT TO THE PRODUCT, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE, WHICH ARE DISCLAIMED AND EXCLUDED. All sales are subject to seller’s exclusive terms and conditions of sale which, where the seller is (a) RLS merilna tehnika d.o.o., are available at https://www.rls.si/customer-service, (b) Renishaw, Inc., are available at http://www.renishaw.com/Shop/legal/en--42186 or (c) another person, are available on request, and in each case, are incorporated herein by reference, and are the exclusive terms of sale. No other terms and conditions apply. Buyer is not authorized to make any statements or representations that expand upon or extend the environmental limitations and operating parameters of the products, or which imply permitted usage outside of that expressly stated on the datasheet or agreed to in writing by seller.