

RGA22G Scale guide

Scale applicator tool for RGH22 and RGH41 readhead installations

The RGA22G scale guide is mounted in place of any Renishaw RGH22 or RGH41 readhead and uses the motion of the axis to apply RGS20-S or RGS40-S tape scale parallel to the guideway whilst simultaneously removing the backing paper - a one man, one hit operation.

Scale installation

Prepare scale and surface

- ▶ Ensure scale is cut to correct length and mounting surface has been prepared (refer to the relevant RGH22 or RGH41 system installation guides for details).

Install the scale guide

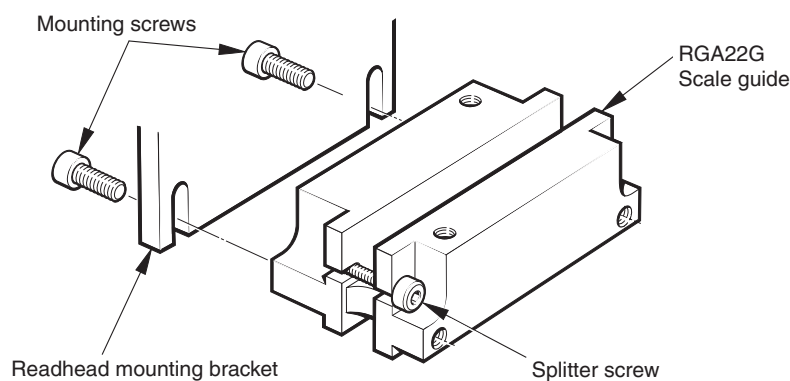


Figure 1

- ▶ Mount the scale guide to the readhead bracket as shown in Figure 1.
- ▶ Be careful to check that the readhead and the scale guide have the same orientation, as the readhead does not lie centrally over the scale.
- ▶ Move the guide to the start of axis travel. Note the direction of scale application as shown in Figure 2.
- ▶ The design of the RGA22G allows scale application in either direction.

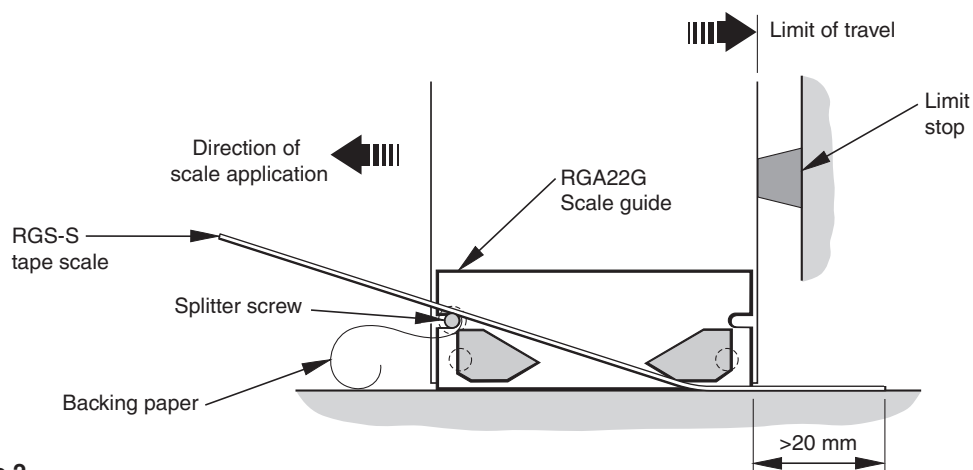


Figure 2

Load the scale into the scale guide

- ▶ Remove the splitter screw (see Figure 1) from the scale guide body by turning until the flats on the screw are parallel to the slot.
- ▶ Separate the backing paper from the first 40 mm of scale and feed it into the scale guide as shown in Figure 2.
- ▶ Relocate the splitter screw behind the backing paper as shown in Figure 2 and lock in place by turning through 90°.
- ▶ 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. This can then be removed before fitting end clamps.

- ▶ Attach the end of the scale to the mounting surface with light finger pressure.

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.

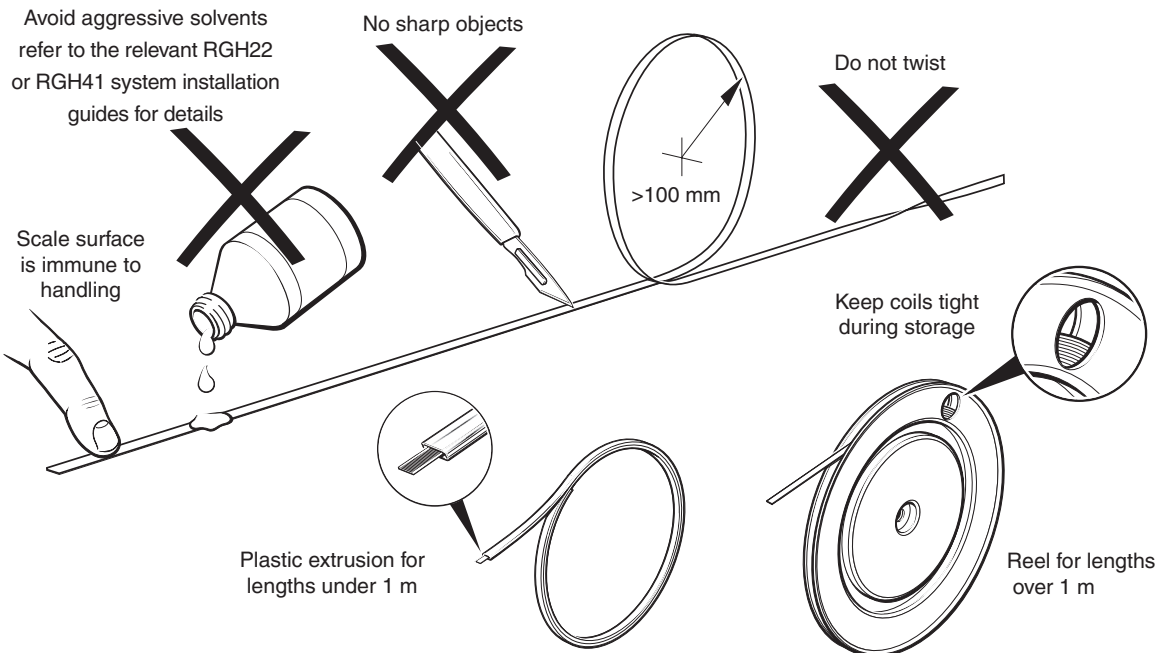
Remove the scale guide

- ▶ 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.
- ▶ Withdraw the scale guide along the scale whilst applying the remaining scale using light finger pressure.

Ensure complete adhesion of the scale to the mounting surface by applying firm finger pressure along the full length of the scale from the centre outwards to each end.

Fit end clamps part number A-9523-4015 (refer to the relevant RGH22 or RGH41 system installation guides for details).

Scale handling precautions



DO NOT remove the scale for refitting or use elsewhere once it has been applied to the mounting surface.

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