
Auto-Positioning of Magnets

The difficulty of manual positioning

When using an active telescope to work with different material lengths you will often need to adjust the spacing between your magnets. In the case of long flexible material (such as rebars as shown in Figure 1:), precise positioning can be critical if you want to avoid excessive bending of the load. This can be a safety issue.

In a traditional motor control arrangement, a 3-position switch (left-stop-right) is used by the operator to move the magnets into the desired position. The switch is released (motor stop) once the required position is reached. The entire procedure is manually controlled and correct positioning of the magnets relies on intuitive judgement of the operator and his visibility on the process. However, this can result in critical magnet positioning and thus impaired handling safety.



Figure 1: Active telescope for handling different rebar lengths

Precision and time-saving with auto positioning

With the Truninger auto-positioning feature it is possible to move the magnets to any one of up to eight pre-defined positions. These pre-defined positions are set up initially by a technician during commissioning of the system and optimised to match the load spectrum in your warehouse. They can be re-programmed at any time if you wish to do so.

Two different switch options are possible for controlling the auto-positioning:

- The simpler option uses the existing 3-position motor switch. Turning the switch in the desired direction the magnets will start to move and stop automatically when the next pre-defined position is reached. Movement of the magnets can be interrupted at any time simply by releasing the switch.
- A more flexible solution is to install an 8-position rotary switch allowing the target position (0-7) to be pre-selected. The magnets will then be set in motion by activating a spring-loaded 2-position switch and stop automatically when the pre-selected position is reached. Again, the magnets can be stopped at any time by releasing the 2-position switch.

When auto-positioning is activated the InfoPick™ display changes as shown below in Figure 2:

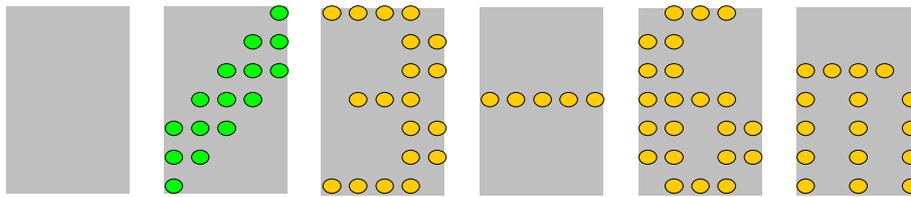


Figure 2: InfoPick™ display during movement of magnets

The rotating green element indicates movement of the magnets; the yellow elements display the programmed text corresponding to the target position (3-6m in this example).

When the magnets stop at the target position the InfoPick™ display changes as follows:

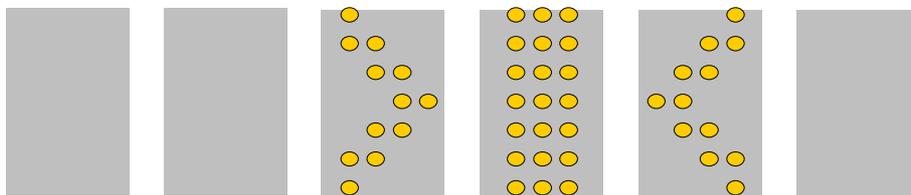


Figure 3: InfoPick™ display when magnets reach target position

This remains for 3 seconds after which the InfoPick™ display reverts to the state it was in prior to activation of the auto-positioning.