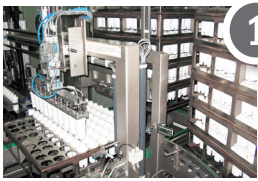
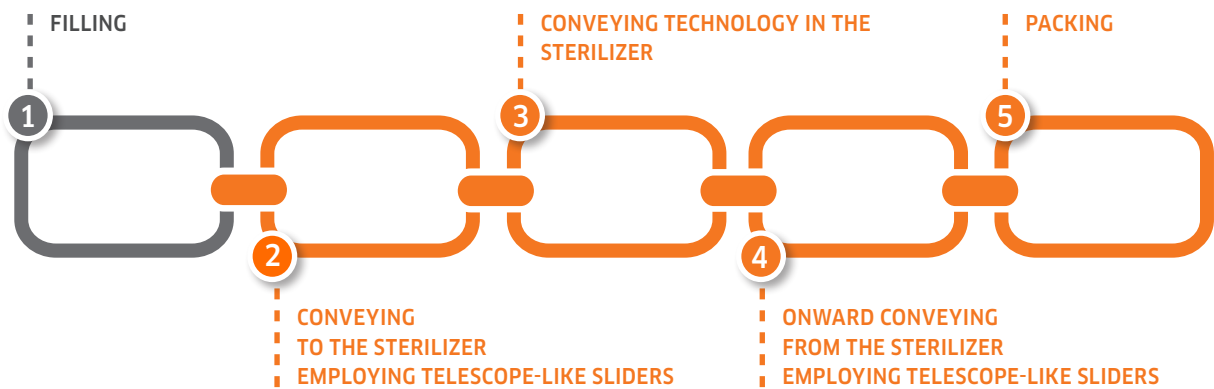


## CLEAN-CUT: FLEXIBLE TRAPO CONVEYING SYSTEMS



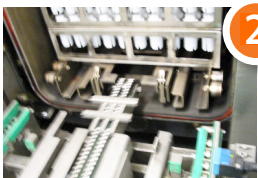
Preparing, conveying and packing of filter cartridges.



**1**

### Filling

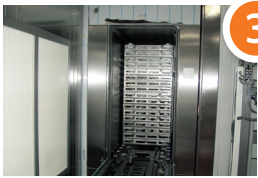
The cartridges filled with granules are received downstream of the on-site filling system utilizing toothed-belt conveyor, portal- and twin-axis robots.



**2**

### Conveying to the sterilizer

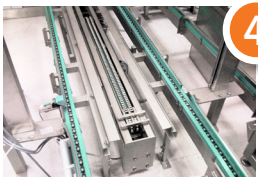
The cartridges are individually placed on the toothed-belt timed conveyor. A portal extracts the cartridges and places them in rows in prepared trays. These are fed to the sterilizer. Alternatively a bypass makes manual feed/removal of cartridges possible. A shuttle car takes care of stack onward transport.



**3**

### Conveying technology in the sterilizer

The tray stack is fed to the sterilizer. As the gate opens a telescopic arm slides the tray into the sterilizer, submerges, the gate closes, the sterilizing procedure begins. In reverse order, removal of the sterile cartridges takes place.



**4**

### Onward conveying from the sterilizer

The telescopic slider draws the trays from the sterilizer and buffers them on an accumulating conveyor. From there the path for the cartridges leads via a trackswitch for the destacking process. In this application solution a robot picks the cartridge, its gripper places it at 90° in a pocket-type conveyor.



**5**

### Packing

Then the individual cartridges are removed from the tray with a portal or robot, as an option they are placed on a conveyor or placed in a slide and fed to the vertical tubular bag machine, filled and closed. Packing and preparation for dispatch follow.